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## WAR DEPARTMENT

# TECHNICAL MANUAL <br> $*$ <br> <br> HOSPITAL DIETS 

 <br> <br> HOSPITAL DIETS}

October 13, 1941
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HOSPITAL DIETS

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This manual is largely the reproduction of the material in "Hospital Diets" by Lt. Col. D. B. Faust, M. C. U. S. Army.

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# HOSPITAL DIETS <br> Chapter 1 <br> GENERAL 

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Paragraph
Purpose ..... 1
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1. Purpose.-In the successful operation of any large hospital no more important or troublesome problem presents itself than that dealing with the proper feeding of sick and injured patients. Often it is the deciding factor in the success or failure of treatment. In military hospital practice nutritional experts or capable dietitians are few in number and even when at hand ward officers will never obtain maximum results in feeding their patients unless they themselves are able to direct such personnel. This manual will greatly simplify the diet problems for ward and mess officers, dietitians, mess sergeants, and cooks in ordering and preparing diets suitable not only for the average patient under usual conditions but also for almost any specific case which may be encountered. The manual has been prepared in the interest of standardization in the construction of menus and preparation of diets in military hospitals.
2. Scope.-a. The compilation of diets is designed to meet the normal requirements of station or general hospital. It is a recognized fact that dietary treatment of many diseases constitutes a most important part of the therapy employed. To obtain the best results from dietotherapy it is important that the diets be as simple as possible in composition, methods of preparation and administration. An ordinary dietary procedure adapted to simplicity in execution is far better than a superior diet so complicated that proper administration cannot be expected. The diets contained herein are in general collected from various sources and believed to be best suited for military hospitals. It is believed the selections made will be adequate for practically all cases if due care is used when ordering the diets.
b. No attempt is made in this manual to discuss diets in detail or even to mention all the innumerable diets that may be constructed. It is believed that data contained herein will be helpful to ward officers, mess officers, nurses, dietitians, and mess sergeants.
3. Ordering diets.- $a$. Ordering any diet required by a patient will not be prevented. However, in the interest of all, diets should be limited to those contained in this manual whenever possible. When ordering special diets, ward officers should remember that dietitians
require definite information and such information as the following should be included:
(1) High caloric.- State the number of calories desired.
(2) High carbohydrate, low fat.- State the number of grams of carbohydrate and fat desired. Unless otherwise stated, total calories will be approximately that of a normal diet.
(3) Low caloric and obesity.-State total calories desired and when ratio of protein, carbohydrate, and fat is to be altered, state the number of grams of each.
(4) Cardiovascular-renal.-State total calories, grams of protein desired, amount of fluid permitted, and whether salt is to be omitted or reduced or remain unchanged.
(5) Diabetic and ketogenic.-State total calories, number of grams of protein, carbohydrates, and fat desired. If the case requires special attention to fluid intake, state amount of liquids permitted.
(6) High vitamin.-When a special vitamin is desired, the name of the vitamin and quantity should be stated.
(7) High caloric, high vitamin.-State total calories and vitamins desired.
(8) Ulcer.-State at what period it is desired to start the diet, namely, first week, second week, etc.
(9) Operative.-State the name of the operation and day desired for the particular diet to be given, for instance, appendectomy, 2 d day diet, etc.
(10) Dental.- State whether liquid, light, soft, or full.
$b$. There is no limit to the number of special diets that have been formulated, tried, and found to be of therapeutic value. The condition of the patient will indicate to the medical officer the type of diet best suited to the case. It is in the unlimited field of special diets that the medical officer can be of most help to the patient by proper application of dietary principles before writing orders for this group of diets.
c. Certain of these diets are briefly outlined in this manual. However, unlimited combinations may be made. Such changes in combination will frequently be more beneficial to the patient than any other therapeutic measure. For instance, a high carbohydrate, low fat diet indicates that a total caloric intake above normal is desired and at the same time fats must be reduced to a minimum. One may go further and prescribe a high carbohydrate, low fat diet, total calories 2,000 or 2,500 , as may be desired. This gives the dietitian definite information.
d. One may prescribe a fat free diet, but such a name is a mis-
nomer, for it is practically impossible to furnish such a diet. It means a diet freed from every vestige of oily and fatty foods before and after cooking, and comprised of foods very low in fat.
$e$. Anticonstipation diet is frequently referred to as an A. C. diet. Such a diet, unqualified, calls for foods that increase indigestible residue or bulk at least 100 percent above the so-called normal diet, avoiding foods that do not furnish such bulk, and at the same time effecting no change in the total caloric intake.
$f$. If a high caloric diet is prescribed, the actual number of calories not being stated, the dietitian will figure the diet for approximately a 50 -percent increase in total calories. It should be remembered that this increase will be made up of carbohydrates and fats. Proteins are not usually increased or decreased unless specified.
$g$. Vitamin deficiency diseases are recognized more frequently now than formerly, and the vitamin that is lacking is identified in most instances. In such cases, it is not sufficient to prescribe a high vita$\min$ diet. The most important part is to state the kind and quantity of vitamin desired. For instance, high vitamin A and B diet or high vitamin $B_{2}$ diet, etc. By the application of these simple fundamental principles of dietetics in ordering food for patients, there should be no trouble in obtaining diets that will greatly aid in their recovery.
4. Inspection.- $a$. The responsibility of the ward officer does not cease when the order is written. Many mistakes can and do occur between the kitchen and the patient. As a matter of interest and efficiency, ward officers should inspect all diets on their services at least once daily. These diets should be inspected for palatability, appearance, and content. Errors will be found daily and these should be corrected at once.
$b$. The medical officer who is too busy to inspect diets or discuss them with his patients will miss entirely a most valuable therapeutic procedure. This responsibility belongs to the ward officers and cannot be delegated to other ward personnel.

## Chapter 2

## NORMAL DIET AND ITS MODIFICATIONS

Paragraphs
Section I. Normal diet composition ..... 5-7
II. Dietary requirements ..... 8-11
III. Liquid diet ..... 12-14
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Section I
NORMAL DIET COMPOSITION
Paragraph
Calories ..... 5
Food elements ..... 6
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5. Calories.-The normal diet contains the various elements of food in sufficient amount and in the proper ratio to maintain normal weight and to furnish energy required in routine or prolonged effort. The consumption of food is variable, depending on many personal factors, climatic changes, and type of work performed. The table below gives fairly accurately the average caloric intake under various states of activity:

6. Food elements.-Carbohydrates, proteins, and fats furnish the calories. Carbohydrates furnish about 50 percent of the entire amount needed, while proteins furnish about 15 percent and fats the remainder. The normal diet should contain approximately-
a. Protein. -1 gram per kilo of body weight.
b. Carbohydrates.-About 50 percent of total caloric intake.
c. Fats.-Remainder of total caloric intake after carbohydrates and proteins are subtracted. It is usually 30 to 40 percent of the total caloric intake.
d. Minerals.-(1) Requirements.-(a) Iron.- 0.015 gram daily.
(b) Phosphorus.- 1.2 grams daily. (c) Calcium.- 0.7 gram daily. (2) Sources.

| Mineral | Source |  |
| :---: | :---: | :---: |
|  | Excellent | Good |
| Iron | Apricots, dried. | Barley, whole. |
|  | Beans, common or kidney. | Barley, whole. <br> Beans, green. <br> Brains. |
|  | Beans, lima. | Broccoli. |
|  | Beet greens. | Brussels sprouts. |
|  | Broccoli leaves. | Cabbage greens. |
|  | Chard. | Cane syrup. |
|  | Cowpeas. | Collards. |
|  | Eggs, whole. | Corn meal. |
|  | Heart. | Dates. |
|  | Kale. | Endive. |
|  | Liver. | Lettuce (leaf lettuce only). |
|  | Meats, lean. | Meats, fat. |
|  | Molasses. | Oatmeal. |
|  | Peaches, dried. | Poultry, light meat. |
|  | Poultry, dark meat. | Prunes, dried. |
|  | Shrimp. | Raisins, seedless. |
|  | Tongue. | Rye flour. |
|  | Turnip greens. Water cress. | Wheat flour. |
|  | Wheat bran. |  |
| Phosphorus | Barley, whole. | Almonds. |
|  | Beans, common or kidney. | Barley, pearled. Broccoli. |
|  | Beans, lima. | Brussels sprouts. |
|  | Buttermilk. | Buckwheat flour. |
|  | Cheese, Swiss. | Cheese, American. |
|  | Cottonseed flour. | Cheese, Cheddar. |
|  | Cowpeas. | Cheese, cottage. |
|  | Crab. | Clams. |
|  | Eggs. | Cocoa. |
|  | Fish. | Collards. |
|  | Liver. | Corn meal. |
|  | Lobster. | Lentils, dry. |
| Phosphorus (Con.) | Meats, lean. | Oatmeal. |
|  | Milk, all forms. | Parsnips. |
|  | Oysters. | Peanuts. |
|  | Poultry. | Peas. |
|  | Shrimp. | Rye flour. |
|  | Soybeans. | Wheat flour. |
|  |  | Wheat bran. |


| Mineral | Source |  |
| :---: | :---: | :---: |
|  | Excellent | Good |
| Calcium | Broccoli. <br> Buttermilk. <br> Cabbage. <br> Chard. <br> Cheese, Swiss. <br> Clams. <br> Collards. <br> Dandelion greens. <br> Kale. <br> Milk, all forms. <br> Molasses. <br> Mustard greens. <br> Turnip greens. <br> Water cress. | Almonds. <br> Beans, green. <br> Beans, kidney. <br> Beans, lima. <br> Carrots. <br> Celery. <br> Crab. <br> Cream. <br> Eggs. <br> Endive. <br> Kohlrabi. <br> Lettuce, head or leaf. <br> Lobster. <br> Maple syrup. <br> Okra. <br> Parsnips. <br> Rutabagas. <br> Soybeans. <br> Turnips. |

Other mineral constituents of the body will usually be furnished in adequate amounts without special attention to diet.
$e$. Water.-In sufficient quantity to maintain proper water balance.
f. Vitamins.-(1) These substances are essential to the diet. Actual quantities required cannot be measured. In fact, the body requirement is the result of much experimental work. Dosage in most cases has been increased from year to year. The treatment of vitamin deficiency diseases, especially of the subclinical types, is by proper diet. However, in some cases it becomes necessary to administer vitamin concentrates or the crystalline preparations.
(2) In discarding impure concentrates for the crystalline vitamins there is gradually occurring a change of dosage from the unit system to that based on the weight of the patient. While much progress has been made there is much to be desired from the laboratory in tests to determine the deficiency of some of these vitamins. Recognition of vitamin deficiencies by laboratory methods and the establishment of accurate effective dosage lags far behind the discovery of these vitamins. New ones are being discovered with incredulous rapidity. It is believed that in therapy effort should be made to
prevent vitamin deficiency diseases by the use of proper diet whenever possible and also to use this method in the treatment of these conditions unless concentrates and crystalline forms are absolutely required. There is much to suggest in many of these conditions that the pure vitamin isolated is more effective in the presence of possibly yet undiscovered vitamins or fractions that are present in certain foods. No doubt there are many well-developed vitamin deficiency diseases in every community and many more belonging to the subclinical groups.
(3) It should be remembered that vitamin consumption from bottles and boxes is the fad of the Nation. Fewer purchases from the drug store and proper attention to construction of the family menu and preparation of the meals will solve the Nation's vitamin deficiencies, except those due to economic causes. Any therapeutic diet should be carefully considered from the standpoint of preventing a vitamin deficiency. Consideration should be given to the length of time it will be necessary to maintain the patient on the diet. Most vitamins are stored in the body and there is sufficient stored in many instances to last several weeks or months. Others are depleted rather rapidly. Much of that written about vitamins today will have to be changed tomorrow. Concentrates should be restricted to actual need and this will be relatively infrequent if more attention is given to properly balanced diets in and out of hospital.
g. Residue.-Residue from foods should be sufficient in amount to insure normal bowel movements. Fruits and vegetables furnish this residue. Three to four average servings daily should be sufficient.
7. Vitamin data.-The following discussion and table give some pertinent information about some of the better-known vitamins.
a. Vitamin A.-Vitamin A is required for normal vision in dim light or darkness. Lack of, or a lowered intake, of this vitamin produces night blindness. More severe grades of deficiency of this vitamin produce changes in the skin and the lining membranes of the bronchial tubes, gastro-intestinal, urinary and genital tracts, and an opaque condition of the cornea of the eye. The vitamin can be produced in the human body by the splitting of a pigment substance present in the green leafy and yellow vegetables. It is present in high concentration in the oils expressed from the livers of various fishes. Green and yellow vegetables, such as kale, collards, yellow squash, broccoli, carrots, lettuce, turnip greens, and sweet potatoes are excellent vegetable sources of carotene, the precursor of vitamin A. Cream, butter, cheese, egg yolks, canned sardines and salmon, and the livers of animals are the best animal sources. Fish-liver oils contain tre-
mendous amounts of vitamin A and are used when it is necessary to treat severe deficiency.
b. Vitamin $B_{1}$ (thiamin).-This vitamin is necessary for the derivation of energy from sugars and starches. Together with riboflavin, nicotinic acid, pyridoxine, and pantothenic acid, it comprises the more familiar of the B vitamins. When the diet contains large amounts of sugar and starchy food and an inadequate amount of this protective nutrient, disturbances of metabolism due to thiamin deficiency and liability to infection are produced. The first effect is on the appetite; then various nervous symptoms appear, irritability, loss of interest in important matters, forgetfulness, ready fatigue, and finally total mental and physical inadequacy and reduced resistance to infection may result. Severe deficiency results in neuritis or the symptoms of heart failure. These constitute the disease known as beriberi. Good food sources of thiamin are lean meats, liver of any kind, whole grain cereals, enriched flour and bread, peas, dried beans, peanuts, and many of the green vegetables. Considerable loss of vitamin $B_{1}$ may occur in the preparation of food. Vitamin $B_{1}$ is soluble in water, hence, discarding the water in which foods are soaked or cooked results in an appreciable loss of the vitamin. Thiamin is destroyed by heat, especially in the presence of alkali. The losses from cooking meats are in the neighborhood of 40 percent, of vegetables 20 percent and, when the water used in cooking is discarded, an additional 25 percent may be lost.
c. Vitamin $B_{2}$.-Riboflavin, like thiamin, is required for the utilization of energy from sugars and starches and is probably involved in the metabolism of fat. Like thiamin, deficiency is produced by a diet containing excessive amounts of purified carbohydrate foods such as sugars and highly milled, unenriched flour, and inadequate amounts of protective foods. Lack of riboflavin is likely to cause soreness and cracking of the lips, especially at the corners of the mouth; vision may be disturbed from cloudiness of the cornea of the eye and the eyes may become unduly sensitive to bright light. Poor distant vision and inability to see distinctly in dim light are additional symptoms. Riboflavin is present in small amounts in many foods; the best sources are liver, lean meat, eggs, milk, cheese, and green leafy vegetables.
d. Nicotinic acid.-This vitamin, like thiamin and riboflavin, is necessary for the conversion of the sugars and starches into energy, and there is reason to believe that the three vitamins have interlocking functions in this process. Mild deficiency of nicotinic acid may result
in "nervousness," mental depression, lack of mental stamina, forgetfulness, loss of appetite, and diarrhea or constipation. Later there may be soreness and redness of the tongue and ulceration of the gums which may be mistaken for "trench mouth." Severe prolonged deficiency causes the disease called pellagra. Good sources of nicotinic acid are lean meats of all kinds, liver, fish, whole grain cereals, enriched flour and bread, and green leafy vegetables.
e. Vitamin $C$ (ascorbic acid).-The function of ascorbic acid is to solidify the cement substance which holds the cells of various body tissues together; lack of the vitamin is usually first shown by evidence of undue fragility of the capillary blood vessels. The gums become swollen and tender, and bleed easily; minor injuries produce large bruises. Severe deficiency causes the disease scurvy in which there are large hemorrhages into the skin, muscles, joint cavities, and between the bones and the membranes of their skinlike covering. There is also, as with other vitamins, reduced resistance to infection. Ascorbic acid is present in large amounts in citrus fruits, tomatoes, cabbage, and leafy vegetables. Most fruits and green vegetables are good sources of this vitamin. It is easily destroyed by heat, destruction being accelerated in the presence of an alkaline reaction, so that no food containing ascorbic acid should be subjected to long boiling nor should soda be added to any green vegetable to preserve the color during cooking. The losses in preparation of food are approximately one-third of the original content.
f. Vitamin $D$ (calciferol).-Vitamin D is necessary for satisfactory absorption of calcium and the precipitation of calcium and phosphorus in the proper proportions for the preservation of the normal structures of the bones and teeth. In normal adults this vitamin is produced in ample amounts by the action of ultraviolet rays of sunlight on compounds contained in the fat underlying the skin. While this vitamin is present in butter, cream, eggs, liver, and certain fish, for the soldier exposed to sunlight food sources are unimportant and signs of deficiency are not likely to appear.
g. Vitamin $K$.-This substance is necessary for the formation of one of the important factors in the clotting of blood. When it is deficient, excessive and prolonged bleeding may occur from trivial wounds. It is very unlikely that this vitamin could be deficient in a dietary of natural foods. The green leafy vegetables, tomatoes, and hog livers are the best sources of vitamin K.

| Vitamin | Adult daily requirement | Normal blood level | Daily adult dose | Forms for use | Body storage | Test for deficiency |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A (carotene) .......... | 2,000-5,000 IU | $80-100$ IU per 100 cc - | Average, $10,000-25,000$ IU. Advanced, $50,000-100$,000 IU. | Fish liver oils. Hypo not satisfactory. | Good. Slow depletion. | Not satisfactory. Biophotometric, fair. |
| $\left.\begin{array}{l} \text { B complex } \\ \mathrm{B}_{1}, \text { thiamin } \end{array}\right\}$ | $330-660$ IU or 1-2 mg_ | Trace. | $\begin{aligned} & 10-25 \mathrm{mg} \text { or } 3,300-8,250 \\ & \text { IU. } \end{aligned}$ | Thiamin by mouth, parenterally or subcutaneously. | Limited. Rapid depletion. | Not satisfactory. Less than 12 IU in urine daily indicates deficiency. |
| $\mathrm{B}_{2}$ or G, riboflavin .... | $1.5-3 \mathrm{mg}$ or $600-$ $1,200 \mathrm{~B}-\mathrm{S}$ units. | Not known........-- | 5 mg daily or $2,000 \mathrm{~B}-\mathrm{S}$ units. | Riboflavin orally | Good. Slow depletion. | Good. Urine excretion and blood. |
| Nicotinic acid, P. P. factor. | Not known........ | 0.15 mg per 100 cc | 500 mg orally. $\quad 50-100$ mg per hypo. | Nicotinic acid orally, parenterally or subcutaneously. | Limited. Probably rapid depletion. | Not satisfactory. |
| $\mathrm{B}_{6}$, pyridoxine....... | Unknown | Unknown | Questionable. Possibly 50 mg orally. | Pyridoxine 50 mg ampules. | Unknown | Not satisfactory. |
| C, ascorbic acid ....... | $\begin{aligned} & 50-100 \mathrm{mg} \text { or } 1,000- \\ & 2,000 \mathrm{IU} . \end{aligned}$ | 1-1.5 mg. per 100 cc .- | $\begin{aligned} & 600-900 \mathrm{mg} \text { or } 12,000-18,- \\ & 000 \mathrm{IU} \text {. } \end{aligned}$ | Ascorbic acid orally, subcutaneously or intravenously. | Questionable | Good. Photoelectric calorimetric method on blood. Urine excretion method. |
|  | 600 IU. | Not known | 10,000-20,000 IU | Cod liver oil USP. Viosterol USP orally. | Limited..............- | Good. Calcium, phosphorus, and phosphates in blood. |
|  | Unknown | Unknow | 1 to 4 tsps | Wheat germ oil, orally | Unkno | None. |
|  | Unknown | Unknown | Cerophyl $10-15 \mathrm{gm}$. Klotogen $1-3 \mathrm{gm}$. Thyloquinone orally, 2 to 4 mg ; intravenously, 1 to 2 mg . | Vitamin K orally; bile salts with thyloquinone orally and intravenously. | Unknow | Good. Use the prothrombin time. |

It must be remembered that dosage of vitamins will vary from the above, especially in pregnant women, children, and in the type of diet consumed.

## Section II DIETARY REQUIREMENTS

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8. General.-a. The requirements in diet are difficult to determine accurately. There are many factors concerned, especially when complications resulting from disease are considered. There must be a working basis upon which all menus are constructed and for this purpose the needs for the average size person on a full diet in the hospital are used. It is realized that many will find difficulty in consuming this amount, while others are large eaters and will require more. Average requirements in grams on full diet are-
(1) Protein
70-75

(3) Fats 90-120
(4) Calcium ..... 0.7
(5) Iron ..... 0.015
(6) Phosphorus ..... 1.2
b. Under ordinary conditions a diet satisfying these proportions will furnish to the body adequate energy from the carbohydrates, principally; adequate fat replacement and storage from the fatty elements and the protein will be sufficient for repair and maintenance of the muscular tissues. All minerals are important, but calcium, iron, and phosphorus may not be found in sufficient amounts in unbalanced diets. It is therefore wise to keep these three minerals in mind when menus are being prepared. Dietary deficiencies will not result on the above-mentioned requirements if the following articles are included in the menus and consumed daily:
(1) Meat, 3 to $3 \frac{1}{2}$ ounces.
(2) Milk, 1 pint on full or regular diets and 1 quart on all other diets.
(3) Eggs, at least one in some form.
(4) Vegetables, two to three servings of starchy vegetables such as potato. One to two servings of a raw leafy or watery vegetable.
(5) Fruit, one serving of a cooked and one serving of a raw fruit.
(6) Butter, $1 \frac{1}{2}$ ounces.
(7) Sugar, 2 ounces.
9. Serving portion standard.-Frequently there is a wide divergence of opinion as to the amount of a food in serving portions.

When the opinion on the ward differs from that in the kitchen, either a wastage of food or complaints from the wards that insufficient food is sent, will result. The following serving portions are accepted as standard throughout hospitals:

| Food | One portion |
| :---: | :---: |
| Bacon. | 3 strips. |
| Butter | 1 square. |
| Bread | 2 slices. |
| Cereal: |  |
| Cooked. | 1/2 cup. |
| Dry | 1 individual package. |
| Fruits: |  |
| Cooked. | 1/2 cup. |
| Raw | 1 medium size orange or its equivalent. |
| Jelly or jam. | 1 tablespoonful. |
| Meat | $3^{\prime \prime} \times 21 / 2^{\prime \prime} \times 1^{\prime \prime}$. |
| Vegetable: |  |
| Raw- | 1 average tomato or equivalent. |
| Cooked | $1 / 2$ cup. |

10. In disease.-a. General.-In discussing the normal requirements of a diet, disease has not been considered. Therapeutic diets are merely modifications of normal requirements. Such modifications may be great or small. In all instances, however, they must fill the following requirements:
(1) Satisfy body demands for each disease or pathological condition.
(2) Adequate to sustain normal nutritional requirements.
(3) Prepared so that patient will be satisfied with the diet.
(4) So prepared that forced feedings may be employed if needed.
b. Change.-(1) Purpose.-Modified normal diets are known by certain names and in any institution uniform names must be used for identification purposes. Otherwise, improper diets will reach the patient. All of these modified diets have been changed for therapeutic reasons as follows:
(a) Changed consistency to promote tolerance by patient and aid digestion.
(b) To meet increased or decreased caloric intake.
(c) To increase or decrease individual elements required.
(2) Name.-Changes to meet these needs will naturally cause great changes in the appearance of the trays even though the total daily caloric intake is the same. Modifications mentioned above naturally
lead to naming these diets. Under (1) (a) above in which there is a change of consistency may be mentioned such diets as-
(a) Liquid.
(b) Soft.
(c) Bland.
(3) Application.- (a) In certain diseases it may be necessary to increase or decrease the total caloric intake. This may be done by supplementing the regular diet with certain foods when an increase is desired, and if a decrease is desired by limiting the portions served. In most instances, however, the menu must be changed to meet not only the desired caloric intake, but frequently the consistency of the food must also be changed. It may be desired to go even further and alter the individual elements of the food over that found in the normal diet. Examples of diets for increased caloric intake are those used in goiter and typhoid fever, while the diets representing the decreased caloric intake are those used in obesity, weight reduction, etc. Under (1) (c) above fall a large group of diets necessary as therapeutic measures in which there is a change in quantity and kind of elements used in the normal diet. In this large group of diets it may be necessary to combine with these changes modifications of consistency of the food, and also changes in the total caloric intake. The principal elements in this group that will have to be adjusted are-
11. Proteins.
12. Carbohydrates.
13. Fats.
14. Vitamins.
15. Minerals.
(b) It is in this group that most special diets arise. It is readily understood why an adjustment of these elements must be made in diabetes mellitus. The same may be said of certain forms of nephritis when it is desirable to reduce protein intake, or in some of the types of jaundice when fat is not well tolerated. It is also readily understood why individual constituents are changed to insure the necessary intake of the important minerals. In the vitamin deficiency diseases, the greatest therapeutic agent known is that found in diet which can be furnished when individual constituents are changed to insure the adequate intake of the proper vitamin. Variations or changes in constituents may be extended to include alteration in constituents of the diet to furnish more or less residue as desired. In such a case protein must remain the same, fats reduced, and certain forms of carbohydrates increased. In special diets a normal vitamin intake should be assured.
16. Classification of diets.-a. The diets available are-
(1) Liquid.
(2) Soft.
(3) Light.
(4) Regular (full or general).
(5) Special or therapeutic.
b. All of these are constructed on the basis of the regular diet. Liquid, soft, light, and special diets are prepared in and obtained from the general diet kitchen and regular diets only are prepared in the main kitchen.

## Section III

## LIQUID DIET

Composition ..... 12
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12. Composition.- $a$. Liquid diets are composed of fluids that are either liquid when taken into the mouth or become liquid before reaching the stomach. These foods afford little residue or indigestible material. They must be easily digestible, often concentrated, and free from irritating condiments and mechanical irritants. Such diets should be given in small portions, $60-400 \mathrm{cc}$, depending on the nature of the case. The feedings should be repeated every 2 hours unless there are contraindications. At least six to eight feedings are required daily. The caloric intake in this type of diet varies. In some cases it may be desirable to have the patient take considerably more than the basal requirement. It is not unusual for liquid diets in many cases to run as high as 2,000 or more calories, with a proper ketogenicantiketogenic ratio.
b. Liquid diets are constituted from-

Clear broth.
Coffee or substitutes.
Tea.
Fruit juices.
Milk.
Cocoa milk.
Chocolate milk.
Malted milk.
Gelatin dessert.
Ice cream and ices.
Sherbet.
White of egg.
Bouillon.

Vegetable juices, strained.
Albumen.
Gruels.
Eggnog.
Albumenized drinks.
Cream soups.
Vegetable soups, strained.
Carbonated drinks.
Grape juice.

- Junket.

Buttermilk.
Beef juice.
Boiled custards.
c. When it is desired to convert the liquid into a high caloric liquid diet add, in considerable amounts, cream to all milk drinks; lactose, glucose, sugar, and jelly, used freely; and special ice cream giving a high fat and carbohydrate content.
13. Sample menus.- $a$. For suggested menus for liquid diets, amounts to be served omitted, see section II, chapter 5 . Unless otherwise indicated average servings will be given as outlined in paragraph 9 .
$b$. In addition to the three meals a day there should be a minimum of three extra feedings daily as follows:

At 10:00 AM, 3:00 PM, and 8:00 PM, an average serving of milk, eggnog, chocolate milk, malted milk, or grape juice should be given. It will not be unusual to feed the above menus at the regular meal hours in slightly smaller quantities and supplement with milk, eggnog, fruit juices, or other liquids every 2 hours between meals.
14. Tube feeding.- It frequently becomes necessary to force-feed patients by means of a stomach tube. This measure necessarily requires some form of concentrated liquids in order that the procedure will require repetition as infrequently as possible. The following tube diet formulas are suitable:
a. No. 1.

Grams
Milk ..... 1,000
Egg yolk ..... 4
Evaporated milk ..... 120
Karo syrup ..... 200
Yeast. Two cakes dissolved in 200 cc hot water. Mix and cook in a double boiler. Cool, strain, and add tomato juice ..... 120
Cod liver oil ..... 16
b. No. 2. ..... Grams
Milk ..... 1, 000
Egg yolk ..... 4
Pastry cream, 40 percent ..... 240
Karo syrup ..... 100
Yeast. •Two cakes dissolved in 200 cc hot water. Mix and cook in a double boiler. Cool, strain, and add orange juice ..... 200
Cod liver oil ..... 16

When tube feeding is not prolonged the following will be sufficient:
c. No. 3. GramsMilk1, 000
Pastry cream, 40 percent ..... 250
Glucose, 50 percent ..... 250
Heat and use at body temperature.
d. No. 4.

Grams
Malted milk ..... 1, 000
Pastry cream, 40 percent ..... 250
Dextromaltose, 30 percent ..... 300Heat and use at body temperature.

When using tube diets care should be exercised to insure the administration of at least 2,000 calories daily to adults.

## Section IV

## SOFT, LIGHT, AND REGULAR DIETS

Paragraph
Soft ..... 15
Light ..... 16
Regular (general or full) ..... 17
15. Soft.- $a$. The soft diet is used in cases when it is desirable to eliminate or reduce mechanical irritation as much as possible. The distribution of the food elements is safe and the total caloric intake is ample for proper maintenance in health and disease. Because of the texture of these foods, patients tire of them quickly, and therefore should not remain on them any longer than necessary. The soft diet must be soft, readily digestible, and irritating indigestible residue small. Such a diet therefore is suitable for convalescent cases, some intestinal disorders, and certain stages of post-operative cases. In general, except where special diets are required, the soft diet bridges the gap between the liquid and regular diets, or liquid and light diets, or liquid and special diets.
$b$. Soft diets are constituted from the liquid diet plus-

Cooked cereals.
Toast.
Cream toast.
Soft-cooked eggs.
Purée of-
Spinach.
Peas.

Purée of-Con.
Carrots.
Asparagus.
Lima beans.
String beans.
Summer squash.
Baked white potatoes.

Mashed white potatoes.
Creamed white potatoes.
Cornstarch puddings.
Cooked fresh fruits (except pineapple and berries).
Minced white meat of chicken.
Scraped beef.

Oysters.
Broiled or baked white fish. Cottage cheese.
Creamed sweetbreads.
Plain cookies.
Soda crackers.
White bread.
c. For suggested menus for soft diet, see paragraph 181. Average servings are given unless requirements of the case indicate otherwise. A glass of milk or fruit juice may be given between meals and at 8:00 PM if the patient is hungry.
16. Light.- $a$. Light diet is a stepping stone filling the gap between the soft and full or regular diets. It is composed of easily digested foods and is low in indigestible residue. The total caloric intake is adequate and the supply of carbohydrate, protein, and fat is liberal.
b. Light diet is obtained from all liquid and soft diets plus-

Miscellaneous
Rice.
Macaroni.
Spaghetti.
Noodles.
Meats.
Fish.
Oysters.
Clams.
Bacon.
Chicken.
Turkey.
Lamb chops.
Roast lamb.
Tenderloin steak.
Brains.
Sweetbreads.

Vegetables
Asparagus.
Beets.
Carrots.
Eggplant.
Lettuce.
Lima beans.
Peas.
White potatoes.
Pumpkin.
Spinach.
Squash.
String beans.
Tomatoes.
Cauliflower.
Parsnips.
Avoid cabbage, corn, onions, turnips, and rutabagas.
c. Sample menus are given in section II, chapter 5.
17. Regular (general or full).- $a$. The general diet in hospital is very liberal. Ordinarily the regular diet of a hospital provides for about 2,500 calories per patient. The food in this diet is readily digestible. The articles selected for the menus insure proper antiketo-genic-ketogenic ratio, adequate minerals, and vitamins $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D}, \mathrm{E}$,
and $G$. The regular diet used fills the above requirements, except that it is considered "heavier," providing from 3,000 to 3,500 calories per person. It should be remembered that it is the regular diet that forms a basis for all the other diets. The construction of the regular diet menu is very important. In paragraph 170 is a table that is useful in making up the regular diet menus. In institutions where patients and personnel are subsisted from separate kitchens this form should be modified somewhat to fit better the needs of the regular diets for patients.
$b$. For suggested menus which may be modified easily to suit conditions, see section II, chapter 5.

## Chapter 3

## THERAPEUTIC AND SPECIAL DIETS

Paragraphs
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II. Ulcer ..... 19-23
III. Retention ..... 24-27
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V. High caloric ..... 32-36
VI. Low caloric (reducing) and high vitamin ..... 37-38
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Section I
GENERAL
Prescribing ..... 18
18. Prescribing.- $a$. Great care should be exercised in prescribing therapeutic diets. Remember all these diets are designed for the disease or condition based on consistency, constituents, and caloric content of the items of food permitted in the diets. Constituents, consistency, and caloric content should always be foremost in mind when ordering a therapeutic diet, rather than ordering a diet named for some person. If the total caloric content is adequate, all the constituents present, and consistency changed as indicated to furnish not only normal requirements but increased or decreased in any of the above three essentials to fit the needs of the disease or condition
treated, the patient will then and only then receive the benefit of dietotherapy. Many therapeutic diets have to be continued indefinitely and many others over a long period of time. Examples are diabetic diets, diets for peptic ulcer, Addison's disease, etc. There are many conditions requiring therapeutic diets that should be returned to regular diet as soon as the need for a special diet has passed.
b. When therapeutic diets have been prescribed and it is necessary for their continuance after the patient leaves the hospital, the appropriate diet pamphlet should be furnished him.
c. It is believed that this manual contains sufficient therapeutic diets to cover the needs for most diseases treated without further modification. In the interest of efficiency in administration, ward officers as well as all other personnel concerned with dietary problems should familiarize themselves with this manual so that further modifications of these diets and entirely new ones may be prescribed as infrequently as possible.

## Section II

> ULCER

General
Modified Sippy diet ..... 20
Convalescent ulcer diet ..... 21
Smithie method ..... 22
Bland diet ..... 23
19. General.- $a$. Gastric and duodenal ulcers that are to be managed by medical measures and those to be prepared for surgery by a period of dietary management should follow a well-outlined plan. In general, nonsurgical cases may be benefited by a combination of accepted remedial measures. They are listed in the order of their importance:
(1) Rigidly enforced diet.
(2) Absolute mental rest.
(3) Absolute physical rest.
(4) Medicines.
$b$. There are many diets used in the treatment of gastric and duodenal ulcers. Practically all of them employ milk and cream in the beginning, and by stages soft-cooked eggs, cereal gruel, custards, and vegetable purées are added. It is difficult to say that one of these diets is superior to another. It is a fact that some are administered with greater ease than others. Since an important factor in all these
diets is the manner of regularity of the feedings, it is to be expected that a diet that permits proper execution will be selected.
c. It must be remembered that a single diet will not be satisfactory in all cases. It is therefore necessary to have other nonsurgical measures available.
d. It is believed that most cases not requiring surgery will respond to a modified Sippy diet. The few cases not responding should then be tried on Smithie's nonsurgical management. If both these diets have been given honest trials, it will be well worthwhile to recheck by X-ray, for in most instances it will be found they were really surgical cases in the beginning. One cannot expect proper response on any diet unless the cases have been properly diagnosed and classified. The modified Sippy diet outlined below should be continued until something is proven superior.
$e$. The modified Sippy, convalescent, and post-hospitalization ulcer diets are all deficient in some vitamins, especially B and C. It is advisable to supplement them with orange juice, yeast, and cod liver oil. It is not uncommon to find that orange juice is not well tolerated for the first few days after an acute exacerbation. In such cases orange juice should be omitted for a few days and then tried again. Tobacco should be prohibited indefinitely.
$f$. Convalescent ulcer diet should be continued indefinitely after hospitalization. Peptic ulcer is a systemic disease and all the principles embraced in its management must be continued indefinitely if success in treatment is obtained. Salt, spices, pepper, or other condiments must not be used. Postum is permitted in the convalescent ulcer diet but coffee and tea should be avoided. At the end of the third week of the modified Sippy diet, the patient should beput on the convalescent ulcer diet. During the first 3 weeks of treatment Sippy powders should be used every hour midway between feedings, and after the patient is on the convalescent ulcer diet the A powders should be taken $1 / 2$ hour before meals and B powders $1 / 2$ hour after meals. These powders may be alternated as required for correction of constipation or diarrhea.
20. Modified Sippy diet.-a. Powders.-Sippy powders are made as follows:
(1) A powder.

Calcined magnesia, 10 grains.
Sodium bicarbonate, 10 grains.
(2) B powder.

Calcium carbonate, 10 grains.
Sodium bicarbonate, 30 grains.

## b. Outline.

1st to 7th day 7:00 AM to
9:00 PM
7th to 14th day
7:00 AM to
9:00 PM

14th to 21st day 7:00 AM to
9:00 PM

Cream and milk (half and half, 3 ounces every hour). Powders as directed. 60 ec orange juice three times a day if tolerated. Fish liver oil concentrate and yeast tablets daily. Cream and milk every hour from 7:00 AM to 9:00 PM, except 7:00 AM and 5:00 PM. Cooked cereal, 6 ounces at 7:00 AM. Custard or junket, 4 ounces. Powders as directed. 60 cc orange juice three times a day if tolerated. Navitol or substitute and yeast tablets daily.
Cream and milk every hour from 7:00 AM to 9:00 PM, except 7:00 AM, 11:00 AM, and 5:00 PM (see menu below). 60 cc orange juice three times daily if tolerated. Fish liver oil concentrate and yeast tablets daily.

Breakfast, 7:00 AM
Dinner, 11:00 AM
Supper, 5:00 PM

Cereal, 6 ounces.
One soft-boiled or poached egg.

Creamed soup, 6 ounces. Custard junket or apple sauce, 4 ounces.

Apple sauce or junket, 4 ounces.
Creamed rice, 6 ounces. One teaspoonful sugar. Cream, 2 ounces.
21. Convalescent ulcer diet.-Written instructions should be provided all ulcer cases when discharged from the hospital. This is known as the convalescent or post-hospitalization ulcer diet. A pamphlet is furnished the patient on discharge (see sec. II, ch. 4).
a. Food selection.-Construct menus from the following:

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Beverages | Chocolate every second day, chocolate malted milk, cocoa, cream and hot water, eggnog, milk, milk with cream, half and half, or with raw egg, milk shake, postum. | Acid drinks, alcohol, any drink too hot or too cold, coffee, fruit drinks except sweet orange juice, tea. |
| Bread | Toast, well done from stale white or graham bread, zweiback. | Bran breads, fresh bread, hot biscuits; muffins. |
| Butter | Moderate amount. Salt-free preferable. |  |

a. Food selection-Continued.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Cereal | $\text { Cream of wheat_- } \begin{cases}\text { Cook } & \text { in } \\ \text { d o u ble- } \\ \text { boiler } & \text { at }\end{cases}$ | All bran cereals, corn meal mush. |
|  | Farina_-------- 1 |  |
|  | $\begin{array}{l\|lr} \text { Oatmeal_------- } & \begin{array}{l} \text { hour, oat- } \\ \text { meal } \\ \text { hours. } \end{array} \end{array}$ |  |
|  | Corn flakes, puffed rice, rice krispies. Limit sugar to 1 teaspoonful. |  |
| Cheese_ | Cottage cheese, fresh; cream | All others. |

Desserts containing acid, all pastries, rich puddings.

Fried; omelets.
Any fish except as listed in the permitted classification.

All uncooked fruits containing a large amount of acid and those to which much sugar has been added.
a. Food selection-Continued.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Nuts |  | All. |
| Salad and salad dressing. | Mayonnaise occasionally after 3 months. | All others. |
| Salt and condiments. | Very sparingly | All others. |
| Soup.-.......... | Cream of vegetable and purées only. | Bouillon, beef broths and meat soups. |
| Sweets |  | All candy, jams, sundaes, etc. |
| Vegetables | Asparagus (fresh tender). <br> Beans. <br> Rutabagas. <br> Carrots. <br> Spinach. | All raw or coarse vegetables. Tomatoes should be avoided for at least |
|  | Peas. <br> Turnips. <br> These must be well cooked and fiber removed and strained. Potatoes, plain boiled, creamed, mashed, riced. Steamed rice is permitted. | 1 year. |

b. Sample menus.-For sample menus, see paragraph 182.
c. Midmeal nourishment.-10:00 AM, 3:00 PM, and 9:00 PM, glass of milk or malted milk.
22. Smithie method.-This is the nonsurgical management of peptic ulcer by physiological rest and diet, modified after the method of Smithie. This method of treatment is very helpful in some cases that do not respond to other methods. Hemorrhage will cease in most bleeding ulcers and at the conclusion of 2 days on hemorrhage treatment a point has been reached when a decision has to be made on the form of medical management used. If hemorrhage has ceased and the patient shows improvement by this time the usual Sippy management will suffice. If there is continuation of hemorrhage either massive or slow, better results are usually obtained by the use of the Smithie's nonsurgical management if it has already been decided that surgery is not to be instituted. Response may be expected by this treatment in a few cases when there are no apparent reasons for surgery and after all other methods of management have failed. The objections to its use are all connected with its administration and because of this, a switch back to the Sippy management is frequently made after the condition of the patient justifies it.
a. Days, 1 to 7.-(1) By mouth.-(a) Give 15 cc of warm water every 2 hours when awake. Follow this each time by chewing paraffin wax 15 minutes.
(b) Orange juice, 60 ce at 9:00 AM, 2:00 PM, and 7:00 PM.
(2) By rectum.- (a) Nutrient enema at 8:00 AM, 12:00 noon, 4:00 PM, and 8:00 PM. Enema will consist of alcohol, 50 percent, 30 cc ; glucose syrup, 30 cc ; normal saline, 180 cc .
(b) These enemas will be preceded by a cleansing enema of normal saline solution. The nutrient enema will follow by the drip method at the rate of 30 to 60 drops per minute. If there is pain or spasm 10 drops of tincture of opium may be added to the nutrient enema the first 2 days.
(3) General.-If there is much epigastric soreness, hot compresses should be applied constantly to the abdomen with the following solution:

Alcohol, 50 percent, 500 cc .
Saturated solution boric acid, 1,000 cc.
b. Days, 7 to 14.-(1) By mouth.-(a) Chew paraffin wax $15 \mathrm{~min}-$ utes before each oral feeding.
(b) Give feedings of 180 cc at 7:00 AM, 11:00 AM, 3:00 PM, and 7:00 PM. Feedings to consist of gruel at a temperature $180^{\circ} \mathrm{F}$., taken slowly through a glass tube. Gruel is made into an emulsion by the addition of a small amount of arrowroot or cornstarch and flavored with coffee, vanilla, or chocolate. Make gruels from any of the following:

| Rice. | Sago. |
| :--- | :--- |
| Cream of wheat. | Peas. |
| Oatmeal. | Cauliflower. |
| Sixty ce warm water or orange juice at 9:00 AM, 1:00 PM, and |  |
| PM. |  |

(2) By rectum.-(a) First and second days.-Nutrient enema 9:00 AM , and 5:00 PM.
(b) Third and fourth days.- Nutrient enema at 8:00 AM.
(c) Fifth, sixth, and seventh days.-No rectal feedings in average cases.
c. Days, 14 to 21.

5:00 AM. A glass of hot water and one teaspoonful noneffervescent sodium phosphate.
6:00 AM. Sweet orange or grapefruit juice, 30 cc.
Thin cream of wheat, farina, or well-cooked rice, 60 cc . Hot milk, 60 cc.
One zweiback with a thin layer of butter.
Parboiled skimmed milk, 60 cc , containing 60 cc of lime water, flavored with vanilla, chocolate, or coffee, 120 cc.

9:00 AM. Thin water gruel from cereals, or fresh vegetables, strained, served hot, 180 cc .
One zweiback.
11:00 AM. Vegetable purée, 180 cc (from asparagus, beans, peas, or potatoes).
Salisbury steak, 4 ounces (moderately cooked). To chew only.
Pudding, 2 ounces (from rice, sago, tapioca, or cornstarch, using parboiled milk and egg yolk).
Parboiled milk, 150 cc , lime water, 30 cc to 180 cc .
2:00 PM. Malted milk or whipped egg with parboiled milk, or cornstarch pudding, or simple custard, 120 cc .
4:00 PM. Water gruel from cereal, 120 cc.
One egg, soft poached or boiled.
Milk, hot, 120 cc .
Zweiback, one.
6:00 PM. Hot milk, 120 cc. Zweiback, two.
9:00 PM. Cereal gruel, 180 cc.
Graham crackers, two.
d. Days, 21 to 42.

5:00 AM. Two teaspoonsful noneffervescent sodium phosphate in a glass of warm water.
6:00 AM. Juice from one sweet orange.
Thin cereal, 60 cc , with 60 cc skimmed milk.
One soft poached or boiled egg.
Zweiback, two, or-
Graham bread, two slices, well toasted.
Hot skimmed milk ( $1 / 4 /$ of which is lime water), 240 cc .
9:00 AM. Parboiled milk ( $1 / 4$ of which is lime water), 240 cc .
Graham crackers, two.
11:00 AM. Strained vegetable soup, 120 cc.
Rare steak to chew, 4 to 6 ounces.
Well-mashed potato, baked potato, carrot, beans, peas, or cauliflower strained, and 15 grams of butter added, 120 cc.
Pudding of rice, sago, or cornstarch, or cream of wheat, custard or prune whip, 120 cc .
Skimmed milk, 240 cc.
2:00 PM. Hot milk, malted milk, or weak cocoa, 240 cc.
Lime water, 60 cc.

4:00 PM. Zweiback, two, or-
Graham bread, toasted, two slices.
Two eggs, soft-poached.
Apple sauce, baked apple, or sweet orange juice, 100 cc .
Hot milk, 240 ce.
9:00 PM. Hot milk, malted milk, or weak cocoa, 240 cc .
Lime water, 60 cc .
$e$. After finishing the above diet, if not relieved the patient should go back to the 7 -to 21-day diet. If symptom-free, the general diet below should be strictly followed for 3 months.
6:00 AM. Toast without butter, two slices.
Juice of an orange, apple sauce, or baked apple.
One dish cooked cereal.
Two soft-poached eggs.
9:00 AM. Whole milk, to which has been added 45 cc cream, 240 cc.

11:00 AM. To be heavy meal of the day. May have average serving with choice of one meat, vegetable, and dessert of the following:

| Meat | Vegetable | Dessert |
| :--- | :--- | :--- |
| White meat of | Spinach. | Simple puddings. |
| $\quad$ fowl. | String beans. | Gelatin. |

9:00 PM. Hot skimmed milk, 240 ce.
It is often satisfactory to put the patient on the convalescent ulcer diet after finishing the 42 -day Smithie diet.
23. Bland diet.- $a$. General.-(1) This diet is used in many gastro-intestinal conditions. It is also useful in certain stages of recovery from many diseases. The fruits and vegetables should always be well cooked and those used should contain only a small amount of indigestible residue. This diet is not a substitute for ulcer diets at
any stage of the treatment of ulcer. It should be remembered that the diet must be kept bland. Avoid all fried, greasy, highly spiced, and seasoned foods. Mustard, pepper, vinegar, ketchup, horseradish, and relishes are not permitted. Canned, smoked, and preserved meats and fish must not be used. Pork and all raw vegetables and fruits, pastries, preserves, and candies have no place in this diet. Alcohol in all forms, carbonated waters, tea, and coffee must also be avoided, and do not use bran in any form.
(2) If diet is to be continued after hospitalization a diet pamphlet outlining the diet should be furnished the patient.
b. Food selection.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Bread | White bread if not too fresh, toast, hard rolls, white crackers, spaghetti, macaroni, and noodles. | All others including those containing bran. |
| Cereal | All well-cooked cereals and the ready-cooked ones, except those containing bran. | All cereal preparations containing bran. |
| Chee | Cream and cottage | All others. |
| Desser | Plain puddings of rice, tapioca, bread, cornstarch, and gelatin, sponge cake, plain cookies, junket, and ice cream. | All others, including those containing nuts, dates, coconut, and raisins. |
| Drink | Milk, malted milk, orange juice, and postum. | All others. |
| Eg | Boiled, poached, or scrambled. | Fried, and in any form if cooked with fat. |
| Fru | Cooked pears, prunes, peaches, plums, apple sauce, and apricots. Use the juice of at least 1 orange daily. | All uncooked fruits and all fruits with seeds and heavy skins. |
| Meat | Veal steak, lamb chop, and steak if broiled, roast beef, broiled or roast chicken, plain sweetbreads, baked or broiled fish, and crisp bacon. | All others. |
| Milk and butter | At least a pint of milk daily. Butter and cream may be taken as desired. |  |
| Soup | Cream soup and meat broth_ |  |

b. Food selection-Continued.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Vegetables_...... | Potatoes, peas, asparagus tips, <br> spinach, squash, beets, and <br> carrots. All must be well <br> cooked. May have very <br> finely chopped lettuce. | All vegetables containing <br> much indigestible residue, <br> cabbage, onions, turnips, <br> cauliflower, and parsnips, <br> and also all uncooked <br> vegetables except very <br> finely chopped lettuce. |

c. Sample menus.-See paragraph 194.

## Section III

RETENTION

## Paragraph

Requirements ..... 24
Foods suitable ..... 25
Use ..... 26
Types of diet ..... 27
24. Requirements.- $a$. Foods constituting a retention diet should be of such consistency that they can be aspirated if necessary. Milk, especially boiled milk, and cream are likely to form large curds unless diluted with other materials such as malted milk, chocolate, or egg white.
$b$. The protein needs will be sufficient if eggs and milk, or its products, are used adequately.
c. The total caloric intake will be variable, depending on ability of patient to retain the food ingested, and amount, type, and concentration of food given. If a high caloric diet is desired pastry cream, 40 percent, and lactose may be added to the feedings frequently enough to bring the total caloric intake to the desired amount.
$d$. The nurse should prepare these diets and exercise care in amounts served. The amount consumed at each serving should be charted. Foods should be served at hours specified, and effort made to serve the food in an attractive manner. The patient's preference should be followed when it does not conflict with the diet order. Hot food should be served very hot, and cold food very cold. Retention diets furnish very little residue and constipation is the rule. No attempt should be made to correct this by dietary measures. Feedings should be limited to 200 ce each and repeated every 2 hours during the day. Most patients requiring retention diets are dehydrated and poorly nourished, having lost their appetites and considerable weight. If it
becomes necessary to continue a retention diet over a prolonged period, orange juice, fish liver oil concentrates and two cakes of yeast dissolved in hot water should be given daily.
25. Foods suitable.-The following foods are suitable for retention diets when properly prepared:

Strained, cooked cereals with cream and sugar.
Postum with cream and sugar.
Cocoa when made with half milk and half 20 -percent cream.
Malted milk when made with half milk and half 20 -percent cream.
Chocolate milk when made with half milk and half 20 -percent cream.
Eggnog when made with half milk and half 20 -percent cream.
Plain ice cream.
Plain gelatin dessert with 20-percent cream.
Junket with 20-percent cream.
Strained cream soups.
26. Use.-Retention diets are useful in many gastro-intestinal diseases, especially those presenting evidence of partial functional or organic obstruction anywhere in the gastro-intestinal tract. These diets are most often used where there is partial obstruction in the duodenum and pyloric end of the stomach.
27. Types of diet.-The following retention diets* are satisfactory for ordinary purposes:
a. No. 1 .

| Time | Food | Amount |  |  |  | Calories (approximate) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | cc | C | $P$ | $F$ |  |
| 6:00 AM | Postum with cream | 200 | 2 | 1 | 6 | 66 |
| 8:00 AM | Gruel with cream and suga | 200 | 21 | 4 | 21 | 289 |
| 10:00 AM | Gelatin with cream | 200 | 15 | 6 | 20 | 264 |
| 12:00 M | Cream soup- | 200 | 11 | 6 | 24 | 284 |
| 2:00 PM- | Malted milk | 200 | 15 | 7 | 24 | 305 |
| 4:00 PM. | Cocoa | 200 | 16 | 7 | 28 | 340 |
| 6:00 PM | Gruel, cream and suga | 200 | 21 | 4 | 21 | 289 |
| 8:00 PM | Eggnog | 200 | 15 | 12 | 30 | 387 |
| Iquallat | Total | , 600 | 116 | 47 | 174 | 2,215 |

[^0]b. No. 2.

| Time | Food | Amount |  |  |  | Calories (approximate) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | CC | c | $P$ | $F$ |  |
|  |  |  |  |  |  |  |
| 6:00 AM | Cocoa | 200 | 16 | 7 | 28 | 340 |
| 8:00 AM | Gruel, cream and sugar | 200 | 21 | 4 | 21 | 289 |
| 10:00 A M | Malted milk | 200 | 15 | 7 | 24 | 305 |
| 12:00 M | Cream soup | 200 | 11 | 6 | 24 | 284 |
| 2:00 PM | Postum and cream | 200 | 2 | 1 | 6 | 66 |
| 4:00 PM | Eggnog | 200 | 15 | 12 | 30 | 378 |
| 6:00 PM | Gruel, cream and sugar | 200 | 21 | 4 | 21 | 289 |
| 8:00 PM_ | Junket | 200 | 15 | 6 | 8 | 156 |
|  | Total | 1,600 | 116 | 47. | 162 | 2, 107 |

c. No. 3.

| Time | Food | Amount |  |  |  | Calories (approximate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | CC | c | $P$ | $F$ |  |
| 6:00 AM. | Hot chocolate | 200 | 21 | 8 | 28 | 365 |
| 8:00 AM. | Gruel, cream and sugar | 200 | 21 | 4 | 21 | 289 |
| 10:00 AM | Cocoa | 200 | 16 | 7 | 28 | 340 |
| 12:00 M | Cream soup | 200 | 11 | 6 | 24 | 284 |
| 2:00 PM | Junket | 200 | 15 | 6 | 8 | 156 |
| 4:00 PM | Postum with cream | 200 | 2 | 1 | 6 | 66 |
| 6:00 PM | Gruel, cream and suga | 200 | 21 | 4 | 21 | 289 |
| 8:00 PM_ | Gelatin with cream | 200 | 15 | 6 | 20 | 264 |
|  | Total | 1,600 | 122 | 42 | 156 | 2,053 |

## Section IV

## ANTICONSTIPATION

General ..... 28
Anticonstipation (A. C.) diet ..... 29
Irritable colon (A. C. I. C.) diet ..... 30
High fat, low residue diet ..... 31
28. General.- $a$. Anticonstipation diets are intended for use in correction of constipation that is caused by many factors. They should be used in their proper places after the cause of constipation has been determined.
b. Habit becomes a factor in constipation even though some organic lesion is present, and may be corrected by the proper diet after the organic lesion has been removed. It is therefore important to determine definitely the cause of the constipation first and to correct removable etiological factors after which a proper diet, medication, and hygienic living should give relief. Some anticonstipation diets will call for a large amount of cellulose or indigestible residue. The total protein intake is not changed. If the patient is under weight, it is necessary to prescribe another type of anticonstipation diet. Such a diet would contain less cellulose, a large amount of fat, with no change in carbohydrate and protein intake. The total caloric intake would be increased about 50 percent. Diets containing a large amount of indigestible residue would not be prescribed when the constipation is due to an irritable colon.
29. Anticonstipation (A. C.) diet.- $a$. General.-This type of diet is used when no cause for the constipation can be found. It is high in cellulose content with no change in total caloric and protein intake. The diet for the first 1,2 , or 3 months should consist chiefly of cooked fruits, cooked vegetables, coarse breads, and coarse cereals. Raw fruits, and raw vegetables may be added gradually after 2 or 3 months. If this diet becomes objectionable the amount of fruits and vegetables may be decreased gradually as the constipation is relieved. Otherwise, it should be continued until there is proper response. Continuation of this diet will be required after hospitalization and the appropriate diet pamphlet should be furnished when discharged.
b. Food selection.

| Food | Permitted | Avold |
| :---: | :---: | :---: |
| Beverage | Fruit juice, postum, coffee, tea, milk, buttermilk. |  |
| Bread | Graham, bran, rye, whole wheat, raisin, nut bread or muffins. | Cornbread, white breads, and crackers. |
| Butter and olive oil. | As much as desired; the more eaten the better unless the patient is inclined to be obese. |  |
| Cereals | Oatmeal, pettijohn, bran breakfast foods, any of the coarse cereals. Cream and sugar with all cereals. | Cream of wheat, farina, and grapenuts. |
| Cheese | Fresh creamed cottage cheese. | All others. |

## b. Food selection-Continued.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Desserts | Gelatin desserts, sherbets, ices, ice cream, and all kinds of fruit desserts. Desserts may be served with whipped cream. | All custards, pies, and puddings containing a large amount of crackers, bread, and eggs. |
| Egg | One or two soft-boiled eggs daily. | Eggs in large quantities. |
| Fruit | Stewed, all kinds, especially prunes, figs, apples. Raw, especially figs, dates, plums, apples, prunes, oranges, peaches, berries, pears, and grapes. | Bananas. |
| Meat | Crisp bacon, lamb chops, steaks, chops, chicken, or fish; moderate servings. |  |
|  | A few (any kind), daily. |  |
| Salads | All kinds of fruit and vegetable. | Chicken, lobster, fish, cheese, egg, and meat. |
| Salad dressing | Any kind and in as large quantities as desired. | Highly seasoned salads or dressings. |
| Soups | Vegetable, vegetable bouillon, purées, and cream soups. | Meat soups and meat bouillon. |
| Vegetables | All kinds and in as large quantities as desired. Those generally used are carrots, turnips, rutabagas, parsnips, beets, spinach, dandelion greens, string beans, green peas, eggplant, celery, lettuce, cucumbers, radishes, tomatoes and cabbage. | ifo bus 20)ful That - de |
| Water | Drink three glasses before breakfast, between meals, and before retiring. |  |

c. Sample menus.-See paragraph 186.
30. Irritable colon (A. C. I. C.) diet.-a. General.-(1) This diet is for the purpose of correcting constipation observed in the irritable colon. It is also useful in cases of simple colitis. If there is marked irritability or the colitis is severe, omit-
(a) Meat, fish, and chicken.
(b) Cream cheese.
(c) Apple sauce.
(d) Plain cakes.
(e) Potatoes.
(f) Rice, spaghetti, noodles, etc.
(2) As soon as the acute stage has subsided, these items should be added to the diet. For the general case, the diet in $b$ below will be found satisfactory. Avoid raw vegetables and fruits at all times. Highly seasoned foods should never be taken. A moderate amount of salt may be used. It should be remembered that fruits and vegetables containing a large amount of roughage are also irritating and must be avoided. Foods that contain considerable cellulose will be well tolerated if properly cooked and puréed. By this process most of the irritating particles are eliminated. Avoid all fried foods, vinegar, and highly seasoned food. The appropriate diet pamphlet outlining this diet should be furnished the patient on discharge from the hospital.
b. Food selection.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Beverages | Orange juice, postum, coffee, tea, milk, buttermilk, chocolate, cocoa. | All others. |
| Bread | Toasted white bread, white bread, hot biscuits (crusts only). | Muffins, graham or whole wheat, rice, and all others containing bran. |
| Butter and olive oil. | Moderate amount. |  |
| Cereal. | Farina, food of wheat, cream of wheat, sieved oatmeal, or rolled oats. | Shredded wheat biscuits, bran flakes, or any other cereals containing a large amount of bran. |
| C | Fresh cream cottage cheese | All others. |
| Dessert | Simple puddings custards, ice cream, gelatin, plain cake, and stewed fruits that have been sieved. Sugar is permitted but not too much. Stewed berries may be used by thickening the juice with cornstarch. | Cheese, nuts, raisins, jams, jellies, candies, raw fruits, and sugar in concentrated form. |
|  | Soft-boiled, poached, coddled, or scrambled. Moderate quantities. | O |
| Fruit | Stewed fruits that have been sieved. | Cantaloupes, melons, and bananas. |
| Meat | Moderate servings of meat, fish, oysters, chicken, or squab permitted (cook simply). | Fibrous particles of all meats, all smoked fish, canned fish, and pork. |

b. Food selection-Continued.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Nuts | None | All. |
| Salad | None | All. |
| Soup. | Broths, bouillon, cream soups, and chowder. | Those containing large particles of coarse vegetables and fibrous particles of meats. |
| Vegetables_ | Potatoes, rice, sweet potatoes, hominy, spaghetti, macaroni, noodles, Italian pastes, tender asparagus tips, purée of peas, lentils, lima beans, and artichoke hearts. | Spinach and older string beans. |

## c. Sample menus.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. | Cream of pea soup. | Scraped beef balls. |
| Food of wheat. | Roast beef. | Boiled rice. |
| Coddled eggs. | Baked potato. | Sieved peas. |
| Bacon. | Asparagus tips. | White bread, butter. |
| Toasted white bread, butter. | White bread, butter. Gelatin dessert. | Ice cream. |
| Coffee. | Milk. | Milk. |
|  | Tea or coffee. | Tea or coffee. |
| Orange juice. | Cream of potato soup. | Cream of celery soup. |
| Farina. | Creamed chicken. | Roast lamb. |
| Soft scrambled eggs. | Rice. | Mashed potato. |
| Bacon. | Purée of peas. | Purée of lima beans. |
| Toasted white bread, butter. | Toasted white bread, butter. | White bread, butter. |
| Coffee. | Boiled custard. | Milk. |
|  | Milk. | Prune whip. |
|  | Tea or coffee. | Tea or coffee. |

31. High fat, low residue diet.-a. General.-Many patients suffering from chronic constipation due to an irritable colon are underweight. It is necessary to keep down to the minimum the amount of indigestible residue. There should be no marked change in protein intake. The carbohydrates are reduced somewhat below that in the diet for the irritable colon. Fats in the form of cream, butter, oils, and mayonnaise should be increased 250 to 300 grams daily. In other
respects these two diets are identical. This diet properly constructed will contain 2,800 to 3,500 calories. Since there is some reduction in the total carbohydrate intake and a marked increase of ingested fats, the antiketogenic-ketogenic ratio should be checked by the ward officer to assure himself the ratio is a safe one to use. In prescribing the diet the total caloric intake and the number of grams of carbohydrates desired should be stated.
b. Food selection.-Identical with that in paragraph $30 b$, except butter and olive oil which are used freely.
c. Sample menus.-The meals and servings should be arranged as follows:

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice, 1 glass. | Cream of pea soup, 1 serving. | Cream of celery soup. |
| Food of wheat. | Roast beef, 1 serving. | Scraped beef balls, two. |
| Coddled eggs, 2. | Baked potato, 1 serving. | Boiled rice, 1 serving. |
| Bacon, two slices. | Asparagus tips, 1 serving. | Sieved peas, 1 serving. |
| Toasted white bread, 1 slice. | White bread, 1 slice. | White bread, 1 slice. |
| Butter, use freely. | Gelatin, 1 serving. | Ice cream, 1 serving. |
| Cream (table), 30 cc. | Milk, 1 glass. | Butter, use freely. |
| Coffee, 1 cup. | Cream, 30 ce. | Milk, 1 glass. |
|  | Butter, use freely. | Cream, 30 cc. |
|  | Tea or coffee, 1 cup. | Tea or coffee, 1 cup. |

Section V
HIGH CALORIC
32. General.-High caloric diets are used for many purposes. The energy content of the food must be increased 30 percent to 100 percent, depending upon the disease, above that contained in the regular or full diet. This increase may be effected in several ways. The regular diet may be eaten in larger portions. Concentrated foods such as butter, cheese, candy, mayonnaise, jellies, jams, honey, syrup, etc., may be added to the regular diet or the number of meals eaten daily may be increased. The high caloric diet must be further modi-
fied to suit the requirements of the disease for which it is prescribed. A high caloric diet prescribed for typhoid fever is unlike in consistency one for underweight. Either of these diets would probably differ from a high caloric diet for an advanced stage of malnutrition. The protein content in this diet is increased about 10 percent to 15 percent in wasting diseases and active infections. The remainder of the high caloric content is made up of carbohydrates and fats. Carbohydrates will increase weight rather quickly as well as furnish immediate energy. In some diseases where intestinal fermentation is a factor, carbohydrates may have to be reduced and a large part of the increased caloric intake made up from fats. Here again, it is important that the antiketogenic-ketogenic ratio be checked, and the diet ordered by stating the total calories and the number of grams of carbohydrate desired in the diet.
33. Standard high caloric diet.- $a$. When the high caloric diet is prescribed without qualification the regular diet will be used plus the following in sufficient amount to increase the total caloric intake about 30 percent. This increase should be in carbohydrates and fats, principally, and each one increased approximately the same number of grams.
b. To obtain a high caloric diet add to the regular diet one or more of the following at each meal and between meals:

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Jams. | Extra cream. | Sweetened fruit juices. <br> Jellies. |
| Ice cream. Extra cream. <br> Honey. Lactose. <br> Syrup. Rich puddings. <br> Extrards. cream. Rich custards. <br> Sweetened fruit juices. $3: 00$ PM. Malted milk. <br> Ice cream.  <br> Glucose.  |  |  |
| 9:30 AM. Malted milk. |  | $9: 00 \quad$ PM. Milk and <br> cream, half and half. |

c. The above diet is known as the standard high caloric diet. If there is no desire to change the consistency but a higher caloric intake is desired, state the calories wanted, for example, high caloric diet, calories $3,500, \mathrm{CHO}, 250$ grams. Such an expression calls for the regular diet plus enough of the above concentrated foods to make the 3,500 calories. The carbohydrates are limited to 250 grams; therefore the fats must be increased sufficiently to make up the balance.
34. Liquid high caloric diet.-a. Use.-(1) This diet is used initially in some intestinal diseases such as typhoid fever and certain infections. The same may be said of this form of liquid diet as any other liquid diet, which is to remove patient from it as soon as it is safe. The logical stages a patient passes through when put on the high caloric liquid diet are-
(a) Liquid.
(b) Soft.
(c) Regular.
(2) In some acute infections and intestinal diseases of short duration it is safe to proceed from high caloric liquid to a regular diet.
b. Sample menus.-The following sample menus indicate construction and administration of the high caloric liquid diet. It will be noted that the usual liquid diet has been supplemented by other concentrated liquids.

| 2marast | Dinner | Supper |
| :---: | :---: | :---: |
| Strained orange juice. | 11:00 AM: | 5:00 PM: |
| Milk and cream (half and half). | Milk and cream (half and half). | Cream potato soup (strained). |
| Lactose, 15 grams. Kaffee hag or sanka. | Lactose, 15 grams. Cream pea soup | Milk and cream (half and half). |
| 9:00 AM. Malted milk. Lactose, 15 grams. | (strained). <br> Boiled egg custard. | Lactose, 15 grams. <br> Plain ice cream. |
|  | 1:00 PM. Eggnog. <br> 3:00 PM. Cocoa milk. <br> Lactose, 15 grams. | 7:00 PM. Malted milk 9:00 PM. Eggnog. |

c. Modification.-Such a high caloric diet as the above will not fit all cases. It must be modified to suit the particular need. Items not permitted in a certain disease must be mentioned as forbidden articles when prescribing the diet. From the list below may be obtained articles suitable for variety to fit any need when combined with the usual liquid diet:

All strained cream soups.
Plain ice cream and ices.
Gelatin.
Fruit juices.
Carbonated drinks.
Cocoa and malted milk.
Whipped cream.
35. Soft high caloric diet.-a. Constituents.-This diet contains the articles in the high caloric liquid diet plus the usual soft diet, except that all meats, cakes, and cookies should be omitted in those suffering. from enteric diseases.
b. Sample menus.

| Braakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Puréed fruit. |  |  |
| Cream of wheat. | Strained soup, crackers. | Strained soup. |
| Roast chicken. | Sealloped sweetbreads. |  |
| Eggs. | Mashed potato. | Pured buttered peas. |
| Crisp bacon. | Puréed carrots. | Mashed sweet potato. |
| Toast, butter. | Tost, butter. | Toast, butter. |
| Milk and cream. | Milk and cream. | Apple sauce with whipped <br> cream. <br> Ice cream. |
| 10:00 AM. Orange juice. | Milk and cream. |  |
|  | 3:00 PM. Tomato juice. | Custard. |
|  |  | $9: 00$ PM. Eggnog. |

36. Regular high caloric diet.-a. Constituents.-Without further qualifications, this diet can be the regular house diet plus jams, jellies, honey, syrup, lactose, sweetened fruit juices, custards, extra cream, etc., sufficient to make an additional 30 percent total caloric increase above that in the normal diet. There are no items to be avoided, except that it is wise not to include too many items with high indigestible residue for their inclusion causes the patient to feel full and will not eat enough to make it a high caloric diet.
b. Sample menus.-See paragraph 183.

## Section VI

## LOW CALORIC (REDUCING) AND HIGH VITAMIN

Low caloric (reducing) diet_....................................................................... 37
High vitamin diet ..... 38
37. Low caloric reducing diet.-a. General.-(1) The low caloric diet is synonymous with reducing diet. No one should be placed on such a diet unless a careful physical check has been made and it has been determined that it is safe to follow a reducing regime. There are several types of obesity. Some types respond to diet alone while others require diet and medicine. No one should be permitted to lose more than 3 pounds per week. Every patient on this diet should be rechecked once a week. Reducing diets are dangerous if the
patient is not under proper control. Many factors enter into the requirements of this diet. No one reducing diet can be written that will insure reduction of weight in all those overweight. Some are "easy keepers" and will gain weight on some reducing diets. Every case is a law unto itself and should be so treated. Practically all reducing diets will at first be under the patient's basal requirements in total caloric content, but just how far below no one can determine. It is much better to estimate too high and lower it later than to start out too low. It must be remembered that weight-reducing diets involve marked reductions in carbohydrates and fats. Therefore, minerals (especially calcium) and vitamins must be maintained.
(2) Too often, it is the custom of some who treat the obese to prepare three or four reducing diets ranging from about 800 to 1,400 calories and have them printed and ready for use. A general estimate of the patient's needs are made and the diet believed to be the suitable one is given for a trial. If this does not work the next lower one in calories is substituted until there is a loss of weight or until the lowest caloric diet has been tried. If the patient does not lose weight on any of them there is too often the desire to discharge the patient for failure to cooperate in the treatment. It is admitted that all patients do not cooperate but the largest number of failures to obtain the reduction desired are due to failure to construct a diet suited to the individual treated and ignorance of the patient in trying to estimate quantities of food permitted.
(3) Most overweight and obese persons have a real desire to reduce. When treated, they should be required to procure dietetic scales and taught to use them until proficient in estimating portions allowed. By this time much of the reduction, if not all, has been accomplished and it may then be safe to trust them with estimated servings.
(4) Most of those who do not cooperate, fail to do so because of hunger. This can be avoided in nearly all cases by providing the maximum bulk in the diet. This can be done by limiting vegetables and fruits to those with low carbohydrate content. Midmeal feedings of items of low caloric content also help in relieving hunger.
b. Construction.-(1) Low caloric diets are based upon the following general principles:
(a) Determine proper weight for patient based upon height, sex, and age.
(b) Determine activity of patient or other factors requiring energy and also appetite, whether a big eater, "easy keeper," etc.
(c) Determine basal requirement of the patient. Total calories
should be reduced 10 percent below basal requirements for a beginning.
(d) Give 1 gram protein per kilo of body weight. Subtract the caloric value of proteins from total calories allowed, and the remainder to be made up of carbohydrates and fats. This carbohydrate content is very important to combust properly the body fat it is anticipated the patient will lose. Fat is present to some extent in many items used in the reducing diets but ordinarily is not added as such, except about 10 grams of butter two to three times a day.
(e) Select lean meats, poultry, and fish for protein supply, and mostly 5 -percent and 10 -percent vegetables for the carbohydrate needs.
( $f$ ) If diet is deficient in calcium and vitamins give halibut oil, yeast, and calcium phosphate.
(g) Permit at least one egg and $1 / 2$ pint of milk or skimmed milk daily.
(2) After a thorough physical examination, and keeping the above principles in mind, it is easy to determine a suitable diet. In prescribing these diets it is necessary to state total number of calories and number of calories and number of grams of protein, carbohydrates, and fats desired. It is also necessary to determine if the diet will result in a deficiency in minerals and vitamins and administer them on the ward if needed.
c. Sample menus.-Sample reducing or low caloric menus mean nothing to anyone except those for whom the diets are written. However, below are sample menus merely to indicate the relationship between protein, carbohydrates, and fats.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
|  | Grams | Grams |
| Grapefruit $1 / 2$. | Lean meat_..-......- 75 | Lean meat............- 80 |
| Eggs, 2. | Vegetable, 3 -percent cooked. | Vegetable, 6-percent.-- 75 |
| Toast, 1 slice. | Vegetable, 6-percent cooked. 75 | Vegetable, 3-percent.- 120 |
| Coffee (no sugar or cream). | Lettuce.............- 60 | Cottage cheese . . . . . . 5 |
|  | Apple, fresh.-.-..- 100 | Grapefruit_-.-........ 10 |
| Butter, 5 grams. | Milk, skimmed..... 240 | Skimmed milk..... 240 |
|  | Tea or coffee, plain. <br> Butter $\qquad$ | Tea or coffee, plain. |

d. Nonhospitalized patient.-In prescribing reducing diets, it is important that the patient not in hospital have definite instructions about the food permitted, both as to kind and quantity. A form is provided for this purpose. On one side the articles permitted are listed and on the other the amounts permitted of carbohydrates, protein, and fats for each meal are listed. Pamphlet outlining the diet should be furnished the patient on discharge from the hospital (see par. 132).
38. High vitamin diet.-a. General.-(1) A high vitamin diet without qualification simply means a diet composed of foods known to be rich sources of all vitamins known to be of value in maintaining health. It is known now that vitamins A, B, C, D, E, and G are required. Diets that are rich in all these vitamins have produced good results in many cases.
(2) Deficiency in a single vitamin is an uncommon clinical finding; many of these cases also have subclinical.deficiencies in some or all the other vitamins. It is therefore expected that a "shotgun" diet prescription of this type would produce excellent results.
b. Foods.-See paragraph $7 b$ for foods rich in the above-mentioned vitamins.
c. Sample menus.-Below is a sample menu for the above type of diet:

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Fresh banana. | Orange juice. | Tomato juice. |
| Grapefruit juice. | Barley soup. | Mushroom soup. |
| Cream of wheat. | Chicken with gravy. | Roast beef, gravy. |
| Eggs, 2. | Mashed potatoes. | Baked potato stuffed with ground liver. |
| Graham toast, butter, | Scalloped tomatoes. | Buttered string beans. |
| Milk and cream (half and half). | Spinach. | Graham bread, butter, 2 patties. |
|  | Graham bread, butter, 2 patties. | Milk and cream (half and half). |
|  | Milk. | Floating island pudding. |
|  | Prune whip with whipped cream. |  |

## Section VII <br> DISEASE OF COLON

Paragraph
General_-..................................................................................... 39

Ulcerative colitis, high caloric, high vitamin, low residue diet_...................... 41

39. General.-The dietary management in diseases of the colon is difficult. Structural changes observed in diverticulosis, ulcerative colitis, and many other diseases affecting the large bowel demand an adjustment of the diet. Different stages of the same disease, and different diseases of the colon, do not require the same diet. The general principles in constructing the menus for all these diseases are similar. There are certain foods that must be avoided, others may be used when properly prepared, and still others that may be used cautiously in small quantities. There are four large groups of foods that deserve special consideration. Since they make up a large part of all diets, special attention is directed to these groups. All of them are "bland" foods. Others must be avoided. The appropriate diet pamphlet should be furnished the patient when discharged from the hospital.
40. Bland foods.-a. Cereal.-All cereals are used except those containing bran. The ones most commonly used are -

| Farina. | Oatmeal. | Rice flakes. |
| :--- | :--- | :--- |
| Food of wheat. | Corn flakes. | Puffed rice. |
| Cream of wheat. | Rice krispies. | Puffed wheat. |

b. Dessert.

Custards. Gelatin desserts (without Whips (use bland fruits),
Cornstarch pud- nuts). Plain rice pudding. dings. Ice cream.

Bread pudding.
Cakes and cookies, plain.
c. Fruit.
$\left.\begin{array}{l}\text { Peaches } \\ \text { Pears } \\ \text { Apples } \\ \text { Apricots }\end{array}\right\}$ Cooked.


## d. Vegetables.

| White potato. | Purée of- | Purée of-Con. |
| :--- | :---: | :---: |
| Rice. | Asparagus tips. | Pumpkin. |
| Macaroni. | String beans. | Carrots. |
| Spaghetti. | Peas. | Beets. |
|  | Squash. |  |

41. Ulcerative colitis, high caloric, high vitamin, low residue diet.-a. General.-There are many stages of ulcerative colitis. In the acute stage, with or without toxic symptoms, a very bland diet should be used and as the symptoms subside in any stage, gradually increase the diet to include other nonirritating foods.
b. Requirements.-The diet for ulcerative colitis must-
(1) Be high caloric.
(2) Be high in vitamins.
(3) Contain very little indigestible residue.
(4) Contain a high protein content (about 25 percent above the normal intake for the patient).
(5) Omit irritating foods and condiments (except salt).
(6) Not contain raw milk in the acute stages.
c. Food selection.-These diets are prepared as outlined below:

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Beverages | Coffee, tea, and water. Milk and cream may be added later as symptoms are subsiding. | All iced drinks. |
| Bread | All types except those containing bran. | All types containing bran. |
| Cereal | All cooked cereals, early, except those containing bran. As symptoms subside may use all dry cereals, except bran cereals. Macaroni, spaghetti and Italian pastes are permitted. | All bran cereals at all times. |
| Chee | Creamed cottage cheese | All others. |
| Desse | Ice cream (if eaten slowly), boiled custard, rice pudding, gelatin desserts made with cream, junkets, sponge cake, or any strictly bland dessert. Add lactose to desserts instead of extra sugar, and cream instead of milk in making desserts. | All desserts containing fruits or berries, early. As symptoms subside bland fruits permitted. |
| Eggs | Soft-boiled, coddled, or poached. Use freely. | Fried. |
| Fats | Cream, butter, salad oil, mayonnaise, and bacon, in liberal amounts. | .otatog atid7 |

c. Food selection-Continued.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Fruit | Orange juice liberally and very ripe bananas in acute cases. Later, bland fruits are permitted. The bland fruits are listed in paragraph $40 c$. | All coarse fruits with fiber, seeds or skins. Cooked fruits should be sieved. |
| Meat | All meats and meat broths except fried meats. Liver and sweetbreads liberally. | All highly seasoned and fried meats. |
| Soup | Cream soups made with vegetable purée and cream. Also meat broths. | All others. |
| Vegetables | Potato (except fried), purée of asparagus, peas, tender string beans, squash, tomatoes, turnips, eggplant, pumpkin, and beets. Use tomato juice liberally. | Any vegetable not puréed, cabbage, cauliflower, brussels sprouts, coarse string beans, and corn. Celery may be added if it is tender and chopped very fine. |

d. Sample menus.-Below are suggested menus for the acute or severe and the convalescent stages. The increase in foods permitted should be gradual and the rapidity of increase dependent upon improvement in patient's condition.
(1) Acute or severe cases.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Strained oatmeal, cream. | Cream tomato soup. | Cream pea soup. <br> Bacon. |
| Tenderloin steak. | Creamed sweetbreads |  |
| Coddled eggs. | Creamed potato. | Baked potato. |
| Zweiback, butter. | Bread, butter. | Puréed asparagus. |
| Coffee. | Boiled custard. | Bread, butter. |
|  | Cream. | Tapioca pudding. |
|  | Tea or coffee. | Tea or coffee. |
|  |  |  |

(2) Convalescent cases.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Orange juice. | Cream tomato soup. | Cream pea soup. |
| Strained oatmeal. | Tenderloin steak. | Creamed potato. |
| Bacon. | Creamed potatoes. | Puréed asparagus. |
| Coddled eggs. | Purée of carrots. | Bread, butter. |
| Toast, butter. | Lettuce (finely shredded), <br> mayonnaise. | Jelly. <br> Coffee. |
|  | Trea, coffee, or milk. |  |
|  | Briled custard. |  |
|  | Cream. |  |
| Tea, coffee, or milk. |  |  |
|  |  |  |

42. Diet for diverticulosis of colon.-a. General.-This diet is similar to the diet for convalescent ulcerative colitis cases except-
(1) Vitamin concentrates may not be required.
(2) Fruit juices are used liberally with and between meals.
(3) Agar-agar or mineral oil or both may be required to relieve constipation.
b. Use.-Diet is probably the most important part of the treatment. Even though all of the symptoms have disappeared, the diet should be continued, because a return to some foods will in all probability cause a return of the symptoms. The diet should not be changed except upon the advice of a physician.
c. Food selection.-The following guide to be used in selecting the food for menus should be carefully observed.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
|  |  |  |
| Beverage | Milk, coffee, tea, and water_ | Iced drinks. |
| Bread | All types except those containing bran. | All others. |
| Cereal | All cooked cereals, except those containing bran. As symptoms subside, may use all dry cereals except bran cereals. Macaroni, spaghetti, and Italian pastes are permitted. | All bran cereals at all times. |
| Cheese | Cream cottage cheese....-. | All others. |
| Dessert | Ice cream (if eaten slowly), boiled custard. |  |

c. Food selection-Continued.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Vegetables....-.- | Potato (except fried), purée of asparagus, peas, tender string beans, squash, tomatoes, turnips, eggplant, pumpkin, and beets. Use tomato juice freely. | Any vegetable not puréed, cabbage, cauliflower, brussels sprouts, coarse string beans, and corn. Celery may be added later if it is tender and chopped very fine. |
| Vitamins | In addition to the vitamins in the diet, additional vitamins may be prescribed. Cod liver oil, viosterol, brewer's yeast, and wheat germ preparations are generally used. | утq tí noitouber ( $(\Omega)$ (i) athor hadruM, (8) ino omolas agill 1 (1) dmalay and ons Larmon |

d. Sample menu.- In preparing the menu, the following general outline will insure a balanced diet that will meet the above requirements:

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice, 1 glass. <br> Sieved oatmeal, 1 large serving. <br> Bacon, 2 or 3 slices. <br> Coddled eggs, 2. <br> Toast, 2 slices. <br> Butter, as desired. <br> Coffee, 1 cup. | Cream of tomato soup, 1 serving. <br> Tenderloin steak, 1 serving. <br> Creamed potatoes, 1 serving. <br> Purée of carrots, 1 serving. <br> Lettuce, finely shredded (small serving). <br> Mayonnaise, as desired. <br> Bread, 2 slices. <br> Boiled custard, 1 serving. <br> Cream, 30 cc. <br> Butter, as desired. <br> Milk, 1 glass. | Cream of pea soup, 1 serving. <br> Creamed sweetbreads, 1 serving. <br> Baked potato, 1 serving. <br> Purée of asparagus, 1 serving. <br> Bread, 2 slices. <br> Jelly, as desired. <br> Butter, as desired. <br> Milk, 1 glass. |

## Section VIII

## LIVER AND GALL BLADDER DISEASES

General ..... 43
Low fat diets ..... 44
Low fat sample menus ..... 45
43. General.- $a$. Diseases of the liver and its drainage tracts call for modifications of the normal diet. These variations are numerous, depending on pathology found and the stage of the disease. They usually embrace-
(1) Change in consistency, namely, liquid, soft, and regular.
(2) Reduction in protein content.
(3) Marked reduction of fats, or a fat-free diet.
(4) A high caloric diet (usually increased caloric intake over the normal for the patient by 15 percent to 25 percent).
(5) A high carbohydrate intake.
$b$. It must be remembered that most liver and gall bladder pathology is either chronic when found, or becomes chronic. Dietary measures are necessary over long periods and frequently the remainder of the patient's life. Because fats and proteins must be reduced, the remainder of the caloric intake must be made up of carbohydrates. Many names have been given to such diets, namely, high carbohydrate, low fat, fat-free, diet for gall bladder disease, etc. For the purpose of simplicity it is believed that all these can be arranged under four groups known as low fat diets. If it were possible to obtain a fat-free diet, it is doubtful if it would be used. The term high carbohydrate diet is not within itself suggestive enough of the conditions for which it is used. Low fat diet is suggestive at least of the pathological condition, and it is unnecessary to add the carbohydrate to the name for these diets must contain it anyway. The patient should be furnished with the pamphlet outlining this diet on discharge.
44. Low fat diets. - $\dot{a}$. The low fat diets are-
(1) Liquid.
(2) Soft.
(3) Salt-free.
(4) Regular.
b. Such diets may be adapted to the various stages of all the pathological processes found in the liver and gall bladder. They are constructed from the foods listed below:
(1) Bread.-No restriction.
(2) Beverage.-Tea, coffee, skimmed milk.
(3) Cereal.-No restriction.
(4) Crackers.-White and graham.
(5) Dessert.-No restriction on plain desserts made without fats and eggs. Jams, jellies, and hard candies permitted freely.
(6) Eggs.-Restrict to one daily.
(7) Fruit.-No restriction.
(8) Italian paste.-No restriction.
(9) Meat.-Beef, chicken, or turkey (trim all visible fat).
(10) Soup.-Permit only skimmed meat, chicken, and vegetable broths.
(11) Vegetables.-No restriction.

Avoid all fried and salty foods, butter, cream, mayonnaise, and other concentrated fats.
c. Unless otherwise specified by the medical officer, menus will be constructed as follows:
(1) Total caloric increase, 20 percent.
(2) Protein reduction, 15 percent.
(3) Fatty foods and concentrated fats and oils eliminated.
d. The low fat, salt-free diet is in the true sense of the word a misnomer because all food normally contains some salt. By this term is meant food prepared without the addition of salt. Such a diet is used in advanced liver pathology accompanied by ascites. Because of the ascites, fluid intake is limited. Foods making up this diet must be carefully selected to avoid those that contain much water or salt. Carbohydrates remain increased, and fats and proteins reduced. These diets should be weighed, permitting about 30 percent to 50 percent above the basal diet, depending on the activity of the patient. Weighing the food insures proper restriction of salt and water digested. Retain the fat-soluble vitamins.
45. Low fat sample menus.-a. Liquid diet.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Grapefruit juice. | Skimmed chicken broth. | Grape juice. |
| Farina. | Canned pineapple juice. | Cream of wheat. |
| Skimmed milk. | Skimmed milk. | Skimmed milk. |
| Sugar. | Tea or coffee. | Sugar. clomat th |
| Coffee. |  | Tea or coffee. |
| 10:00 AM. Orange juice. Gelatin dessert. | PM. Or | 9:00 PM. Canned pear juice. Hard candy. |

b. Soft diet.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Purée of fresh figs. | Skimmed beef broth. | Riced potatoes. |
| Food of wheat. | Poached egg, 1. | Asparagus tips. |
| Skimmed milk. | Mashed potato. | Toast, jam. |
| Toast, jam. | Purée of peas. | Purée stewed prunes. |
| Coffee. | Bread, jelly. | Tea or coffee. |
|  | Plain custard. |  |
| 10:00 AM. Orangeade. Hard candy. | Tea or coffee. | 9:00 PM. Skimmed milk or grapefruit juice. |
|  | 3:00 PM. Lemonade. Hard candy. |  |

c. Salt-free diet.-Prepare all foods without addition of salt.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Fresh figs. | Fresh lamb chops. | Scrambled egg, 1. |
| Banana. | Baked potato. | Mashed potato. |
| Coddled egg, 1. | Fresh asparagus. | String beans. |
| Toast, jam. | Pineapple. | Fresh plums. |
| Sugar. | Bread. | Bread, jelly. |
| Milk, 120 ce. | Hard candy. | Candy. |

d. Regular diet.

| ${ }^{\text {Breakfast }}$ | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. | Skimmed chicken broth, | Steamed rice. |
| Muskmelon. | crackers. | Peas. |
| Coddled egg, 1. | Broiled chicken. | Toast. |
| Toast, jam. | Baked potato. | Skimmed milk. |
| Skimmed milk. | String beans. | Canned peaches. |
| Coffee. | Pineapple-lettuce salad. | Plain cake. |
|  | Bread, jelly. | Tea or coffee. |
| 10:00 AM. Lemonade. Hard candy. | Plain pudding. |  |
|  | Tea or coffee. | 9:00 PM. Skimmed milk or pineapple juice. |
|  | 3:00 PM. Orangeade. Hard candy. |  |

## Section IX

## PELLAGRA PREVENTIVE (P. P.)

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Foods tested quantitatively ..... 47
Diet construction ..... 48
Sample menus ..... 49
46. General.- $a$. The symptoms usually ascribed to pellagra result from a deficiency of a specific vitamin, nicotinic acid, sometimes called P. P. factor, and probably other members of the vitamin B complex. For this reason, in the treatment of pellagrous symptoms, it is not always sufficient to provide nicotinic acid alone. It is considered desirable to supply in addition the other members of the vitamin B complex. Valuable information was obtained and released by the British Research Commission in 1932 and the United States Public Health Commission in 1934. These reports form a basis for the pellagra preventive factors in the tables below, and for the establishment of menus known to be adequate in the prevention and treatment of pellagra.
$b$. The diet should be high caloric, namely, 40 to 45 calories per kilo of body weight. The ratio between protein, fats, and carbohydrates should be approximately that of the normal diet of a healthy person. Enough of these foods have been tested for the pellegra preventive factor to insure adequate P. P. factor and still have a variety in the menu. Of the foods tested only those classed as "good" or "rich" for pellegra prevention are given. If they are arranged in the menu properly, adequate P. P. factor will be consumed.
47. Foods tested quantitatively.-a. Class "good."-This classification means that in the quantities indicated, if eaten in 24 hours, the food contains enough pellagra preventive factor to prevent the disease.

| Food | Amount, grams | Food | Amount, grams |
| :---: | :---: | :---: | :---: |
| Beef, fresh | 200 | Peas, green (can) | 450 |
| Beef, corned (can) | 200 | Tomato juice (can) | 1,200 |
| Chicken (can) | 325 | Turnips, green (can) | 482 |
| Liver, pork (dried) | 64 | Liver, Minot's extract (equiv- |  |
| Pork, shoulder, lea | 200 | alent 10 gms liver) | 343 |
| Rabbit | 184 | Peanut meal. | 200 |
| Salmon (can) | 168 | Wheat germ, ether extract. | 150 |
| Buttermilk | 1,200 | Bakers' dried yeast. | 30 |
| Collard (can) | 482 | Brewers' dried yeast. | 30 |
| Kale (can) | 534 | Yeast vitamin powder | 15 |

Note.-The above classification is taken from U. S. Public Health Report, June 29, 1934.
b. Unclassified.-The following table is a list of foods either good or rich in vitamin G but quantitative test of amount to be ingested to prevent pellagra has not been done.

| Food | Source | Food | Source |
| :---: | :---: | :---: | :---: |
| Wheat, bran | Good. | Spinach, raw | Good. |
| Wheat, embryo. | Do. | Mutton | Do. |
| Peas, dried | Do. | Ox kidney | Rich. |
| Cabbage, green, fresh. | Do. | Ox liver | Do. |
| Cabbage, green, dried. | Do. | Pork | Good. |
| Spinach, cooked | Do. | Hens' eggs | Do. |
| Spinach, dried. | Do. | Cow's milk, whole, fresh. | Do. |

48. Diet construction.-In the construction of a diet to be used in the treatment of pellagra, select enough foods from the table showing the pellagra-preventive factor to insure a diet providing twice the amount of P. P. factor necessary to prevent pellagra if eaten in 24 hours. For instance, if it requires 1,200 grams of tomato juice in 24 hours and only 200 grams are given, then there is provided only onetwelfth as much as should be provided per day. In addition, to round out the diet, other foods selected should be from the list showing good and rich sources as far as possible.
49. Sample menus.-a. Suggested menus.-Suggested menus which give amounts of servings, evaluated pellegra-preventive factors*, and calories are given below:

| -ipanla eirlt- <br> 3ift.ertod AS ai | Food | $\underset{\text { (grams) }}{\text { Amount }}$ | P. P. factor | Calories |
| :---: | :---: | :---: | :---: | :---: |
| azapribadit tas | Wug of rotanl avitaureng argi | 41 |  | ros boot |
| Breakfast. | Tomato juice | 200* | $\frac{\mathrm{G}}{1,200}$ | 40 |
|  | Eggs, two | 74 |  | 148 |
| 081 | Whole wheat toast | 30 |  | 72 |
| 009 | Butter | 20 | 5) | 154 |
|  | Milk, sweet | 200 |  | 138 |
| Dinner | Creamed spinach soup. | 200 |  | 218 |
| 886 | Rabbit | * | G |  |
| 004 |  |  | 184 |  |
| 0et lan | Peas. | 100 | G | 10m 68 |
| \% |  | 100 | 450 | (madr 68 |
|  | Rutabagas | 100 |  | buall 36 |
| 6. | Soy bean bread. | 30 |  | -73 |

a. Suggested menus-Continued.

a. Suggested menus-Continued.

|  | Food | $\begin{aligned} & \text { Amount } \\ & \text { (grams) } \end{aligned}$ | P. P.factor | Calories |
| :---: | :---: | :---: | :---: | :---: |
| Supper (Con.) .... | Whole wheat bread. | 30 | G | 76 |
|  | Fresh tomato | 100 |  | 20 |
|  |  |  | 1,200 |  |
| ci | Buttermilk | 200 | $\frac{\mathrm{G}}{1,200}$ | 72 |
| II | Peaches, fresh | 150 |  | 60 |
|  | Extras: |  |  |  |
|  | Sugar | 26 |  | 104 |
| Midmeal nourishments. | Buttermilk or tomato juice | 400 |  | 144 |
|  |  |  | 1,200 | 144 |

b. Each daily menu furnishes about 2,800 calories and a P. P. content equal to twice the quantity required daily to prevent pellagrous symptoms. If a lower caloric intake is indicated, articles may be dropped from the menus but the total P. P. factor must not be decreased. Brewers' yeast, liver extract, and other vitamin concentrates will be ordered on the ward as indicated.

## Section X <br> KETOGENIC (K. P.)





50. Ketone formation method.-a. Glucose content.-In epilepsy and some urinary tract infections, ketones exert a beneficial effect. Ketone bodies are produced from incomplete combustion of ingested fats. Fats ingested will combust completely only in the presence of adequate carbohydrate. It must be remembered that 10 percent of fat and 58 percent of protein become carbohydrate in the process of combustion; therefore in computing the total glucose content in grams of a diet it should be done as follows:

Total glucose
intake, grams

| Protein: | $70 \mathrm{gm} \times 4=$ | 280 | 58 percent of $70=40.60$ |
| :--- | ---: | ---: | ---: |
| Carbohydrates: | $120 \mathrm{gm} \times 4=$ | 480 | 100 percent of $120=120.00$ |
| Fats: | $180 \mathrm{gm} \times 9=1,620$ | 10 percent of $180=\underline{18.00}$ |  |
|  | $\underline{2,380}$ |  |  |

b. Fatty acid content.-To obtain the fatty acid content of the same diet it is necessary to deduct the 10 percent sugar content of the fat and allow for 46 percent of the protein being converted into fatty acids. The carbohydrates yield no fatty acids. The same diet should be figured as follows for the fatty acid bodies:

|  | Calories | Total fatty acids, grams |
| :---: | :---: | :---: |
| Protein: | $70 \mathrm{gm} \times 4=280$ | 46 percent of $70=32.90$ |
| Carbohydrates: | $120 \mathrm{gm} \times 4=480$ | 1 percent of 70=0 |
| Fats: | $180 \mathrm{gm} \times 9=1,620$ | 90 percent of $180=162.00$ |

2, 380
194. 90
c. Ratio.-The fatty acid-glucose ratio of this diet is $\frac{\mathrm{FA}}{\mathrm{G}}=\frac{195}{179}$.

Knowing that 1 gram of carbohydrate promotes complete combustion of 1.5 to 2 grams of fat, it is easily seen the above diet does not meet the requirements of a ketone producing diet.
51. Diet requirements.-a. The essentials of a ketogenic diet are-
(1) Total caloric intake to remain normal, or slightly increased for sex, proper weight, height, age, activity, etc.
(2) Begin diet by setting $\frac{\mathrm{FA}}{\mathrm{G}}$ ratio at $\frac{2}{1}$. Gradually (every second day), increase this ratio by increasing fat 5 percent and decreasing the carbohydrates sufficiently to maintain a constant caloric intake. Nausea develops when carbohydrates reach 40 to 50 grams. If it does not, hold at this point a few days; do not increase further. At whatever point it develops, give orange juice or a little sugar to relieve it temporarily and maintain the diet at this level, and the body will usually adjust itself to it. If nausea persists return to a regular diet for a few days and repeat the process.
(3) These diets must be weighed and each one is calculated to fit the patient being treated.
(4) Protein intake must be kept adequate. No one can state how much the $\frac{\mathrm{FA}}{\mathrm{G}}$ ratio will have to be increased before ketosis develops. The ratio is variable in different people and at different ages. Symptoms of ketosis will usually develop between $\frac{F A}{G} \frac{2}{1}$ to $\frac{4}{1}$.
(5) The urine must be examined daily for ketones.
$b$. When this diet is prescribed great care must be exercised to insure proper ratio between carbohydrates, proteins, and fats. The diet must be accurately weighed and each meal contain one-third of the
total daily intake. It is the practice by some to maintain a set of ketogenic diets variable in content, and when patients are admitted attempt to fit the patient to the diet that approximates the requirements. For practical purposes this is satisfactory. However, it is believed that the prescription should be written to fit the patient after basal and maintenance requirements have been properly checked, based upon age, sex, proper weight, height, activity, pathological processes present, etc., and have been given proper consideration. When requesting this diet it is necessary for the dietitian to have definite information and it should be expressed as follows: Ketogenic diet. Protein, 70 grams. Calories, 2,400 . $\frac{\mathrm{FA}}{\mathrm{G}}-\frac{2}{1}$. Such a form should be repeated each time the $\frac{\mathrm{FA}}{\mathrm{G}}$ ratio is to be increased.
52. Caution in formulating.- Special attention is given to certain foods in the formation of ketogenic diets.
a. Use freely -

Butter. Oils. Fats. Cream, 40 -percent. Vegetables, low carbohydrate content. Fruits, low carbohydrate content.
b. Avoid-

Sugar. Starches.
Vegetables, higher carbohydrate content. Fruits, higher carbohydrate content.
53. Construction of menus.- $a$. The menu is constructed so that each meal will provide one-third of the total daily allowance, for example, protein, 23 grams; carbohydrates, 23 grams; fats, 68 grams; total, 800 calories.
b. Sample menus.-Sample menus are given below.

|  | L001 | clum Food | $\begin{gathered} \text { Amount, } \\ \text { grams }, \end{gathered}$ | Protein | $\begin{aligned} & \text { Carbo- } \\ & \text { hydrates } \end{aligned}$ | Fats | Calories |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Breakfast.... |  | Strawberries | 94 | 0.8 | 4. 7 |  | 22. |
|  |  | Eggs, 2 | 100 | 12. 0 |  | 10.0 | 138. |
|  |  | Crisp bacon | 20 | 3.3 |  | 10.0 | 103. 2 |
|  |  | Bread_ | 20 | 1. 8 | 10.2 | . 4 | 51.6 |
|  |  | Butter | 16 |  |  | 13. 6 | 122. 4 |
|  |  | Pastry cream | 75 | 1. 6 | 2. 3 | 30.0 | 285. 6 |
|  |  | Milk, whole | 115 | 3.8 | 5. 8 | 4. 6 | 85. 8 |
|  |  | Coffee |  |  |  |  |  |
|  |  | Total |  | 23. 3 | 23.0 | 68.6 | 808. 6 |
| Dinner | --.-- | Broiled salmon | 87 | 19.1 |  | 11.3 | 178. 1 |
|  |  | With butter | 20 |  |  | 17. | 153. 0 |
|  |  | Summer squash | 75 | . 5 | 3. 7 |  | 16. 8 |
|  |  | Eggplant | 75 | . 7 | 3. 7 |  | 17.6 |
|  |  | Celery hearts | 75 | . 7 | 3. 7 |  | 17. 6 |
|  |  | Ripe olives | 25 | . 3 | 1. 2 | 5. | 51. 0 |
|  |  | Bread. | 10 | . 9 | 5. 1 | . 2 | 25. 8 |
|  |  | Butter | 17 |  |  | 14. 5 | 130. 5 |
|  |  | Grapefruit. | 41 | . 2 | 4. 1 |  | 17. 2 |
|  |  | Pastry cream | 50 | 1.1 | 1. 5 | 20. | 190. 4 |
|  |  | Coffee |  |  |  |  |  |
|  |  | Total |  | 23.5 | 23.0 | 68.0 | 798. 0 |
| Supper |  | Steak | 76 | 15. 2 |  | 15. 2 | 197. 6 |
|  | , 9 | String beans | 75 | 1. 1 | 3. 7 |  | 19. 2 |
|  |  | Table cream | 33 | 1. 0 | 1. 3 | 6. 6 | 68.6 |
|  |  | Stewed tomatoes | 100 | 1. | 5. 0 |  | 24.0 |
|  |  | Celery hearts | 75 | 1. | 3. 7 |  | 18.8 |
|  |  | French dressing | 15 |  |  | 10.0 | 90.0 |
|  |  | Bread. | 17 | 1.5 | 8. 7 | . 3 | 43. 5 |
|  |  | Butter (all purposes) | 33 |  |  | 28.1 | 252. 9 |
|  |  | D. Zerto | 1 serv. | . 2 |  |  | 8. 0 |
|  |  | Whipped cream | 20 | . 4 | . 6 | 8. 0 | 76. 0 |
|  | 4,811 | Coffee |  |  |  |  |  |
|  |  | Total |  | 23.2 | 23.0 | 68. 2 | 798. 6 |

b. Sample menus-Continued.


## Section XI

## CALCIUM

## Paragraph



54. High calcium diet.-a. Use and construction.-The high calcium diet is frequently used in the treatment of rickets, malnutrition, some parathyroid diseases, and other wasting diseases where an increase of calcium intake is desired. Because of the nature of the diseases for which this diet is so often used, special attention is also given to vitamin D. It is therefore often desirable to combine the high calcium diet with a high vitamin D diet. In some parathyroid disorders requiring a high calcium diet, it is necessary to administer parathyroid extract. There are many ways of constructing this diet. Usually liquid and soft diets are not required. Unless the patient's general condition is a contraindication the regular or full diet is easily modified by substitution or addition of articles that have a high calcium content. However, if liquid or soft diets are required the routine liquid and soft diets may be taken as a base and altered sufficiently to insure a high calcium intake.
b. Food selection. - (1) The following foods are high in calcium content. Only enough of the common ones are listed to give variety to the diet.

| Amount (grams) | Food | Calcium (grams) | $\underset{\text { (grams) }}{\text { Amount }}$ | Food | Calcium (grams) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 100 | Beans, kidne | 0. 160 | 100 | Milk, condensed | 0. 300 |
| 100 | Buttermilk | . 105 | 100 | Milk, evaporated | 349 |
| 100 | Cauliflower | . 123 | 100 | Molasses | 211 |
| 100 | Chard | . 150 | 100 | Okra | . 071 |
| 100 | Cheese | 931 | 100 | Olives, green | 122 |
| 100 | Cottage cheese | . 208 | 100 | Oysters | 054 |
| 100 | Cocoa | . 112 | 100 | Parsnips | . 076 |
| 100 | Egge, two | . 067 | 100 | Rutabaga | 074 |
| 100 | Milk, skim | . 122 | 100 | Spinach_ | 067 |
| 100 | Milk, whole. | . 120 |  |  |  |

(2) If variety is not afforded in the above table others may be found in tables of composition of common foods in various books on dietetics. Milk and cheese should be used in this diet freely.
c. Sample menus.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Sliced orange. | Celery soup. | Beef bouillon. |
| Farina. | Roast beef. | Sliced cheese. |
| Soft-boiled eggs, two. | Mashed potatoes. | Spinach. |
| Bacon. | Chard. | Potato salad. |
| Toast, butter. | Pineapple-cottage cheese | Green olives. |
| Milk. | salad. | Bread, butter. |
|  | Bread, butter. | Milk. |
|  | Tapioca pudding. | Coffee. |
|  | Milk. |  |
|  | Coffee. |  |
|  |  |  |

d. Vitamin $D$.-When vitamin D is desired in larger quantities the following foods rich in this vitamin may be added to the diet or if already given increase the amount taken:
Butter (summer). Egg yolk. Irradiated foods. Beef liver. Halibut oil. Salmon. Cod liver oil.
55. Low calcium diet.- $a$. Use and construction.-This diet is useful in all cases where intake of calcium is to be limited. It is especially useful in lead poisoning when combined with the diet food containing a high acid base residue. To secure this diet, it is obviously necessary to avoid the foods under the high calcium diet that are rich in calcium. Because drinking water may contain relatively large amounts of calcium, it is advisable to have patients on this diet use distilled water.
b. Food selection.-The following guide may be used in preparing menus with a low calcium content. The total caloric intake and ratio between protein, carbohydrates, and fats should be that of the normal or regular diet.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Cereal and bread. <br> Fruit_-..- | All forms except wheat bran. <br> Apples, apricots, avocados, <br> bananas, blackberries, cher- <br> ries, cranberries, grapefruit, <br> grapes, peaches, pear, pine-- <br> apple. | Dried dates, dried figs, lem- <br> ons, oranges, dried prunes, <br> raisins, raspberries, straw- <br> berries. |

b. Food selection-Continued.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Meat | Poultry and dairy products | Dried beef, oysters, mincemeat, eggs, shrimp, buttermilk, all cheese, all ice cream, cream, milk. |
| Nuts | No | All. |
| Vegetables | Artichoke, asparagus, beets, cantaloupe, canned corn, cucumbers, eggplant, lettuce, onions, green peas, green peppers, white potatoes, sweetpotatoes, pumpkin, radishes, squash, (hub- | Dry beans, green beans, baked beans, cabbage, carrots, cauliflower, celery, chard, kale, parsnips, dry peas, rhubarb, rutabagas, sauerkraut, spinach, turnips. |

## c. Sample menus.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Pineapple juice. | Beef bouillon. | Roast beef. |
| Grapefruit. | Veal cutlets. | Steamed rice. |
| Crisp bacon. | Mashed potatoes. | Green peas. |
| Toast, butter. | Asparagus tips. | Artichoke-lettuce salad. |
| Coffee. | Tomato-lettuce salad. | Bread, butter. |
|  | Bread, butter. | Cherries. |
| Sliced pears. | Coffee. |  |
|  | Coffee. |  |

## Section XII CARDIOVASCULAR-RENAL (C. V. R.)

General ..... 56
Disease and type of diet ..... 57
Food selection ..... 58
56. General.- $a$. This group of diseases requires a number of diets due to the nature of the pathological processes and the changes that have already occurred. There is no easy approach to the successful dietary management of this group of cases. Each patient must be properly considered after a careful examination, and the type of diet best suited to his condition prescribed. In ordering this diet the following factors must be given careful consideration:
(1) Total caloric intake.
(2) Total protein intake.
(3) Total liquids permitted.
(4) Absence of salt or other condiments.
b. In general these diets will average slightly above a basal diet, namely, 1,500 to 2,000 calories. Usually the protein will be 40 to 60 grams, and in most of these fluids are restricted and salt prohibited. There are various stages of cardiovascular-renal diseases, and many seem to do very well without a diet. However, the average case in hospital requires a diet and the others should have one.
57. Disease and type of diet.- $a$. For dietary management, these cases are divided into the following classification, important dietary principles also being included:

| Disease | Diet |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Calories | $\begin{aligned} & \text { Protein } \\ & \text { (gm) } \end{aligned}$ | Salt | Fluids |
| Cardiac with decompensation. | 800-1, 500 | 20-40 | None.- | 1,000 cc. |
| Cardiovascular with or without hypertension. | 1,500-2, 000 | 40-60 | Limit_- | As indicated. |
| Nephritis with urea retention, no edema. | 1,500-2, 000 | 40-60 | None..- | Freely. |
| Nephritis, without urea retention, with edema. | 1,800-2,500 | 50-60 | _do. | $1,000 \mathrm{cc}$. |
| Nephritis with urea retention and edema. | 1,500-2, 000 | 40-60 | ---do-- | About 1,500 cc. |

b. (1) It is obvious the above figures on total calories and grams of protein permitted are only estimates and that each case must be considered by itself. As the general condition improves it will be necessary to change the diets. In acute or critical stages of the disease further restrictions may be required. It must be remembered that articles of diet contain salt. It is not practical to remove it. The addition of salt or other seasoning can be avoided. Foods that contain a rather liberal amount of salt can also be avoided. These are -

| Bread (unless salt- <br> free). | Beets. <br> Bran. | Lima beans. <br> Caviar. |
| :--- | :--- | :--- |
| Cantaloupe. | Milk. |  |
| Cheese. | Carrots. | Olives. |
| Clams. | Celery. | Pumpkin. |
| Crackers. | Chard. | Raisins. |
| Oysters. | Cress. | Strawberries. |
| Spinach. | Dandelion. | Turnips. |
| Beef. | Eggs. |  |
|  |  |  |

(2) It may be necessary to use milk and eggs but their use should be limited. Butter should be salt-free.
c. When requesting these diets it is important that definite data are furnished. For instance, C. V. R. diet, calories, 1,800; protein, 40 gm , salt-free; fluids, $1,000 \mathrm{cc}$, will furnish the dietitian all the information needed. A water balance chart should be kept on the ward in all cases requiring limited fluid intake. A sample menu cannot serve all the above conditions. Since most of them show a fairly low caloric intake, a low protein and water intake, such a menu is listed below which must be further modified to meet the demands of the case. All food is prepared without the addition of salt, and patient is not permitted salt on the tray. For additional sample menus, see paragraph 189.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Sliced orange. | Lamb chops. | Roast chicken. |
| Puffed rice. | Baked potato. | Rice. |
| Coddled egg, 1. | String beans. | Green peas. |
| Toast, butter. | Sliced tomatoes. | Bread, 1 slice, butter. |
| Jam. | Bread, 1 slice, butter. | Baked apple. |
|  | Vanilla wafers. | Sugar. |
|  |  | Cream, 20 percent, 30 cc. |
|  |  |  |

58. Food selection:-The following general principles in food selection for cardiovascular-renal cases are advised:

| Food | Permitted |
| :---: | :---: |
| Beverage | Kaffee hag, Sanka, milk, postum, and water to the limit of fluid intake permitted. |
| Bread and cereal_ Butter_-_-.-.-- | All breads and cereals may be used. However, in their preparation salt must not be added when used for salt-free diets. Salt-free (sweet). |
| Cheese | Fresh cottage cheese prepared without salt may be used. Any cheese may be used if salt is not limited. |
| Dessert | Plain desserts, cooked or fresh fruits such as fruit gelatin, rice pudding, vanilla wafers, plain sugar cookies, fresh pears, canned peaches. |

Cocoa, tea, coffee, and alcohol.

Any prepared cereals that contain salt.

Ordinary butter if a saltfree diet is used.
All except fresh cottage cheese that is prepared without salt if a saltfree diet is used.
All rich puddings, cakes, and pies.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Fruit | Fresh, canned, and cooked fruits may be used freely. | Those mentioned in paragraph $57 b(1)$ containing considerable salt. |
| Meat | Fresh meats for salt-free diets. Bacon, ham, and semicured meats may be used only to limit of protein permitted when diet is not to be saltfree. |  |
| Milk | Milk in quantities justified by the permissible fluid intake. At least 300 cc should be taken daily in all cases. |  |
| Soup | Vegetable if permissible by limited fluid intake. To be prepared without salt if on a saltfree diet. | All meat soups. |
| Vegetables | Fresh or canned to be used freely. | Whenever possible vegetables in list (par. $57 b$ (1)) showing considerable salt content. |

## Section XIII DIABETES MELLITUS

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59. General.-Dietary problems of patients suffering from diabetes mellitus are unlimited. Many are difficult to solve. There are many ways of handling diabetic diets. A set of tables giving the amount of protein, carbohydrates, fats, and total caloric intake for several test, basal, and maintenance diets is fairly accurate and convenient for hospital use. However, it is impossible for any set of tables to furnish diets that will accurately fit all patients that may be admitted. For this reason and in the interest of training, it is considered best to write each prescription for food to fit the patient rather than attempt to fit the patient to a set of standard diets. The
mere treatment of the patient is only a part of his problem. He must have confidence in himself and his procedure. It is therefore necessary that a training school be maintained for this purpose.
60. Clinical types of diabetes.- $a$. There are many clinical types of diabetes mellitus encountered and some of them require special consideration when prescribing their diets. For this purpose the following classification is made:
(1) Potential diabetes mellitus.
(2) Prediabetes mellitus.
(3) Diabetes mellitus, mild; moderate; severe.
(4) Arterioselerotic diabetes mellitus, mild; moderate; severe.
(5) Juvenile diabetes mellitus, mild; moderate; severe.
(6) Symptomatic diabetes mellitus.
b. Theoretically, some of these are not true diabetes mellitus. However, dietary management is required.
61. Types of diets.- $a$. The diets used in the various clinical types of the disease and in different stages of the same disease are necessarily variable. The objective should be, regardless of the type of the disease, to get the patient in the best possible condition physically, and undergo the greatest amount of instruction permissible as quickly as possible. All diabetics should be well trained, even the potential diabetic. From the standpoint of diet, this can be accomplished quicker by using the following diets in the order named when treating these cases:
(1) Test.
(2) Basal.
(3) Maintenance.
b. All of these diets vary, depending on the age, sex, height, occupation, general condition of the patient, etc. The test diet averages, as a rule, about 25 percent below the basal diet, and while on it the patient should remain in bed. The basal diet is that amount of food required to keep the patient at his normal weight in a basal state, and while on it should remain in bed. To find this refer to tables on basal metabolic requirements. The maintenance diet is one that will maintain the patient at his normal weight and furnish the necessary energy for his customary activity. The total caloric intake must necessarily vary widely.
62. Test diet.-a. Purpose.-This diet is used to-
(1) Aid in immediately ridding the patient of excess sugar in urine and blood.
(2) Assist in approximating the tolerance for carbohydrates.
b. Duration. - The test diet should not be used more than 5 or 6 days if it can be avoided.
63. Basal diet.-The basal diet is seldom used. It may be necessary when some associated diseases and metabolic disorders are present.
64. Maintenance diet.-The next step after passing through the test and basal diets is the maintenance diet. By this time the urine should be free of sugar, blood sugar under control and a balanced state reached by insulin if needed, sella turcica X-rayed, and BMR obtained. Adequate time should be taken to learn pertinent information about the type of life the patients are living. Care must be taken not to make invalids of them. Occupation is important. Those leading an active, outdoor life or performing hard manual labor require more calories than those who are too old or crippled to move about actively. Only by a careful interview can a fair estimate be made of what the total caloric requirements should be. If this is done wisely it will save much trouble with later modifications of the diet. It is discouraging to patients to change their diets and insulin dosage frequently.
65. Protein, carbohydrate, and fat ratio.-In all diabetic diets the protein content of the food should be sufficient to maintain muscular mass in its proper state. In the adult this should be 1 gram per kilo of body weight. In the absence of associated diseases, it should be maintained at this level in the test, basal, and maintenance diets. When treating children the protein should be used at the rate of 2 to 3 grams per kilo of body weight, depending on general condition and weight of child. The ratio between carbohydrate and fat is somewhat variable. It is known that fat is completely combusted only in the presence of adequate carbohydrate. If carbohydrates are restricted too much the fat combustion is incomplete and ketone bodies result. It is believed that the ratio between carbohydrate and fat should not fall below $1 / 1$ and it is frequently necessary to use $11 / 4$ or $11 / 2$ grams of carbohydrates to 1 gram of fat.
66. Prescription.-a. Formerly, carbohydrate was almost eliminated in the diabetic diet. Simultaneously with the use of insulin there developed a boldness in the more liberal use of carbohydrate so that it was not unusual to find diabetics consuming almost as much carbohydrate as is contained in a normal diet. In general, the pendulum has swung back to what may be termed the "happy medium."
$b$. The maintenance diet for an adult diabetic will ordinarily contain from 100 to 300 grams of carbohydrate and not more than 160 grams of fat. A dogmatic statement regarding these factors cannot be
made. However, when diets do not conform to these limitations there should be patent reasons for it. Consider the following factors in the order mentioned when writing a prescription for a diabetic diet.
(1) Total caloric requirement.-Consider the type of diet required, whether a test, basal, or maintenance. If a maintenance diet, allow for activity of the patient, type of work performed, etc. It is not wise to discharge even fairly active adult patients on less than 2,400 calories.
(2) Protein allowance.-For persons who have reached maturity allow 1 gram per kilo of body weight. If nephritis is present it may be necessary to reduce the protein intake. Growing children require 2 to 3 grams of protein per kilo of body weight.
(3) Carbohydrate allowance.- (a) The amount of carbohydrate permitted is variable but in the adult is seldom less than 100 grams nor more than 300 grams. An estimate of the patient's general condition must be made. If there are already present ketone bodies or if the patient is obese and a reduction in weight is contemplated, adequate carbohydrate must be !given to assure complete 'combustion of fat and elimination of the ketone bodies. If the patient is of normal weight or slightly underweight it will probably be unnecessary to increase the carbohydrate to a high ratio over the fat allowance. Usually the carbohydrate-fat ratios required are $\frac{\text { carbohydrate }}{\text { fat }}=\frac{1}{1}$ or $\frac{1.25}{1}$ or $\frac{1.5}{1}$. It is not wise to reduce the carbohydrate ratio below 1, but cases may arise when it should be greater than 1.5 .
b. Sometimes it is necessary to know the total glucose intake of the patient. This is different from the carbohydrate content of the diet. To arrive at this it must be remembered that 58 percent of the protein and 10 percent of the fat are converted into glucose in the process of metabolism. Carbohydrate is 100 percent glucose. Assume the prescription is-

|  | Cal |
| :---: | :---: |
| Protein: $\quad 75 \mathrm{gm} \times 4=$ | 300 |
| Carbohydrate: $\quad 162 \mathrm{gm} \times 4=$ | 648 |
| Fat: $\quad 161 \mathrm{gm} \times 9=$ | 1,449 |
| Total | 2, 397 |
|  | Glucose (gm) |
| 58 percent of $75 \mathrm{gm}=43.50$ or | 44 |
| 100 percent of $162 \mathrm{gm}=$ | 162 |
| 10 percent of $161 \mathrm{gm}=$ | 16 |

(4) Fat allowance.-Usually the allowance for fat in the average diabetic diet does not exceed 160 grams, and when it does there should be a special reason. The actual amount of fat used is based on a ratio between fat and carbohydrate which has been described above. It is frequently necessary to know the total fat or ketogenic content of a diet and to find this it is necessary to remember that 46 percent of protein is converted into ketogenic material in the process of metabolism. There is no fat in carbohydrate. Fat itself is only 90 percent ketogenic, the remainder being glucose or antiketogenic. To find the total fat of the same diet prescription proceed as follows:

| - |  | Calories |
| :---: | :---: | :---: |
| Protein: | $75 \mathrm{gm} \times 4=$ | 300 |
| Carbohydrate: | $162 \mathrm{gm} \times 4=$ | 648 |
| Fat: | $161 \mathrm{gm} \times 9=$ | 1,449 |
| Total |  | 2,397 |
| 46 percent of 75 gm | $=34.50$ or | Fat (gm) 35 |
| 0 percent of 162 gm |  | 0 |
| 90 percent of 161 gm | $=144.90$ or | 145 |

Total fat or ketone element
180
c. (1) After gaining the information afforded in a good history and physical examination, the requirements are apparent to the experienced, and the prescription can be written easily without reference to a set of tables. It is done as follows: Assume the patient weighs 165 pounds, which is normal for his height, sex, and age, and it has been found that 2,400 calories are sufficient for a maintenance diet, and there are no complicating factors. Convert pounds into kilos by dividing 165 by 2.2 which is 75 kilos. The patient will be given 1 gram of protein for each kilo of body weight, or 75 grams of protein. The 75 grams of protein produces 300 calories. Then 2,400 calories, total amount permitted, minus 300 calories leaves 2,100 calories that must be made up by carbohydrates and fats. At the same time a general estimation of the case is being made, consideration is being given to the carbohydrate-fat ratio and a decision as to what the ratio will be was made when an estimate of total calories was made. Assume it to be $\frac{\text { carbohydrate }}{\text { fat }}=\frac{1}{1}$. One gram of carbohydrate equals 4 calories, and 1 gram of fat equals 9 calories. At this ratio 1 gram each of these two elements equals 13 calories. Total calories left after protein calories are subtracted are 2,100.

Therefore $2,100 \div 13$ equals 161.54 grams which is the number of grams of carbohydrate and fat permitted. Because of the fraction of grams it is decided to give 162 grams of carbohydrate, and 161 grams of fat. All this can be arrived at as fast as one can write. The prescription would then read as follows:

| Protein: | $75 \mathrm{gm} \times 4=$ | Calories |
| :--- | ---: | ---: |
| Carbohydrate: | $162 \mathrm{gm} \times 4=$ | 300 |
| Fat: | $161 \mathrm{gm} \times 9=$ | 648 |
| Total |  | 1,449 |

(2) If a higher ratio of carbohydrate to fat is desired, for instance, carbohydrate 1.5 to fat 1 , proceed as follows:
$11 / 2 \mathrm{gm}$ carbohydrate $=$
1 gm fat $=\quad 9$
Total 15
Then 2,100 calories allowed after protein is subtracted, divided by 15 equals 140 grams of fat. Carbohydrate is 1.5 times that of the fat, so 140 times 1.5 equals 210 grams of carbohydrate. The prescription would then read:

| Protein: | $75 \mathrm{gm} \times 4=$ | Calories |
| :--- | ---: | ---: |
| Carbohydrate: | $210 \mathrm{gm} \times 4=$ | 300 |
| Fat: | $140 \mathrm{gm} \times 9=$ | 840 |
|  |  | 1,260 |

Total 2,400
d. Keep in mind the following points when diabetic patients are examined:
(1) Total calories required.
(2) Protein requirement.
(3) Carbohydrate requirement.
(4) Fat requirement.
(5) Carbohydrate-fat ratio.
$e$. When the prescription is written it should be recorded in the ward order book and on the patient's clinical record and immediately sent to the dietitian. If the prescription does not reach the dietitian in time to construct a menu for the next meal, an emergency ration may be given of the following:

Bouillon, 240 cc.
Milk, 240 cc.
Toast, 1 slice.
Butter, $1 / 2$ square.
Coffee, 1 cup.
67. Training the diabetic.- $a$. It is not believed that a mass of diet tables is conducive to establishing interest and proper training of the diabetic. It is realized that tables on composition and nutritive value of foods must be at hand for ready reference. The physician, dietitian, and patient all need these tables as it is not possible nor is it necessary to memorize them. It is the policy so to train the diabetic that he may be able to do the following for himself:
(1) Convert a prescription for the diabetic diet into three equal meals and extend the elements into calories.
(2) Plan the menu for such a prescription, carrying out the extensions into grams and calories of each element with accuracy.
(3) Construct menus from his own maintenance diet prescription.
(4) Estimate weights of various common foods by actual practice on known quantities and attain proficiency in weighing foods.
(5) Examine urine for percentage of sugar with a fair degree of accuracy and care of equipment for urinalysis.
(6) Identify various strengths of insulin from colors on labels.
(7) Self-administration of insulin.
(8) Sterilization of skin for administration of insulin.
(9) Sterilization and care of hypodermic needles and syringes, and properly extract correct dose of insulin from bottle.
(10) Institute proper care for cuts, bruises, corns, and other complications likely to arise.
$b$. This may seem difficult to accomplish but it is not. If the patient can read, write, add, subtract, and multiply it is relatively easy. The subjects taught patients are-
(1) Method of examination of urine with demonstrations, by laboratory service.
(2) Methods of weighing and measuring diets with demonstrations, by dietitian.
(3) Administration of insulin, including self-administration, method of sterilization of equipment, withdrawing dosage of insulin into syringes, sterilization of site to be injected, and measuring dosage, by charge nurse of ward.
(4) Diabetes mellitus and its complications, and the diabetic diet, by ward officer.
(5) Daily correction of patients' extended diets and constructed menus, by ward officer.
c. Proficiency should be attained by the patient in 2 or 3 weeks. Tables and figures are not interesting unless one can understand and
work them. By the above method, proficiency leads to restored confidence in the patient, with added interest and better cooperation. When instruction is presented properly, diabetics eagerly fall in line and maintain interest in the work. As soon as a patient has reached the maintenance diet stage he should be given a copy of the diet prescription and instructed regarding the division of it into 3 meals. The daily menu should be furnished and the patient required to extend the articles on the menu, meal by meal, and require total calories, protein, carbohydrate, and fat in each meal to be that of $1 / 2$ of the total prescription. When proficiency is attained in this, the patient should then be required to take the prescription for his own diet and make up a menu with extensions and submit for the doctor's approval. These should be checked carefully and if protein, fat, carbohydrate, and total calories are correct, it should be sent to the kitchen and filled. The patient should then be required to eat it. The purpose of this is to teach the patient about the proper number of grams of various articles ordinarily used. If one orders too much of any item and is required to eat it, since this is a weighed diet, the error is not likely to happen again.
$d$. There can be but one answer to the question, of whether the mild diabetic should be trained. There is no assurance that a potential or mild diabetic will not in the near future be a severe diabetic. It is believed that any diabetic should be properly trained and also that mild cases should adbere as closely as others to properly weighed diets. Many cases would probably never have advanced to their present stage had proper dietary precautions been observed.
e. (1) Patients suffering from diabetes mellitus are advised to obtain a diabetic manual, and they are furnished a list of common foods with their nutritive value and menu extension sheets. When discharged they are given a copy of the hospital booklet on diabetes mellitus which contains pertinent information for them and also space for data regarding diet, urinalyses, blood sugar, etc. It has been found that this material is all that is necessary in their training.
(2) Special attention is called to the list of foods commonly used. Such a list can be taken from any authoritative table on nutritive value of foods, makes a convenient ready reference for use while working on menu construction, and is much easier than looking through tables containing hundreds of items, many of which will never be used. A diabetic manual containing complete tables should be in the possession of every diabetic for reference.
f. The form patients use for training in menu work is shown below:

## DIABETIC MENU CONSTRUCTION CHART

Diet: Protein
Carbohydrate
Fat
Total calories
BREAKFAST

| Article | ${ }_{\text {(grams) }}^{\text {Amount }}$ | Protein (grams) | Carbohydrate (grams) | $\underset{\text { (grams) }}{\text { Fat }}$ | Calories |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 1 |
|  |  |  |  |  | qu |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  | drand | fial | 19) 05 | $4 \mathrm{c}+10$ |
| Total |  | 17 |  |  | Cuby |


| Article | Amount <br> (grams) | Protein <br> (grams) | Carbohydrate <br> (grams) | Fat <br> (grams) | Calories |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## Section XIV PURIN



68. Low purin diet.-a. General.-The low purin diet is useful in the treatment of gout and other diseases when it has been determined purin bodies are in excess of the normal. Purin bodies are found in meat and fish principally; therefore a low purin diet will not contain these items. Unless there is renal involvement the protein intake may be kept to approximately normal. This can be done by using milk, eggs, and cheese freely. The total caloric intake may remain at the normal level unless the patient is overweight or there be other reasons for a reduction. The carbohydrate-fat ratio may remain that of the normal diet. Tobacco should be limited and coffee, tea, cocoa, and alcohol avoided.
b. Food selection.-(1) Menus should be constructed as indicated below. Avoid all foods that are likely to cause digestive disturbance as well as purin-bearing ones.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Fruit | All. | None. |
| Vegetables | All except those listed in next column. | Lentils, spinach, peas, beans, cauliflower, asparagus, mushrooms, rhubarb. |
| Cereal | All except those in next column. | All from whole grain. |
| Bread | All except those in next column. | All made from whole grain. |
| Soup | All except those in next column. | All broths and those made from meat. |
| Meat and substitutes-- | Eggs, shad roe, caviar, cheese, gelatin, milk. | Avoid all listed in below. |
| Butter | All. | None. |
| Beverage_ | Milk. | Cocoa, coffee, tea, alcohol. |

(2) Below is a list of foods that contain a large or moderate amount of purins and must be avoided:
(a) Meats.

Sweetbreads.
Anchovies.
Sardines.
Liver.
Kidney.
Squab.
Trout.
Tongue.
Carp.
Turkey.

Pike.
Perch.
Venison.
Veal.
Liver sausage.
Codfish.
Beef.
Clams.
Crab.
Pheasant.

Goose.
Chicken.
Oysters.
Herring.
Mutton.
Ham.
Salmon.
Lobster.
Scallops.
Shrimp.
(b) Miscellaneous.

Cauliflower.
Asparagus.
Peas.
Mushrooms.
Spinach.
Lentils.
Beans.

Cocoa.
Coffee.
Tea.
Meat gravies.
Meat extracts.
Stock soups.
Alcohol in all forms.
c. Sample menu.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Sliced pineapple. | Cheese souffle. | Cheese fondue. |
| Cream of wheat. | String beans. | Steamed rice. |
| Coddled eggs. | Creamed potatoes. | Cream. |
| Toast, butter. | Tomato-cabbage salad. | Summer squash. |
| Cream. | Bread, butter. | Apple-cabbage salad. |
| Postum. | Tapioca pudding. | Bread, butter. |
|  | Milk. | Prune whip. |

69. High purin diet.-The high purin diet is not a therapeutic diet. It is used, however, as an aid in the diagnosis of gout. The diet includes enough of the articles listed to be avoided under the low purin diet to total about $2 \frac{1}{2}$ grams daily. The total caloric and protein intake must remain approximately normal. The carbohydratefat ratio is not changed.

## Section XV

## ARTHRITIS

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70. Clinical types of arthritis.-There are many clinical types of arthritis resulting from many etiological factors. Definite benefit is obtained in some cases from diet. Diet has been tried in all forms of arthritis but it is questionable if it is of any value in some types. In general, the clinical types of arthritis considered from the standpoint of usefulness of diet are-
a. Static or traumatic.-Diet is of particular value in this type of arthritis. The reducing diet should be used (see sec. VI above).
b. Acute infectious.-It is not believed that diet is of any value in the treatment of this type of arthritis. The type of diet used for any acute infectious disease is suitable.
c. Chronic infectious.-This type of arthritis is made up of many forms. Foci of infection can usually be found in most of the cases if adequate search is made. Many of these cases are associated with other outstanding subjective symptoms or objective findings. The rationale of the role diet plays in most of these is directly dependent on these symptoms. For instance -
(1) Chronic arthritis associated with chronic constipation is benefited by the anticonstipation (A. C.) diet (see sec. IV above). In such a diet the total caloric and protein intake should approximate the normal, and carbohydrates reduced about 25 percent.
(2) Chronic arthritis associated with malnutrition and underweight will do better if given a high caloric diet. The basal requirement should be increased 100 percent. Protein should be increased about 20 percent over the normal, no change in the carbohydrates, and the remainder of total caloric intake made up of fats.
(3) Chronic arthritis associated with anemia. In this clinical form protein should be increased about 40 percent to 50 percent with a normal total caloric intake. Carbohydrates should remain normal. The principal increase in protein should be in meats that have been found useful in treating pernicious anemia such as liver, red meats, etc.
(4) In all other cases of chronic infectious arthritis, diet may be of some benefit. Explanations of how and why a diet is beneficial are unsatisfactory. Most patients improve on treatment. However, much is done for them and it is difficult to say whether any of the improvement is due to diet. Diet should continue to be a part of the routine treatment of these cases. The diet that seems to be
most beneficial is one that is low in total calories. The carbohydrate intake should be reduced by at least one-third.
71. Methods of prescribing.-a. In requesting all diets for chronic infectious arthritis it should be done as the examples below indicate. Determine first if there are outstanding associated symptoms remediable by diet, and include such information in the prescription.
(1) Arthritic, anticonstipation diet; carbohydrates, 25 grams.
(2) Arthritic diet, calories 3,100 ; protein, 100 grams.
(3) Arthritic anemia diet, calories, 2,600; protein, 120 grams.
(4) Arthritic diet, calories, 1,700 ; carbohydrates, 200 grams.
b. By writing the diet order in this manner the dietitian will have adequate information for preparation of the menu. It is necessary to mention only the elements in the diet it is desired to change. These diets are so variable and must be made according to the prescription written that a sample menu would be useless.

## Section XVI

## PERNICIOUS ANEMIA

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72. General.- $a$. Patients suffering from pernicious anemia who require hospitalization will usually need liver extract, ventriculin, and other drugs administered as a part of their treatment. However, this does not mean that diet is not the most important single factor in treating pernicious anemia. A special diet will be needed for the critically ill, the convalescent, and for those in a stage of remission. In fact, the diet should never be given up regardless of the well-being of the patient.
$b$. Diet plays a major role in the treatment of secondary anemias. Iron and copper are of importance, while both liver and the B complex have a favorable action.
73. Modification of diet.-In pernicious anemia the diet should be modified approximately as follows:
$a$. Total caloric intake equal at least to the normal maintenance diet for the person treated.
b. Protein increased 50 percent above the normal diet.
c. Fats reduced 50 percent below the normal diet.
d. Give at least 200 grams (cooked weight) of freshly prepared liver (calf or beef preferred) daily.
$e$. Make up remainder of protein intake largely from red meats trimmed of all visible fat.
$f$. Avoid fried and greasy foods.
g. Give at least 300 grams each of fruits and vegetables, preferably the following, fresh, when available:

Vegetables
Lettuce.
Spinach.
Cabbage.
Tomato.
Asparagus.

Fruits
Oranges.
Grapefruit.
Strawberries.
Apricots.
Pineapple.
Peaches.
74. Food selection.- $a$. General.-It can readily be seen from these requirements that many problems pertaining to the diet are going to arise. Some of the patients are very ill and cannot take a solid diet, and in others the appetite is lost and it is difficult to get them to eat sufficient food. Some of the most difficult problems are solved by the recent advances made in liver therapy, making it possible to defer eating so much liver until partial recovery at least has occurred. There are however other elements in the diet necessitating that the full pernicious anemia diet be consumed as largely as possible. It is for these reasons that the following general information is furnished. When it is desired to give the antianemic diet to patients suffering from secondary anemia, the diet used in pernicious anemia cases may be used. However, it is not necessary to insist on more than one-half the amount of liver be used and it is unnecessary to reduce drastically the fat intake.
b. Guide.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Bread, crackers, cere- <br> als, etc. | Whole wheat bread or <br> toast, potato, macaroni, <br> dry or cooked cereals, <br> rice, and plain crackers. <br> Limit eggs, milk, cream. | Cheese. Cakes and pas- <br> tries that will probably <br> prevent patient from eat- <br> ing full amount of liver <br> and other necessary arti- <br> cles. Hence the refined <br> bread, crackers, and ce- <br> real should be limited. |

b. Guide-Continued.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Beverage | Tea, coffee, cocoa. Limit milk. |  |
| Fruits, fresh, canned, or dried ( 30 grams daily). | Peaches, apricots, oranges, strawberries, grapefruit, dried figs, pineapple, blueberries, raisins, prunes, dried dates, and bananas. <br> Restrict other carbohydrates to insure eating above fruits. <br> Limit sugar (20 grams), pickles, relishes, salt, and vinegar. |  |
| $\begin{aligned} & \text { Meats (200 grams } \\ & \text { daily). } \end{aligned}$ | Liver, calf, beef, or hog; 200 grams daily. Kidneys, chicken liver. Red muscle meat of beef, lamb, or mutton. Calf or beef heart. (All meats must be trimmed of all visible fat before cooking.) <br> Limit poultry, fish, and shellfish. | Bacon, pork, cottonseed oil, olive oil, and all meat fats and oils |
| Vegetables, cooked or raw ( 300 grams daily). | Artichoke, beets, chard, mushrooms, peas, greens, spinach, asparagus, brussels sprouts, string beans, cabbage, tomato, lettuce, and cauliflower. | None. |

75. P. A. liquid diet.-For those who are unable to take anything except liquid foods the following diet may be used. The total caloric intake is low and the patient should not be kept on it more than 3 or 4 days if it is possible to avoid it.
8:00 AM:
cc 10:00 AM:
cc

One egg white.
Coffee
120


76. P. A. light diet.-a. Use.-This diet is useful when it is no longer necessary to keep the patient on liquids, yet it is too early to begin the regular diet for pernicious anemia. It is also useful in those cases not able to take the full diet because of a lack of appetite.
b. Sample menus.

7:00 AM:
Oranges, 1.
Lamb chop (average size), 1.
Toast (whole wheat), 30 gm .
Butter, 10 gm .
Coffee, 120 cc.
Milk, 30 cc.
9:00 AM:
Scraped beef ball, 30 gm .
Whole wheat bread, 1 slice.
Dill pickle, 1.
12:00 Noon:
Stuffed green peppers, calf liver, 90 gm .
Tenderloin steak, 70 gm .
Baked potato, 60 gm .
Spinach, 60 gm .
Stewed figs, 60 gm .
77. P. A. regular diet.-a. General.-Patients with pernicious anemia should not be kept on liquid or light diet any longer than necessary. As soon as the appetite has returned and the condition of the gastro-intestinal tract will permit, these patients should be urged to eat the regular diet for pernicious anemia cases. Only this diet insures adequate total caloric intake with the required amount of liver.
b. Sample menus.

| 7:00 AM: | Gm |  | Gm |
| :---: | :---: | :---: | :---: |
| Stewed prunes | 200 | Lettuce salad | 200 |
| Raisins | 30 | Mineral oil mayonnaise. |  |
| Cream of wheat | 120 | Sliced pears. | 300 |
| Broiled kidneys | 80 | Milk | 120 |
| Toast, whole wheat | 20 | 3:00 PM: |  |
| Butter | 10 | Strawberries | 120 |
| Coffee | 129 | Raisins | 60 |
| Milk | 30 | 6:00 PM: |  |
| 9:00 AM: |  | Broiled liver | 90 |
| Scraped beef | 20 | Spinach | 120 |
| Whole wheat bread, |  | Tomatoes | 120 |
| slice. |  | Lettuce | 120 |
| Dill pickle, 1. |  | Apricots | 240 |
| 12:00 Noon: |  | 9:00 PM: |  |
| Broiled ground liver ( 80 gm) cocktail. |  | Ground liver ( 90 gm ) in aspic jelly. |  |
| Roast beef | 90 | Soda crackers, 2. |  |
| Steamed rice | 60 | Milk | 240 |

78. Liver diets.-The following information pertains to liver diets:
a. Day's ration.-A day's ration of liver should be 200 grams or about 6 ounces. One calf liver uncooked weighs from 2 to 3 pounds and will lose from 40 to 50 percent in preparation.
b. Preparation.-(1) Calf or beef liver should be sliced and broiled. Chicken livers should be steamed. Do not soak liver before broiling, and do not overcook.
(2) When cooked, remove veins and further prepare by chopping in small pieces, or mince coarsely, or mince finely and strain.
(3) Season with salt and a pinch of sugar. Moisten with gravy from roast meat, or broth from boiled meat or fowl.
(4) Additional seasonings valuable in disguising liver, especially in liver cocktails, are chop suey sauce, celery salt, onion salt, curry, worcestershire sauce, tomato purée, and chili sauce.
79. Preparation of liver dishes.-Special effort must be made to insure ingestion of the proper amount of liver. Liver may be served in many ways. Hot or cold dishes may be used. Recipes for these dishes are given in appendix II and are believed adequate for all needs in the preparation of liver dishes.
80. Ordering diets.-Diets for pernicious anemia cases are not limited to the above-mentioned. They ordinarily will be satisfactory
for most cases, and should be ordered by the above-named. In all other cases where these diets do not meet the requirements of the cases, they should be ordered by stating the type of diet, pernicious anemia (liquid, light, or regular) diet, and state total caloric intake desired, and the amount of fat to be used. For example, pernicious anemia, light diet; calories, 1,800 ; fat, 75 grams. No further information will be required by the dietitian.

## Section XVII

## ALKALINE AND ACID

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High alkaline diet ..... 82
High acid diet ..... 83
81. General.-In terms of the normal solution, foods utilized by the body produce an excess base or acid balance, or result in a neutral residue. From the standpoint of the alkali-acid balance, it is important to know the foods that result in excess alkaline or acid balance. Both of these diets are useful in the treatment of certain diseases.
82. High alkaline diet.-a. Use.-This diet is useful in the treatment of acidosis. Its use will result in a high alkaline balance.
b. Neutral materials. - In the preparation of these menus it must be remembered that certain materials are classed as neutral foods. They are butter, cream, olive oil, vegetable fats, lard, cornstarch, sugar, tapioca.
c. Food selection.-In preparing menus for the high alkaline diet select foods from the list below. Neutral foods may also be used if desired, but not in sufficient quantity to reduce adequate intake of the high alkaline foods. If any foods from the acid balance list are used, they should be limited to the minimum, and only the low acid ones used. Such diets tend to be low in the B vitamins, hence fortification may be necessary.

| Food | Permitted | Avoid |
| :---: | :--- | :--- |
| Bread, cereals, <br> etc. | Cornstarch and tapioca. | All others. |
| Fruit_-........ | Almonds, apples, bananas, cherry juice, <br> coconuts, currants, dates, figs, <br> grape juice, grapefruit juice, lemons, <br> oranges, peaches, pears, pineapple, <br> pineapple juice, raisins, raspberry <br> juice. | Prunes, plums, cran- <br> berries. |

c. Food selection-Continued.

| Food | Permitted | Avoid |
| :---: | :--- | :--- | :--- |
| Vegetables_......- | Asparagus, brussels sprouts, beans, <br> dried; beans, lima, fresh; cabbage, | Corn. |
| carrots, cauliflower, celery, cucum- |  |  |
| ber, lettuce, mushrooms, onions, |  |  |
| parsnips, peas, dried or fresh; pota- |  |  |
| toes, radishes, rutabagas, spinach, |  |  |
| tomatoes, tomato juice, turnips. |  |  |
| Milk, cow's; molasses, chestnuts. |  |  |

d. Sample menus.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Baked apple. | Orange juice. <br> Cream. | Creamed asparagus. <br> Pineapple juice. |
| Baked potato. <br> Pineapple-lettuce salad, <br> macon. | Tomato juice. <br> Mashed potatoes. <br> Butter. <br> Toast, 1 slice. | Creamed spinach. <br> Shredded carrot-cabbage <br> Butter. |
| Milk. | Salad, mayonnaise. <br> Sliced pears. <br> Milk. | Sliced peaches. <br> Milk. |

83. High acid diet.- $a$. Use.-The high acid diet is used frequently in the treatment of nephritis. It is also used in certain conditions caused by improper calcium metabolism. The high acid diet combined with the low calcium diet is of particular value in lead poisoning.
b. Neutral materials.-In preparing menus for this diet, the neutral foods must be considered. They are butter, cream, olive oil, all vegetable oils, lard, cornstarch, sugar and tapioca.
c. Food selection.-It is difficult to construct a palatable menu from acid producing foods alone. Alkaline foods are frequently used also, but care must be exercised to see that only those of low alkaline content are used. In preparing the high acid menus the following guide should be followed.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Bread, cereals, etc. | Whole wheat bread, white bread, rye bread, oatmeal, rice, shredded wheat, farina, soda crackers, graham crackers, dry cereals. | Tapioca and cornstarch. |
| Fr | Prunes, plums, cranberries. For variety some low alkaline fruits may be used. They are canned pears, lemons, watermelon, grapes, and apple sauce. |  |
| Meat and dairy products. | Bacon, beef, lean; mutton, pork, rabbit, veal, venison, salmon, oysters, turkey, trout, chicken, eggs, cheese. | Large amounts of milk. |
| Vegetables | Corn. Other vegetables will be needed. They should be selected from the following low alkaline list: cabbage, celery, cucumbers, asparagus, string beans, onions, squash, radishes, rutabagas. |  |

c. Sample menus.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Stewed prunes. | Lentil soup. | Roast veal. |
| Shredded wheat biscuit. | Tenderloin steak. | Steamed rice. |
| Eggs. | Stewed corn. | Baked squash. |
| Bacon. | String beans. | Asparagus salad, mayon- |
| Toast, butter. | Shredded cabbage salad, | naise. |
| Cream. | mayonnaise. | Bread, butter. |
| Coffee. | Bread, butter. | Fresh plums. |
|  | Cranberry pie. | Tea or coffee. |
|  | Tea or coffee. |  |
|  |  |  |

## Section XVIII

## FOOD ALLERGY

General ..... 84
Class I foods ..... 85
Class II foods ..... 86
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Supplemental foods for class I ..... 88
Follow-up and record of case ..... 89
84. General.-Food allergy is manifested by various clinical symptoms, some of which are difficult to recognize. It is also difficult
and sometimes impossible to determine the food that causes allergic reactions. So many foods are used in daily menus that it requires patience and prolonged effort on the part of patient and physician to accomplish anything. Skin tests are often useless in determination of the allergens. Most of the foods eaten do not hurt. Those that do cause reactions of one kind or another are innocently hidden among the others, and are not suspected. Because of this, it is best to start the hunt for these injurious foods by providing the patient with a very simple diet. It is important that every article that goes into every recipe is known, and that all ingredients come within the permissible list. It is known that of the long list of common foods in this country, some of them are rarely found to be the cause of food allergy. It is also known that from this same list another fairly small group represents most of the foods that cause reactions when eaten. The remainder of the long list of our foodstuffs may or may not cause allergic reactions when eaten. The complete diet list is then divided into three parts, that group of foods-
a. Seldom, if ever, causing food allergy.
b. Most frequently found to be the cause of food allergy.
c. That usually does not but may cause allergic reactions (the large group).
85. Class I foods.-It is obvious that the patient suffering from food allergy should be provided with a diet, the articles of which seldom if ever are known to be allergens. It is not possible to provide a well-balanced, palatable diet from this food list because it is so small. For purposes of identification and because they do not cause reactions, they are called class I foods.

| Almonds. | Guava. | Persimmons. |
| :--- | :--- | :--- |
| Artichoke. | Flounder. | Plums. |
| Avocado. | Halibut. | Rabbit. |
| Buckwheat. | Olives. | Sago. |
| Cranberry. | Pepper. | Tuna fish. |
| Cucumber. | Hiekory nuts. | Turkey. |
| Duck. | Loganberries. | Watermelon. |
| Figs. | Mushrooms. | Zuccini. |

86. Class II foods.-For identification and because they are to be avoided, the foods most often found to be offenders are put into the second class and are called class II foods. Listed in order of frequency as allergens they are-

| Wheat. | Strawberries. | Lettuce. |
| :--- | :--- | :--- |
| Eggs. | Walnut. | Oysters. |
| Milk. | Oatmeal. | Crab. |
| Chocolate. | Pork. | Shrimp. |
| Cabbage. | Carrots. | Lobster. |
| Tomato. | Celery. | Peanuts. |
| Orange. | Salmon. | Cantaloupe. |
| Cauliflower. | Apples. | Navy beans. |
| White potato. | Grapefruit. | Grapes. |

Banana.
The remainder of the long list of foods are put into a third class and known as class III foods. Such a list is easily available and too long to include in this manual.
87. Ordering diets.- $a$. By examining foods in class I group, it is seen that it would be difficult to provide suitable diets from this list. Diets in food allergy should provide for adequate or normal intake with proper ratio between proteins, carbohydrates, and fats. Proper procedure then requires the use of as much of class I foods as possible, none of class II, and complete the menu from as few articles as possible from class III. Until proper identification of the offending foods has been made all these diets are also test diets and it is necessary that copies of the menus be kept on file. When the diet is begun it should be continued for 10 days unless allergic reactions are occurring.
$b$. To supplement class I another group must be selected from class III foods. As few as possible should be chosen and if the patient becomes symptom-free in the first 10 days add necessary articles for variety only from class III. Additional foods added should be one at a time and not oftener than every third day. When this stage is reached without symptoms it is time to add articles from class II, one at a time every third day. As offending foods are identified they are temporarily eliminated from the diet until the entire class II foods have been tried. When this has been done, the offending foods may be tried again in small quantities and if symptoms arise again the patient should be desensitized to the offending foods or eliminate them permanently from the diet.
c. It is not sufficient when prescribing this diet merely to order a food allergy diet. These diets are frequently used in the treatment of children and it must be remembered that this class of patient requires 2 to 3 grams or more of protein per kilogram of body weight. It is therefore necessary to specify the diet and include the total caloric intake, and number of grams of protein desired. For example, food allergy diet, calories 2,600 ; protein, 78 grams.
88. Supplemental foods for class I.-The following group of class III foods used in conjunction with class I will be adequate for the first 10 days. After that, additional variety is afforded by further selection from class III as described above.

| a. Bread, cereals, etc. | c. Vegetables. |  |  |
| :---: | :--- | :---: | :--- |
| Corn flakes. | Corn meal mush. | White turnips. | Spinach. |
| Rice flakes. | Corn pone. | Eggplant. | Parsnips. |
|  | Tapioca. | Corn. | Rhubarb. |
| b. Fruit. |  | Endive. |  |
| Lemons. | Apricots. | Ciscellaneous. |  |
| Prunes. | Pears. | Corn oil. | Salt. |
| Dates. | Pineapple. | Molasses. | Gelatin. |
|  |  | Maple syrup. | Pecans. |
|  |  | Sugar. | Cornstarch. |
|  |  | Coffee. | Lentils. |

Class I foods plus the supplemental list will assure adequate caloric intake if menus are properly prepared. In cooking, articles not in these two lists must not be used.
89. Follow-up and record of case.- $a$. When the dietitian receives the diet prescription, menus are made for the first 10 days. A copy of the menu for each day will be sent to the ward for reference and to be filed on the chart.
$b$. If the ward officer does not desire the diet in $a$, above continued longer, additional articles will be added from class III foods as outlined above until a fairly wide range of foods has been reached.
c. Contact will then be made with the ward officer, and if satisfactory, begin the addition of class II foods. These will be added one at a time every third day, beginning with milk, then eggs, etc. A record will be made of all foods causing reactions.
d. Below are sample menus useful in the first 10 days' treatment. Menus for later stages of treatment are readily constructed from the wider range of foods.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Pineapple juice. | Chicken soup. | Lamb chops. |
| Fried rice. | Broiled chicken. | Hominy. |
| Maple syrup. | Boiled rice. | Parsnips. |
| Bacon. | Boiled spinach. | Endive. |
| Corn pone. | Corn pone. | Rice-raisin pudding. |
| Coffee. | Sliced pears. | Coffee. |
| Sugar. | Coffee. |  |


| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Stewed rhubarb. | Lentil soup. | Roast lamb. |
| Fried mush. | Broiled halibut. | Steamed rice. |
| Molasses. | Boiled white turnips. | Boiled spinach. |
| Bacon. | Zuccini. | Olives. |
| Corn pone. | Corn pone. | Sliced pineapple. |
| Sugar. | Stewed figs. | Sugar. |
| Coffee. | Sugar. | Coffee. |
|  | Coffee. |  |

Section XIX
TUBERCULOSIS

Paragraphs
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Laryngeal diet .............................................................................................. 93
90. General.- $a$. Diet is important in the treatment of tuberculosis. When the disease is limited to the lungs and is very active the constitutional symptoms may prevent the consumption of the proper amount of food. During the acute symptoms the appetite is frequently abnormal and there is a desire for no or little food or such items that constitute a very badly balanced diet. In such cases the diet is that furnished any patient acutely ill with a fever from any cause. The diet, whether liquid or light, will usually have to be given in small feedings frequently and it may be necessary to give concentrated foods if the patient has trouble consuming sufficient calories by taking ordinary liquid or light diet.
$b$. After the acute symptoms have passed the appetite increases and the patient will take adequate food without coaxing. In fact, most patients have erroneously gained the idea that "stuffing" with food, a large part of which is cream and other fats, will hasten the cure of tuberculosis. Not only does this fail to produce beneficial results, but often causes gastro-intestinal upsets. After the acutely ill state has passed, dietotherapy is distinctly helpful in three manifestations of the disease and the diet suitable for one is not borne well by the other. These are cases-
(1) In which the disease is limited to the lungs and the patient is not acutely ill and the appetite assures adequate caloric intake.
(2) Of pulmonary tuberculosis in which there is involvement of the gastro-intestinal tract attended by the usual upsets, including diarrhea.
(3) In which there is laryngeal involvement.
c. Special diets have been advised for almost every form of tuberculosis. It is not believed that special diets are of any particular value in types of cases other than those described above.
91. Regular diet.- $a$. Content.-(1) In the first group of cases (par. $90 b(1)$ ), the diet should be ample in calories but should not ordinarily exceed $30-35$ calories per kilo of the normal weight for adult patient. It is not believed that the ratio of distribution of protein, fats, and carbobydrates should be disturbed. It has been noted that patients consuming large amounts of fat are prone to have digestive disturbances. It should be remembered that the treatment of tuberculosis is a system of many procedures well organized and carefully executed. The forced consumption of excessive fat often not only fails to increase weight but disturbs a well-regulated regime of treatment. It should also be remembered were it possible in every case to gain weight that in many cases such weight gain is not desired.
(2) The regular diet should be so planned that it contains a liberal amount of all vitamins and minerals. This means that the diet should contain, among other items, leafy vegetables, fruit juices, and milk to assure replacement of the minerals and vitamins. Midmeal feedings are often advised but actually while in the hospital the meals are so close together that this is not required, except that milk or fruit juices should be given about 9:00 PM before retiring. In this stage there is no restriction on the items of food that may be included in the diet. Such patients, however, should be permitted tea, coffee, and tobacco in moderation and alcohol in all forms prohibited unless prescribed by the physician.
b. Sample menus.-See paragraph 195a.
92. Enteric diet.-a. Content.-In the second group of cases (par. $90 b(2))$, an effort must be made to maintain the weight and strength of the patient and reduce or eliminate the gastro-intestinal symptoms, including the diarrhea. Often this cannot be done. So far as diet is concerned, all that can be done is to provide a diet adequate for the patient under normal conditions, and prepare this diet so there will be as little residue as possible. It is believed that vitamins C and D are beneficial in intestinal tuberculosis and the diet should be so constructed that it contains an abundance of these in addition to the usual amounts of the other vitamins.
b. Food selection.-In this diet there are certain foods that should be avoided. The following outline should be followed in preparing this diet.


All containing alcohol. Carbonated waters. All iced drinks.
All containing bran. Whole wheat bread. Bran muffins.
All cereals containing bran.

All others.
All containing berries.

Use in excessive amounts.
All coarse fruits containing fiber, seeds, and skins. All cooked, not sieved.
All highly seasoned meats, fried meats.
All others.
Cabbage, cauliflower, brussels sprouts, coarse string beans, corn, all vegetables not puréed.

Most.
c. Sample menus.-See paragraph $195 b$.
93. Laryngeal diet.- $a$. Content.-In the third group or those cases with laryngeal involvement (par. $90 b(3)$ ), many of them are unable to eat sufficient food to maintain body nutrition. If this is not corrected there soon follows extensive edema of the extremities and this is soon followed by ascites, hydrothorax, etc. In such cases of malnutrition the plasma proteins are low and the diet should be one high in proteins, low in salt, and so modified in consistency that an adequate amount can be taken. When there is pain from swallowing the bulk must be reduced and the diet bland. In some severe cases tube diets may have to be used (see par. 14 for tube diets). In prescribing the high protein, salt-free diet the question arises over the amount of protein to be given. This is not definitely determined and may not be the same in all cases. A check should be kept on daily
loss of albumin in the urine and this amount plus $50-60$ additional grams should be provided in the diet. When this diet is ordered the number of grams of protein desired should be stated.
b. Sample menus.-See paragraph 195 c.

Note.-Do not add salt to food before, during, or after cooking. Use saltfree bread and butter and omit milk until edema disappears.

## Section XX

## SURGERY

Paragraph

94. Preoperative diet.-a. General.-(1) Under ideal conditions the patient who comes to the operating table should have no food in his stomach, but he should nevertheless be in a good nutritional state, and his tissues should be adequately supplied with fluids. While such preoperative conditions cannot always be attained they should be approached as nearly as possible. The advantages gained by placing the patient in a good nutritional state preoperatively have been receiving more and more recognition in the last decade.
(2) It has long been recognized that the stomach should contain no food at the time of operation because of the danger of aspiration of the vomitus. Several lives have been needlessly lost each year from aspiration pneumonia due to neglect in making certain that the patient's stomach is free from food before the general anesthetic is given. If a patient who is in urgent need of operation has food in his stomach, it is advisable to perform gastric lavage before starting the anesthesia. It is also pointed out that the colon should be fairly empty in order that post-operative distention may be avoided. This does not mean that there should be violent purgation for several days but rather that an effectual enema be given a few hours before the operation is scheduled to begin. It is not necessary or desirable to starve the patient for several days, but rather the preoperative abstinence from food should be about 12 hours, at least longer than the emptying time of the patient's stomach.
b. Protein.-(1) Investigations on the effects of hypoproteinemia have been carried out by several investigators. These investigations have been implemented by operations on dogs performed in the condition of well-advanced hypoproteinemia. It has been noted that
in these animals breakdown of the wound or even evisceration occurred after laparotomy in spite of using the same painstaking operative technique that was not followed by similar difficulties in other animals. This observation led to an investigation of wound disruption in human surgery, and it was found that even with the development of modern aseptic technique and a more intelligent handling of tissues, rupture of the abdominal wounds has continued to occur in from 1 to 3 percent of all abdominal operations. Moreover, the majority of these untoward results followed operations on the upper portion of the gastro-intestinal tract and on the biliary tract.
(2) The three possible causes of deficiency of protein in surgical patients are: deficient intake or absorption of protein, excessive loss of protein, and inadequacy of the mechanism for regenerating proteins from amino acids. Deficient absorption is usually due to vomiting, diarrhea, alterations in the intestinal mucosa, or decrease in the amount of functional absorptive area of the intestine. Loss of blood plasma or body fluids often occurs in cases having extensive burns or profuse drainage from an abscess, and if extreme, may give rise to hypoproteinemia. The ability of the body to regenerate serum proteins is also important. It is believed that the liver or possibly the cells of the reticulo-endothelial system may be the site of formation of serum proteins. If so, diet therapy may well be directed toward protecting this organ, and to accomplish this a high carbohydrate containing an adequate amount of protein becomes essential. Some of the clinical manifestations of hypoproteinemia are peripheral ("nutritional") edema, pulmonary edema, disturbances in gastrointestinal motility, and impaired wound healing. In order to increase serum proteins it may be necessary not only to prescribe a diet high in proteins and carbohydrates but to resort to transfusions of whole blood or plasma. Administration of amino acids may prove to be helpful provided the body can synthesize them into protein. It is certain, however, that an excess of one type of food with a marked deficiency of another may be very harmful. This applies especially to diets deficient in protein but providing a high carbohydrate intake.
c. Carbohydrate, fat, and calories.-(1) When an operation is not an emergency and when evidence of nutritional deficiency exists an attempt should be made to improve the nutrition of the patient prior to the operation. Diet should be high in protein and carbohydrate and low in fat. The number of calories provided should be more than the amount offered in the three-meals-a-day dietary of the average hospital. It is suggested that a proper diet is one containing 60 to

80 percent carbohydrate, 20 to 30 percent protein, and 5 to 10 percent fat.
(2) Carbohydrate provides energy and supplies the store of glycogen in the liver and muscles. Acidosis is less likely to occur if a high carbohydrate, low fat diet is given. Conversely, a high fat, low carbohydrate diet increases the tendency to develop acidosis under certain conditions. The starving patient lives largely on his own fat and is therefore virtually taking a high fat diet. This is another reason that starvation for several days prior to operation is undesirable.
(3) There may be circumstances where an obese patient should reduce his weight by means of a low caloric diet before operation is undertaken. But it would be desirable after sufficient weight loss to restore an ample diet for a few days preoperatively in order that the tissues may be well stocked with glycogen and other essentials at the time of operation.
d. Vitamins.-(1) The patient who is malnourished with respect to protein, carbohydrate, and fat is likely also to be deficient in vitamins. Lack of vitamin A probably has an unfavorable effect upon the epithelial tissues and may impair resistance to infection. The lack of vitamin B may introduce anorexia and lead to polyneuritis. Impaired calcium metabolism arising from vitamin D deficiency is to be avoided, especially when regeneration of bone must take place. A partial vitamin C deficiency may seriously affect the healing of surgical wounds in human beings. If shortage of this vitamin is suspected it can easily be overcome preoperatively as an aid to wound healing.
(2) Observations have been made that deficiency of prothrombin in the blood plasma may result from a lack of vitamin K, or primary hepatic injury, or from a combination of both. In jaundiced patients with normal prothrombin time vitamin K, or preferably its analogue, 2-methyl-1, 4-naphthoquinone, should be given as a prophylactic against probable deficiency. If the prothrombin time is lengthened in a jaundiced patient who requires surgery, particularly if it is above 45 seconds, an emergency need for the $K$ analogue exists, and transfusion of blood may be necessary if active bleeding has already begun.
c. Sample menu, high carbohydrate, ample protein.-Oarbohydrates, 385 ; protein, 99 ; fat, 56 ; calories, 2,440.

HOSPITAL DIETS
TIM 8-500

| $10$ | Grams | Household measure | $\begin{aligned} & \text { Carbo- } \\ & \text { hydrate } \end{aligned}$ | Protein | Fat |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Breakfast |  |  | 1 ma | 1 |  |
| Cereal flakes (or equivalent) | 30 | 1/4 cup | 22 | 3.5 | 0.7 |
| Banana | 125 | 1 large | 26 | 1. 6 | 0. 8 |
| Whole milk | 200 | 1 glass | 10 | 6 | 8 |
| Bread, toasted | 50 | 2 slices | 31 | 6 | 0. 1 |
| Butter | 5 | 1 square, $1 \frac{1}{4^{\prime \prime}} \times 114^{\prime \prime}$ x $1 / 4^{\prime \prime}$. | 0 | 0 | 4 |
| Jelly or preserves | 12 | 1 teaspoonful | 7. 7 | 0 | 0 |
| Coffee cream (19-percent) | 7 | 2 teaspoonfuls | 0.4 | 0.3 | 1. 5 |
| Coffee, if desired |  |  | 0 | 0 | 0 |
| Sugar | 13 | 1 tablespoonful | 13 | 0 | 0 |
| 10:00 AM. Orange juice | 200 | 1 glass | 20 | 0 | 0 |
| Dinner |  | ummor if | Of |  | 10 |
| Tomato soup | 140 | 1/2 cup | 13. 4 | 2. 2 | 2 |
| Soda crackers | 20 | 3 double | 13. 7 | 2.1 | 2. 5 |
| Rice (or potatoes | 100 | 1/2 cup. | 22, 5 | 2. 3 | 0. 9 |
| Corn, canned | 100 | 1/2 cup | 17 | 3 | 1 |
| Egg, poached | 60 | 1 egg | 0 | 6 | 6 |
| Bread, white | 60 | 2 slices | 31 | 6 | 0.1 |
| Butter | 5 | 1 square, $11_{4}^{\prime \prime} \times 114^{\prime \prime}$ $x^{1 / 4^{\prime \prime}}$. | 0 | 0 | 4 |
| Fruit, mixed | 150 | 1/2 cup to $2 / 3$ cup | 18 | 0. 4 | 0 |
| Tea or coffee |  | As desired. | 0 | 0 | 0 |
| Sugar | 7 | 2 teaspoonfuls | 7 | 0 | 0 |
| 3:00 PM. Fruit juic | 200 | 1 glas | 20 | 0 | 0 |
| Supper |  |  |  |  |  |
| Bread | 60 | 2 slices | 31 | 6 | 0.1 |
| Butter | 5 | $\begin{aligned} & 1 \text { square, } 11_{4^{\prime \prime}} \times 114^{\prime \prime} \\ & \times 14^{\prime \prime} . \end{aligned}$ | 0 | 0 | 4 |
| Jelly or jam | 12 | 1 teaspoonful | 7. 7 | 0 | 0 |
| Beef, fat removed, roasted or broiled. | 115 | 1/4 pound. | 0. 8 | 39.3 | 9. 4 |
| Peas, green, cooked | 70 | 1/2 cup- | 10 | 4. 7 | 2. 4 |
| Potato, white, mashed or baked. | 100 | 1 small | 25.4 | 3.1 | 0. 1 |
| Pears, canned | 60 | 1 half | 18 | 0.2 | 0 |
| Milk, whole | 200 | 1 glas | 10 | 6 | 8 |
| 8:00 PM. Fruit juice | 100 | 1/2 glass | 10 | 0 | 0 |

f. Fluid.-(1) The patient who requires surgery may have become dehydrated in various ways. Vomiting, diarrhea, or loss of blood may have robbed him of fluids. In burns fluid is lost from the denuded skin. Sufficient fluid should be given to maintain the normal urinary output of about 1,500 ce daily. A surgical operation itself sometimes causes an increased loss of fluid due to various circumstances, including the operative procedures and excessive perspiration. If it becomes necessary to infuse as much as 3,000 ce of fluid, the intake of salt ( 27 gm ) may be excessive if the entire amount is given as physiological salt solution. Under the circumstances part of the fluid may be administered as 5 or 10 percent dextrose solution.
(2) Assuming that the patient's normal daily intake of sodium chloride is 9 or 10 grams this would be supplied by the first thousand cubic centimeters. Then, if another 10 grams of salt contained in body fluids, including perspiration, is lost as a direct result of the operation, another liter of normal saline may be provided. The remainder may be given as dextrose solution.
g. Adaptation of menu to patient.-(1) The menu selected for preoperative patients varies with the disease. The patient with hyperthyroidism is usually given as much food as he will take, and this may be as much as 3,000 to 5,000 calories daily during the preoperative period. The jaundiced patient requires a high intake of carbohydrate ( 350 to 500 gm daily) to increase the content of glycogen in the liver and to afford protection to the hepatic parenchyma. If the patient cannot take this much by mouth, intravenous injections of 5 or 10 percent dextrose in physiological saline may be employed.
(2) In the case of peptic ulcer, operation may often be preceded by several weeks of diet therapy. A suggested diet during the first week consists wholly of a mixture of milk and cream ( 120 ce per hour from 7:30 AM to 9:30 PM) representing C 90 , P 54, F 216, calories $2,520$. The milk and cream are usually gradually replaced from week to week by bland foods until eventually a bland diet representing C $221, \mathrm{P} 82$, F 159, calories 2,643, is given. In patients with gastric retention the daily diet is largely liquid or at best semisolid. Strained cereal with cream, strained cream soup, malted milk, eggnog, ice cream, gelatin with cream and junket with cream.
h. Low residue. - If the operation is to be on the colon a nonresidue or at least a low residue diet is desirable. The aim of such a diet is to reduce the amount of material reaching the colon to a minimum. Foods used should be free not only of indigestible roughage but also of slowly digested foodstuffs. Animal experimentation has shown that
the residue from hard-boiled egg is much lower than that from a softboiled or raw egg. Among foods with least amount of residue are gelatin, sucrose, dextrose, Karo, concentrated broth, hard-boiled egg, meat, liver, rice, farina, and cottage cheese. Among those with large residues are fruits, potatoes, bread, lard, butter, Swiss cheese, softboiled egg, raw egg albumen, milk, and lactose. The best basis for a low residue diet is lean meat. To this may be added rice, hard-boiled eggs, sugars (except lactose), and probably small amounts of fruit juices, tea, and coffee. The diet should be given in small amounts several times a day and probably should be fairly dry. If a nonresidue diet is desired, clear broth, gelatin, strained fruit juice, tea, and coffee may be given.
i. Sample menu, low residue.

| Brealfast | Dinner | Supper |
| :---: | :---: | :---: |
| Fruit juice (preferably | Bouillon. | Liver or lean meat. |
| strained). | Rice, boiled. | Rice. |
| Egg, hard-boiled. | Cream, small amount. | Cream, small amount if |
| Bland cereal (farina, | Sugar, small amount. | desired. |
| rice flakes, etc.). | Lean beef, roasted or | Sugar. |
| Cream, sugar. | broiled. | Tea. |
| Toasted white bread, small amount. | Gelatin, flavored with fruit juice. | Gelatin dessert. |
| Butter, small amount. | Tea or coffee. |  |
| Coffee, if desired. | 3:00 PM. Strained fruit |  |
| 10:00 AM. Candy, if desired. | juice or broth, according to requirements. |  |

95. Post-operative diet.-Most cases that have been operated require a special diet. The type depends on the disease and nature and extent of surgery done. The post-operative diets for most surgical cases fall into two general classes as follows:
a. Routine.-Diets that are suitable to a large group of surgical cases. These are considered the routine post-operative diets. They vary from day to day.

First 48 hours ( 2 Hot tea or hot water p.r. n., when not days). nauseated.
Third day (third 24 Liquid. hours).
Fourth and fifth Soft.
days (fourth and fifth 24 hours).
Sixth day (sixth 24 Light. hours).

Return to full or regular diet after patient has been on light diet 3 days.
b. Special.-Diets that are suitable for post-operative treatment of a single or possibly two or three surgical procedures. Many diets are required to meet the various special conditions. They are considered individually below.

## 96. Gastro-enterostomy diet.

First day

| Hot water, 4 ce every 20 minutes if |
| :---: |
| tolerated. |

Second day
Hot water or tea, 6 to 10 ec every 20 minutes if tolerated.

## Third day

$\begin{array}{cc}\text { 8:00 AM. Strained broth of oatmeal, } & c c \\ \text { barley, or rice....................... } & 60\end{array}$
10:00 AM. Orange juice, sweetened to taste

20
12:00 Noon. Strained broth.... 60
2:00 PM. Orange juice..........-. 20
4:00 PM. Strained broth .........- 60
6:00 PM. Orange juice
9:00 PM. Orange juice
20

## Fourth day

6:00 AM. Orange juice, sweetened to taste
8:00 AM. Strained broth of oatmeal, barley, rice, or peas.-.9:00 AM. Orange juice
11:00 AM. Orange albumin
3:00 PM. Orange juice
4:00 PM. Strained broth
6:00 PM. Orange juice
9:00 PM. Orange juice
20

Hot water 30 ce every 30 minutes if tolerated.

## Fifth day

6:00 AM. Strained gruel of oatmeal, barley, or rice60
With strained, stewed prunes,
apple sauce, or apricots. ..... 30

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Eighth and ninth days-Continued.

Vegetables may be decreased and an equal amount of zweiback or arrowroot crackers soaked in beef juice substituted.

2:00 PM. Orange juice_-............ 120
Supper: Same as breakfast and add
custard, junket or gelatin_...... 100
8:00 PM. Orange juice .............. 120

Tenth day
Same as ninth day except addBreakfast: Egg, poached or soft-boiled_-.-....................... 1
Toast, small piece_-................ 1
Dinner and supper:
Lamb chop, chicken, or fish_--.-------------small serving Jelly or marmalade_.................. 10 Toast, small piece_-.-.-.-.----- 1

Strain all vegetables and cereals until the 14th day. Diet for the 10th day should be continued until the 14th day when the patient will be placed on suitable diet for convalescence. If surgery was performed because of duodenal or gastric ulcer the patient should be placed on the convalescent ulcer diet.

The above diet is known as the gastro-enterostomy diet and should be ordered by this name. This diet is suitable for most post-operative gastric cases.
97. Gastric resection diet.-This diet should be continued until it is safe to place the patient on the convalescent ulcer diet. See section II, chapter 4.

|  | , |
| :---: | :---: |
| Same as first seven days gastro-enterostomy diet. | Dinner: Same as gastro-enterostomy cases except give half portions. |
|  | 2:00 PM. Fruit juice _-...-. 150 cc . |
| Eighth day | Zweiback_----.-- 1 piece. |
| Breakfast: Same as gastro-enterostomy diet except give half portions. | 4:30 PM. Supper: Same as gastro-enterostomy cases except give hal portions. |
| 7:30 AM. Fruit juice_------ 150 ce. | 6:30 PM. Fruit juice |
| 30 AM. Eggnog_-.-.-.-.-. 150 | 8:30 PM. Coco |
| Zweiback_........- 1 pie | Toast_-------------1 1 diece. |

98. Miscellaneous cases.-The following table outlines the diet suitable for most of the other surgical cases. It must be remembered that these diets should be further modified if complications are present at the time of operation or develop afterwards.

| - operation | $\begin{aligned} & \text { Notb- } \\ & \text { ing } \end{aligned}$ | Water | Water and tea | Liquid | Soft | Light | $\underset{\operatorname{lar}}{\substack{\text { Regu- }}}$ | Low 4th day <br> 2d stage | $\begin{aligned} & \text { Low } \\ & \text { fas } \\ & \text { soft } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Colostomy, 1st stage.. |  | 1 |  | 2 |  |  |  |  |  |
| Colostomy, 2d stage - |  | 1 |  | 2-3 |  |  |  | 4 - |  |
| Ileostomy - |  | 1 |  | 2-3 |  |  |  | 4- | -47\% |
| Breast |  | 1 |  |  | 2-3 |  | 4- |  |  |
| Appendectomy | 1 | 2 |  | 3-4 | 5-6 |  | 7 - |  |  |
| Gall bladder cases | 1 | 2 |  | 3-4 |  |  |  |  | 5-8 |
| Hernia | 1 | 2 |  | 3-4 | 5-6 |  | 7 - |  |  |
| Hemorrhoidectomy |  | 1 |  | 2-4 | 5 |  | 6- |  |  |
| Kidney cases | 1 | 2 |  | 3-4 | 5-6 |  | 7- |  |  |
| Operation on uterus, tubes and ovaries | 1 | 2 |  | 3-4 | 5-6 |  | 7- |  |  |
| Orthopedic cases |  | 1 |  | 2-3 | 4-6 |  | 7 - |  |  |
| Goiter |  | 1 |  | 2-3 | 4-6 |  | 7- |  |  |

Note.-Figures appearing under diet columns indicate the days as related to the date of the operation the patient should be on the diet. Minus sign after the flgures indicates the diet is to be continued until some other diet is indicated and prescribed.
99. Dental diet.-a. General.-All diets heretofore listed may be prescribed for dental cases. Liquid and soft diets are suitable as served to other patients. Light, regular, and special diets may be further modified to change their consistency only if otherwise suitable. Change in consistency means merely the food will be reduced to a state so the patient without teeth can eat it. When ordering these diets the word edentulous should precede the name of the diet desired. For instance, liquid diet; soft diet; edentulous light diet; edentulous regular diet; edentulous high carbohydrate, low fat diet. When diets are ordered in this manner the food will be prepared so the edentulous patient can eat it.
b. Extractions and fractures.-Extensive dental extractions of the maxilla or mandible require special consideration. The following diet will meet these conditions. The patient usually remains on this diet about a week or 10 days, or until the case is completed or changed by the dental officer in charge of the case. When the change is made, the patient can be returned to one of the diets mentioned in this manual, especially if the diet is further modified by changing the
consistency so that it is suitable for the edentulous patient. Below is the diet for extensive dental fractures and extractions.
7:00 AM: Fruit juice (albuminized orange juice), cereal gruel, thin with beaten egg. Coffee.
9:00 AM: Albuminized orange juice.
11:00 AM: Cream soup or strained vegetable soup, purée vegetable; thin with beaten egg added, soft custard, or ice cream. Coffee, tea or milk.
1:00 PM: Eggnog or albuminized orange juice.
3:00 PM: Fruit juice.
5:00 PM: Cereal gruel with beaten egg. Purée vegetable. Gelatin desert or soft custard.
7:00 PM: Cream soup or strained vegetable soup.
9:00 PM: Albuminized orange juice.
Each feeding to be followed by rinsing the mouth with $1-1,000$ solution of potassium permanganate.

## Section XXI

CHILDREN
General requirements__-_.................................................................................. 100
Ordering diet_-_-.-............................................................................................... 101
Food selection_............................................................................................. 102

100. General requirements.-Diets for children require special consideration due to the fact that they may require less total calories and a higher protein intake than the adult. Each of these diets may be considered a special, and unless there are definite contraindications the following general guide will be followed in the preparation of menus for these diets. These diets pertain to those between 2 and 15 years of age, and will-
a. Provide at least 3 grams of protein per kilo of body weight.
b. Provide 80 calories per kilo of body weight.
c. Carbohydrate-fat ratio remain unchanged.
d. Give at least 1 quart of milk daily.
$e$. Give at least one egg daily.
$f$. Give at least 4 ounces of orange juice daily.
$g$. Give liver once a week.
$h$. Give whole wheat bread once daily.
101. Ordering diet.-When ordering these diets state as follows: child diet, weight, 30 pounds. The weight given should be the normal weight for sex and age, rather than the actual weight. Based upon this information and upon the above principles in preparation of diets, the dietitian will prepare suitable menus without further information. If the patient's condition prevents the use of certain foods the diet may be further modified by using proper terms outlined in this chapter, for example: child, low fat, high carbohydrate diet; weight, 60 pounds.
102. Food selection.- $a$. Most foods used by adults may be eaten by children if properly prepared. Menus will be prepared from the following:
a. Bread, cereals, crackers.-All.
b. Beverages.-Milk, cocoa, eggnog, malted milk, and ovaltine.
c. Cereals.-All.
d. Eggs.-Any form except freid.
e. Dessert.-Ice cream, plain cakes, puddings, cookies, and gelatin. Avoid pastry.
f. Fruit.-All full ripe fresh, canned or cooked.
g. Meats and meat substitutes.-All.
h. Vegetables.-All, if well cooked and not too highly seasoned.

Avoid condiments, excessive sweets, fried foods, pastry, tea, and coffee.
i. Sample menus.

| Breakfast | (17) Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. | Cream soup. | Small scraped beef patty. |
| Cream of wheat. | Baked potato, stuffed | Apple-lettuce salad. |
| Egg. | with baked liver. | Bread, butter. |
| Whole wheat toast, | Mashed string beans. | Ice cream. |
| butter. | Bread, butter. | Milk. |
| Milk. | Apple sauce. |  |
| 10:00 AM. Malted milk, |  |  |
| graham cracker. | 3:00 PM. Albuminized orange juice. |  |

103. Infant feeding.-It is not intended to include instructions for feeding infants in this manual. This would require too much space. There are, however, certain data that are useful as a general guide. Some infants do well on any one of several diets and others require changing from one food to another and repeated modifications
before a suitable diet can be found. Breast feeding for the first 6 or 7 months is to be encouraged, but when artificial feeding must be substituted, the following general information is furnished as a guide:
a. Formulas.-With instructions for preparation, formulas will be furnished by the medical officer in charge of case.
b. Feedings.-Feedings are given every 4 hours for five or six feedings to normal infants for 6 months and the second 6 months every 4 hours for four feedings.
c. Calories.-The number of calories is based on 120 calories per kilo of the normal body weight for age and sex up to 1 year of age.
d. Amount given at each feeding.-First 6 months, ounces equal to age of infant in months plus 2 . Second 6 months, total amount 1,000 cc.
e. Additional articles (milk feedings as outlined above). Birth to 3 months:

Orange or tomato juice, $1 / 2$ teaspoonful increased gradually to $1 / 2$ ounce. Dilute at first.
Cod liver oil, $1 / 2 /$ teaspoonful increased gradually to 1 teaspoonful. 4 to 6 months (with 10:00 AM feeding):

Increase orange or tomato juice to 1 ounce and cod liver oil to 2 teaspoonfuls.
Cream of wheat or farina, 2 tablespoonfuls.
6 to 7 months (with 2:00 PM feeding):
Orange or tomato juice, 1 ounce.
Cod liver oil, 3 teaspoonfuls, strained vegetables, (peas, string beans, spinach, carrots, beets), 2 teaspoonfuls.
8 to 12 months:
Continue above.
Add zweiback or toast with 2:00 PM feeding.
Add mashed potato with 6:00 PM feeding.
Use whole milk at 10 months of age.
12 to 18 months ( 100 calories per kilo):
Continue above diets. Add small servings of bacon, scraped beef, chicken, and mashed potato. Give one egg daily as custard.
Give apple sauce once daily.
18 months to 2 years ( 90 calories per kilo):
Continue above. Large quantities if desired. Add cooked fruit once daily.
f. Nutritional value table.- When artificial feeding becomes necessary a table of nutritional value of the various common foods used in
infant feeding is desirable. For this reason the following values are given:*

| Article | Grams | Protein | Carbohydrates | Fats |
| :---: | :---: | :---: | :---: | :---: |
| Whole milk | 100 | 3 | 5 | 4 |
| Skimmed milk | 100 | 3 | 5 | 1 |
| Condensed milk (plain) | 100 | 10 | 11 | 9 |
| Condensed milk (sweet) | 100 | 9 | 54 | 8 |
| S. M. A. powder | 100 | 10 | 59 | 28 |
| Dryco powder. | 100 | 32 | 46 | 12 |
| Klim powder | 100 | 27 | 38 | 28 |
| Dextri-Maltose | 100 | 0 | 95 | 0 |
| Karo syrup | 100 | 0 | 85 | 0 |
| Cream of wheat (dry) | 100 | 12 | 74 | 1 |
| Farina (dry) | 100 | 11 | 76 | 1 |
| Oatmeal (dry) | 100 | 17 | 66 | 7 |

*Part of table from Diet Manual, St. Mary's Hospital, Rochester, Minn., 1934.

# Section XXII CHRONIC LEAD POISONING 

Paragraph

Deleading_--.--.-............................................................................................. 105
104. Prescription.-a. If there are acute symptoms such as colic, acute encephalopathy, prescribe-
(1) High calcium diet, 1 quart of milk and 3 grams calcium lactate per day.
(2) Atropine sulphate, if colic is severe. May have to follow with cathartics.
$b$. Two days of this treatment are usually sufficient to quiet acute symptoms.
105. Deleading.-The process of deleading is commenced only after the acute symptoms have entirely subsided. This is done as follows:
a. Phosphoric acid treatment: Low calcium diet (omit milk, eggs, green vegetables, and fruit). Phosphoric acid in dilution until the strength of lemonade. Give 2 cc of this strength every hour in a glass of water ten times a day.
b. Ammonium chloride treatment: 1 gram of ammonium chloride every hour for 10 hours throughout the day. Low calcium diet.
c. Saline cathartics to aid in elimination and counteract the associated obstipation. Sodium phosphate, 15 cc every morning.
d. Diet should be low in carbohydrates and high in fats. Ketogenic proportion to antiketogenic values should be greater than 1.5 to 1 .
$e$. Acidosis, suggested by loss of appetite, headache, and general malaise should be checked by blood $\mathrm{CO}_{2}$. Blood $\mathrm{CO}_{2}$ and urine tested for lead once weekly. (Save 24-hour specimens of urine.)
$f$. In cases where there is definite nephritis, and even after 3 weeks of the above treatment with the patient losing weight, change back to a balanced diet, though low in calcium, and give 4 grams sodium bicarbonate every hour for 10 hours throughout the day.
$g$. The last traces of lead elimination are very difficult. Therefore, after the above regime it is probably more practical to favor retention in the bones by maintenance on a high calcium diet and general systemic stimulants.

## Section XXIII

## ADDISON'S DISEASE

Low potassium diet
Classification of vegetables and fruits according to potassium content ..... 107
Potassium content of foods ..... 108
Construction of 2 -gram potassium intake diet ..... 109
Classification of cereals according to potassium content ..... 110
Directions for special cooking of vegetables, meat, and fish ..... 111
Directions for preparation of browned flour, special gravy, and beverage ..... 112
Special materials ..... 113
Special precautions required to avoid unwitting addition of potassium ..... 114Parugraph
106. Low potassium diet.-a. There are a few diseases in which a low potassium diet is a very important part of the treatment. Probably the most outstanding one is Addison's disease. With eschatin or a synthetic substitute, sodium chloride, and a low potassium diet, most cases of Addison's disease can be controlled and made comfortable. The preparation of a low potassium diet is not an easy task and requires considerable attention to detail and accuracy. In preparing a diet low in potassium it will be noted that most proteins are rather high in potassium, yet patients in most cases requiring this diet are thin from a certain amount of wasting and need the protein. If the potassium for the daily menu must be kept down to a certain figure, it is then important that those planning and preparing the diet know the potassium content of every item of food in the menu. It is just as important to know the potassium content of every item in the menu for a low potassium diet as it is to know the sugar content in a diabetic diet. It is therefore necessary to select the proper items, weigh them, and properly prepare those which require extraction of
the potassium. Failure to do this and not carry out the procedures in detail will result in a diet far too high in potassium content.
$b$. In order to get a well-balanced diet and one that is palatable and will be eaten by the patient, many items of food will have to be specially prepared in order to rid them of most of the potassium. Research work and clinical investigation have been done on a sufficiently large group of foods so an attractive menu may be prepared by resorting to-
(1) Careful selection of items.
(2) Proper preparation of those items that contain considerable potassium so that the total intake of this mineral will not exceed 2 grams daily (see par. 109). In preparation of foods the water in which vegetables are cooked is discarded, hence careful consideration must be given to the vitamin and mineral content of the diets.
c. Through courtesy of Sister Mary Victor, B. S., Fellow in Nutrition, Mayo Foundation, tables classifying fruits and vegetables, potassium content of common food items, substitute foods, detailed instructions for preparation, and some recipes are given in paragraphs below.
107. Classification of vegetables and fruits according to potassium content.- $a$. Vegetables.-Fresh vegetables may be consumed raw or after being cooked in the ordinary manner.


## 108. Potassium content of foods.

| - Name | Average potassium content of 100 grams | Name | Average potassium content of 100 grams |
| :---: | :---: | :---: | :---: |
| Vegetables in- | Mg | Bread and cereal products | Mg |
| Group I | 75 | Continued. |  |
| Group II | 125 | Oatmeal, dry | 339 |
| Group III | 200 | Puffed wheat | 117 |
| Group IV | 300 | Rice, polished, | 68 |
| Group V | 400 | Rice, brown, dry | 561 |
| Group VI | 500 | Tapioca | 39 |
| Fruits in- |  | Wheat bran | 1,217 |
| Group I. | 75 | Fats: |  |
| Group II | 125 | Bacon, fat, raw | 160 |
| Group III | 200 | Butter | 9 |
| Group IV | 300 | Margarine | 48 |
| Group V | 400 | Mayonnaise | 7 |
| Fruits, dried (all kinds) | 888 | Dairy products: |  |
| Dried beans | 1, 201 | Cheese. | 187 |
| Potato chips | 918 | Cheese, cottage | 177 |
| Meats and fish: |  | Cream. | 126 |
| Meat, raw (all kinds) | 372 | Eggs | 141 |
| Fish, raw (all kinds) | 323 | Ice cream, commercial. | 169 |
| Anchov | 152 | Milk, butter | 151 |
| Caviar | 422 | Milk, whole | 150 |
| Clams, round | 131 | Concentrated sweets: |  |
| Clams, soft, long | 212 | Honey | 386 |
| Cod, dried and salted. | 31 | Jelly made with fruit |  |
| Crab, cooked or canned. | 260 | juice | 126 |
| Lobster, cooked or |  | Maple syrup | 208 |
| canned | 258 | Molasses | 1, 349 |
| Oysters, large, raw | 145 | Sugar, white |  |
| Oysters, small, raw | 47 | Sugar, brown | 265 |
| Salmon, canned. | 320 | Candy, pure sugar | 4 |
| Shrimp, canned | 122 | Beverages: |  |
| Sardines, canned in oil. | 433 | Apple cider | 95 |
| Meat extracts | 4,160 | Grape juice | 106 |
| Bread and cereal products: |  | White wines | 56 |
| Bread, white | 108 | Red wines | 75 |
| Bread, whole wheat | 208 | Sweet wines | 134 |
| Bread, rye | 151 | Malaga | 165 |
| Cornflakes | 132 | Sherry | 186 |
| Cornmeal | 213 | Bordeaux | 83 |
| Cream of wheat, dry | 106 | Champagne | 114 |
| Farina | 120 | Beer | 72 |
| Flour, white | 115 | Tea, dried leaves | 1,689 |
| Grapenuts | 342 | Coffee, roasted bea | 1, 651 |
| Macaroni, dry | 130 | Postum | 3, 238 |

## MEDICAL DEPARTMENT

Potassium content of foods-Continued.

| Name | Average potassium content of 100 grams 100 grams | Name | Average potassium content of 100 grams s. |
| :---: | :---: | :---: | :---: |
|  | Mo | Miscellaneous: | Mo |
| Kaffee hag, roasted bean_ | 1, 647 | Agar | 27 |
| Tea, beverage | 20-40 | Baking powders, tar- |  |
| Coffee, beverage | 70-150 | tra | 9-12,000 |
| Condiments, ete.: |  | Baking powders, phos- |  |
| Citron, preserved | 17 | phate.-.----... | 0 |
| Horseradish | 445 | Baking powders, alu- |  |
| Mustard | 761 | minum | 0 |
| Olives, green | 61 | Cocoa | 940 |
| Olives, ripe | 3 | Cream of | 20, 720 |
| Paprika | 2, 075 | Gelatin | 0 |
| Pepper, black | 1, 140 | Nuts (all kinds) | 577 |
| Vinegar, cider | 165 |  |  |
| Coconut, dried_ | 544 |  |  |

109. Construction of 2-gram potassium intake diet.-Careful measuring of all food is necessary.
a. Sample menu.

| Food or permitted substitute (see d below) | Grams | Amount |
| :---: | :---: | :---: |
| Breakfast |  |  |
| Fruit from group II, preferably raw (see pars. $107 b$ and 108 for choice of fruit). | 100 | 1 average size serving. |
| Cereal from group I | 15 | 1 average size serving. |
| Egg | 50 | 1. |
| Bacon | 10 | 2 small strips. |
| Bread, white (may be toasted) | 30 | 1 slice. |
| Butter | 10 | 1 square. |
| Cream | 90 | 1/2 cup, scant. |
| Dinner |  |  |
| Meat, specially cooked | 75 | 1 fairly large serving. |
| Potato, specially cooked | 100 | 1 serving (1/2 cup). |
| Vegetable from group I | 100 | 1 serving ( $1 / 2$ cup). |
| Bread, white | 30 | 1 slice. |
| Butter | 20 | 2 squares. |
| Fruit from group II | 100 | 1 serving ( $1 / 2$ cup). |
| Cream | 30 | 2 tablespoons. |
| Milk | 200 | 1 glass. |

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a. Sample menu-Continued.

| Food or permitted substitute (see $d$ below) | Grams | Amount |
| :---: | :---: | :---: |
| Supper |  |  |
| Egg | 50 | 1. |
| Rice, dry weight | 25 | 1 serving (cooked, $1 / 2$ cup). |
| Vegetable from group IV | 100 | 1 serving. |
| Mayonnaise | 15 | 1 tablespoon. |
| Bread, white | 30 | 1 slice. |
| Butter | 20 | 2 squares. |
| Fruit from group II | 100 | 1 serving ( $1 / 2$ cup). |
| Cream | 30 | 2 tablespoons. |
| Cheese | 20 | 1 cubic inch. |

b. Allowances and additions.-(1) One cup of weak coffee and two cups of weak tea are allowed daily. Carbonated beverages, either sweetened or unsweetened, may be added as desired.
(2) The menu as written with coffee cream provides 2,700 calories and 70 grams of protein. The allowance of butter and mayonnaise should be increased as much as necessary to maintain weight or to promote a gain in weight. Whipping cream should replace coffee cream if more calories are needed. Sugar and pure sugar candies should be added if desired and should be added in generous quantities if more calories are needed.
(3) Salt may be used for seasoning as desired. Pepper and vinegar are allowed in moderation. Ripe olives, gelatins, and specially prepared gravy may be added as desired. The content of potassium in these foods is very low. This diet may be deficient in B vitamins, therefore it should be supplemented by administration of a vitamin concentrate.
c. Unpermitted food.-Foods to be strictly avoided because of high content of potassium include-

Soups and broths containing meat stock or meat extracts.
Gravies, except those specially prepared.
Catsup, chili sauce, and mustard.
Dried fruits such as dried apples, prunes, dates, figs, raisins, etc.
Dried vegetables such as beans and peas.
Nuts and peanut butter.
Molasses.
Caviar.
Fruit juices except those listed.
Chocolate and cocoa in the form of beverage or candy.

Fruit drinks except those specially prepared.
Postum. Bran. Tartrate baking powders.
Spinach except specially cooked or canned.
d. Permitted substitutes.- One of the following foods in the quantity stated may be substituted for foods named.
(1) Fruit in group III, 100 gm (one average size serving, about 1/2 cup) (gm approximate measure):
(a) , Fruit from-

| Gm | Cup |
| ---: | :---: |
| 265 | $11 / 3$ |
| 160 | $3 / 4$ |
| 65 | $1 / 3$ |
| 50 | $1 / 4$ |

(b) Vegetable from-

$11 / 3$
Group II ............................................................................ 160 3/4
Group III.................................................................. 100 $1 / 2$
Group IV .................................................................... 65 $1 / 3$
Group V 50 $1 / 4$
 $11 / 3$
Group IV ..................................................................... 65
$1 / 3$
Group V.......................................................................... 50 1/4
(2) Specially cooked potato, 100 gm (one average size serving, about 1/2 cup):

| (a) Vegetable from- | Gm | Cup |
| :---: | :---: | :---: |
| Group I. | 165 | $3 / 4$ |
| Group II | 100 | 1/2 |
| Group III | 65 | 1/8 |
| Group IV | 40 | 1/4, scant |
| (b) Fruit from- |  |  |
| Group I | 165 | 3/4 |
| Group II | 100 | 1/2 |
| Group III | 65 | 1/3 |
| Group IV | 40 | 1/4 |
| Group V | 30 | 1/8 |

(3) Vegetables in group $I, 100 \mathrm{gm}$ :
(a) Vegetable from-
Group II ................................................................. 60
Group III
40
(b) Fruit from-
Group I
100
Group II ................................................................. 60

Cup
(4) Fruit in group II, 100 gm -Continued.
(b) Vegetable from-


Cup

Group III_-...-................................................................. 65 1/3
Group IV ...................................................................... 40
1/4

Vegetables in group $I V, 100 \mathrm{gm}$ :
(a) Vegetable from-

Group I....................................................................... 400
Group II_...................................................................... 240 11/4
Group III ................................................................. 150 3/4, scant
Group V .......-.-............................................................... 75 1/3
(b) Fruit from-

Group I
Group II............................................................................ 240 11/4

Group IV ........................................................................ 100 1/2
Group V ........................................................................... 75 1/8
(6) One egg:

|  | Gm |  |
| :---: | :---: | :---: |
| Canned crab (specially cooked) | 50 | 1 average serving. |
| Canned shrimp. | 60 | 1 average serving. |
| Canned salmon | 25 | 1 rounded tablespoon. |
| Sardines, canned in oil | 15 | 1 sardine, 3 inches long. |
| Fish (cooked in ordinary manner) | 25 | 1 small serving. |
| Oysters, large | 50 | 3 or 4. |
| Meat (specially cooked) | 75 | 1 fairly large serving. |
| Cheese | 40 | 2 cubic inches. |
| Cottage cheese | 40 | $1 / 4$ cup. |
| Milk | 50 | 1/4 glass. |

(7) Specially cooked meat.-One egg is equivalent in content of potassium to 75 grams (one serving) of specially cooked meat. Therefore, any one of the egg substitutes may be taken in place of the meat.
(8) Milk.-(a) Cream sauce for vegetables and meat may be taken providing an equal portion of milk is omitted.
(b) Cream vegetable soup may be taken providing equal portions of milk and vegetable are omitted.
(c) Ice cream (vanilla flavor) may be taken providing an equal portion of milk or cream is omitted.
(9) Potato either baked or cooked in ordinary manner.-(a) One hundred grams (one medium size) potato may be taken providing the following are omitted from the day's food allowance:

1. Two hundred grams (one glass) milk, one egg, and 100 grams (one serving) of specially cooked potato.
2. One hundred grams (one serving) vegetable from group IV, one egg, and 100 grams (one serving) of specially cooked potato.
(b) Fifty grams ( $1 / 2$ medium size) potato may be taken providing the following are omitted from the day's food allowance: 100 grams ( $1 / 2$ glass) milk and 100 grams (one serving) specially cooked potato.
(c) Fifteen grams potato chips ( 10 pieces) may be taken providing 100 grams (one serving) of specially cooked potato are omitted from the day's food allowance.
(10) Meat and fish cooked in ordinary manner.-(a) One hundred grams (one large serving) meat or fish, broiled, baked, fried, or roasted, may be taken providing the following are omitted from the day's food allowance: 200 grams (one glass) milk and 75 grams (one serving) of specially cooked meat.
(b) Fifty grams (one medium size serving) meat or fish, broiled, baked, fried, or roasted, may be taken providing the following are omitted from the day's food allowance: 100 grams ( $1 / 2$ glass) milk and 75 grams (one serving) specially cooked meat.
(11) Cereals and breadstuffs.-(a) One serving of cereal from group II may be used in place of a cereal from group I, providing one slice of bread is omitted.
(b) In place of 100 grams ( $1 / 2 \mathrm{cup}$ ) cooked rice, 15 grams ( $1 / 2$ slice) white bread may be used.
(c) In place of 30 grams (one slice) bread, three soda crackers may be used.
(d) In place of 30 grams (one slice) white bread, one of the following may be used:

3. Classification of cereals according to potassium content.

Group I
Farina.
Cream of wheat.
Food of wheat.
Puffed wheat.
Puffed rice.
Rice krispies.

Group II
Cornflakes.
Oatmeal.
Grapenuts.
Maltex.
Malt-o-meal.
Pettijohns,
111. Directions for special cooking of vegetables, meat, and fish.-a. Vegetables.-(1) General.-Vegetables, like potatoes, turnips,
rutabagas, etc., should be peeled and cut into small thin pieces about $3 / 4$ inch square and $1 / 8$ inch thick. Cabbage, spinach, and other leaf vegetables should be shredded. Cauliflower should be broken into flowerets and the flowerets partially quartered; that is, split crosswise at the bud end. Brussels sprouts likewise should be partially quartered. String beans and asparagus should be cut into $1 / 2$-inch pieces. Peas are left whole. For cooking use a deep, narrow kettle rather than one that is wide and shallow. After being prepared, the vegetables should be plunged into boiling, salted water. Use $11 / 2$ teaspoon of salt for each quart of water. Cook gently as too vigorous boiling may cause the vegetable to break into pieces. The proportion of water to vegetable as well as the approximate length of cooking are given in the table in (3) below. It is impossible to give the exact time for cooking any one vegetable. The length of the cooking period will vary with each vegetable. Test for tenderness by piercing with a fork. After the vegetable is tender, drain and gently heat over flame until dry. Season with salt and with butter, cream, or cream sauce.
(2) Parchment paper method.-When cooking corn, beets, and tomatoes (either the raw, cooked or canned produce may be used), tie in moistened parchment paper, immerse in boiling water, and cook for length of time specified in the table. Discard the cooking water. The vegetable after being removed from the parchment paper bag should be seasoned with butter and salt and served hot.
(3) Table for special cooking.-Table prepared for one cup of vegetable.

| Vegetable | $\begin{aligned} & \text { Water } \\ & \text { (cups) } \end{aligned}$ | Time (minutes) | How cooked |
| :---: | :---: | :---: | :---: |
| Asparagus | 8 | 10 | Uncovered. |
| Cabbage | 8 | 10 | Do. |
| Cauliflower | 8 | 10 | Do. |
| Spinach. | 8 | 10 | Do. |
| Brussels sprouts | 8 | 10 | Do. |
| Broccoli | 8 | 10 | Do. |
| Onions | 6 | 30-40 | Do. |
| Peas. | 6 | 20-30 | Do. |
| String beans | 8 | 20-35 | Covered. |
| Carrots | 6 | $\begin{aligned} & 25 \text { (young) } \\ & 30-40 \text { (old) } \end{aligned}$ | $\begin{aligned} & \text { Do. } \\ & \text { Do. } \end{aligned}$ |
| Kohlrabi | 6 | 30-40 | Do. |
| Turnips | 6 | 25-30 | Do. |
| Parsnips | 6 | 25-30 | Do. |
| Rutabagas | 6 | 25-30 | Do. |
| Potato...- |  | 15-25 | Do. |

(3) Table for special cooking-Continued.

| Vegetable | Water (cups) | Time (minutes) | How cooked |
| :---: | :---: | :---: | :---: |
| Squash | 6 | 20-30 | Covered. |
| Pumpkin. | 6 | 20-30 | Do. |
| Beets | 6 | 40 | In parchment paper. |
| Corn | 6 | 30 | Do. |
| Tomatoes | 6 | 30 | Do. |

b. Meat.-The less tender cuts of meat may be used for this purpose but the selection need not be limited to these. Sear the meat, cut into small pieces about $1 / 2$ inch square and $1 / 4$ inch thick. Transfer meat to a sheet of moistened parchment paper. Tie paper with white string into the form of a bag and immerse the bag in boiling, salted water, using the proportion of 1 part of meat and 8 parts of water. Example: for $1 / 2$ cup of cubed meat, use 4 cups or 1 quart of water; for each quart of water use 2 teaspoons of salt. Simmer (cook just below the boiling point) for 2 hours. The bag containing the meat must be kept under water during the entire cooking period. Evaporation of water can be prevented to a large extent by using a covered kettle, but in case of evaporation the water should be replaced. At the end of 2 hours remove the bag from the water, cut the string, and empty contents into a convenient utensil. The juice surrounding the meat should be used with it. In meat and fish cooked according to this method the reduction of potassium averages 75 percent.
c. Fish.-For special cooking of fish follow the directions given for meat. Canned fish may be treated in the same way, but need not be cooked longer than 1 hour.
d. Suggested methods for serving specially cooked meat and fish.-One or two drops of worcestershire or A-1 sauce may be added to the meat before serving. Larger amounts of meat sauce must not be used.

Creamed.
Scalloped.
Salads.
Sandwiches.
Meat pies.
112. Directions for preparation of browned flour, special gravy, and beverage.-a. Browned flour.-Spread flour in a thin layer on a flat surface. Bake in a hot oven, stirring occasionally
until browned evenly throughout. This may be made in quantity and used as needed for special gravy. The color may be light or dark as preferred. The thickening power will vary accordingly.
b. Special gravy.

| Water, boiling, 1 cup. | Salt, $1 / 2$ to 1 teaspoon. |
| :--- | :--- |
| Browned flour, 3 table- | Bay leaf, if desired. |
| spoons. | Cloves, if desired. |

Fat (bacon fat, butter, or butter substitute), 2 tablespoons.
Mix the flour with $1 / 4$ cup cold water to form a smooth paste. Add gradually to the hot water, stirring and cooking until the sauce is thickened and the starch is cooked. Add the fat and seasonings and cook 1 minute longer. Strain before serving.
c. Beverage.- One quart will provide the amounts of sodium and chloride usually prescribed in the treatment of Addison's disease.

Concentrated fruit beverages, 3 ounces, $1 / 2$ cup (see $c$ below).
Sodium chloride (table salt), 10 grams, 2 teaspoons.
Sodium citrate, 5 grams, 1 teaspoon.
Water to make 1 quart.
Serve ice cold.
113. Special materials.-a. Standard measuring cups and standard measuring spoons (may be purchased at any hardware retail store).
b. A satisfactory concentrate of vitamin B complex is Abbott's vitamin B capsule. One capsule is reputed to contain 150 International units ( 200 Sherman units) of $\mathrm{B}_{1}$, and 40 Sherman units of $\mathrm{B}_{2}$. Therefore one capsule taken daily ought to suffice for the supplementary purpose intended. Analysis indicates a potassium content not exceeding 10 milligrams per capsule. Other concentrates of vitamin B complex are found to be higher in their content of potassium. Some of them contain so much potassium that their use will defeat the purpose of the diet.
c. The fruit beverage called for in the preparation of the salt drink is Ariston Bever-Ade. The content of potassium in this fruit beverage is very low.
d. The parchment paper called for in the special cooking of vegetables and meats is the 25 -pound weight vegetable parchment. It is important to secure the 25 -pound weight, because the parchment paper more generally on the market, called patapar, is heavier and unsatisfactory.
114. Special precautions required to avoid unwitting addition of potassium.-The patient must not be given food or food accessories other than those listed on the diet and substitutions other than those listed should not be made, unless it is known that their potassium content does not exceed the potassium content of the food for which they are to be substituted. The medical officer must beware in prescribing medications for habitual use unless he has reliable information about their potassium content. For instance, liver extract may be indicated to treat the anemia which so frequently appears as a complication of Addison's disease. Analysis indicates that Lederle's concentrated solution of liver extract in 1-cc ampules contains only 1 mg of potassium per ampule. Other extracts of liver, however, may contain larger amounts. The content of potassium in "Cupron" is very low, 0.4 mg per capsule.

## Chapter 4

## INSTRUCTION PAMPHLET DATA FOR PATIENTS



## Section I

## PURPOSE OF PAMPHLETS

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115. Necessity for written instruction to patients.-After a patient has been carefully studied at a hospital or clinic, and it has been determined that dietary measures should be instituted as a part of the treatment after leaving the hospital, it is necessary that written instructions be furnished. Many dietary procedures are required only when in the hospital and in such cases the problem is simplified and written data for the patient are not required. Too often, medical officers rely on oral instructions to patients, who become confused and are unable to remember details sufficiently to tell those responsible for the preparation of their food. Instruction data to patients should not only cover what food is permitted, but the manner of its preparation and general information regarding exercise, management of constipation, use of drugs, or any other data pertinent to the disease being treated.
116. Method.-The best method of assuring adequate written instruction to the patient is the preparation of pamphlets for those diseases which will require continuation of dietary measures after discharge from hospital. These pamphlets will save much of the medical officer's time and insure better cooperation on the part of the patient. Because of this the material for the pamphlets on the most common and important diseases is outlined in the sections below.

## Section II <br> CONVALESCENT ULCER

Paragraph












117. General.-a. Purpose.-These instructions include recipes and cooking instructions, and are prepared to answer various inquiries and to serve as a guide in the dietetic management of gastric and duodenal ulcers. The proper diet and preparation of food, eaten in proper manner and amount, is a prime requisite for the future improvement and health of ulcer-bearing patients.
b. Instructions.-(1) Avoid undue nervous or physical strain.
(2) Tobacco should be avoided.
(3) Eat slowly and avoid overeating.
(4) Drink a glass of milk between 10:00 and 11:00 AM, between 4:00 and 5:00 PM, and at bedtime.
(5) Avoid constipation. If continually constipated consult your medical officer.
(6) Keep the teeth in a healthy condition.
(7) Do not become unduly finicky about food or abdominal condition, real or imaginary, if eating and living in a normal manner. This rule applies particularly to patients upon whom an operation has been performed.
118. Suggestions for meals.-Consult recipes for substitutes.

| $\begin{gathered} \text { Breakfast } \\ (7: 00 \text { or } 8: 00 \mathrm{AM}) \end{gathered}$ | $\begin{gathered} \text { Dinner } \\ \text { (12:00 Noon) } \end{gathered}$ | $\begin{gathered} \text { Supper } \\ \text { (6:00 PM) } \end{gathered}$ |
| :---: | :---: | :---: |
| Stewed prunes without the skins, or sweet orange juice, or apple sauce. | Cream vegetable soup or purée. <br> Baked potato; scraped beef balls. | Cream soup. <br> Creamed rice or cereal. <br> Poached egg on toast, or cottage cheese. |
| Six ounces cream of wheat or farina. <br> One teaspoonful of sugar. | One square fresh butter. Dish of well-cooked vegetable put through sieve. Slice toast. | A serving puréed vegetables. <br> Baked apple without skin, with cream and sugar. |

One piece zweiback or dry toast.
One soft-cooked egg.
Postum, or cupful of equal parts hot water and cream.
Two ounces of orange juice.

10:00 AM. Glass of milk or malted milk.

Cup of custard.
One glass of milk.
Two ounces of orange juice.

4:00 PM. Glass of milk or malted milk.

Cream soup.
Creamed rice or cereal.
Poached egg on toast, or cottage cheese.
A serving puréed vegetables. with cream and sugar.

Bedtime. Glass of milk. Two ounces orange juice.
119. Post-hospitalization diet.- $a$. General.-The principles underlying this diet are the selection of foods that do not cause chemical, mechanical, or thermal irritation to the stomach. Such foods should be easily digested, nourishing, and in a finely divided state. Foods and liquids should not be eaten too hot or too cold. The diet should be made up of such articles as fresh milk and cream, cooked cereals, cream soups, or vegetable purée, cooked fruits and vegetables without skins and seeds, custard, simple puddings, fresh soft-boiled eggs, toast made from stale bread, fresh butter, gelatin, plain ice cream, and scraped beef balls. Later, tender meats, broiled, stewed or baked, and fresh fish may be added.
b. Food selection guide.

| Food | Permitted | Avold |
| :---: | :---: | :---: |
| Beverage | Cocoa or chocolate, cream and hot water, chocolate malted milk, eggnog, | Acid drinks, alcohol, cof fee and tea. Too hot or too cold liquids. |
| Brea | Well done toast made from stale white or graham bread, graham crackers, zweiback. | Hot biscuits, fresh bread, bran bread, muffins. |

b. Food selection guide-Continued.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Fruit | Baked apple without skin or seeds, baked banana, baked or stewed peaches, canned peaches, stewed prunes without skins, strained apple sauce, raw bananas (very ripe). | All cooked fruits containing a large amount of acid or too much sugar in preparation. Raw and dried fruits. |
| Nuts |  | All kinds. |
| Salads and salad dressing. | Mayonnaise occasionally .-. | Highly seasoned dressings of all kinds. |
| Salt and condiments.-- | Salt very sparingly | Catsup, highly seasoned sauces, horseradish, mustard, pepper, relishes. |
| Sweets |  | All candy, jams, sundaes, etc. |
| Soups | Cream vegetable soup, purées. | Bouillons, canned soups, meat broths, meat soups. |
| Vegetables | Asparagus (tender), beets, cauliflower, carrots, potatoes, baked or mashed, purée of string beans, | All raw or coarse vegetables and tomatoes. |
|  | These must all be well cooked, the tough fiber removed, and strained through vegetable sieve. |  |

120. Beverages.-a. Eggnog.-Beat egg thoroughly; add two teaspoonfuls of sugar, a glassful of milk and a few drops of vanilla; mix thoroughly.
b. Egg broth.-Beat egg thoroughly, and add half a teaspoonful of sugar and a pinch of salt. Over this pour a glass of hot milk and serve immediately. Hot water or cream soup may be used in place of milk.
c. Egg cordial.-Beat the white of an egg until stiff; add a tablesspoonful cream and two teaspoonfuls of sugar and one-half teaspoonful of vanilla.
d. Barley water.-One tablespoonful barley flour, 1 pint boiling water, 1 teaspoonful salt, 2 tablespoonfuls cold water. Rub the barley flour (which may be obtained at any pharmacy), salt, and cold water to a paste; add to the boiling water, stirring constantly. Let boil 5 minutes, then cook in a double boiler 30 minutes and strain.
121. Milk products, cheese, and gruels.-a Milk.-(1) Care.Milk readily absorbs odors, flavors, and impurities; it is one of the best soils for the growth and multiplication of certain disease germs. Bacteria are introduced from dust arising from cow's body, from the clothing or hands of the milker, from the milk vessels, or from the water in which these have been washed. Bacteria once admitted to the milk begin to multiply; warmth is favorable to their growth, hence it is desirable to cool the milk as soon as it is drawn to keep it at as low a temperature as possible. Besides being kept cool, milk that is delivered in bottles and stored in refrigerators with other foods should be tightly sealed. If the bottles are to be opened several times and the caps cannot be replaced, close the neck of the bottle with cotton. When in doubt about the sources or quality of the milk, it should be pasteurized.
(2) Use.-Milk and milk products have a valuable use in stomach and duodenal ulcers and post-operative convalescence. A glass of rich milk is nourishing, easily digested, and combines with the acid of the stomach, thereby relieving distress and promotes healing. If raw milk should disagree, lime water or soda may be added; or it may be diluted with barley water. Peptonized milk will be found to agree with most individuals.
b. Peptonized milk.-Put in a glass jar 1 pint of milk and 4 ounces of cold water; add 5 grains of extract of pancreas (powdered) and 15 grains of bicarbonate of soda. (The contents of one of "Fairchild's Peptonizing Tubes" may be used in place of the pancreas extract and soda.) After mixing thoroughly, place the jar in water as hot as can be borne by hand (about $115^{\circ} \mathrm{F}$.). This temperature should be maintained from 6 to 20 minutes. At the end of this time milk may be placed upon ice until required. If the milk is to be kept for any length of time, it should be brought to boil to prevent the formation of too much peptone, which renders the milk bitter.
c. Whey.-To $1 / 2$ pint of fresh milk heated lukewarm ( $115^{\circ} \mathrm{F}$.) , add 1 tablespoonful of essence of pepsin, and stir just enough to mix. When milk is firmly coagulated, beat with a fork until the curd is finely divided and then strain. For flavoring purposes, $1 / 4$ teaspoonful of lemon juice may be added.
d. Malted milk.-One tablespoonful of malted milk; 2 tablespoonfuls of warm water, few grains of salt. Make a paste with the above. Add 1 scant cupful of water, cold or hot, or milk to which cream may be added. Add the liquid gradually, stir briskly; serve hot.
e. Milk and cereal water.-A valuable method of preparing milk for patients with whom it disagrees is to mix equal parts of milk and
thoroughly cooked barley, rice oatmeal, or arrowroot water, and boil them together for 10 minutes. This may be served plain or flavored by cooking with a raisin or a very small piece of stock cinnamon which should be strained out before serving.
f. Cottage cheese.-Let fresh milk stand in a warm room from 1 to 3 days, or until the curd separates from the whey. Turn the curd into a coarse cotton bag and let hang in a cool dry place about 24 hours, or until the curd is free from whey. Add salt and sweet cream to taste. In winter the process may be hastened by heating thick soup or clabbered milk over hot water, but if the water is too hot, a tough cheese results. The cheese is most rich and creamy when the separation takes place at a low temperature, that is, about $100^{\circ} \mathrm{F}$.
g. Egg and buttermilk mixture.-Beat the white of one egg and 1 to 4 ounces of cream together. Pour into a glass and fill with fresh buttermilk. Stir well.
122. Custards.-a. Rules for custard.-The eggs should be thoroughly mixed, but not beaten light, the sugar and salt added, and then the hot milk added slowly. Custards must be cooked at a moderate temperature. If a soft custard curdles, put it in a pan of cold water and beat until smooth.
b. Soft custard.-Add 2 tablespoonfuls of sugar and a few grains of salt to lightly beaten egg. Pour 1 cup of milk over beaten egg mixture, stirring constantly. Cook in a double boiler until mixture is creamy. Remove from fire at once, add a few drops of vanilla and chill.
c. Chocolate custard.-Melt $1 / 2$ ounce of chocolate, add to the milk, and proceed as for soft custard.
d. Baked custard.-Proceed as for soft custard, but pour the custard into baking cups. Place the cups in a deep baking pan, and fill the pan nearly as high as the cups with boiling water. Place in a moderate oven and bake 20 minutes or longer, according to the size of the cup. When done, a knife thrust into the custard comes out clean; if it is not done the knife comes out covered with custard.
e. Junket with egg.-Beat 1 egg to a froth, add 2 teaspoonfuls of sugar, combined with 1 cup of warm milk, then add one-half junket tablet, dissolved in 1 tablespoonful of cold water. Let it stand in a warm place until firm. Chill.
123. Cereals.-a. Cereals require thorough cooking. Most cereals should be cooked in a double boiler. Cereals for breakfast may be cooked the day before, but should not be stirred while reheating. A tablespoonful or two of cold water on top will prevent a hard scum from forming while standing. Use one-half teaspoonful of salt to
each cupful of water. Have water boiling. Add cereal gradually and boil for 5 minutes. Place over boiling water or in a fireless cooker to cook slowly for a long time.
$b$. Any cereal mush may be thinned with water, milk, cream, strained, and made directly from the grain or flour. Gruels should be thin, not too sweet, and served quite warm.

| Cereal | Quantity to 1 cup water | $\begin{gathered} \text { Time of } \\ \text { boiling } \\ \text { (minutes) } \end{gathered}$ | Time of cooking (hours) |
| :---: | :---: | :---: | :---: |
| Rolled oats | 1/3 cup. | 5 | $11 / 2$ |
| Cream of wheat | 1/5 cup | 3 | 1 |
| Steamed rice | 1/5 cup. | 3 | $11 / 2$ |
| Boiled rice | 1/8 cup or 2 tablespoons | 20 |  |

124. Soups.-a. General.- (1) Only cream soups and purées are considered as they are more suitable, the meat soups tending to stimulate the flow of gastric juice. After 4 to 6 months the patient may partake of any form of soup, but should avoid undue amounts of salt, pepper, and other seasonings. The cream soups and purées are highly nutritious. All soups must be strained for first few months. The cream soups allowed are mushroom, celery, string bean, beet, carrot, spinach, kale, potato, corn, lima bean, and pea.
(2) A crisp preparation such as a cracker, thin crisp toast, or croutons may be served with soup. The method of preparing these soups is the same as a standard cream soup, only substitute the vegetables.
b. Croutons.-Cut bread into $1 / 2$-inch cubes. Toast in a moderate oven.
c. Breadsticks.- Cut stale bread into pieces 3 inches long and $1 / 2-$ inch thick. Toast in a moderate oven.
d. Cream of celery soup.-Cook 1 cup diced celery in 1 pint of water to which $1 / 2$ teaspoonful of salt has been added until tender. The quantity of celery and liquid should equal 1 pint. To this mixture add 1 pint of white sauce.
e. White sauce.-Three tablespoonfuls flour, 3 tablespoonfuls butter, 2 cups milk, 1 teaspoonful salt. Rub together the butter and the flour, adding gradually the hot (but not scalding) milk. Cook in a double boiler 10 or 15 minutes, stirring frequently. Add salt.
f. Cream of corn soup. - Turn one can of corn into a saucepan, add a little water and cook gently over the fire for a few minutes. Prepare a white sauce of 1 quart of milk, 2 tablespoonfuls salt, 3 table-
spoonfuls flour and 3 tablespoonfuls butter. Turn the corn into the white-sauce and cook together for a few minutes. Strain.
g. Cream of potato soup. -Wash and pare two medium sized potatoes, slice and cook in sufficient boiling salted water to cover. Cook until tender. Drain the liquid into a pint measure, and mash the potatoes; add sufficient milk to fill the pint measure and add to mashed potatoes. Add 2 teaspoonfuls grated onion, $1 \frac{1}{2}$ teaspoonfuls salt and $1 / 4$ teaspoonful celery salt to the liquid. Rub 1 tablespoonful flour and 1 tablespoonful butter together and pour over it (stirring meanwhile) the hot liquid. Cook over the fire until thick. Add 2 tablespoonfuls chopped parsley just before serving.
h. Cream of green pea soup.-Press boiled or canned green peas through a colander to make a purée. To 1 cup of purée, add 1 teaspoonful salt, 3 cupfuls milk; heat to scalding. Rub 2 tablespoonfuls flour, 2 tablespoonfuls butter together and stir in the hot liquid; return to the kettle; cook 5 minutes, and serve.
i. Cream of tomato soup.-Avoid for 1 month. Heat the tomatoes, strain, and add the soda while hot, make a white sauce, and add the tomato juice. Serve immediately.
j. Oyster soup.
$1 / 2$ pint of oysters.
1 quart milk.
3 tablespoons butter.
$1 / 4$ cupful flour.
$1 / 2$ cup celery leaves and stalks. $1 / 2$ onion.
2 sprigs parsley.
Salt as needed.

Pour a cup of cold water over the oysters, and look them over carefully to remove any bits of shell. Strain the liquid thru a cheese cloth, then boil and skim; add to this the oysters and let simmer until they look plump and edges curl; then stir them into the sauce made by cooking the flour and the butter, creamed together, in the milk, scalded with the onion, celery, and parsley before adding the thickening to the milk. Part cream gives a much more delicious soup.
125. Vegetables.-a. Cooking.-(1) Time table for cooking vegetables in water, time in minutes unless otherwise stated.

|  | Vegetable | Minutes |
| :---: | :---: | :---: |
| Asparagus |  | 25 to 30 |
| Beets (old) |  | 180 to 240 |
| Beets (young) |  | 45 |
| Carrots |  | 35 to 45 |
| Cauliflower |  | 20 to 30 |
| Celery |  | 20 to 30 |


| mati matix | Vegetable d $^{\text {a }}$ | Minutes |
| :---: | :---: | :---: |
| Green peas | 9r | 20 to 40 |
| Macaroni |  | 45 to 60 |
| Potatoes, boiled |  | 25 to 30 |
| Spinach. |  | 30 to 45 |
| String beans |  | 30 to 45 |
| Turnips |  | 45 to 60 |

(2) Wash, pare, peel, or scrape vegetables. Cut into pieces of convenient size. Add boiling, salted water, using 1 teaspoonful of salt to pint of water. Cook until tender.
(3) The primary objects to be attained in the cooking of vegetables are to soften the cellulose or fiber and to cook the starch. All vegetables should be crisp and firm when put on to cook. If wilted they may be freshened by soaking them in cold water or by wrapping in a damp cloth and placing in the refrigerator for an hour or more.
(4) Strong juice vegetables should not be covered while they are cooking. Water in which vegetables have been boiled may be saved and used in making soups.
(5) Vegetables are important on account of their mineral salts, their vitamins, and for the bulk which they lend to the food mass. Vegetables, like meats and fruits, especially when eaten for the first 2 months after operation, should be carefully prepared and served in a finely divided state.
b. Sauces.-Certain sauces are desirable but not essential. White sauce has previously been mentioned. The following sauce recipes are also popular:
(1) For vegetables.

3 tablespoonsful butter.
3 tablespoonsful flour.
1 teaspoonful salt.
1 cupful milk.
1 cupful of liquid in which vegetable is cooked.
Combine as white sauce. Milk may be substituted for the vegetable liquid.
(2) Egg.

1 pint white sauce.
2 hard-boiled egg yolks.
Put the hard-boiled egg yolks through a sieve. Add to white sauce.
c. Baked potatoes.-Wash and scrub the potatoes with a vegetable brush until perfectly clean. Dry with a cloth and bake in moderate
oven until they feel soft when pressed with the fingers. This will take about 45 minutes unless the potatoes are large. When done, take each potato in a towel in the hand, and press gently without breaking the skin until the whole potato feels soft, then skin may be broken slightly and the potatoes served at once.
d. Mashed potatoes.

1 quart potatoes.
1 teaspoonful salt.
$1 / 2$ cupful hot milk.
1 tablespoonful butter.
Boil the potatoes, drain, and dry by shaking gently over the flame. Rice by forcing through a ricer or a colander, or mash. Then add the seasonings and milk. Beat until light. Serve with bits of butter dotted over the top.
e. Buttered cauliflower.

1 medium size head of cauliflower.
2 teaspoonfuls butter.
Remove all the green leaves and place the cauliflower head down in cold water to which has been added 1 tablespoonful of salt to each quart of water. Let soak $1 / 2$ hour or more to draw out any insects that may have found their way into the cauliflower. If the head is to be cooked whole, tie it in a cheese cloth to prevent breaking. Boil in salted water 20 to 25 minutes or until tender, taking care not to cook longer than necessary. Drain and serve with melted butter. (Cauliflower is more quickly cooked if broken into pieces.)

## f. Creamed cauliflower.

1 medium size head of cauliflower.
1 cupful sauce for vegetables.
Prepare and cook the cauliflower the same as for buttered cauliflower. Prepare 1 cup sauce for vegetables. Mix the cauliflower with the sauce. Let cook about 5 minutes or until the cauliflower is thoroughly seasoned with the sauce.
g. Creamed carrots.

3 cupfuls diced carrots.
1 cupful white sauce.
To prepare the carrots select two large or three medium size carrots, wash and scrape, and drop at once into cold water to prevent discoloration. Cut into $1 / 2$-inch cubes and steam or cook in boiling, salted water until tender. Prepare white sauce. Drain the carrots, add the sauce, reheat and serve.

## h. Boiled spinach.

Spinach.
1 tablespoonful butter,
Pick over the spinach, carefully removing all wilted leaves. Cut off the roots and the coarse fiber of the leaves which require longer cooking, toss into cold water, and wash thoroughly through several waters, being careful to free it from sand. Boil until tender in a small amount of boiling, salted water. Drain and chop. Add butter, 1 tablespoonful to a pint of cooked spinach.
i. Spinach soufflé.

3 eggs.
$1 / 4$ cupful flour.
1 cupful cooked spinach.

2 tablespoonfuls butter.
$1 / 2$ teaspoonful salt.
2/3 cupful hot milk.

Rub the flour, salt, and butter together until smooth, then stir in slowly the hot milk. Rub spinach through a colander and add to this white sauce. Beat egg yolks until light and creamy, add to the mixture, and fold in stiffly beaten egg whites. Turn into a buttered baking dish, set in a pan of hot water, and bake in slow oven 15 to 20 minutes. Serve immediately.

Other vegetables such as grated carrot, purée string beans, lima beans, asparagus, or eggplant may be substituted for the spinach.
j. Mashed turnips.-Turnips. Salt. Butter.

Wash and pare the turnips deeply enough to remove the fibrous layer which lies about $1 / 8$ to $1 / 4$ inch beneath the skin; slice or quarter and cook in boiling water. Cook uncovered. When almost done, which will require from 45 minutes to 1 hour, add salt and finish cooking. Drain, mash, and add, 1 tablespoonful butter to each pint of mashed turnips.
k. Mashed summer squash.-Squash. Butter. Salt.

Select squash of about equal size. If mature, quarter and remove seeds. If quite young they may be cooked whole. Steam or cook in a very small quantity of water, allowing as much water as possible to evaporate at the last of the cooking. Unless the squash is quite dry, drain the liquid from it. Mash, and season with the butter and salt.
126. Meat, poultry, and fish.-Meats, as well as poultry and fish, are eaten sparingly for the first 3 or 4 months following operations. All fried meats and fish should be strictly avoided. For the first few months, coarse or tough meats containing much fiber are undesirable. Such meats are slow to leave the stomach, causing acidity and fermentation. Scraped beef, and meat or poultry, jellies, calf's brains, tender chicken or squab are recommended. Meats may be
run through a meat chopper, thus greatly increasing their digestibility in ulcer-bearing patients.
a. General rules for preparing meats.-(1) Meat should be removed immediately from the paper in which it is wrapped and put in a cool place. Only tender cuts of meat should be broiled, pan-broiled, or roasted. When meat is to be cooked by any of these methods, it should first be seared and then the temperature slightly lowered. Roasts may be satisfactorily cooked at a low heat without searing.
(2) Tough meat should be cooked in water. Boiling water hardens the albumin on the outer surface of the meat and prevents the juices from escaping. Meat should be put in boiling water and the water allowed to proceed at a low temperature until the meat is tender. The time required for roasting or cooking in water varies with the weight and quality of the meat.
(3) The time required for broiling meats varies with the thickness of the meat.
(4) Stock and broth are prepared by prolonged soaking of the meat in cold water and then cooking it at a low temperature for several hours, allowing it to cool uncovered. The meat that remains after straining may be utilized in various ways, adding a little fresh meat to give it flavor.
(5) The fat must not be removed from stock or broth, for the fat excludes the air and prevents decomposition. It must, however, be entirely removed before the stock or broth is used; this fat may be used in place of drippings. Small globules of fat may be removed from cold broth with a cloth that has been dipped in boiling water and then wrung dry. Fat may be removed from hot broth by means of tissue paper or a slice of bread.
b. Cooking tender meats.-(1) Roasting.-Skewer the meat into shape. Place it on a rack in a meat pan, into the bottom of which pieces of fat from the meat have been placed. Put into a hot oven for 10 minutes to sear the meat. Then reduce the temperature of the oven. If desired, it may be seasoned with salt. Baste every 10 minutes until it is done.
(2) Broiling.-Remove extra fat from the meat and grease the broiler with part of the fat. Broil over a clear fire, sear, and then turn every 10 seconds. Chops 1 inch thick should be cooked for 5 minutes. A steak 2 inches thick should be cooked for 10 minutes. Season and serve on a hot platter.
(3) Pan-broiling.-Remove fat from the meat. Heat a frying pan very hot, but use no fat. Sear the meat on both sides, and then cook more slowly until it is done. Stand chops upon their edges to brown. Keep the pan free from fat. The time required for pan-broiling is the same as that required for broiling.
c. Chicken.-(1) Broth.-Clean fowl, cut it into pieces and soak in cold water for 1 hour. Then cook in same water for 4 or 5 hours. Keep chicken covered while cooking and the temperature below the boiling point. Strain, add salt, and remove fat. A medium size fowl requires 2 quarts of water.
(2) Jelly.-Cut a medium size fowl into pieces and boil in 1 quart of water fot 2 hours, until only a pint of liquid remains. Season and strain. Place on ice to jell. Serve cold.
d. Calves' brains.-Wash the brains thoroughly, removing all the small membranes. Place in a quart of cold water to which a tablespoonful of vinegar has been added, soak for 20 minutes or half an hour, then drain. Drop into boiling water and cook 3 minutes, no longer. Pour off the water and replace with cold water. After this preliminary treatment they are ready for use in any way desired. Put on ice until ready to cook.
e. Fish.-Fish contain all the elements of meat in an easily digestible form. On this account it is adapted to the needs of old and young alike and especially sedentary people. Brook trout, bass, perch, and pike are best fresh-water fish. Of salt-water fish, cod, haddock, and halibut are the best staples.
(1) Cooking.-Fish may be boiled, braised, baked, or broiled, according to individual fancy.
(2) Boiling.-(a) In cooking fish in boiling liquid, two things must be kept in view, appearance and nutritive value. Cold liquid draws out the juices, while plunging the fish in boiling water causes the skin to contract and crack.
(b) In consequence, a medium course must be pursued. Lower the fish, placed in a frying basket or tied in a piece of cheese cloth, into warm liquid and bring quickly to the boiling point; then let simmer until the flesh separates readily from the bones. After simmering begins, cooking will take 5 to 8 minutes a pound, according to the thickness of the fish.
(c) Have liquid cover the fish; add a teaspoonful of salt and a tablespoonful of lemon juice to each 2 quarts of liquid. When fish is cooked, drain, garnish with fresh parsley or cress, and serve with hollandaise or drawn butter sauce.
(3) Broiling.-Fish that when dressed presents a thin, flat surface in which the oil is distributed throughout the fish, as shad, bluefish, and mackerel, are usually broiled. Before broiling a fish, brush well with butter or oil, and be careful that the fire is not too hot. After the first few seconds, the fish should be drawn away from the fire and cooked more slowly. Many varieties of fish if subjected to an intense heat become hard and indigestible. Mackerel and bluefish of fair size require 15 to 20 minutes slow cooking. Baste with butter once or twice. The latter part of the cooking, particularly when the fish is thick, will be more successfully carried on in the oven. The broiler may be placed in the oven over a dripping pan. With a fork carefully separate the fish from the broiler on both sides; then slide on to a dish. Spread with butter.
(4) Baking.-Fish may be baked whole, in large, thick slices, or in fillets. Shad, halibut, salmon, bluefish, whitefish, and bass are among those commonly baked. Place fish on greased fish sheet. Bake in hot oven, basting every 10 minutes.
(5) Broiled brook trout.-Cut off the fins, draw the gills, push the handle of a wooden spoon along the backbone of each on the inside, to loosen the blood vessel that lies along the spine; wash and wipe dry, cut small incisions on both sides, season with salt, and broil in a double broiler from 10 to 15 minutes, according to the size of the fish. Turn every few seconds while broiling, to avoid burning the skin. Hold the broiler farther from the fire after the first few seconds.
127. Desserts.-Only the simpler, wholesome, and easily digestible desserts should be selected. (Too much sugar should be avoided either in their preparation or serving, otherwise gas and hyperacidity may be a consequence.) These include bread and cornstarch puddings, gelatin, blanc mange, junket, custards, tapioca, rice, baked apple, apple sauce, purée of prunes, plain ice cream, and sherbet (eaten slowly), etc.
a. Baked bananas.

6 bananas.
1 egg.
2 tablespoonfuls bread crumbs.
Remove the skin from the required number of bananas and scrape to remove all fuzzy portion next to the skin. Beat one egg and add two tablespoonfuls of milk or water. Dip the bananas into the beaten egg, then into toasted bread crumbs. Place on an oiled pan and bake in a moderate oven 30 to 40 minutes, or until perfectly tender. Baked bananas are very wholesome but raw bananas are sometimes troublesome unless very ripe.

## b. Prune fluff.

$1 / 4$ pound dried prunes.
1 egg white.
1 cupful whipping cream.
Wash prunes and let stand in boiling water a few minutes. Drain and soak in sufficient cold water to cover. Let soak for 24 hours, or until the prunes are soft. Drain off the liquid. Remove the stones and put the prunes through a colander. Then fold in the beaten egg white. This quantity should make one cupful of pulp. Serve in sherbet glass with a spoonful of whipped cream to each glass.
c. Prune souffé.

2 cupfuls prune pulp.
4 egg whites.
4 tablespoonfuls powdered sugar.
Cook 1 pound of prunes until tender and quite dry, and put through a colander. Beat two egg whites stiff and fold into the pulp. Put into a baking dish, set in a pan of hot water, and bake 30 minutes in a moderate oven, or until set. Make a meringue by beating the other two egg whites stiff and adding the powdered sugar. Spread on top of the prunes. Place in a moderate oven a few minutes until the meringue is brown.
d. Snow pudding.

1 quart milk.
$1 / 4$ cupful sugar.
4 egg whites.

1/2 cupful cornstarch.
$1 / 2$ teaspoonful salt.
2 teaspoonfuls vanilla.

Mix the cornstarch with some of the milk. Add the sugar to the remainder of the milk and heat to scalding in a double boiler. Add the blended cornstarch. Cook $1 / 2$ hour. Beat the egg whites stiff, then gradually add the hot mixture to them, beating in thoroughly. Add the vanilla and salt, pour into molds. Serve cold.
e. California cream.

| 2 tablespoonfuls gelatin. | $1 / 2$ cupful sugar. |
| :--- | :--- |
| 1 cupful cold milk. | 2 eggs, beaten separately. |
| 3 cupfuls hot milk. | 1 teaspoonful vanilla. |

Soak gelatin in cold milk and dissolve in hot milk. Add 2 tablespoonfuls of water to yolks of eggs and beat well. To them gradually add the sugar and beat until the sugar is well beaten in. Stir into the hot milk and let it cook for 5 minutes in a double boiler. Remove from fire and when cool, pour slowly over the stiffly beaten whites of egg to which has been added 6 tablespoonfuls powdered sugar. Beat together, add flavoring, mold, and chill.
f. Graham whip.
$11 / 2$ tablespoonfuls gelatin. $11 / 2$ cupfuls ground graham crackers.
$1 / 2$ cupful cold water. 2 tablespoonfuls sugar.
$1 / 4$ cupful boiling water. 1 teaspoonful vanilla.
2 cupfuls whipped cream.
Soak gelatin in cold water, add boiling water and sugar. When cool, fold in whipped cream and cracker crumbs. Mold and chill.

## g. Bread pudding.

1 cup dry bread crumbs. 1/8 cup melted butter.
1 pint hot milk. $\quad 1$ egg slightly beaten.
$1 / 4$ cup sugar.
$1 / 2$ teaspoonful flavoring.
Add crumbs to hot milk, set aside to cool. Add all the other ingredients, bake in a moderate oven.
h. Butterscotch bread pudding.-Instead of granulated sugar, use $1 / 2$ cup brown sugar. Melt with butter over fire and cook until a dark brown.
i. Baked caramel custard.

3 eggs. $\quad 1 / 4$ cup sugar.
1 pint milk.
$1 / 4$ teaspoonful salt.
4 tablespoonfuls caramel- $1 / 4$ teaspoonful vanilla. ized sugar.
Dissolve caramelized sugar in milk. Complete as for baked custard.
j. Apple snow.
$21 / 2$ tablespoonfuls apple $1 / 2$ lemon. sauce. 3 egg whites.
$21 / 2$ tablespoonfuls gelatin.
Soak gelatin in a little cold water, add enough hot water ( $11 / 2 \mathrm{cups}$ ) to dissolve; cool. Add apple sauce, lemon juice, and beat. When it begins to jell beat slightly and fold in beaten egg whites. Let stand, beat again in 15 minutes. Pour into dessert dishes and place in a cool place to become firm.

A thin boiled custard may be poured over the apple snow just before serving.

## k. Blanc mange.

1 tablespoonful gelatin. $\quad 1 / 2$ cup sugar.
2 cups milk. $\quad 1 / 2$ teaspoonful vanilla.
Soak gelatin in $1 / 4$ cup milk, scald the rest of the milk with the sugar and salt, add the soaking gelatin, strain, add vanilla and pour into molds.
l. Jellied pears.-Make a standard recipe of gelatin in any flavor. When it begins to jell pour over whole Barlett pears placed in shallow pan. When firm cut in squares, serving one pear to a person.
128. White sauce.- $a$. Recipes.

No. 1 or thin
No. 2 or medium
No. 3 or thick
1 cup milk.
1 cup milk.
1 cup milk.
1 tablespoonful butter. 2 tablespoonfuls butter. 3 tablespoonfuls butter.
1 tablespoonful flour.
$1 / 2$ teaspoonful salt.
2 tablespoonfuls flour.
b. Suggestions for use.-(1) Vegetables or potato may be served with the thin white sauce.
(2) Poached egg on toast with medium white sauce.
(3) Asparagus on toast with medium or thick white sauce.
c. Cream cheese sauce.-Make a thick white sauce but before removing from the stove beat in one-half package of creamed Philadelphia cream cheese, season slightly, and serve on toast.

## Section III

## DIETARY INSTRUCTIONS FOR VARIOUS CASES

Paragraph




High caloric, high vitamin, low residue diet for ulcerative colitis............... 133
Diet for diverticulosis of colon.................................................-. 134
Low fat diet for diseases of liver and gall bladder.................................. 135

129. Anticonstipation (A. C.) diet.-a. General.-(1) This diet is not applicable to irritable bowel.
(2) Because of a certain type of constipation, it has become necessary to modify the diet. All diets should be well balanced, and this fact has not been overlooked in arranging dietary requirements. In general, the diet for the first 3 months should consist chiefly of cooked fruits, cooked vegetables, coarse breads, and coarse cereals. Raw fruits and vegetables may be added gradually after 2 or 3 months. An increase or decrease in the quantity of vegetables and fruits may be made, depending on the response to treatment. If underweight, a glass of rich milk or malted milk should be taken with meals and between meals. The following guide for selection of proper foods should be closely followed. Eat three meals daily at regular hours.

If underweight, midmeal food may be given. In selecting the food for menus, care must be exercised so that a balanced diet will be eaten. A large amount of one food must not be eaten at the expense of some other food that is equally important.
b. Food selection guide.

b. Food selection guide-Continued.

| Food | Permitted |  |
| :---: | :---: | :---: |
| Vegetables_............ Avoid |  |  |
|  | All kinds, and in as large <br> quantities as desired. <br> Those generally used are <br> beets, cabbage, carrots, <br> celery, cucumbers, dan- <br> delion, green peas, greens, <br> lettuce, parsnips, rad- <br> ishes, rutabagas, spinach, <br> tomatoes, turnips. |  |

c. Sample menus.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Cereal, 1 serving. | Soup, vegetable, 1 serving. | Meat, 1 serving. |
| Fruit, 1 serving. | Meat, 1 serving. | Potato, 1 serving. |
| Bacon, 2 or 3 strips. | Potato, 1 serving. | Vegetable, 1 serving. |
| Eggs, 2. | Salad, vegetable or fruit, | Salad, vegetable, 1 serv- |
| Bread, 2 slices. | 1 serving. | ing. |
| Butter, as desired. | Bread, 1 slice. | Bread, 1 slice. |
| Cream, as desired. | Butter, as desired. | Butter, as desired. |
| Milk, 1 glass. | Cream, as desired. | Cream, as desired. |
| Coffee, 1 cup. | Dessert, 1 serving. | Dessert, 1 serving. |
|  | Fruit juice, 1 glass. | Fruit juice, 1 glass. |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Water.-Drink three glasses before breakfast, between meals, and before retiring.
d. Medication.-(1) At the beginning of treatment, it may be necessary to take a tablespoonful of mineral oil two or three times daily. This should be reduced and finally discontinued as the symptoms are relieved.
(2) Oil retention enemas ( 180 cc warm olive oil), may be used at bedtime and retained until morning. These too should be reduced in number and discontinued as symptoms justify it.
(3) Agar-agar: Take one or two tablespoonfuls, plain granulated agar-agar three times a day on cereals or in fruit juices. It may be used in addition to or as a substitute for the mineral oil or oil enemas.
e. Exercise and habits.-(1) Any exercise such as stooping, bending, and abdominal massage which tends to develop the abdominal muscles is beneficial. Every night and morning, lie on the back and raise the extended legs as high as possible ten to forty times. Walk 3 or 4 miles, saw wood, or work in the garden every day.
(2) Avoid tobacco in all forms.
(3) Never neglect a "call." Visit the toilet at once even at much inconvenience. A lost "call" is not easy to recover.
(4) Visit the toilet at a regular time at least twice daily, even though there is no desire. Take plenty of time. Bowels that are constipated respond slowly at first.
(5) Eat meals regularly. Don't miss a meal. Take plenty of time to eat. Chewing food well stimulates the colon to push the residue along.
(6) Remember, it is better to correct constipation by regular habits, exercise, water, and proper diet than by medicine.
(7) Take a cold bath in the mornings.
(8) Omit all medication as soon as possible. Negligence in carrying out the above regime will result in failure, and if improved, a relapse.
f. Special instructions.

Diet: Omit
Medication
130. A. C. diet for irritable colon.-a.General.-(1) This condition requires a special diet. Effort will be made to furnish a well-balanced diet in adequate amount to insure proper nutrition. However, certain foods must be avoided. In acute stages or when symptoms are severe, omit-
(a) Chicken, fish, and meat.
(b) Cream cheese.
(c) Apple sauce.
(d) Plain cakes.
(e) Potatoes.
(f) Rice, spaghetti, and noodles.
(2) As soon as symptoms subside sufficiently, these items should again be added to the diet. Avoid raw vegetables and fruits at all times. Highly seasoned foods should never be taken; a moderate amount of salt may be used. Foods that contain a large amount of roughage are irritating. Foods containing considerable cellulose will be well tolerated, if properly cooked and puréed. By this process, most of the irritating particles are eliminated. Avoid all fried foods, vinegar, and highly seasoned foods.
b. Food selection guide.-When symptoms are acute or severe, the medical officer will determine from day to day and prescribe dietary needs. When this is no longer required, select foods by the following guide:

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Beverages | Buttermilk, cocoa, coffee, chocolate, milk, orange juice, postum. | All others. |
| Bread | Crusts of hot biscuits, toasted white bread, white bread. | Graham muffins, rice, whole wheat, any containing bran. |
| Butter and olive oil | Moderate amount of either. |  |
| Cereal | Cream of wheat, farina, food of wheat, rolled oats, sieved oatmeal. | Any cereals containing large amount of bran, shredded wheat biscuits. |
| Cheese | Fresh creamed cottage cheese. | All others. |
| Dessert | Custards, ice cream, gelatin, plain cake, simple puddings, stewed fruits (sieved). | Candies, cheese, jams, jellies, nuts, raw fruits, raisins. |
|  | Sugar is permitted but do not use too much. Stewed berries may be used by thickening the juice with cornstarch. | Sugar in concentrated form. |
|  | Coddled or poached, softboiled, scrambled, in moderate quantities. |  |
|  | Stewed fruits that have been sieved. | Bananas, cantaloupe, melons. |
| Meat | Moderate servings of chicken, fish, oysters, squab, if cooked simply. | Canned fish, fibrous particles of all meats, pork and highly seasoned meats and dressings. Smoked fish. |
|  |  |  |
| Salad |  | All. |
| Soup | Bouillon, broths, chowder, cream soups. | Those containing large particles of coarse vegetables and fibrous particles of meat. |
| Vegetables............. | Artichoke hearts, beans, hominy, Italian pastes, lentils, lima beans, macaroni, noodles, potatoes, rice, spaghetti, sweetpotatoes, tender asparagus tips. | Older string beans, spinach. |

c. Sample menus.-In making the menu, the following will serve as a general guide as to articles served and the amount that should be eaten at each meal.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Orange juice, 1 glass. | Cream of pea soup, 1 cup. | Scrambled beef balls, 2. <br> Food of wheat, 1 serving. |
| Roast beef, 1 serving. | Broiled rice, 1 serving. <br> Coddled eggs, 2. | Asparagus tips, 1 serving. |
| Bacon, 2 slices. | Shite bread, 1 slice. | White breas, 1 serving. 1 slice. |
| Toasted white bread, 1 | Gelatin, 1 serving. | Ice cream, 1 serving. |
| slice. | Milk, 1 glass. | Milk, 1 glass. |
| Butter, as desired. | Butter, as desired. | Butter, as desired. |
| Coffee, 1 cup. | Tea or coffee, 1 cup. | Tea or coffee, 1 cup. |
|  |  |  |

## d. Special instructions.

Diet: Omit
Medication $\qquad$
131. A. C. high fat, low residue diet.- $a$. General.-This condition requires a special diet as an essential part of the treatment. It is necessary that the amount of indigestible residue be kept to the minimum in order to prevent unnecessary irritation of the colon. In this diet, there is a marked increase of fats, which will enable the patient to gain some weight. The extra fat may be easily supplied by the free use of butter and cream, cream soups, and oil dressings with the meals.
b. Food selection guide.-When the symptoms are severe or the condition is acute, the medical officer will supervise dietary needs from day to day. Afterward, the general guide given below should be followed.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Beverages | Buttermilk, cocoa, coffee, chocolate, milk, orange juice, postum. | All others. |
| Bread | Crusts of hot biscuits, toasted white bread, white bread. | Graham, muffins, rice, whole wheat. Any containing bran. |
| Butter and olive oil. | Use freely. |  |
| Cereal. | Farina, food of wheat, oatmeal, rolled oats. | Bran flakes, shredded wheat biscuits. Any containing large amount of bran. |

b. Food selection guide-Continued.

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Cheese | Fresh creamed cottage cheese. | All others. |
| Dessert | Custards, ice cream, gelatin, plain cake, simple puddings, stewed fruits (sieved). <br> Sugar is permitted but do not use too much. <br> Stewed berries may be used by thickening the juice with cornstarch. | Candies, cheese, jams, jellies, nuts, raw fruits, raisins, sugar in concentrated form. |
| Eggs | Coddled, poached, softboiled, scrambled, in moderate quantities. |  |
| Fruit | Stewed fruits (sieved). | Bananas, cantaloupe, melons. |
| Meat | Moderate servings of chicken, fish, oysters, squab. | Fibrous particles of all meats, all smoked fish, canned fish, and pork. <br> All. |
| Salad |  | All. |
| Soup | Chowder, cream soups. | All those containing large particles of coarse vegetables and fibrous particles of meats. |
| Vegetables | Artichoke hearts, beans, hominy, Italian pastes, lentils, lima beans, macaroni, noodles, potatoes, rice, spaghetti, sweet potatoes, tender asparagus tips. | Older string beans, spinach. |

c. Sample menus.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice, 1 glass. <br> Food of wheat, 1 serving. <br> Coddled eggs, 2. <br> Bacon, 2 slices. <br> White toast, 1 slice. <br> Butter, use freely. <br> Cream, table, 30 cc . <br> Coffee, 1 cup. | Cream of pea soup, 1 serving. <br> Roast beef, 1 serving. <br> Baked potato, 1 serving. <br> Asparagus tips, 1 serving. <br> White bread, 1 slice. <br> Gelatin, 1 serving. <br> Milk, 1 glass. <br> Cream, 30 cc. <br> Butter, use freely. <br> Tea or coffee, 1 cup. | Cream of celery soup, 1 serving. <br> Scraped beef balls, 2. <br> Boiled rice, 1 serving. <br> Sieved peas, 1 serving. <br> White bread, 1 slice. <br> Ice cream, 1 serving. <br> Butter, use freely. <br> Milk, 1 glass. <br> Cream, 30 cc. <br> Tea or coffee, 1 cup. |

d. Special instructions.-Weigh twice weekly and keep a record of weights.

Diet: Omit
Medication
132. Low caloric (reducing) diet.-a. General.-(1) This diet is prescribed to aid in reducing weight. Do not lose more than 3 pounds per week. General condition must be known to the medical officer, and while reducing, he will recheck each week. Reducing diets are dangerous if proper control is not maintained. In attempting to reduce weight, use self-control and resist all foods not prescribed. Report regularly to the medical officer as directed. Remember, you must be honest with yourself first.
(2) Cheating on diets only does harm. The scales are the barometer. Weight will be lost by persevering.
b. Food selection guide.-The following foods are the common ones used in reducing diets:
(1) Lean meat.-Trim off all visible fat.

Beef, round.
Beef, dried.
Chicken, broiled.
Codfish.
Crab meat.
(2) Five-percent vegetables.

Asparagus.
Broccoli.
Cabbage.
Cauliflower.
Celery.
Cucumber.
Eggplant.
(3) Ten-percent vegetables.

Beets.
Brussels sprouts.
Carrots.
(4) Five-percent fruits.

Avocados.
Melons.
Lemon juice.

Liver.
Shrimp.
Turkey.
Veal, roast only.

Lettuce.
Pumpkin.
Radish.
Spinach.
Tomatoes.
Turnips.

Olives.
Onions.
Rutabagas.
Rhubarb.
Strawberries.
(5) Ten-percent fruits.

Blackberries.
Cranberries.
Currants.
Gooseberries.
Grapefruit.
c. Special instructions.

Return for recheck
Medication
d. Table.-(1) In the table below are listed the above foods and additional articles permitted for each meal. Suitable scales should be provided.
(2) Diet consists of protein, _......gm. Carbohydrate, ........gm. Fat, ........ gm.

133. High caloric, high vitamin, low residue diet for ulcerative colitis.-a. General.-The condition has now reached a subacute or chronic stage which should continue to improve. However, a special diet will be needed as a part of the treatment. The diet should be well-balanced and high in calories and vitamins. At the same time, there must be little or no indigestible residue that will irritate the colon.
b. Food selection guide. -While symptoms are severe or in the acute stage, the medical officer will supervise dietary needs from day to day.

In the selection of foods for the menu, the general guide below should be followed:

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Beverag | Coffee, milk, tea, water. | Iced drinks. |
| Bread- | All types except those containing bran. | All others. |
| Cereal | All cooked, except those containing bran. As symptoms subside, may use all dry cereals except bran cereals. Macaroni, spaghetti, and Italian pastes are permitted. | All bran cereals at al times. |
| Che | Cream cottage cheese-....... | All others. |
| Dessert | Boiled custard, cornstarch pudding, gelatin desserts made with cream, ice cream (eaten slowly), junket, rice pudding, sponge cake or any strictly bland dessert. <br> Add lactose to desserts instead of extra sugar, and cream instead of milk in making desserts. | All desserts containing berries or fruits. As symptoms subside or if symptoms are mild, bland fruits may be used. |
| Egg | Coddled, poached, soft-boiled. Use freely. | Fried. |
| F | Bacon, butter, cream, mayonnaise, salad oil, all in liberal amounts. |  |
| Frui | All the bland fruits | All coarse fruits with fiber, |
|  | Cooked.-Apples, apricots, peaches, pears. Raw.-Avocado, banana, orange juice. | skin and seeds. Cooked fruits should be sieved. |
| Meat | All meats and meat broths, except fried meats. Eat liver and sweetbreads liberally. | Highly seasoned, fried. |
| Soup | Cream soups made with vegetable purée and cream. Also meat broths. | All others. |
| Vegetables | Beets, eggplant, potato (except fried), purée of asparagus, pumpkin, peas, squash, tender string beans. Use tomato juice freely. | Brussels sprouts, coarse string beans, cabbage, cauliflower, corn. <br> (Celery may be added later if it is tender and chopped very fine.) Any vegetable not puréed. |

c. Vitamins.-In addition to the vitamins in the diet, additional vitamins may be prescribed. Cod liver oil, viosterol, brewers' yeast, and wheat germ preparations are generally used. (See special instructions below.)
d. Sample menus.-In preparing the menu, the following general outline will insure a balanced diet that will meet the above requirements.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice, 1 glass. <br> Sieved oatmeal, 1 large serving. <br> Bacon, 2 to 3 slices. <br> Coddled eggs, 2. <br> Toast, 2 slices. <br> Butter, as desired. <br> Coffee, 1 cup. | Cream of tomato soup, 1 serving. <br> Tenderloin steak, 1 serving. <br> Creamed potatoes, 1 serving. <br> Purée of carrots, 1 serving. <br> Lettuce, finely shredded, 1 serving. <br> Mayonnaise, as desired. <br> Bread, 2 slices. <br> Boiled custard, 1 serving. <br> Cream, 30 cc. <br> Butter, as desired. <br> Milk, 1 glass. | Cream of pea soup, 1 serving. <br> Creamed sweetbread, serving. <br> Baked potato, 1 serving. <br> Purée of asparagus, serving. <br> Bread, 2 slices. <br> Jelly, as desired. <br> Butter, as desired. <br> Milk, 1 glass. |

e. Special instructions.

Medication (including vitamins)
134. Diet for diverticulosis of colon.-a. General.-Diet is probably the most important part of the treatment. Even though all symptoms have disappeared, the diet should be continued, because a return to certain foods will in all probability cause a return of the symptoms. The diet should not be modified except upon the advice of a medical officer. Laxatives (agar-agar and mineral oil) may be required. The medical officer will prescribe them when necessary.
b. Food selection guide.-The following guide to be used in selecting the food for menus should be carefully observed.

| Foods | Permitted | Avoid |
| :---: | :---: | :---: |
| Beverages | Coffee, milk, tea, water. | Iced drinks. |
| Bread | All types except those containing bran. | All containing bran. |

## b. Food selection guide-Continued.



Cheese
Dessert
Vegetables

Cream cottage cheese.
Boiled custard, ice cream (if eaten slowly).
Asparagus, beets, eggplant, peas, potato (except fried), pumpkin, squash, string beans, tomatoes, turnips. Use tomato juice freely.

All others.

Any vegetable not puréed. Brussels sprouts, cabbage, cauliflower, coarse string beans, corn. Celery may be added later if it is tender and chopped very fine.
c. Vitamins.-In addition to the vitamins in the diet, additional vitamins may be prescribed. Cod liver oil, viosterol, brewers' yeast, and wheat germ preparations are generally used. (See special instructions below.)
d. Sample menus.-In preparing menus, the following general outline will insure a balanced diet that will meet the above requirements:

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice, 1 glass. <br> Sieved oatmeal, 1 large serving. <br> Bacon, 2 or 3 slices. <br> Coddled eggs, 2. <br> Toast, 2 slices. <br> Butter, as desired. <br> Coffee, 1 cup. | Cream of tomato soup, 1 serving. <br> Tenderloin steak, 1 serving. <br> Creamed potatoes, 1 serving. <br> Purée of carrots, 1 serving. <br> Lettuce, finely shredded, 1 small serving. <br> Mayonnaise, as desired. <br> Bread, 2 slices. <br> Boiled custard, 1 serving. <br> Cream, 30 cc. <br> Butter, as desired. <br> Milk, 1 glass. | Cream of pea soup, serving. <br> Creamed sweetbread, serving. <br> Baked potato, 1 serving. <br> Purée of asparagus, serving. <br> Bread, 2 slices. <br> Jelly, as desired. <br> Butter, as desired. <br> Milk, 1 glass. |

e. Special instructions.

Use orange juice liberally with and between meals.

## Medication

135. Low fat diet for diseases of liver and gall bladder.- $a$. General.-The low fat diet has been prescribed as an important part of the treatment. The habits of living, diet, exercise, rest, and mental relaxation are necessary in hastening recovery. Take daily exercise by walking in the open air. Break up the day with 1 hour complete rest on the back in the middle of the day. Alcohol is forbidden in all forms. Drink water (six or seven glasses) daily. Fatty foods must be avoided. The bowels should move regularly once or twice daily.
b. Food selection guide.-Because of the wide range of foods containing fat in the natural state or must be used in their preparation, it is easier to list the permissible foods for the low fat diet. The following list is a guide to be followed in making out the menu.
(1) Bread.-No restriction.
(2) Beverage.-Coffee, skimmed milk, tea.
(3) Cereal.-No restriction.
(4) Crackers.-Graham or white.
(5) Desserts.-No restriction on plain desserts made without fats and eggs; jams, jellies, and hard candies permitted freely.
(6) Eggs.-Restrict to one daily.
(7) Fruit.-No restriction.
(8) Italian pastes.-No restriction.
(9) Meat.-Beef, chicken, and turkey (trim off all visible fat).
(10) Soup.-Only skimmed meat, chicken, and vegetable broths are permitted.
(11) Vegetables.-No restrictions (must not be creamed).
(12) Avoid all fried foods, fatty foods, butter, cream, mayonnaise, and other concentrated fats.
c. Sample menus.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice, 1 glass. Muskmelon, 1 serving. Coddled egg, 1. <br> Toast, 2 slices. <br> Jam, as desired. <br> Skimmed milk, 1 glass. Coffee, 1 cup. <br> 10:00 AM. Lemonade, 1 glass. Hard candy, as desired. | Skimmed chicken broth, 1 serving. <br> Crackers, as desired. <br> Broiled chicken, 1 serving. <br> Baked potato, 1 serving. <br> String beans, 1 serving. <br> Pineapple-lettuce salad, 1 serving. <br> Bread, 1 slice. <br> Jelly, as desired. <br> Plain pudding, 1 serving. <br> 3:00 PM. Orangeade, 1 glass. Hard candy, as desired. | Steamed rice, 1 serving. <br> Peas, 1 serving. <br> Toast, 2 slices. <br> Skimmed milk, 1 glass. <br> Canned peaches, 1 serving. <br> Tea or coffee, 1 cup. <br> 9:00 PM. Skimmed milk or pineapple juice, 1 glass. |

d. Special instructions.

Medication
136. Cardiovascular-renal diet.-a. General.-There are many types of cardiovascular-renal disease and each requires a special diet. General instructions are applicable to all. Tea and coffee should be avoided or limited. Do not eat too much. Half portions are better tolerated. Eat more frequently if necessary to satisfy the appetite. These diets are weighed or measured. Do not eat any other food. Constipation must be avoided. Condiments, spices, and salt must not be used unless the medical officer has included it in the diet. Many require restriction of fluids. Do not exceed that permitted.
b. Food selection guide.--In a general way, the data below should be used as a guide in selecting food for the menu:

| Food | Permitted | Avoid |
| :---: | :---: | :---: |
| Beverage | Kaffee hag, milk, postum, sanka. Water to the limit of fluid permitted. | Alcohol, cocoa, coffee, tea. |
| Bread and cereal_ | All breads and cereals may be used. However, in their preparation salt must not be added when used for salt-free diets. | All prepared cereals that contain salt. |
| Butter | Salt-free (sweet). | Ordinary butter if salt-free diet is used. |
| Cheese | Fresh cottage cheese without the addition of salt. Any cheese may be used if salt is not limited. | All except fresh cottage cheese that is prepared without salt if a saltfree diet is used. |
| Dessert | Plain desserts, cooked or fresh fruits such as canned peaches, fruit gelatin, fresh pears, rice pudding, sugar cookies, vanilla wafers. | Cakes, pies, rich puddings. |
| Fruit | Canned, cooked, fresh. All may be used freely. |  |
| Meat | Fresh meats for salt-free diets. Bacon, ham, and semicured meats may be used only to limit of protein permitted when diet is to be salt-free. |  |
| Mi | Milk in quantities justified by permissible fluid intake. At least 300 ec should be taken in all cases. |  |
| Soup...... Vegetables. | Vegetable soup if permissible by limited fluid intake. To be prepared without the addition of salt if salt-free diet is used. Canned and fresh vegetables may be used freely. | All meat soups. |

c. Special instructions.

Fluid intake is limited to ...... ce.
Protein (is) (is not) limited (special menus with quantities indicated are prepared for those requiring low protein intake).
Medication

## Section IV

## DIABETES MELLITUS

Paragraph


#### Abstract

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137. Purpose of instruction.-This instruction material is not intended to furnish information ordinarily contained in the various manuals now available for those afflicted with diabetes mellitus. It is furnished for the purpose of establishing a better ward routine and to assist in the study of diabetes mellitus as it applies to each case, thereby assuring better cooperation between patient and ward personnel.
138. Cause of diabetes mellitus.- $a$. Diabetes mellitus is a disease resulting from a deficiency of an internal secretion of the pancreas. This secretion is known as insulin. The cause of the deficiency is unknown.
b. Some cases are mild and can be controlled by diet alone. Usually moderate and all severe cases require insulin as well as diet to control the disease. All principal elements of food, proteins, carbohydrates, and fats are affected by the deficiency of the pancreatic secretion but
the detection of diabetes mellitus and its control are based on finding sugar in the urine and also on an excess of sugar in the blood.
139. Outlook for the diabetic.-Because the patient has been told that he suffers from diabetes mellitus is no reason for him to become alarmed or to believe that death is to ensue in a comparatively short time. While the cause of diabetes mellitus is not known, there is a material which, if handled properly in conjunction with a properly balanced diet, will enable one to eat sufficient to insure proper metabolic activities in the body. As with all constitutional diseases it is very important that infections and acute diseases of all types be avoided and, if these do occur, that utmost precautions be taken and treatment given in their early stages. See the medical officer at least once a month and have a complete physical examination once or twice a year.
140. Symptoms.-a. Often the patient is not aware of any symptoms. This is especially true in the milder forms. The usual symptoms are
(1) Increased thirst which is called polydipsia.
(2) Increased hunger which is called polyphagia.
(3) Increased output of urine which is called polyuria.
(4) Loss of weight and strength.
b. Many other symptoms may arise from time to time but these are usually from complications which the patient is expected to learn to avoid.
141. Hospitalization.- $a$. During the period of hospitalization it is expected that more benefit will be obtained from it than the mere preparation of a suitable diet and the administration of the proper amount of insulin. The instructions received are for benefit after leaving the hospital and are designed to enable the patient to carry out the treatment at home in an intelligent manner. It will also enable the patient to recognize defects in the diet or the necessity for increase or decrease of insulin, and many other important questions which should be and may be properly interpreted early without the necessity of reentering the hospital.
$b$. The instructions will be divided into-
(1) Method of examination of urine with demonstration.-The instructions will be given in the ward by the technician as soon as practical after admission.
(2) Methods of weighing and measuring diets with demonstrations.These instructions with demonstrations will be given in the ward at a designated hour each week.
(3) Administration of insulin.-The method of sterilization of equipment, withdrawing dosage of insulin into syringes, sterilization of site to be injected, measuring dosage, and actual administration of insulin are given by one of the ward nurses several times during period of hospitalization. Patient will be required prior to departure to show proficiency in these subjects as well as self-administration of insulin, if a patient who requires insulin as well as diet.
(4) Talks by ward officer. -These talks will be given in the ward at a designated hour each week.
c. It is not expected to burden the patient with an unnecessary amount of information on this subject but it is desired that he familiarize himself with enough of the essentials to enable him to follow the instructions given while in hospital. These instructions are not all that will be needed. There are many books on this subject published for a person suffering from diabetes mellitus and it will be necessary for the patient to obtain one of these books for study and reference while in hospital and in the future. The ward officer will inform the patient regarding these books.
142. Balancing diet and insulin.- $a$. There are various degrees of diabetes mellitus. Some of these can be handled adequately on diet alone. Others require both diet and insulin. Although insulin may not be required, it is just as important to be as careful with diet as if insulin is prescribed.
b. Usually upon entrance to the hospital a test diet is started. This is for the purpose of immediately lowering blood sugar and establishing some idea regarding tolerance for sugar. This diet will last for several days after which patient will be placed on a maintenance diet, which means a diet that will sustain a proper weight while engaged in occupation. This naturally varies in different people. Once the maintenance diet is started patient will be given a typewritten copy of this diet which shows the different articles of food served at each meal and also the quantity served. These maintenance diet menus, when preserved and pasted in books, will be of use at home. If patients remain in the hospital long enough to accumulate a large number of these diets, they may then select from them fourteen menus that appeal most, and place them in the book. By doing this they will have a series of menus that have been already worked out and leave nothing to do except to weigh and measure the materials listed for each meal.
c. It is desired that each patient have all the food that he feels like eating. There is no longer any reason for a diabetic to go hungry. There are, however, certain articles of food that are not permissible
but these articles are not necessary. One of the first lessons to learn is never to eat outside of the diet furnished. Remember that cheating on a diabetic diet is cheating yourself. If hungry after eating, tell the medical officer, and a satisfying diet will be furnished.
d. Patient will be informed of the number of grams of protein, carbohydrate, and fat that go into the diet and from time to time will be required to make an extension of the figures in the diet. Therefore he should familiarize himself from information in a diabetic manual with the percentage of these elements in the various foods furnished. If extension is at variance with the total number of calories daily received the ward officer will help find the errors.
$e$. In balancing the diet and insulin present condition and requirements have been considered. This does not mean that future adjustments may not be required. Often the severity of diabetes mellitus changes as well as the general conditions, and these factors often necessitate minor changes in insulin or diet and sometimes it becomes necessary to recheck completely and balance diet and insulin again.
143. Weighing and measuring food.-The proper method of weighing and measuring food will be shown. Certain recipes will be furnished; also those foods that are to be weighed before and after cooking. The manner of preparation of foods will also be described. Many patients frequently inquire about these points after they have left the hospital. Patient must assume responsibility for diet after discharge and should be able to instruct those cooking for him in the manner of weighing and preparation. After discharge from the hospital don't change diet unless directed to do so by a medical officer. Do not change insulin dosage unless there are reactions. If there are reactions, consult the medical officer immediately. The amount of food prescribed is correct and it should not be changed with a view to lowering the insulin dosage.
144. Eating meals away from home.-This is a problem that may be confusing. Most of the larger cities afford at least one diet restaurant where the diet list can be shown and be served accurately. If such is not the case and a practice is made of carrying the diet along, select articles of food available that will very closely approximate the particular meal. Such a step is advised only as an emergency measure and should not be practiced. Pocket scales are manufactured and sold by various diatetic houses and if one is going to eat away from home very often, arrangements should be made to have the diet weighed. Diabetes mellitus will not adjust itself to the patient and if he expects to get along well it will be necessary for him to adjust himself to the two largest factors for its control, diet and insulin.

There is very little time consumed in weighing and measuring a diet after one is accustomed to it.
145. Insulin administration away from home.-One is frequently asked whether or not it is necessary to take insulin at a single meal if eaten away from home. It must be obvious that if insulin has been prescribed in certain doses by the medical officer, he is not going to advise omission of a single dose. It is true that there may be no apparent damage done by missing a single dose of insulin but it is one of the first steps in carelessness and soon leads to further "sins of omission and commission" that are certain to result in serious damage. Many firms manufacture an insulin administration outfit that is very convenient and easily used anywhere. There is no longer any reason for a diabetic to miss a dose of insulin because it is inconvenient to take it.
146. Foci of infection.-During stay in the hospital an attempt will be made to remove any foci of infection present. In the future if the question of extraction of teeth, removal of tonsils, sinus operations, or removal of any foci of infection arises, it is important for persons to inform those treating them that they are diabetics. Removal of such foci should be undertaken after all the facts are known and urine and blood sugar have been carefully checked. If insulin is required it is important to know that the effect of insulin is partially destroyed by the presence of foci of infection. Frequently the dosage of insulin can be reduced after foci of infection have been removed.
147. Examination of urine. - $a$. The importance of and the proper method of examination of the urine will be taught. Once or twice each week patient should collect all the urine passed in 24 hours and measure it to determine if passing more or less than the normal amount. The urine should be examined daily for the presence of sugar. To do this, collect the first urine passed in the morning. Put 4 drops of this urine in a test tube and thoroughly mix with 2.5 ec of Benedict's qualitative solution. Place the tube in boiling water for 5 minutes, at the end of which time if there has been no change in color the urine contains no sugar. If the color changes to a green color there is only a trace of sugar present; if a yellowish green color appears, there is about $1 / 2$ percent sugar present; if a yellow color appears, there is 1 percent of sugar present; if a brick red color appears, there is more than 1 percent present.
b. Use only the amount of urine and Benedict's solution as stated above. When buying Benedict's solution be sure to get Benedict's qualitative solution and not Benedict's quantitative solution. After getting this solution test it. Do this by mixing 2 drops of undiluted
orange juice in 6 cc of the Benedict's solution and put the tube in a pan of boiling water for 5 minutes. If the solution is correct, a reddish yellow color will appear at the end of the time. The materials needed for testing the urine are -
(1) Several test tubes.
(2) A test tube brush.
(3) A bottle Benedict's qualitative solution.
(4) Medicine dropper.
(5) Small glass graduate measuring cc's.
(6) A small, wide mouth specimen bottle to collect daily morning specimens.
(7) A large wide mouth gallon jug to collect 24 -hour specimen as directed.
(8) Pan of boiling water.
c. If it is more convenient to boil the urine over a gas jet or an alcohol lamp these articles must also be obtained. If the urine shows the presence of sugar it should be reported to the medical officer.
d. Space is provided in this pamphlet to record the dates the urine is positive for sugar; estimate of the amount of sugar present should be stated under that date. There is no need to list negative findings. It is expected that you will examine your urine daily for sugar and if those specimens that contain sugar are listed it will aid the medical officer as well as yourself in a more intelligent management.
148. Renal threshold.-The renal threshold means that point in blood sugar where the concentration of the sugar in the blood has reached a point when the kidneys begin to discharge sugar in the urine. This point varies in different people and also varies slightly in the same person over a long period of time or possibly after an illness. Usually sugar will not be found in the urine until the blood sugar has reached 175 milligrams or more. It can be readily seen then how important it is to know what the renal threshold is, for by this can be made a fair estimation of the blood sugar when a trace of sugar appears in the urine.
149. Blood sugar estimation.-a. Patient has been balanced by the blood sugar determination method. This is done for the reason that if merely balanced down to the point of clearing the urine of sugar and if there was a moderate or high renal threshold, blood sugar would still be running above the normal. The normal blood sugar is considered to be 70 milligrams low normal to 130 milligrams high normal.
$b$. Patient will be advised prior to departure whether future blood sugar determinations should be included in the routine and how often the test should be done. Elsewhere in this manual space is provided
for a record of every blood sugar determination. An accurate list of these with dates made should be kept, for they furnish valuable information for the medical officer in following the progress of the case.
150. Kinds of insulin.-a. General.-(1) If the patient is unable to maintain an approximately normal blood sugar on a diet that is satisfying and capable of sustaining the body at the proper weight at whatever his occupation may be, he should take insulin. Insulin is obtained from the pancreas of the cow. In the pancreas there are some little islets of tissue that are known as the islands of Langerhans and in health they secrete insulin which is poured directly into the blood stream. When there is a deficiency of this secretion it interferes with the metabolism of sugar in the body and this sugar continues to collect in the blood stream and tissues of the body. If enough collects, diabetic coma is the result.
(2) At the present time there are two kinds of insulin, regular (or old) insulin and protamine zinc insulin.
b. Regular--(1) This form of insulin is absorbed quickly and for that reason acts rather rapidly. It is marketed in various strengths and is easily identified.

| Blue label | U-10 | $1 \mathrm{cc}=10$ units. |
| :---: | :---: | :---: |
| Yellow label | U-20 | $1 \mathrm{cc}=20$ units. |
| Red label | U-40 | $1 \mathrm{cc}=40$ units. |
| Green label | U-80 | $1 \mathrm{cc}=80$ units. |
| Orange label | U-100 | $1 \mathrm{co}=100$ units. |

(2) Regular insulin in all strengths is sold in two size bottles, 5 cc and 10 cc . The size of the bottle has nothing to do with the strength. If patient is stabilized on regular insulin he should be sure he knows the U strength he is taking.
c. Protamine zinc.-(1) This form of insulin is prepared by mixing regular insulin with protamine and zinc with a buffered solution. It is absorbed more slowly and exerts a blood sugar lowering effect for a longer time than the regular insulin. For this reason, often one injection daily is all that is necessary when protamine zinc insulin is used. For various reasons, some individuals do not seem to do as well on protamine zinc insulin as on ordinary insulin. For that reason patient may be stabilized on either regular insulin or protamine zinc insulin.
(2) At the present time protamine zinc insulin is marketed only in the U-40 strength and the label is white.
151. Length of time use of insulin required.-As a rule the use of insulin can never be discontinued. If the case has been thor-
oughly checked and it is found that insulin is required the amount may be reduced if a better tolerance to sugar is developed but it is usually the mild cases of diabetes mellitus that can safely discontinue the use of insulin or not use it at all. The popular idea that once insulin is begun it can never be stopped is erroneous. If insulin is needed it should not be stopped. Follow the medical officer's advice. He will gladly discontinue the insulin if it is safe.
152. Insulin administration.- $a$. The materials needed for insulin administration are-
(1) Insulin (keep 1 month's supply on hand).
(2) Two insulin syringes (always have an extra one for emergencies).
(3) One-half dozen rust-proof $\frac{1}{2}$-inch, 24 -gage hypodermic needles.
(4) One bottle medicated alcohol.
(5) One-half pound absorbent cotton.
$b$. If the insulin syringe designed to be kept sterile at all times in alcohol is not provided, material to boil the needles and syringe in a pan of water for 8 to 10 minutes will be needed.
c. Fill syringe and inject as taught in hospital under supervision. The site of injection should be changed with each dose. Do not inject insulin into the skin. It should be injected just beneath the skin. Do not use sites on the inner surfaces of legs, thighs, arms, and areas around the joints and blood vessels.
153. Insulin reaction.-Insulin reaction is the result of injecting too much insulin or from not eating the prescribed diet. Remember, the diet and insulin have been balanced against each other and if a meal is omitted and insulin is taken a reaction may result. Carelessness in measuring the insulin may result in administering a dose that is excessive, which may cause a reaction. A common mistake made by patients is omission of insulin if the meals are not eaten. Remember, if you become ill and cannot eat meals because of nausea, vomiting, etc., take at least one-half the regular dose of insulin and report to the medical officer at once.
154. Diabetic coma.-Diabetic coma is a condition that results from an excessive accumulation of sugar in the blood. This is due to eating an improper diet and not taking the proper amount of insulin. Diabetic coma and insulin reaction may confuse the inexperienced. The differential diagnosis below will help to determine whether an insulin reaction or diabetic coma is ensuing.
155. Differential diagnosis.-Onset of-

## Diabetic coma

a. History of eating too much or omitting insulin.

Insulin reaction
a. Symptoms come on quickly, usually within 20 minutes after insulin is administered. May get history of unusual exercises or omitting part of meal.
b. Precomatose symp-toms-Gastro-intestinal:
(1) Nausea and vomiting (1) Nausea and vomiting rare. common.
(2) Thirst marked and (2) Thirst absent. Dehydration absent. dehydration present.
(3) Pain in abdomen i usually present.
(4) Food is repulsive.
c. Nervous symptoms:
(1) Headache and weakness developing slowly.
(2) General restlessness and slow development of unconsciousness.
(3) Muscles flabby.
(4) Stupor and coma developing slowly.
(4) Sudden unconsciousness usually preceded by double vision and a convulsive seizure.
d. Comatose stage:
(1) Breathing.

Air hunger marked; slow, deep breathing; face flushed; sweet, fruity odor to breath.
(2) Eyes.

Eyeballs are soft; vision blurred or absent.

Breathing may be normal or short and jerky. Frequently profuse perspiration.

Normal tension in eyeballs; double vision common.

Diabetic coma-Continued.
(3) Urine and blood. Sugar and acetone present in urine; blood sugar markedly elevated.
(4) Temperature. Normal.
(5) Blood pressure.

Normal or subnormal
(6) Recovery.

Recovery slow even after insulin is given in large doses; often fatal.

Insulin reaction-Continued.
Sugar and acetone not present in urine; blood sugar 60 milligrams or lower.

Subnormal.

Low blood pressure.
Immediate recovery after taking sugar or orange juice, and is never fatal.
156. Prevention of diabetic coma.- $a$. Never omit the use of insulin unless the urine is free of sugar.
$b$. If feeling ill, especially if there is fever, nausea vomiting, or severe pains in the abdomen-
(1) Go to bed.
(2) Call a doctor.
(3) Take a cup of tea, coffee, or both every hour. Omit at least, one-half of diet and instead take orange juice or oatmeal gruel. If the urine contains sugar, continue insulin until the doctor arrives.
(4) Get a nurse or someone to remain until well.
(5) Take a soapsuds enema.
(6) Boil a quart of water and have it ready for the doctor when he arrives.
157. Treatment of insulin reaction.-a. Cause.-Insulin reaction may be the result of one of the following:
(1) Too much insulin.
(2) Too long a period between administration and eating the meal.
(3) Food has not been absorbed because of indigestion, vomiting, or diarrhea.
(4) Too much exercise.
(5) Failure to eat the diet prescribed.
b. Treatment. - (1) If conscious, give-
(a) Sixty ce of orange juice every 15 to 20 minutes until relieved. It is usually necessary to give the orange juice but once.
(b) If orange juice is not available a lump or two of sugar will answer the same purpose.
(2) If unconscious, give -
(a) $1 / 2$ cc of 1-1,000 solution of adrenalin chloride hypodermically. Repeat in 15 minutes if necessary.
(b) Karo syrup or 10 percent glucose per rectum, or-
(c) Glucose 10 percent solution intravenously. Persons using insulin should habitually carry a few lumps of sugar for emergency use.
158. Treatment of feet.- a. Hygiene.-(1) Wash the feet daily with soap and water. Dry thoroughly, especially between the toes, using pressure rather than rubbing.
(2) When thoroughly dry rub well with hydrous lanolin as frequently as necessary to keep the skin soft and supple and free from scales, but never render the feet tender.
(3) If the skin becomes too soft rub once a day with alcohol.
(4) If nails are brittle, hard, and dry, soften them by soaking in warm water $1 / 2$ hour each night and apply lanolin underneath and over them and bandage loosely. Clean nails with orangewood stick. Cut the nails only in a good light and after a bath and when the feet are very clean. Cut nails straight across to avoid injury to the skin and soft tissues. If you go to a chiropodist be sure to tell him you have diabetes.
(5) Wear shoes of soft leather that are properly fitted. Be sure they are not too narrow and not too short. When the shoes are new, wear them only an hour or two a day until they are "broken" in.
(6) Use a fresh, clean pair of socks each day.
(7) If over 45 years of age do not apply heat in any form to feet. Do not use electric pads or hot water bottles or hot lights.
b. Corns and callosities.-(1) Wear shoes which fit properly and do not cause any pressure.
(2) Soak feet in warm, not hot, soapy water. Rub off with gauze or file off the dead skin on and about callus or corn. Do not tear it off. A corn may be painted at night with-

> Salicylic acid
> 1 dram.
> Collodion
> 1 ounce.

Repeat the painting for four nights and then, after soaking in warm water, the corn will come off easily. If it does not come off easily without bleeding, repeat the treatment for four more nights.
(3) Do not cut corn or callosities.
(4) Prevent calluses under ball of feet by-
(a) Exercises such as stretching the toes 20 times a day.
(b) Finishing each step on the toes and not on the ball of the foot.
c. Poor circulation (cold feet).-(1) Exercise: Bend the foot up and down as far as it will go six times. Then describe a circle to the left with the foot ten times and then to the right. Repeat morning, noon, and night.
(2) Massage the feet with lanolin or cocoa butter.
(3) Don't wear circular garters.
(4) Don't sit with the knees crossed.
159. Abrasions of skin.- $a$. Proper first-aid treatment is of the utmost importance even in apparently minor injuries. Consult the medical officer immediately.
b. Avoid strong irritating antiseptics such as iodine.
c. As soon as possible after injury some surgeons recommend the application of sterile gauze saturated in medicated alcohol or hexylresorcinol (S. T. 37). Sterile gauze in sealed packets may be purchased at drug stores.
d. Elevate the part as much as possible until recovery has taken place and avoid using the foot.
$e$. Consult your doctor for any redness, pain, swelling, or other evidence of inflammation.
160. Surgery.-Many people still think that those suffering from diabetes mellitus should not be submitted to surgery. This is wrong. Such patients may be operated without any unusual risk if they have been properly prepared. Even emergency operations may be performed with safety if instructions are followed regarding diet and insulin. It is important to you that you inform any doctor who may be called in that you have diabetes mellitus.
161. Food.-a. Beverages.-If coffee or tea are liked they may be taken but it is best to use not more than three cups of either per day. Cream served with meals may be used in the coffee or tea but sugar should be omitted.
b. Condiments.-Pepper, salt, spices, and vinegar may be used as always unless otherwise instructed.
c. Special foods.-(1) Foods advertised as special diabetic foodstuffs are unnecessary. The composition of these foods is more or less uncertain. It is much better to use simple foods in the prescribed quantities properly prepared. Regardless of advertisement stating certain special foodstuffs are safe for the person suffering from diabetes, remember that all foods are dangerous unless they are taken in prescribed amounts.
(2) It is also important to remember that recipes requiring the use of several foods are to be regarded with suspicion. Do not use anyof these unless they have been recommended by the medical officer
balancing your diet and he has made proper allowance in the diet for them.
d. Food values.- In order to do extension work on the daily menus which are furnished it will be necessary to have reference to a table of food values. They will not be furnished in these instructions as it is expected the patient will provide himself with a diabetic manual and in it will be found a table of food values adequate for all practical purposes.
e. Practical data.-(1) A calorie is a heat unit and it represents the quantity of heat necessary to raise 1 kilogram of water $1^{\circ} \mathrm{C}$. or about 1 pound of water $4^{\circ} \mathrm{F}$.

1 gram of protein equals four calories.
1 gram of carbohydrate equals four calories.
1 gram of fat equals nine calories.
(2) To figure the total sugar content in your diet, remember-
(a) All carbohydrates are 100 percent sugar.
(b) All protein is 58 percent sugar.
(c) All fat is 10 percent sugar.

It is the sugar content of the diet that aids so markedly in the utilization of fat and this is known as the antiketogenic content of the diet.
(3) The fat content is obtained as follows:
(a) Carbohydrate produces no fat.
(b) Protein produces 46 percent fatty material.
(c) Fat produces 90 percent fat.

This is known as the ketogenic material of the diet and the proper ratio between the two is not more than $1 \mathrm{~A} . \mathrm{K}$. to 1.5 K . Often it is advisable to reduce this ratio to $1 \mathrm{~A} . \mathrm{K}$. to 1 K . With the introduction of the relatively high carbohydrate diet this ratio is automatically taken care of.
(4) Maintenance diet is from 30-35 calories per kilo of proper weight, according to occupation, age, complicating diseases, etc.
(5) Protein is given at the rate of 1 gram per each kilo of proper weight of patient as a rule, except in children, when it may be increased to $2 \frac{1}{2}$ times that amount.
(6) The carbohydrate allowance is usually kept between the range of 100 to 200 grams. In computing the number of grams of carbohydrate the number of calories allowed for protein is deducted from the total number of calories. The remaining calories are distributed on the basis of 1 to $11 / 2$ grams of carbohydrate for each gram of fat.
(7) The fat allowance is rarely above 150 grams and usually not above 100 grams.
f. Menus.-After the case has been studied patient will be put on a maintenance diet. This means a diet that will properly sustain at occupation. When this diet is started patient will be given a typewritten copy of each menu. These menus have already been converted into actual weights and measurements. Patient should save all these menus and insert the ones that appeal most on pages provided for that purpose. They will be very helpful to those preparing the diet after leaving the hospital. Extension and conversion of diets into weights, measurements, and menus is encouraged and while in hospital patient will become proficient if an earnest effort is made. The menus furnished have been carefully checked and are accurate. They should be preserved and used.
162. Materials required.-Procure the following and have ready for use when discharged from the hospital:

Insulin (1 month's supply).
Two insulin syringes.
Six rustproof, $1 / 2$-inch, 24 -gage hypodermic needles.
One bottle medicated alcohol.
One-half pound absorbent cotton.
One dietetic scales.
One diabetic manual.
One bottle Benedict's qualitative solution.
Six test tubes.
One test tube holder.
One test tube brush.
One medicine dropper (long).
163. Sample forms for menus and daily urinalysis and blood sugar records.-These forms should be page size in pamphlet.
a. Selected menus.

## MAINTENANCE DIET

(Insert here only maintenance diet menus.)
Monday
Tuesday
(Pamphlet should contain pages sufficient to incorporate diet menus for 14 days.)
b. Urinalysis record.

## DAILY URINALYSIS

(Enter date urine is positive for sugar.)
Urine should be examined daily, using early morning specimen.

c. Blood sugar record.

## BLOOD SUGAR

(Record here the date and finding of each blood sugar determination.) Have blood sugar determination made

| Date | Blood sugar | Date | Blood sugar |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
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## Section V

## TEST DIETS

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Galactose tolerance test ..... 166
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## 164. Ewald test meal.

Water or tea, $1 \frac{1}{2}$ glasses.
Toast, 60 grams (2 slices).
If desired may substitute 160 grams farina or sieved oatmeal for the toast.
165. Gastric fractional analysis with oatmeal.-a. To 1 quart of water add 2 teaspoonfuls oatmeal.
b. Boil down to 1 pint and salt to taste.
c. Strain through a cloth.
d. Patient takes this with gastric fractional tube in the stomach after fasting overnight and fasting contents have been extracted. Be sure stomach is empty before giving oatmeal.
166. Galactose tolerance test.

Fast overnight.
Galactose, 40 grams.
Water, 500 cc.
Lemon juice to taste.
a. Procedure.-Take the above at 7:00 AM and collect urine hourly for 5 hours during which time water may be taken freely. Do not take any food. Mix all urine and test with Benedict's quantitative solution and calculate total amount of sugar excreted.
b. Interpretation.-Normally the liver will utilize 37 to 40 grams of galactose during the 5 hour period. Therefore, if more than 3 grams of sugar is found in the urine, pathology of the liver is present. This is a good test to differentiate toxic or infectious jaundice from obstructive or hemolytic jaundice.

## 167. Sugar tolerance test.

Glucose, 1 gram per kilo of body weigbt.
Orange juice, 200 cc.
Omit breakfast and give the above and take blood and urine specimens as outlined in the test.
168. Menu for use in cholecyptography.-a. Supper.-Evening before dye is taken:

Baked potato.
Toast without butter.
Puréed fruit.
Tea.
Do not permit any food with this meal that contains fat.
b. Breakfast.--None.
c. Dinner.

Beef broth, enriched with butter.
Bread.
Butter, 2 patties.
Bacon, 3 slices.
Cream, $1 / 2$ glass.

## Chapter 5

## MENUS

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Section I
CONSTRUCTION
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169. Mess operation.- $a$. In the operation of a mess with a fixed allowance, care must be exercised in all departments if satisfactory meals are to be served. It is not the purpose to describe herein the proper economical operation of a satisfactory mess. A good purchase system properly supervised, adequate storage, and carefully supervised issues are primary steps of great importance. To this should be added another extremely important step that is often lacking. It is the proper organization of the kitchen personnel into competent groups necessary to man the various messes in operation. The mere organization is not enough. Somebody must see that there is efficient operation of these groups, and that food is not wasted. It is realized that some waste is inevitable in all kitchens but it can be kept to a minimum. Someone must plan suitable, well-balanced diets. This someone can be none other than the person in charge of the mess. Food having been purchased, stored, and issued properly is only the beginning. It now becomes a real duty to effect economy in the various departments of the mess and see that the food is properly prepared.
b. In a general hospital there are several messes all operated under one head. Some of these messes require more elaborate menus because the allowances for food differ. Besides this, there are many types of diets to be prepared for patients throughout the hospital. It is important in planning menus so to plan them that some of the liquid, light, soft, and special diets can be prepared from the same foods used
in the regular or full diets. Diets must be planned so that food not used in one mess can be readily utilized in another. Only the best or choice foods should be purchased, for it is the most economical in the long run.
c. The method of combining various articles of the diet to form the menu is indicated in paragraph 170. It must be remembered that even if all the food purchased is the best, it can be spoiled by using poor combinations of items. It is for this reason that the table is provided. Following this outline will be found many menus. Many of these have been constructed and the critical might believe too many are listed. The purpose of constructing them at all is to furnish to those with less experience in this field a working basis. Many hospitals begin with partially trained personnel and this is especially true of the mess sergeants and mess officers. To these, extensive listing of menus should be most welcome. Special attention is called to liquid, light, and regular diets for patients on both enlisted and officer status. The date is quoted on these to show how one diet dovetails into the other and will be of great value to the mess officer. This prevents extra purchases and is a great saving financially. The group of therapeutic diets is believed to be sufficiently large to handle the most common cases. These too will be of most velue in new or smaller hospitals where the personnel is being trained or possibly where the hospital is too small to justify dietitians. In such places, it is just as important the patient receive the proper diet as it is in the larger institutions. Any good cook can prepare the food if he has the menus. It is therefore felt that the space devoted to carefully planned house and therapeutic diets will be valuable to mess sergeants and mess officers, especially those with limited training in this field.
d. By following this outline and method of preparing menus assurance can be given that patients will have served to them the proper diet and the meals will be distinctly better at a lower cost.
170. Combination of foods to form menu.

| Soup | Main dish | Starchy food | Watery vegetable | Salad | Dessert |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Bean. Split pea. Vegetable. | Beef, boiled. <br> Beef, roasted. <br> Beef, loaf. <br> Sirloin steak. <br> Porterhouse steak. <br> Hamburger steak. <br> Swiss steak. <br> Round steak. | Sweet potatoes. <br> Irish potatoes. <br> Hominy. <br> Rice. <br> Lima beans. | String beans. Cabbage. Greens. Spinach. Onions. | Tomato, beet, or grated carrot on lettuce. <br> Artichokes. Coleslaw. | Cake. <br> Pineapple pie. Pumpkin pie. Raisin pie. |
| Green pea. <br> Cream tomato. <br> Chicken rice. <br> Clam broth. <br> Strained vegetable. | Roast chicken. Fried chicken. Broiled chicken. Chicken fricasse. Chicken pie. Chicken salad. Turkey. | Creamed potatoes. <br> Mashed potatoes. <br> Baked potatoes. <br> Rice. <br> Grits. <br> Mushrooms. <br> Sweet potatoes. | Brussels sprouts. <br> Asparagus. <br> Buttered beets. <br> Broccoli. <br> Peas. <br> Cauliflower. <br> Green corn. <br> Diced carrots. <br> String beans. <br> Squash. | Tomato-lettuce. <br> Lettuce. <br> Perfection. <br> Fruit gelatin. Combination. Waldorf. | Sliced fruit. Ice cream. Cake. Pie. |
| Consomme. Oyster. Lentil. | Duck, roasted. | Riced potatoes. Candied sweet potatoes. <br> Boiled rice. Wild rice. | Creamed onions. <br> Buttered beets. <br> Spinach. <br> Green peas. <br> String beans. <br> Buttered carrots. | Fruit. <br> Vegetable. | Sliced fruit. <br> Ice cream. Cake. Pie. |

Combination of foods to form menu-Continued.

| Soup | Main dish | Starchy food | Watery vegetable | Salad | Dessert |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Creamed celery. <br> Celery. <br> Split pea. <br> Fish chowder. | Fish, fried. Fish, baked. Fish, boiled. | Baked potato. <br> Browned sweet potato. <br> Stewed lima beans. | Green peas. Broccoli. Boiled spinach. Green corn. | Fruit. <br> Vegetable. | Lemon pie. <br> Rhubarb pie. <br> Apple pie. <br> Mince pie. |
| Vegetable. Tomato. Split pea. Bean. | Lamb roast. Lamb chops. Lamb stew. | Pan-roasted potatoes. <br> Parsley potatoes. <br> Boiled rice. <br> Hashed brown potatoes. <br> Macaroni au gratin. <br> Hominy. <br> Dumplings. | Artichokes. <br> Green peas. <br> Asparagus. <br> Stewed tomatoes. <br> Buttered beets. | Tomato. <br> Grapefruit and orange. <br> Sliced pineapple. <br> Grated carrots with raisins. | Apple dumplings. Plum pudding. Bread pudding. Ice cream. Lemon pie. |
| Consomme. <br> Tomato bouillon. Chicken bouillon. Clam broth. | Pork roast. <br> Pork chops. <br> Ham. <br> Spare ribs. | Candied sweet potatoes. <br> Hominy. <br> Grits. <br> Fried corn meal mush. <br> Mashed potatoes. | Baked squash. <br> Buttered turnips. <br> Spinach. <br> Chard. <br> Cabbage. <br> Sauerkraut. <br> Brussels sprouts. <br> Buttered beets. | Cole slaw. <br> Fruit. <br> Lettuce hearts. <br> Sliced tomato. <br> Waldorf. | Plain cake. <br> Fruit tapioca. Sliced fruit. |


| Vegetable. Tomato. | Roast Veal. <br> Veal cutlets. <br> Veal chops. <br> Veal loaf. <br> Veal stew. | Mashed potatoes. <br> Hashed brown potatoes. <br> Baked potato. | String beans. <br> Eggplant. <br> Brussels sprouts. <br> Asparagus. <br> Summer squash. <br> Buttered beets. <br> Green peas. | Combination. <br> Lettuce with <br> French dressing. <br> Perfection. <br> Pickled beets. | Vanilla ice cream. Spanish cream. Sliced fruit. Chocolate pudding with cream. Tapioca pudding. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Creamed pea. Creamed celery. Potato. <br> Vegetable. <br> Pepper pot. | Baked beans and bacon. | Baked potatoes. <br> Hashed brown potatoes. <br> Boiled potatoes. <br> French fried potatoes. | Cauliflower au gratin. <br> Spinach. <br> Broccoli. <br> Sliced tomatoes. | Lettuce. Potato. Cole slaw. Combination. | Apple cobbler. <br> Berry pie. <br> Gingerbread. <br> Tapioca pudding. <br> Fresh fruit. |

171. Carbohydrate content of fruits and vegetables (Cir. No. 549, U. S. Department of Agriculture) (see also table I, app. I). a. Group 1 (3 percent carbohydrate).

Asparagus, fresh.
Asparagus, canned, including Mustard greens, fresh. sieved. Orach, garden, fresh.
Asparagus-bean sprouts, fresh.
Bamboo shoots, fresh.
Basella, fresh.
Beans, green and wax, canned, in- Quinoa, fresh. cluding sieved.
Bean sprouts (from mung beans), Rhubarb, fresh. fresh.
Beet greens, fresh.
Broccoli, fresh.
Cabbage, fresh.
Cabbage, Chinese, fresh.
Cauliflower, fresh.
Cauliflower, canned.
Celery, fresh.
Celery, canned, sieved.
Chard, fresh.
Chayote, leaves, fresh.
Chicory, leaves, fresh.
Cornsalad, fresh.
Cress, garden, fresh.
Cucumbers, fresh.
Dock, fresh.
Endive, fresh.
Escarole, fresh.
Fennel, fresh.
"French endive," fresh.
Rhubarb, canned, w. p.
Rutabaga tops, fresh.
Sauerkraut, fresh.
Sauerkraut, canned.
Seakale, fresh.
Sorrel, fresh.
Spinach, fresh.
Spinach, canned, including sieved.
Spinach, New Zealand, fresh.
Squash, summer, fresh.
Taro shoots, fresh.
Tomatoes, fresh.
Tomatoes, canned.
Tomato juice, canned.
Turnip tops, fresh.
Udo shoots, fresh.
Vegetable marrow, fresh.
Vinespinach, fresh.
Water cress, fresh.
b. Group 2 (6 percent carbohydrate).

Amaranth, fresh.
Anserine, fresh.
Beans, hyacinth-beans, pods, Celery root or celeriac, fresh. fresh.
Beans, scarlet runner, green pods. Chives, fresh.
Beans, snap, green and wax, fresh. Collards, fresh.
Blackberries, canned, w. p.
Borage, fresh.

Cantaloupe.
Carrots, canned, including sieved.
Chayote, fruit, fresh.

Dandelion greens, fresh.
Dasheen, leaves and stems, fresh.
b. Group 2 (6 percent carbohydrate)-Continued.

Eggplant, fresh.
Gooseberries, canned, w. p.
Jew's mallow, fresh.
Kale, fresh.
Kohlrabi, fresh.
Lambsquarters, fresh.
Leeks, fresh.
Melons, honeydew, casaba and
Spanish, fresh.
Muskmelons, fresh.
Nettle, fresh.
Okra, fresh.
Onions, Welsh, fresh.
Palmetto or palmetto cabbage, Strawberry juice, fresh. fresh.
Parsley, fresh.
Peaches, canned, w. p.
Peppers, green and red, fresh.

Pimientos, canned.
Plums, excluding prunes, canned, w. p.

Pumpkin, fresh.
Pumpkin and squash, canned.
Salad-rocket, fresh.
Soy beans, green, shelled, fresh.
Soy bean sprouts, fresh.
Squash, cushaw, fresh.
Squash, winter, fresh.
Strawberries, fresh.
Strawberries, canned, w. p. and j. p.

Sweet potato tops, fresh.
Taro, leaves and stems, fresh.
Turnips, fresh.
Watermelon, fresh.

## c. Group 3 (9 percent carbohydrate).

Applesauce, canned, unsweetened. Grapefruit, fresh.

Apricots, canned, w. p.
Artichokes, globe or French, fresh.
Asparagus-beans, pods, fresh.
Beets, fresh.
Beets, canned, including sieved.
Blackberries, fresh.
Blackberries, canned, j. p.
Blackberry juice, fresh.
Blueberries, canned, w. p. and j. p.
Brussels sprouts, fresh.
Cape-gooseberry, fresh.
Carrots, fresh.
Cherries, red and white, canned, w. p.

Chervil, fresh.
Cranberries, fresh.
Currants, fresh.
Currant juice, fresh.
Gingerroot, fresh.
Gooseberries, fresh.

Grapefruit, canned, w. p. and j. p.
Grapefruit juice, fresh.
Groundcherry, fresh.
Lemons, fresh.
Lemon juice, fresh.
Lemon juice, canned.
Limes, fresh.
Limes, sweet, fresh.
Lime juice, fresh.
Loganberries, canned, w. p.
Loganberry juice, fresh.
Mamey, fresh.
Mammee apple, fresh.
Onions, fresh.
Oranges, mandarin type, fresh.
Orange juice, mandarin type, fresh.
Papayas, fresh.
Parsley, Hamburg, fresh.
Peaches, canned, j. p.
Pears, canned, w. p.
c. Group 3 (9 percent carbohydrate)-Continued.

Peas, fresh (very young). Quince juice, fresh.
Peas, canned, including sieved. Raspberries, canned, w. p.
Peas, sugar peas, green pods, fresh. Rutabagas, fresh.
Poha, fresh.
Tangerines, fresh.
Prickly pear, fresh.
Tangerine juice, fresh.
Prunes, canned, w. p.
d. Group 4 (12 percent carbohydrate).

Apple juice, fresh. Oranges, fresh.
Applesauce, canned, j. p. Oranges, Seville or sour, fresh.
Apricots, fresh.
Apricots, canned, j. p.
Orange juice, fresh.
Apricots, canned, sieved, unsweet- Peaches, fresh. ened.
Beans, lima, green, canned.
Cherries, sour, fresh.
Cherries, red and white, canned, Pears, canned, j. p. j. p.

Crab apple juice, fresh.
Feijoa, fresh.
Figs, canned, w. p.
Grapefruit juice, canned, unsweetened.
Grapes, canned, w. p.
Guavas, fresh.
Kumquats, fresh.
Lambsquarters, Algerian, fresh.
Loganberries, fresh.
Loganberries, canned, j. p.
Loquats, fresh.
Mulberries, fresh.
Peaches, canned, sieved, unsweetened.
Peach juice, fresh.
Pineapple, fresh.
Pineapple, canned, w. p.
Pineapple juice, fresh.
Pineapple juice, canned.
Pitanga, fresh.
Plums, excluding prunes, fresh.
Quinces, fresh.
Raspberries, fresh.
Raspberries, canned, j. p.
Raspberry juice, fresh.
Rose apple, fresh.
Soy beans, dry seeds.
Surinam-cherry or pitanga, fresh.
e. Group 5 (15 percent carbohydrate).

Apples, fresh. Grapes, fresh.
Beans, broadbeans, green, shelled. Huckleberries, fresh.
Beans, red kidney, canned.
Black salsify, fresh.
Blueberries, fresh.
Blueberry juice, fresh.
Cherries, black, canned, w. p.
Corn, fresh (very young).

Huckleberry juice, fresh.
Jerusalem artichokes, tubers, fresh.
Mangos, fresh.
Nectarines, fresh.
Oca, fresh.
Onions, top onions, fresh.
e. Group 5 (15 percent carbohydrate)-Continued.

Papaws, fresh.
Parsnips, fresh.
Pears, fresh.
Peas, fresh (medium mature).

Pineapple, canned, j. p.
Salsify, fresh.
Shallot, fresh.
Vegetable oyster or salsify, fresh.
f. Group 6 (18 percent carbohydrate).

Beans, baked, canned.
Carissa or Natal plum, fresh.
Chayote, roots, fresh.
Cherries, sweet, fresh.
Cherries, black, canned, j. p.
Corn, sweet, canned.
Crab apples, fresh.
Figs, fresh.
Garlic, fresh.
Grandadilla, purple, fresh.
Grape juice, fresh or bottled.
Haws, scarlet, fresh.

Horseradish, fresh.
Natal plum, fresh.
Passion fruit, fresh.
Persimmons, Japanese.
Pomegranates, fresh.
Potatoes, fresh.
Prunes, canned, j. p.
Prune juice, canned.
Sapodilla, fresh.
Sapota, fresh.
Waternut, tuber, fresh.
g. Miscellaneous group (high carbohydrate).-Percentage is given in nearest whole number and fractions omitted.

Apples, dried, 73.
Apricots, dried, 67.
Asparagus beans, dried, 62.
Bananas, fresh, 23.
Bananas, dried, 71.
Beans, broadbeans, dry, 58.
Beans, kidney or common, dry, Lentils, dry, 60. 62.

Beans, lima, fresh, 62.
Beans, lima, dry, 66.
Beans, mung, dry, 63.
Black-eyed peas, 62.
Burdock, fresh, 23.
Cherimoya, fresh, 29.
Cherries, marischino, canned, 60.
Chickpeas, dry, 61.
Corn, fresh (medium mature), 22. Prunes, fresh, 21.
Corn, fresh, old, 27.
Corn, dried, 68.
Cowpeas, fresh, green shells, 23.
Cowpeas, dry, 62.

Figs dried, 68.
Fruits canned in syrup (all kinds), 18 to 21 .
Garbanzo peas, dry, 61.
Jujubes, fresh, 34.
Jujubes, dry, 76.
Litchi fruit, dried, 70.
Marmalade plum, fresh, 31.
Peaches, dried, 69.
Pears, dried, 72.
Peas, fresh, matured, 25.
Peas, dry, whole, 60.
Peas, dry split, 62.
Persimmons, native, fresh, 34.
Plantain or baking banana, fresh, 33 .
Prunes, canned, sieved, 28.
Prunes, dried, 71.
Raisins, dried, 71.
Sapote, fresh, 31.
g. Miscellaneous group-Continued.

Sugar apple, fresh, 23.
Sweetpotatoes, fresh, 28.
Sweetpotatoes, canned, 31.
Sweetsop, fresh, 23.

## 172. Low fat foods.

| Apricots. | Gooseberries. | Orange juice. |
| :--- | :--- | :--- |
| Candy. | Grapefruit. | Plums. |
| Celery. | Grape juice. | Radishes. |
| Consomme. | Honey. | Raspberries. |
| Currants. | Lemon juice. | Sugar. |
| Endive. | Molasses. | Tapioca. |
| Figs. | Muskmelon. |  |
| Fruit juice. | Nectarines. |  |

173. High calcium content foods.

Almonds. Cocoa.
Boston brown bread. Clams.
Beans, kidney, dried.
Buttermilk.
Cauliflower.
Caviar.

Dandelion greens.
Endive.
Egg yolk.
Figs.

Taro, tubers, fresh, 22.
Tomato catsup, 25.
Yams, winged, fresh, 24.

Candy.
Celery.
Consomme.
Currants.
Endive.
Figs.
Fruit juice.

Gooseberries.
Grape juice.
Honey.
Lemon juice.
Molasses.
Muskmelon.
Nectarines.

Orange juice.
Plums.
Radishes.
Raspberries.
Sugar.
Tapioca.
174. High carbohydrate content foods.

| Bananas. | Figs. | Molasses. |
| :--- | :--- | :--- |
| Breads, bean flour. | Glucose. | Prunes. |
| Chestnuts. | Honey. | Pineapple (canned). |
| Chocolate. | Junket powder. | Potatoes. |
| Coconut. | Jelly. | Plums. |
| Corn flakes. | Jams. | Peanuts. |
| Cow peas, dried. | Lentils. | Prunes, dried. |
| Currants. | Lima beans. | Pretzels. |
| Crackers. | Macaroni. | Raisins. |
| Corn meal. | Marmala e, LitchiRice. |  |
| Cornstarch. | fruits. | Rusk. |
| Candy. | Milk, swe e ten ed Sweet potatoes. |  |
| Dates. | (condensed or Syrups. |  |
| Dried fruits. | evaporated). | Short bread. |
| Flours. | Maple syrup. |  |

175. High fiber content foods (percent of edible portion).Items listed contain 3 percent or more fiber. Whole numbers used.

Apples, dried, 5.
Apricots, dried, 3.
Beans, broadbeans, dry, 7.
Beans, common, dry, 4.
Blackberries, fresh, 4.
Cherimoya, 4.
Chickpeas, dried, 4.
Coconut, shredded, 4.
Corn germ commercially milled,
5.

Cotton seed flour, 4.
Cowpeas, dry, 4.
Currants, fresh, 3.
Feijoa, 3.
Figs, fresh, 6.
Ground cherry, 3.
Guavas, 4 to 6.
Hazelnuts, 3.

Jujube, dried, 3.
Kumquats, fresh, 4.
Lentils, whole, 3 .
Litchi fruits, 3.
Olives, ripe, Greek process, 4.
Peanut flour, 4.
Dried pears, 6.
Peas, dried, whole, 5.
Pomegranate, 4.
Raspberries, fresh, black, 4.
Rice bran, 11.
Sapota, fresh, 4.
Sesame, whole seed, 3.
Soy bean meal, 5 .
Wheat bran flakes, 3 .
Wheat bran, crude, 10.
Wheat bran, washed, 17.
Wheat bran, packaged, 8 .
176. High roughage or cellulose content foods.

Apples, whole.
Apricots, dried.
Asparagus.
Beans.
Bran bread.
Bran muffins.
Brussels sprouts.
Cabbage.
Cantaloupe.
Cauliflower.
Celery.
Corn.
Dates.
Endive.
Graham bread.
Grapes.
Lentils.
Lettuce.

Nuts.
Onions.
Peaches, whole.
Pears, whole.
Plums.
Prunes.
Radishes.
Raisins.
Rice, unpolished.
Rolled oats.
Romaine.
Spinach.
String beans.
Swiss chard.
Turnips.
Vegetables (all leafy ones).
Wheat bran.
Whole barley.
177. Gas-forming food.-a. Beverages.

Carbonated drinks.
Sweetened drinks.
Malt drinks.
Wines.
All soft drinks.
b. Dairy products.-All fermented cheese.
c. Desserts.

Candy.
Honey.
Jams.
All sugars.
All sweet foods.
d. Fruits.

Apples, fresh.
Cantaloupe.
Raisins.
Watermelon.
e. Soups.

Broths, meat.
Stock soups.
All soups containing gas-forming vegetables.
f. Vegetables.

Beans, dry.
Broccoli.
Brussels sprouts.
Cabbage.
Cauliflower.
Cucumbers.
Garlic.
Lentils.
Lettuce.
Onions.
Peas, dried.
Peppers.
Radishes.
Swiss chard.
Turnips.

# HOSPITAL DIETS <br> <br> Section II <br> <br> Section II <br> <br> LIQUID, LIGHT, AND REGULAR DIETS 

 <br> <br> LIQUID, LIGHT, AND REGULAR DIETS}
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178. General mess sample menus.-a. Friday.-(1) Liquid.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Fruit juice. | Strained soup. <br> Cereal gruel. <br> Coffee, tea, or milk. | Orange sherbet. <br> Coffee, tea, or milk. | | Broth. |
| :--- |
| Fruit juice. |
| Coffee, tea, or milk. |

(2) Light.

## Kadota figs.

Cream of wheat.
Soft-boiled eggs.
Toast and butter.
Coffee, tea, or milk.

Pepper pot soup, breadsticks.
Baked fresh fish, butter sauce.
Creamed parsley potatoes.
Spinach.
Orange sherbet.
Toast and butter.
Coffee, tea, or milk.

Split pea soup.
Creamed sweetbreads.
Mashed potatoes.
Buttered lima beans.
Sliced fruit.
Toast and butter.
Coffee, tea, or milk.

## (3) Regular.

## Kadota figs.

Dry cereal.
Soft-boiled eggs.
French diced potatoes.
Toast and butter. Coffee and milk.

Pepper pot soup, breadsticks.
Fried scallops, tartar sauce.
Creamed parsley potatoes.
Spinach.
Pumpkin pie.
Bread and butter.
Coffee and milk.

Baked veal loaf, Spanish sauce.
Mashed potatoes.
Cole slaw, sour cream dressing.
Sliced fruit.
Bread and butter.
Coffee and milk.
b. Saturday.-(1) Liquid.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Fruit juice. | Strained soup. | Clear soup. <br> Cereal gruel. <br> Coffee, tea, or milk. |
| Custard. <br> Coffee, tea, or milk. | Gelatin dessert. <br> Coffee, tea, or milk. |  |

(2) Light.

Apple sauce.
Cooked cereal.
Scrambled eggs.
Toast and butter.
Jam.
Coffee, tea, or milk.

Lentil soup.
Broiled lamb chops.
Candied sweet potatoes.
Buttered peas and carrots.
Apricot Bavarian cream.
Toast and butter.
Coffee, tea, or milk.

Mock turtle soup.
Creamed eggs.
Baked parsnips.
Buttered beets.
Gelatin with whipped cream.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

|  |  |  |
| :--- | :--- | :--- |
| Fresh apples. | Lentil soup, croutons. | Beef pot pie. |
| Cooked cereal. | Baked Virginia ham, | Baked parsnips. |
| Corned beef hash. | raisin sauce. | Wilted lettuce. |
| Toast and butter. | Candied sweet potatoes. | Cherry cobbler. |
| Jam. | Buttered peas and car- <br> rots. | Bread and butter. <br> Coffee and milk. |
| Bread pudding, straw- and milk. | berry sauce. |  |
|  | Bread and butter. <br> Coffee and milk. |  |

c. Sunday.-(1) Liquid.

|  |  |  |
| :--- | :--- | :--- |
| Fruit juice. | Chicken soup. | Broth. |
| Cereal gruel. | Vanilla ice cream. | Fruit juice. |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Coffee, tea, or milk. |

(2) Light.

| Breaktast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Pineapple juice. | Chicken noodle soup. | Cream tomato soup. |
| Flaked wheat. | Chicken fricasse. | Baked potatoes. |
| Boiled egg. | Whipped potatoes. | Spinach with egg. |
| Crisp bacon. | Baked eggplant. | Sliced oranges. |
| Jelly. | Asparagus salad, mayon- | Toast and butter. |
| Toast and butter. | naise. | Coffee, tea, or milk. |
| Coffee, tea, or milk. | Vanilla ice cream. <br> Toast and butter. <br> Coffee, tea, or milk. |  |
|  |  |  |

## (3) Regular.

Pineapple juice.
Dry cereal.
Fried eggs.
Crisp bacon.
Toast and butter.
Jelly.
Coffee and milk.

Chicken noodle soup.
Fried chicken, brown gravy.
Whipped potatoes.
Corn on the cob.
Asparagus salad, mayonnaise.
Special ice cream.
Macaroons.
Bread and butter.
Coffee and milk.

Cold assorted meats.
Sliced American cheese.
Oranges.
Chocolate fudge.
Bread and butter.
Coffee and milk.
d. Monday.-(1) Liquid.

| Fruit juice. | Strained soup. | Clear soup. |
| :--- | :--- | :--- |
| Cereal gruel. | Gelatin dessert. | Custard. |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Coffee, tea, or milk. |

## (2) Light.

Stewed prunes.
Cooked cereal.
Poached eggs.
Toast and butter.
Jam.
Coffee, tea, or milk.

Barley soup.
Roast leg of lamb, gravy. Fluffed potatoes.
Scalloped tomatoes.
Tapioca cream pudding.
Toast and butter.
Coffee, tea, or milk.

Oxtail soup.
Buttered asparagus tips on toast.
Scalloped potatoes.
Mashed squash.
Baked apples with whipped cream.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Stewed prunes. Cooked cereal. Pork patties. Fried potatoes. Toast and butter. Jam. Coffee and milk. | Barley soup, croutons. Baked pork and beans. Scalloped tomatoes. Sliced pickles and onions. Cole slaw. <br> Hot cornbread. <br> Fresh apples. <br> Bread and butter. Coffee and milk. | Breaded pork chops,cream gravy. <br> Scalloped potatoes. <br> Sliced tomatoes. <br> Sweet buns. <br> Bread and butter. <br> Coffee and milk. |

e. Tuesday.-(1) Liquid.

| Fruit juice. <br> Cereal gruel. <br> Coffee, tea, or milk. | Strained soup. <br> Custard. <br> Coffee, tea, or milk. | Broth. <br> Gelatin dessert. <br> Coffee, tea, or milk. |
| :--- | :--- | :--- |

(2) Light.

Sliced grapefruit.
Oatmeal.
Coddled eggs.
Crisp bacon.
Toast and butter. Coffee, tea, or milk.

Vegetable soup, breadsticks.
Purée corn timbale.
Mashed potatoes.
Creamed carrots.
Sliced pears.
Sugar cookies.
Toast and butter.
Coffee, tea, or milk.

Tomato bouillon.
Creamed tuna fish on toast.
Baked potatoes.
Artichokes with hollandaise sauce.
Cottage cheese salad.
Sliced fruit.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

Sliced grapefruit.
Dry cereal.
Hot cakes.
Crisp bacon.
Maple syrup.
Toast and butter.
Coffee and milk.

Vegetable soup, breadsticks.
Swiss steak, brown gravy.
Mashed potatoes.
Creamed carrots.
Butterscotch pie.
Bread and butter.
Coffee and milk.

Grilled hamburger, brown gravy.
Fried potatoes.
Cottage cheese-pineapple salad, mayonnaise.
Sliced fruit.
Bread and butter.
Coffee and milk
f. Wednesday.-(1) Liquid.

| Breaktast | Dinner | Supper |
| :--- | :--- | :--- |
| Fruit juice. <br> Cereal gruel. <br> Coffee, tea, or milk. | Clear soup. <br> Gelatin dessert. <br> Coffee, tea, or milk. | Broth. <br> Vanilla iee cream. <br> Coffee, tea, or milk. |

(2) Light.

|  |  |  |
| :--- | :--- | :--- |
| Bananas. | English broth. | Chicken gumbo soup. |
| Cooked cereal. | Broiled small steaks. | crackers. |
| Scrambled eggs. | Biled potatoes. | Creamed chicken on |
| Toast and butter. | Buttered Italian squash. | toast. |
| Coffee, tea, or milk. | Fruit gelatin with whip- | Steamed rice. |
|  | ped cream. | Buttered peas. |
|  | Toast and butter. | Peach ieceream. |
|  | Coffee, tea, or milk. | Toast and butter. |
|  |  |  |
|  |  |  |

(3) Regular.

Bananas.
Cooked cereal.
Scrambled eggs.
Hot biscuits.
Honey.
Toast and butter.
Coffee and milk.

English broth, croutons.
Boiled beef, horseradish gravy.
Boiled potatoes.
Boiled rutabagas.
Fruit gelatin with whipped cream.
Bread and butter.
Coffee and milk.

Chicken a la king on toast. Steamed rice.
Hearts of lettuce, French dressing.
Doughnuts.
Bread and butter.
Coffee and milk.
g. Thursday.-(1) Liquid.

Fruit juice.
Cereal gruel.
Coffee, tea, or milk.

Strained soup.
Fruit juice.
Coffee, tea, or milk.

Consomme.
Vanilla ice cream.
Coffee, tea, or milk.

## (2) Light.

| Breaktast | Dinner | Supper |
| :---: | :---: | :---: |
| Oranges. <br> Flaked wheat. <br> Poached eggs. <br> Toast and butter. <br> Coffee, tea, or milk. | Bean soup, breadsticks. <br> Roast lamb, brown gravy. <br> Mint jelly. <br> Whipped potatoes. <br> Buttered peas. <br> Baked peaches with marshmallows. <br> Toast and butter. <br> Coffee, tea, or milk. | Consomme. <br> Cottage cheese timbale. <br> Creamed potatoes. <br> Buttered beets. <br> Vanilla ice cream. <br> Ladyfingers. <br> Toast and butter. <br> Coffee, tea, or milk. |

(3) Regular.

Oranges.
Dry cereal.
French toast, syrup.
Link sausages.
Toast and butter.
Coffee and milk.

Bean soup, breadsticks.
Roast lamb, brown gravy.
Mint jelly.
Whipped potatoes.
Buttered peas.
Nectarine pie.
Bread and butter.
Coffee and milk.

Macaroni and cheese.
Hungarian goulash.
Combination salad, may-
onnaise.
Jelly layer cake.
Bread and butter.
Coffee and milk.

## h. Friday.-(1) Liquid.

Fruit juice.
Cereal gruel.
Coffee, tea, or milk.

Broth.
Gelatin dessert.
Coffee, tea, or milk.

Clear soup.
Caramel custard. Coffee, tea, or milk.
(2) Light.

Baked apples.
Oatmeal.
Coddled eggs.
Toast and butter.
Coffee, tea, or milk.

Clam chowder.
Scrambled eggs and brains.
Scalloped potatoes.
String beans.
Rice pudding, chocolate sauce.
Toast and butter.
Coffee, tea, or milk.

Vegetable chowder.
Creamed chicken on toast.
Steamed rice.
Broccoli with hollandaise sauce.
Sliced fruit.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Breakfast | Dinner | Supper |  |
| :--- | :--- | :--- | :--- |
| Baked apples. | Clam chowder, croutons. | Breaded veal cutlets, <br> cream gravy. |  |
| Dry cereal. | Fried silver smelts, tartar <br> sauce. | French baked potatoes. <br> Soft-boiled eggs. | Sweet relish. |
| French diced potatoes. | Sliced fruit. |  |  |
| Toast and butter. | String beans. <br> Rice pudding, chocolate <br> sauce. | Bread and butter. <br> Coffee and milk. |  |
| Coffee and milk. | Bread and butter. <br> Coffee and milk. |  |  |

i. Saturday.-(1) Liquid.

Fruit juice.
Cereal gruel.
Coffee, tea, or milk.

Clear soup.
Gelatin dessert.
Coffee, tea, or milk.

Strained soup.
Fruit juice.
Coffee, tea, or milk.
(2) Light.

Stewed rhubarb.
Cooked cereal.
Poached eggs.
Toast and butter.
Coffee, tea, or milk.

Split pea soup.
Broiled lamp chops.
Baked potatoes.
Creamed celery root.
Steamed date pudding with lemon sauce.
Toast and butter.
Coffee, tea, or milk.

Julienne soup.
Creamed tuna fish.
Mashed sweet potatoes.
Baked squash.
Baked apple with whipped cream.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

Stewed rhubarb.
Cooked cereal.
Fried ham.
Fried potatoes.
Toast and butter.
Jam.
Coffee and milk.

Split pea soup, croutons.
Roast beef, brown gravy.
Baked potatoes.
Swiss chard.
Steamed date pudding with lemon sauce.
Bread and butter.
Coffee and milk.

Codfish balls, tomato sauce.
Baked squash.
Lettuce and cottage cheese-pineapple salad, mayonnaise.
Peach cobbler.
Bread and butter.
Coffee and milk.
j. Sunday.-(1) Liquid.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Fruit juice. | Broth. <br> Cereal gruel. | Orange ice. <br> Coffee, tea, or milk. |

(2) Light.

Tomato juice.
Flaked wheat.
Scrambled eggs.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Cream tomato soup.
New York cut steak.
Mashed potatoes.
Buttered asparagus tips.
Vanilla ice cream.
Sugar cookies.
Toast and butter.
Coffee, tea, or milk.

Bouillon.
Scalloped sweetbreads.
Baked potatoes.
Glazed fresh carrots.
Custard bread pudding.
Toast and butter.
Coffee, tea, or milk.

## (3) Regular.

Tomato juice.
Dry cereal.
Fried eggs.
Crisp bacon.
Toast and butter.
Coffee and milk.

Cream tomato soup, crackers.
New York cut steak, brown gravy.
Mashed potatoes.
Buttered asparagus.
Crab cocktail.
Special ice cream.
Sugar cookies.
Bread and butter.
Coffee and milk.

Cold sliced roast beef.
Sliced American cheese.
Potato salad.
Fresh apples.
Coconut fudge.
Bread and butter.
Coffee and milk.

## k. Monday.- (1) Liquid.

Fruit juice.
Cereal gruel.
Coffee, tea, or milk.

Consomme.
Fruit juice.
Coffee, tea, or milk.

Strained soup.
Gelatin dessert.
Coffee, tea, or milk.
(2) Light.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Stewed prunes. Cooked cereal. Soft-boiled eggs. Toast and butter. Coffee, tea, or milk. | Corn chowder. <br> Chicken fricassee. <br> Candied sweet potatoes. <br> Spinach. <br> Floating island pudding. <br> Toast and butter. <br> Coffee, tea, or milk. | Jackson soup. <br> Breaded tomatoes with diced bacon. <br> Glazed parsnips. <br> Steamed rice. <br> Fruit gelatin with whipped cream. <br> Toast and butter. Coffee, tea, or milk. |
| (3) Regular. |  |  |
| Stewed prunes. Cooked cereal. Creamed beef on toast. Toast and butter. Jam. Coffee and milk. | Corn chowder, croutons. Roast loin of pork, brown gravy. <br> Bread dressing. <br> Candied sweet potatoes. <br> Spinach. <br> Cottage pudding, strawberry sauce. <br> Bread and butter. Coffee and milk. | Veal pot pie. <br> Fried hominy. <br> Hearts of lettuce, French dressing. <br> Sweet buns. <br> Bread and butter. <br> Coffee and milk. |

l. Tuesday.-(1) Liquid.

|  |  |  |
| :--- | :--- | :--- |
| Fruit juice. | Clear soup. | Broth. |
| Cereal gruel. | Custard. |  |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Gelatin dessert. |
|  |  |  |

## (2) Light.

Oranges.
Oatmeal.
Scrambled eggs.
Crisp bacon.
Toast and butter. Coffee, tea, or milk.

Oxtail soup, breadsticks.
Scalloped brains.
Boiled potatoes.
Buttered diced carrots.
Pineapple Bavarian cream
Toast and butter.
Coffee, tea, or milk.

Cream pea soup.
Creamed eggs.
Boiled potatoes.
Artichokes with hollandaise sauce.
Sliced fruit.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Breakfast | Dinner | Supper |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
| Oranges. | Oxtail soup, breadsticks. | Fried oysters, tomato <br> sauce. |  |
| Dry cereal. | Boiled corned beef. |  |  |
| French toast, syrup. | Creamed cabbage. | Fried potatoes. |  |
| Crisp bacon. | Boiled potatoes. | Shredded lettuce, French |  |
| Toast and butter. | Boiled onions. | dressing. |  |
| Coffee and milk. | Butterscotch pie. | Sliced fruit. |  |
|  | Bread and butter. | Bread and butter. |  |
|  | Coffee and milk. | Coffee and milk. |  |

m. Wednesday.-(1) Liquid.

| Fruit juice. <br> Cereal gruel. <br> Coffee, tea, or milk. | Strained soup. <br> Custard. <br> Coffee, tea, or milk. | Clear soup. <br> Vanilla ice cream. <br> Coffee, tea, or milk. |
| :--- | :--- | :--- |

- (2) Light.

Bananas.
Cooked eereal.
Poached eggs.
Toast and butter.
Honey.
Coffee, tea, or milk.

Vegetable soup.
Creamed lamb on toast.
Mashed potatoes.
Buttered beets.
Tapioca cream pudding.
Toast and butter.
Coffee, tea, or milk.

Tomato bouillon.
Creamed chicken on toast.
Steamed rice.
Asparagus tips salad, mayonnaise.
Vanilla ice cream.
Cookies.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

## Bananas.

Cooked cereal.
Fried eggs.
Hot biscuits, honey.
Toast and butter.
Coffee and milk.

Vegetable soup, croutons.
Pot roast of beef, brown gravy.
Mashed potatoes.
Dumplings.
Scalloped corn.
Spice cake with whipped cream.
Bread and butter.
Coffee and milk.

Chicken croquettes, giblet gravy.
Steamed rice.
Asparagus salad, mayonnaise.
Mincemeat turn-overs.
Bread and butter.
Coffee and milk.
n. Thursday.-(1) Liquid.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Fruit juice. | Broth. | Clear soup. |
| Cereal gruel. | Fruit juice. |  |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Gelatin dessert. |
|  |  | Coffee, tea, or milk. |

(2) Light.

Apple sauce. Flaked wheat. Soft-boiled eggs. Toast and butter. Coffee, tea, or milk.

Rivel soup, breadsticks.
Creamed sweetbreads on toast.
Baked potatoes.
Buttered fresh asparagus tips.
Bread pudding, caramel sauce.
Toast and butter.
Coffee, tea, or milk.

Cream celery soup.
Broiled lamb chops.
Mashed potatoes.
Buttered peas.
Chocolate sponge.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

Apple sauce.
Dry cereal.
Hot cakes, maple syrup. Link pork sausage. Toast and butter. Coffee and milk.

Rivel soup, breadsticks.
Rolled roast of veal, brown gravy.
Baked potatoes.
Creamed cauliflower.
Bread pudding, caramel sauce.
Bread and butter.
Coffee and milk.

Grilled hamburgers, brown gravy.
Lyonnaise potatoes.
Sliced tomatoes.
Jelly doughnuts.
Bread and butter.
Coffee and milk.
o. Friday.-(1) Liquid.

| Fruit juice. | Clear soup. | Bouillon. |
| :--- | :--- | :--- |
| Cereal gruel. | Custard. |  |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Gelatin dessert. |
| Coffee, tea, or milk. |  |  |

(2) Light.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Stewed prunes. | Fish chowder. <br> Cooked cereal. | Baked filet of sole with <br> lemon. |
| Scrambled eggs. <br> Toast and butter. | Bouillon. <br> Creamed chicken and <br> mushrooms on toast. <br> toes. parsley pota- <br> Coffee and milk. | Mashed squash. <br> Baked eggplant. <br> Grapenut custard. <br> Toast and butter. <br> Coffee, tea, or milk. |
|  |  | Sliced fruit. <br> Toast and butter. <br> Cookies. <br> Coffee, tea, or milk. |

## (3) Regular.

Stewed prunes.
Cooked cereal.
Scrambled eggs.
Toast and butter.
Jam.
Coffee, tea, or milk.

Fish chowder, croutons.
Fried filet of sea bass, tartar sauce.
Creamed parsley potatoes.
Swiss chard.
Peach pie.
American cheese.
Bread and butter.
Coffee and milk.

Grilled frankfurters.
German fried potatoes.
Combination salad, mayonnaise.
Sliced fruit.
Bread and butter.
Coffee and milk.
p. Saturday.-(1) Liquid.

Fruit juice.
Cereal gruel.
Coffee, tea, or milk.

Strained soup.
Custard.
Coffee, tea, or milk.

Clear soup.
Fruit juice.
Coffee, tea, or milk.
(2) Light.

Baked apples.
Cream of wheat.
Poached eggs.
Toast and butter.
Coffee, tea, or milk.

Lentil soup.
Small broiled steak.
Creamed potatoes.
Buttered carrots.
Tapioca pudding, fruit sauce.
Toast and butter.
Coffee, tea, or milk.

Cream tomato soup.
Artichokes with hollandaise sauce.
Mashed potatoes.
Creamed celery root.
Lettuce.
Cottage cheese and pear salad.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Fresh apples. | Lentil soup, croutons. | Veal pot pie. |
| Dry cereal. | Swiss steak, brown gravy. | Fried hominy. |
| Corned beef hash. | French fried potatoes. | Lettuce. |
| Hot biscuits, honey. | Buttered carrots. | Cottage cheese and pear |
| Toast and butter. | Tapioca pudding, fruit <br> salad, mayonnaise. <br> sauce. | Coffee cake. <br> Coffee and milk. |
|  | Bread and butter. <br> Coffee and milk. | Coffee and butter. milk. |
|  |  |  |

## q. Sunday.-(1) Liquid.

|  |  |  |
| :--- | :--- | :--- |
| Fruit juice. | Broth. | Strained soup. |
| Cereal gruel. | Butterscotch ice cream. <br> Coffee, tea, or milk. | Custard. <br> Coffee, tea, or milk. | | Coffee, tea, or milk. |
| :--- |

## (2) Light.

## Pineapple juice.

Flaked wheat. Coddled eggs. Fried bacon.
Toast and butter. Coffee, tea, or milk.

Noodle soup.
Broiled chicken, cream gravy.
Baked sweet potatoes.
Buttered peas.
Fruit cocktail.
Butterscotch ice cream.
Toast and butter.
Coffee, tea, or milk.

Jackson soup.
Tuna fish timbale.
Creamed hominy.
Buttered string beans.
Baked apples with whipped cream.
Toast and butter.
Coffee, tea, or milk.

## (3) Regular.

Pineapple juice.
Dry cereal.
Fried eggs.
Fried bacon.
Toast and butter.
Coffee and milk.

Noodle soup, crackers.
Roast leg of pork, brown gravy.
Bread dressing.
Baked sweet potatoes.
Buttered peas.
Fruit cocktail.
Special ice cream.
Ladyfingers.
Bread and butter.
Coffee and milk.

Cold assorted meats.
Sliced American cheese.
Macaroni and shrimp salad.
Fresh apples.
Bread and butter.
Coffee and milk.
r. Monday.-(1) Liquid.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Fruit juice. | Clear soup. | Broth. |
| Cereal gruel. | Fruit juice. |  |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Gelatin dessert. |
|  |  | Coffee, tea, or milk. |

(2) Light.

Oranges.
Cooked cereal.
Poached eggs.
Toast and butter. Jelly.
Coffee, tea, or milk.

Pepper pot soup.
Broiled lamb chops.
Creamed potatoes.
Baked squash.
Bananas.
Toast and butter.
Coffee, tea, or milk.

Mock turtle soup.
Creamed eggs.
Mashed potatoes.
Buttered beets.
Spanish cream.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

Oranges.
Cooked cereal.
Fried ham.
Fried potatoes.
Toast and butter.
Jelly.
Coffee and milk.

Pepper pot soup, croutons.
Baked pork and beans.
Scalloped tomatoes.
Green onions.
Sliced pickles.
Hot corn bread.
Bananas.
Bread and butter.
Coffee and milk.

Grilled pork chops, cream gravy.
Fried potatoes.
Hearts of lettuce, French dressing.
Gooseberry cobbler.
Bread and butter.
Coffee and milk.

## s. Tuesday.-(1) Liquid.

|  |  |  |
| :--- | :--- | :--- |
| Fruit juice. | Strained soup. | Chicken broth. <br> Cereal gruel. |
| Ice cream. <br> Coffee, tea, or milk. | Coffee, tea, or milk. <br> Coffee, tea, or milk. |  |

(2) Light.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Kadota figs. Oatmeal. Scrambled eggs. Toast and butter. Coffee, tea, or milk. | Vegetable soup, breadsticks. <br> Scalloped brains. <br> Mashed potatoes. <br> Spinach. <br> St. Patrick's ice cream. <br> Shamrock cookies. <br> Toast and butter. <br> Coffee, tea, or milk. | Chicken gumbo soup. <br> Chicken fricassee. <br> Steamed rice. <br> Broccoli with hollandaise sauce. <br> Sliced fruit. <br> Toast and butter. <br> Coffee, tea, or milk. |

(3) Regular.

Kadota figs.
Dry cereal.
Hot cakes, maple syrup.
Link sausage.
Toast and butter.
Coffee and milk.

Vegetable soup, breadsticks.
Baked Virginia ham, raisin sauce.
Mashed potatoes.
Spinach.
Pumpkin pie.
Bread and butter.
Coffee and milk.

Chicken fricassee with dumplings.
Steamed rice.
Lettuce and asparagus, mayonnaise.
Sliced fruit.
Bread and butter.
Coffee and milk.
t. Wednesday.-(1) Liquid.

| Fruit juice. | Strained soup. | Clear soup. |
| :--- | :--- | :--- |
| Cereal gruel. | Gelatin dessert. | Fruit juice. |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Coffee, tea, or milk. |

(2) Light.

|  |  |  |
| :--- | :--- | :--- |
| Baked apples. | Barley soup. | Mushroom soup. |
| Cooked cereal. | Fluffed meat balls. | Philadelphia cream cheese. |
| Coddled eggs. | Boiled potatoes. | Mashed potatoes. |
| Toast and butter. | Fresh asparagus tips. | Buttered carrots and peas. <br> Coffee, tea, or milk. |
| Prune whip with whipped <br> cream. | Floating island pudding. <br> Toast and butter. |  |
|  | Toast and butter. <br> Coffee, tea, or milk. |  |
|  |  |  |

(3) Regular.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Baked apples. <br> Cooked cereal. <br> Fried eggs. <br> French diced potatoes. <br> Toast and butter. <br> Jam. <br> Coffee and milk. | Barley soup, croutons. Boiled corned beef. <br> Boiled potatoes. <br> Boiled cabbage. <br> Boiled rutabagas. <br> Prune whip with whipped cream. <br> Bread and butter. Coffee and milk. | Ravioli, mushroom sauce. <br> Short ribs of beef, gravy. Wilted lettuce. <br> Stollen. <br> Bread and butter. <br> Coffee and milk. |

u. Thursday.-(1) Liquid.

|  |  |  |
| :--- | :--- | :--- |
| Fruit juice. | Consomme. | Broth. |
| Cereal gruel. | Ice cream. |  |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Custard. |
|  |  |  |

(2) Light.

## Bananas.

Cream of wheat.
Poached eggs.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Split pea soup.
Cheese fondue.
Mashed potatoes.
Baked eggplant.
Peach sherbet.
Toast and butter.
Coffee, tea, or milk.

Consomme.
Fish cakes.
Creamed potatoes.
Buttered beets.
Sliced fruit.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

|  |  |  |
| :--- | :--- | :--- |
| Bananas. | Split pea soup, croutons. | Macaroni and cheese. |
| Dry cereal. | Roast beef, brown gravy. | Spanish meat balls. |
| French toast, syrup. | Mashed potatoes. | Combination salad, may- |
| Crisp bacon. | Succotash. | onnaise. |
| Toast and butter. | Apricot pie. | Sliced fruit. |
| Coffee and milk. | Bread and butter. | Bread and butter. |
|  | Coffee and milk. | Coffee and milk. |

v. Friday.-(1) Liquid.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Fruit juice. | Clear soup. | Strained chicken soup. <br> Cereal gruel. <br> Coffee, tea, or milk. |
| Custard.  <br> Coffee, tea, or milk. Gelatin dessert. <br> Coffee, tea, or milk.  |  |  |

(2) Light.

Stewed rhubarb. Oatmeal. Soft-boiled eggs. Toast and butter. Coffee, tea, or milk.

Clam chowder, breadsticks.
Baked halibut, lemon butter sauce.
Buttered parsley potatoes.
Buttered string beans.
Rice pudding.
Toast and butter.
Coffee, tea, or milk.

Chicken rice soup.
Scalloped chicken with mushrooms.
Baked potato.
Broccoli with hollandaise sauce.
Fruit gelatin with whipped cream.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

Stewed rhubarb.
Dry cereal.
Soft-boiled eggs.
Hot biscuits, honey.
Toast and butter.
Coffee and milk.

Clam chowder, breadsticks.
Fried filet of sole, tartar sauce.
Buttered parsley potatoes.
String beans.
Rice pudding with lemon sauce.
Bread and butter.
Coffee and milk.

Breaded veal cutlet, cream gravy.
French baked potatoes.
Sliced tomatoes.
Jelly roll.
Bread and butter.
Coffee and milk.
w. Saturday.-(1) Liquid.

| Fruit juice. | Strained soup. <br> Cereal gruel. <br> Coffee, tea, or milk. | Fruit juice. <br> Coffee, tea, or milk. |
| :--- | :--- | :--- | | Clear soup. |
| :--- |
| Gelatin dessert. |
| Coffee, tea, or milk. |

(2) Light.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Apple sauce. | Bean soup. | Noodle soup. |
| Cooked cereal. | Broiled lamb chops. | Scrambled brains and eggs. |
| Poached eggs. | Boiled potatoes. | Mashed potatoes. |
| Toast and butter. | Baked squash. | Buttered carrots. |
| Coffee, tea, or milk. | Chocolate marshmallow | Bananas. |
|  | pudding. | Toast and butter. |
|  | Toast and butter. | Coffee, tea, or milk. |
|  | Coffee, tea, or milk. |  |
|  |  |  |

## (3) Regular.

Fresh apple.
Cooked cereal.
Country sausage.
Fried potatoes.
Toast and butter.
Coffee and milk.

Bean soup, croutons.
Baked spare ribs, spanish sauce.
Boiled potatoes.
Sauerkraut.
Chocolate cream pie.
Bread and butter.
Coffee and milk.

Hot roast beef sandwich, brown gravy.
Mashed potatoes.
Hearts of lettuce, French dressing.
Bananas.
Bread and butter.
Coffee and milk.
x. Monday.-(1) Liquid.

|  | Fruit juice. | Clear soup. <br> Cereal gruel. <br> Coffee, tea, or milk.Gelatin dessert. <br> Coffee, tea, or milk. |
| :--- | :--- | :--- | | Fruit juice. |
| :--- |
| Coffee, tea, or milk. |

## (2) Light.

Stewed prunes.
Cooked cereal.
Scrambled eggs.
Toast and butter.
Jelly.
Coffee, tea, or milk.

English broth.
Small broiled steak.
Buttered diced potatoes.
Italian squash.
Fruit gelatin with
whipped cream.
Toast and butter.
Coffee, tea, or milk.

Corn chowder.
Artichokes with butter sauce.
Steamed rice.
Buttered string beans.
Sliced fruit.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Stewed prunes. <br> Cooked cereal. <br> Creamed beef on toast. <br> Toast and butter. <br> Jelly. <br> Coffee and milk. | English broth, croutons. <br> Italian spaghetti. <br> Hungarian goulash. <br> Italian squash. <br> Fruit gelatin with <br> whipped cream. <br> Bread and butter. <br> Coffee and milk. | Individual chicken pie. <br> Steamed rice. <br> Shredded lettuce, French dressing. <br> Sliced fruit. <br> Bread and butter. <br> Coffee and milk. |

y. Tuesday.-(1) Liquid.

| Fruit juice. | Strained soup. <br> Cereal gruel. <br> Coffee, tea, or milk. | Orange ice. <br> Coffee, tea, or milk. |
| :--- | :--- | :--- | | Broth. |
| :--- |
| Gelatin dessert. |
| Coffee, tea, or milk. |

(2) Light.

## Bananas.

Flaked wheat.
Coddled eggs.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Oxtail soup, breadsticks.
Roast lamb, gravy.
Mint jelly.
Mashed potatoes.
Glazed carrots.
Orange ice.
Cookies.
Toast and butter.
Coffee, tea, or milk.

Creamed celery soup.
Scalloped sweet breads.
Creamed potatoes.
Baked eggplant.
Pineapple Bavarian cream.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Bananas. | Oxtail soup, breadsticks. | Baked veal loaf, tomato |
| :---: | :---: | :---: |
| Dry cereal. | Roast lamb, brown | sauce. |
| French toast, syrup. | gravy. | Lyonnaise potatoes. |
| Crisp bacon. | Mashed potatoes. | Cole slaw. |
| Toast and butter. | Mint jelly. | Sweet buns. |
| Coffee and milk. | Fresh apples. | Bread and butter. |
|  | Bread and butter. Coffee and milk. | Coffee and milk. |

z. Wednesday.-(1) Liquid.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Fruit juice, | Clear soup. | Strained soup. <br> Cereal gruel. |
| Custard. |  |  |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Coffee, tea, or milk. |

(2) Light.

Apple sauce.
Scrambled eggs.
Toast and butter.
Coffee, tea, or milk.

Barley soup.
Broiled beef cakes.
Baked potatoes.
Buttered peas.
Baked peaches and marshmallows.
Toast and butter.
Coffee, tea, or milk.

Crackers.
Julienne soup.
Baked chicken and rice. Mashed squash.
Lemon sponge, custard sauce.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

Apple sauce.
Cooked cereal.
Ham omelet.
Toast and butter.
Jam.
Coffee and milk.

Barley soup, croutons.
Pot roast of beef, brown gravy.
Baked potatoes.
Dumplings.
Swiss chard.
Peach turnovers.
Bread and butter.
Coffee and milk.

Chili con carne.
French fried potatoes.
Lettuce.
Cottage cheese and pear
salad, mayonnaise.
Apples.
Bread and butter.
Coffee and milk.
aa. Thursday.-(1) Liquid.

|  |  |  |
| :--- | :--- | :--- |
| Fruit juice. | Clear soup. <br> Cereal gruel. <br> Gelatin dessert. | Tomato bouillon. <br> Custard. |
|  | Coffee, tea, or milk. | Coffee, tea, or milk. |

(2) Light.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Oranges. <br> Oatmeal. <br> Poached eggs. <br> Toast and butter. <br> Coffee, tea, or milk. | Purée of lima bean soup, breadsticks. <br> Scalloped brains. <br> Boiled potatoes. <br> Baked zuccini. <br> Gelatin with whipped cream. <br> Toast and butter. Coffee, tea, or milk. | Tomato bouillon. <br> Creamed eggs on toast. <br> Steamed rice. <br> Fresh green asparagus. <br> Prune whip. <br> Ladyfingers. <br> Toast and butter. Coffee, tea, or milk. |

(3) Regular.

Oranges.
Dry cereal.
Hot cakes, maple syrup.
Link sausage.
Toast and butter.
Coffee and milk.

Purée of lima bean soup, breadsticks.
Boiled corned beef.
Boiled cabbage.
Boiled onions.
Boiled potatoes.
Apple pie.
American cheese.
Bread and butter.
Coffee and milk.

Grilled pork chops, cream gravy.
Fried potatoes.
Hearts of lettuce, French dressing.
Bananas.
Bread and butter.
Coffee and milk.
179. Officers' mess sample menus.-a. Friday.-(1) Liquid.

Fruit juice.
Cereal gruel.
Coffee, tea, or milk.

Strained soup.
Orange sherbet.
Coffee, tea, or milk.

Broth.
Fruit juice.
Coffee, tea, or milk.
(2) Light.

## Orange juice.

Sliced peaches.
Cream of wheat.
Scrambled eggs.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Pepper pot soup, breadsticks.
Baked scallops, lemon.
Mashed potatoes.
Fresh asparagus tips.
Orange sherbet.
Cookies.
Toast and butter.
Coffee, tea, or milk.

Split pea soup, crackers.
Creamed sweetbreads on toast.
Candied sweet potatoes.
Buttered lima beans.
Avocado and grapefruit salad, French dressing.
Sliced fresh pineapple.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. <br> Kadota figs. <br> Cream of wheat, or choice of dry cereal. <br> Buckwheat cakes, syrup or honey. <br> Sausages. <br> Toast and butter. <br> Coffee, tea, or milk. | Pepper pot soup, breadsticks. <br> Fried scallops, chili sauce. Creamed parsley potatoes. <br> Fresh asparagus tips. <br> Cabbage and walnut salad, cream dressing. <br> Pumpkin pie with whipped cream. <br> Buttermilk. <br> Bread and butter. <br> Coffee, tea, or milk. | Split pea soup, crackers. Virginia baked ham mincemeat sauce. <br> Candied sweetpotatoes. <br> Buttered lima beans. <br> Grapefruit and avocado salad, French dressing. <br> Sliced fresh pineapple. <br> Ginger cookies. <br> Buttermilk. <br> Bread and butter. <br> Coffee, tea, or milk. |

b. Saturday.-(1) Liquid.

Fruit juice.
Cereal gruel.
Coffee, tea, or milk.

Strained soup.
Custard.
Coffee, tea, or milk.

Clear soup.
Gelatin dessert.
Coffee, tea, or milk.

Orange juice.
Apple sauce.
Oatmeal.
Coddled eggs.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Vegetable soup, croutons.
Broiled tenderloin steak
with mushrooms.
Creamed potatoes.
Buttered peas and carrots.
Apricot Bavarian cream.
Toast and butter.
Coffee, tea, or milk.

Mock turtle soup, crackers.
Scalloped fresh oysters.
Buttered diced potatoes.
Buttered beets.
Gelatin with whipped cream.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

Orange juice.
Apple sauce.
Oatmeal or dry cereal.
Hot corn bread and jam.
Eggs to order.
Crisp bacon.
Toast and butter.
Coffee, teá, or milk.

Vegetable soup, croutons.
Broiled T-bone steak with mushrooms.
Mashed potatoes.
Buttered peas and carrots.
Sliced tomatoes, mayonnaise.
Apricot Bavarian cream.
Buttermilk.
Coffee, tea, or milk.

Mock turtle soup, crackers.
Roast leg of veal, brown gravy.
Franconia potatoes.
Buttered beets.
Lettuce salad, thousand island dressing.
Fruit cocktail.
Bread and butter.
Buttermilk.
Sweet crackers
Coffee, tea, or milk.
c. Sunday.-(1) Liquid.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Fruit juice. | Chicken soup. <br> Cereal gruel. | Broth. <br> Coffee, tea, or milk. |
| Vanilla ice cream. <br> Coffee, tea, or milk. | Fruit juice. <br> Coffee, tea, or milk. |  |

(2) Light.

| Orange juice. | Chicken noodle soup, <br> crackers. | Cream tomato soup, crou- <br> trans. |
| :--- | :--- | :--- |
| Graperuit. | Broiled chicken, cream | Scalloped brains. |
| Flaked wheat. | gravy. | Baked potatoes. |
| Poached eggs. | Mashed potatoes. | Spinach with egg. |
| Crisp bacon. | Creamed celery root. | Sliced oranges. |
| Toast and butter. |  |  |
| Coffee, tea, or milk. | Asparagus salad, mayon- <br> naise. <br> Tanilla ice cream. <br> Toast and butter. <br> Toast and butter. <br> Coffee, tea, or milk. |  |
|  | Coffee, tea, or milk. |  |

## (3) Regular.

| Orange juice. <br> Grapefruit. <br> Flaked wheat or choice <br> of dry cereal. <br> Wafles, syrup or honey. | Chicken noodle soup, <br> crackers. <br> Fried chicken, cream <br> gravy. <br> Mashed potatoes. <br> Crisp bacon. |
| :--- | :--- |
| Corn on the cob. |  |
| Toast and butter. | Asparagus and pimiento |
| soffee, tea, or milk. | salad, mayonnaise. <br> Special ice cream. |
|  | Macaroons. |
| Buttermilk. |  |
| Bread and butter. |  |
| Coffee, tea, or milk. |  |

Cream tomato soup, crou. tons.
Hot meat loaf, gravy.
Fried hominy.
Spinach with egg.
Celery hearts and sweet pickles.
Sliced oranges with shredded coconut.
Buttermilk.
Bread and butter.
Coffee, tea, or milk.
d. Monday.-(1) Liquid.

|  |  |  |
| :--- | :--- | :--- |
| Fruit juice. | Strained soup. | Clear soup. |
| Cereal gruel. | Gelatin dessert. | Custard. |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Coffee, tea, or milk. |

(2) Light.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. | Scotch barley soup, crou- | Oxtail soup, crackers. |
| Stewed prunes. | tons. | Baked potatoes stuffed |
| Cream of wheat. | Roast leg of lamb, gravy. | with chicken. |
| Scrambled eggs. | Fluffed potatoes. | Mashed squash. |
| Crisp bacon. | Eggplant and tomatoes. | Fresh string beans. |
| Toast and butter. | Tapioca cream pudding. | Baked apples with |
| Coffee, tea, or milk. | Toast and butter. | whipped cream. |
|  | Coffee, tea, or milk. | Toast and butter. Coffee, tea, or milk. |

## (3) Regular.

## Orange juice.

Stewed prunes.
Cream of wheat or choice of dry cereal.
French toast, syrup or honey.
Eggs to order.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Scotch barley soup, croutons.
Roast leg of lamb, gravy.
Fluffed potatoes.
Cauliflower au gratin.
Tomato aspic salad, mayonnaise.
Tapioca cream pudding.
Buttermilk.
Bread and butter.
Coffee, tea, or milk.

Oxtail soup, crackers.
Welsh rarebit on toast.
Baked potatoes.
Fresh string beans.
Fresh crab salad.
Ripe olives.
Baked apples with whipped cream.
Buttermilk.
Bread and butter.
Coffee, tea, or milk.
e. Tuesday.-(1) Liquid.

Fruit juice.
Cereal gruel.
Coffee, tea, or milk.

Strained soup.
Custard.
Coffee, tea, or milk.

Broth.
Gelatin dessert.
Coffee, tea, or milk.

## (2) Light.

Orange juice.
Stewed rhubarb.
Oatmeal.
Coddled eggs.
Crisp bacon.
Coffee, tea, or milk.

Vegetable soup, breadsticks.
Creamed sweetbreads on toast.
Mashed potatoes.
Glazed fresh carrots.
Stuffed date salad, boiled dressing.
Sliced pears.
Bread and butter.
Coffee, tea, or milk.

Tomato bouillon, crackers. Creamed tuna fish on toast.
Baked potatoes.
Artichokes with hollandaise sauce.
Avocado and grapefruit salad, French dressing.
Floating island pudding.
Toast and butter.
Coffhe, tea, or milk.

## HOSPITAL DIETS

(3) Regular.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. Stewed rhubarb. | Vegetable soup, breadsticks. | Tomato bouillon, crackers Baked Swiss steak, gravy |
| Oatmeal or choice of dry cereal. | Breaded veal cutlet, chili sauce. | Baked potatoes. Artichokes with hollan- |
| Sweet buns. | Mashed potatoes. | daise sauce. |
| Crisp bacon. | Glazed fresh carrots. | Avocado and grapefruit |
| Eggs to order. | Stuffed date salad, boiled | salad, French dressing. |
| Toast and butter. | dressing. | Floating island pudding. |
| Coffee, tea, or milk. | Butterscotch pie. | Buttermilk. |
|  | Buttermilk. | Bread and butter |
|  | Bread and butter. | Coffee, tea, or milk. |

## f. Wednesday.-(1) Liquid.

| Fruit juice. | Clear soup. | Broth. |
| :--- | :--- | :--- |
| Cereal gruel. | Gelatin dessert. | Fruit juice. |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Coffee, tea, or milk. |

(2) Light.

| Orange juice. | English broth, croutons. | Chicken gumbo soup. |
| :--- | :--- | :--- |
| Sliced bananas. | Candied sweet potatoes. | Creamed chicken on toast. |
| Cream of wheat. | Buttered Italian squash. | Mashed potatoes. |
| Poached eggs. | Cottage cheese salad. | Buttered peas. |
| Crisp bacon. | Fruit gelatin with | Nectarines. |
| Toast and butter. | whipped cream. | Sugar cookies. |
| Coffee, tea, or milk. | Toast and butter. | Coffee, tea, or milk. |
|  | Coffee, tea, or milk. |  |

## (3) Regular.

Orange juice.
Sliced bananas.
Cream of wheat or choice of dry cereal.
Hot biscuits, jam.
Broiled ham.
Eggs to order.
Toast and butter.
Coffee, tea, or milk.

English broth, croutons.
Stuffed baked pork chops.
Apple sauce.
Candied sweet potatoes.
Buttered Italian squash.
Pineapple-cottage cheese salad, mayonnaise.
Fruit gelatin with whipped cream.
Bread and butter.
Buttermilk.
Coffee, tea, or milk.

Chicken gumbo soup.
Chicken a la king in patty shells.
Mashed potatoes.
Buttered peas.
Jewel salad, mayonnaise.
Nectarines.
Doughnuts.
Bread and butter.
Buttermilk.
Coffee, tea, or milk.
g. Thursday.-(1) Liquid.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Fruit juice. | Strained soup. | Consomme. <br> Cereal gruel. <br> Coffee, tea, or milk. |
| Fruit juice. <br> Coffee, tea, or milk. | Vanilla ice cream. <br> Coffee, tea, or milk. |  |

(2) Light.

Orange juice.
Grapefruit.
Flaked wheat.
Scrambled eggs.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Scotch barley broth, breadsticks.
Scrambled eggs and brains.
Mashed potatoes.
Spinach and egg.
Asparagus salad, mayonnaise.
Baked peaches with marshmallows.
Toast and butter.
Coffee, tea, or milk.

Consomme a la royale.
Broiled lamb chops, mint jelly.
Creamed potatoes.
Buttered beets.
Vanilla ice cream.
Lady fingers.
Toast and butter.
Coffee, tea, or milk.

## (3) Regular.

Orange juice.
Grapefruit.
Flaked wheat or choice dry cereal.
Waffles, syrup or honey.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Scotch barley broth, breadsticks.
Rib roast of beef, brown gravy.
Yorkshire pudding.
Mashed potatoes.
Spinach and eggs.
Lettuce hearts, French dressing.
Nectarine pie.
Buttermilk.
Bread and butter.
Coffee, tea, or milk.

Consomme a la royale.
Broiled lamb chops, mint jelly.
Creamed potatoes.
Buttered beets.
Waldorf salad, boiled dressing.
Vanilla ice cream.
Ladyfingers.
Buttermilk.
Bread and butter.
Coffee, tea, or milk.
h. Friday.-(1) Liquid.

|  |  |  |
| :--- | :--- | :--- |
| Fruit juice. | Beef broth. | Clear soup. |
| Cereal gruel. | Gelatin dessert. | Caramel custard. |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Coffee, tea, or milk. |

(2) Light.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. Oatmeal. Crisp bacon. Coddled eggs. Toast and butter. Coffee, tea, or milk | Beef broth, croutons. Escalloped fresh oysters. Mashed potatoes. Fresh string beans. Apricot Bavarian cream. Toast and butter. Coffee, tea, or milk. | Vegetable chowder, crack ers. <br> Creamed chicken on toast Buttered steamed rice. Baked Hubbard squash. Banana salad, boiled dressing. <br> Caramel custard. <br> Toast and butter. <br> Coffee, tea, or milk. |

(3) Regular.

Orange juice.
Baked apple.
Oatmeal or choice of dry cereal.
Buttermilk hot cakes, syrup or honey.
Sausages.
Toast and butter.
Coffee, tea, or milk.

Clam chowder, croutons.
Fried eastern oysters, chili sauce.
Scalloped potatoes.
Fresh string beans.
Sliced tomatoes, mayonnaise.
Apricot Bavarian cream.
Buttermilk.
Bread and butter.
Coffee, tea, or milk.

Vegetable chowder, crackers.
Stuffed green peppers, Spanish sauce.
Buttered steamed rice.
Baked Hubbard squash.
Candlestick salad, mayonnaise.
Cream puffs.
Buttermilk.
Bread and butter.
Coffee, tea, or milk.
i. Saturday.-(1) Liquid.

Fruit juice.
Cereal gruel.
Coffee, tea, or milk.

Clear soup.
Gelatin dessert.
Coffee, tea, or milk.

Strained soup.
Fruit juice.
Coffee, tea, or milk.
(2) Light.

## Orange juice.

Stewed rhubarb. Cream of wheat.
Crisp bacon.
Poached eggs. Toast and butter. Coffee, tea, or milk.

Split pea soup, croutons.
Broiled lamb chops.
Baked potatoes.
Buttered beets.
Fruit salad, boiled dressing.
Prune whip.
Sweet crackers.
Toast and butter.
Coffee, tea, or milk.

Julienne soup.
Creamed tuna fish on toast.
Mashed sweet potatoes.
Buttered fresh asparagus.
Baked apple with whipped cream.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. | Split pea soup, croutons. | Julienne soup, crackers. |
| Stewed rhubarb. <br> Cream of wheat or choice of dry cereal. | Roast leg of veal, brown gravy. | Virginia baked ham, mincemeat sauce. |
|  |  |  |
|  | Franconia potatoes. | Sweet potato croquettes. |
| Eggs to order. | Creamed onions. | Buttered fresh asparagus. |
| Crisp bacon. <br> Hot biscuits, jam. <br> Toast and butter. <br> Coffee, tea, or milk. | Combination fruit salad, boiled dressing. <br> Prune whip. <br> Sweet crackers. <br> Buttermilk. <br> Bread and butter. <br> Coffee, tea, or milk. | Green onions and radishe |
|  |  | Baked apple with whipped |
|  |  | cream. |
|  |  | Buttermilk. |
|  |  | Bread and butter |
|  |  | Coffee, tea, or milk. |
|  |  |  |

j. Sunday.-(1) Liquid.

|  |  |  |
| :--- | :--- | :--- |
| Fruit juice. | Broth. | Bouillon. |
| Cereal gruel. | Orange ice. | Custard. |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Coffee, tea, or milk. |

(2) Light.

Orange juice.
Grapefruit.
Flaked wheat.
Crisp bacon.
Scrambled eggs. Toast and butter.
Coffee, tea, or milk.

Cream tomato soup, crackers.
Baked squab, gravy.
Mashed potatoes.
Buttered peas.
Artichoke salad, mayonnaise.
Orange ice.
Sugar cookies.
Toast and butter.
Coffee, tea, or milk.

Bouillon.
Scalloped sweetbreads on toast.
Baked potatoes.
Fresh glazed carrots.
Star salad, boiled dressing.
Honey date pudding, custard sauce.
Buttermilk.
Bread and butter.
Coffee, tea, or milk.
(3) Regular.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. | Cream tomato soup, | Bouillon. |
| Grapefruit. | crackers. | Creamed chipped beef |
| Flaked wheat or choice of dry cereal. | Stuffed baked squab, gravy. | toast. <br> Baked potatoes. |
| Waffles, syrup or honey. | Mashed potatoes. | Glazed fresh carrots. |
| Crisp bacon. | Buttered peas. | Star salad, boiled dressin |
| Toast and butter. Coffee, tea, or milk. | Stuffed celery with green olives. | Honey date pudding, |
|  | Orange ice. | Buttermilk. |
|  | Sugar cookies. | Bread and butter. |
| - | Mints. | Coffee, tea, or milk. |
|  | Buttermilk. |  |
|  | Bread and butter |  |

k. Monday.-(1) Liquid.

| Fruit juice. | Consomme. | Strained soup. <br> Cereal gruel. <br> Coffee, tea, or milk. |
| :--- | :--- | :--- |
| Fruit juice. <br> Coffitin dessert. |  |  |
| Coffee, or milk. |  |  |

(2) Light.

Orange juice.
Stewed prunes.
Cream of wheat.
Crisp bacon.
Coddled eggs.
Toast and butter.
Coffee, tea, or milk.

Consomme, croutons.
Broiled tenderloin steak with mushrooms.
Buttered diced potatoes.
Spinach and egg.
Pear and cottage cheese salad, mayonnaise. Floating island pudding. Toast and butter. Coffee, tea, or milk.

Jackson soup, crackers.
Roast leg of lamb, gravy. Buttered steamed rice. Baked squash.
Fruit gelatin with whipped cream.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

l. Tuesday.-(1) Liquid.

|  |  |  |
| :--- | :--- | :--- |
| Fruit juice. | Clear soup. | Broth. |
| Cereal gruel. | Custard. | Gelatin dessert. |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Coffee, tea, or milk. |

## (2) Light.

Orange juice.
Sliced peaches.
Oatmeal.
Crisp bacon.
Poached eggs.
Toast and butter.
Coffee, tea, or milk.

Oxtail soup, breadsticks.
Scalloped brains.
Mashed potatoes.
Buttered diced carrots.
Stuffed date salad, boiled dressing.
Sliced fresh pineapple.
Sweet crackers.
Toast and butter.
Coffee, tea, or milk.

Cream pea soup, crackers.
Creamed tuna fish on toast.
Boiled potatoes.
Artichokes with hollandaise sauce.
Nectarines.
Ladyfingers.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. <br> Stewed figs. <br> Oatmeal or choice of dry cereal. <br> Sweet buns. <br> Crisp bacon. <br> Eggs to order. <br> Toast and butter. <br> Coffee, tea, or milk. | Oxtail soup, breadsticks. | Cream pea soup, crackers. |
|  | Baked fresh spareribs, | Breaded veal cutlet, Chili |
|  | barbecue sauce. | sauce. |
|  | Sauerkraut. | Hashed brown potatoes. |
|  | Mashed potatoes. | Artichokes with hollan- |
|  | Buttered diced carrots. | daise sauce. |
|  | Stuffed date salad, boiled dressing. | Sliced tomatoes, mayonnaise. |
|  | Sliced fresh pineapple. | Butterscotch pie. |
|  | Sweet crackers. | Buttermilk. |
|  | Buttermilk. | Bread and butter. |
|  | Bread and butter. <br> Coffee, tea, or milk. | Coffee, tea, or milk. |

m. Wednesday.-(1) Liquid.

|  |  |  |
| :--- | :--- | :--- |
| Fruit juice. <br> Cereal gruel. <br> Coffee, tea, or milk. | Strained soup. <br> Custard. <br> Coffee, tea, or milk. | Clear soup. <br> Vanilla ice cream. <br> Coffee, tea, or milk. |

## (2) Light.

Orange juice. Sliced bananas. Cream of wheat.
Crisp bacon. Scrambled eggs. Toast and butter. Coffee, tea, or milk.

Vegetable soup, croutons. Creamed chicken on toast.
Baked potatoes.
Buttered beets.
Avocado salad, French dressing.
Tapioca cream pudding. Toast and butter. Coffee, tea, or milk.

Tomato bouillon, crackers.
Broiled tenderloin steak.
Mashed potatoes.
Broccoli with hollandaise sauce.
Vanilla ice cream.
Sweet crackers.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. <br> Sliced bananas. <br> Cream of wheat or choice of dry cereal. <br> Hot biscuits, jelly. <br> Broiled ham. <br> Eggs to order. <br> Toast and butter. <br> Coffee, tea, or milk. | Tomato bouillon, crackers. <br> Stuffed baked flank steak, gravy. <br> Mashed potatoes. <br> Broccoli with hollandaise sauce. <br> Celery hearts and sweet pickles. <br> Mincemeat turn-over with cheese. <br> Buttermilk. <br> Bread and butter. <br> Coffee, tea, or milk. | Vegetable soup, croutons. <br> Chicken a la king in patty shells. <br> Baked potatoes. <br> Buttered beets. <br> Avocado salad, French dressing. <br> Spice cake with whipped cream. <br> Buttermilk. <br> Bread and butter. <br> Coffee, tea, or milk. |

## n. Thursday.-(1) Liquid.

Fruit juice.
Cereal gruel.
Coffee, tea, or milk.

Broth.
Fruit juice.
Coffee, tea, or milk.

Clear soup.
Gelatin dessert.
Coffee, tea, or milk.
(2) Light.

|  |  | , 501ul pymery |
| :---: | :---: | :---: |
| Orange juice. <br> Apple sauce. | Split pea soup, breadsticks. | Cream celery soup, crackers. |
| Flaked wheat. Crisp bacon. | Creamed sweetbreads on toast. | Broiled lamb chops, mint jelly. |
| Coddled eggs. | Baked potatoes. | Mashed potatoes. |
| Toast and butter. | Buttered Italian squash. | Buttered peas. |
| Coffee, tea, or milk. | Banana salad, boiled dressing. | Chocolate sponge. Toast and butter. |
| 3, nat | Brown betty with whipped cream. | Coffee, tea, or milk. |
|  | Toast and butter. Coffee, tea, or milk. |  |

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(3) Regular.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. Apple sauce. | Split pea soup, breadsticks. | Cream celery soup, crackers. |
| Flaked wheat or choice dry cereal. | Rib roast of beef, brown gravy. | Broiled lamp chops, mint jelly. |
| Waffles, syrup or honey. | Franconia potatoes. | Mashed potatoes. |
| Crisp bacon. | Buttered Italian squash. | Buttered peas. |
| Toast and butter. Coffee, tea, or milk. | Banana nut salad, boiled dressing. | Hearts of lettuce salad, thousand island dress- |
|  | Brown betty with whipped cream. | ing. <br> Chocolate sponge pudding. |
|  | Buttermilk. | Buttermilk. |
|  | Bread and butter. | Bread and butter. |
|  | Coffee, tea, or milk. | Coffee, tea, or milk. |

## o. Friday.-(1) Liquid.

|  | Fruit juice. | Clear soup. |
| :--- | :--- | :--- | | Bouillon. |
| :--- |
| Cereal gruel. |
| Coffee, tea, or milk. | | Coffee, tea, or milk. |
| :--- |

## (2) Light.

| Orange juice. | Oyster stew, crackers. | Bouillon, crackers. |
| :---: | :---: | :---: |
| Peaches. | Baked filet of sole with | Stuffed potatoes |
| Oatmeal. | lemon. | chicken. |
| Poached eggs. | Buttered parsley pota- | Artichokes with but |
| Crisp bacon. | toes. | sauce. |
| Toast and butter. | Spinach and egg. | Mashed Hubbard squash. |
| Coffee, tea, or milk. | Grapenut custard. | Fruit gelatin with whippe |
|  | Toast and butter. | cream. |
| 919, पquce of ammos | Coffee, tea, or milk. | Toast and butter. |
| a 79ymumme hatio |  | Coffee, tea, or milk. |


(3) Regular.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. | Oyster stew, crackers. | Bouillon, crackers. |
| Kadota figs. | Filet of sole. | Baked Swiss steak, gravy. |
| Oatmeal or choice of dry cereal. | Buttered spinach and egg. | Baked potatoes. Corn on cob. |
| Hot corn bread, jam. Broiled ham. | Tomato aspic salad, mayonnaise. | Waldorf salad, boiled dressing. dressing. |
| Eggs to order. | Peach pie with cheese. | Fruit gelatin with whipped |
| Toast and butter. | Buttermilk. | cream. |
| Coffee, tea, or milk. | Bread and butter. | Buttermilk. |
|  | Coffee, tea, or milk. | Bread and butter. Coffee, tea, or milk. |

p. Saturday.-(1) Liquid.

Fruit juice.
Cereal gruel.
Coffee, tea, or milk.

Strained soup.
Custard.
Coffee, tea, or milk.

Clear soup.
Fruit juice.
Coffee, tea, or milk.
(2) Light.

Orange juice.
Baked apples.
Cream of wheat.
Scrambled eggs.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Julienne soup, croutons.
Broiled lamb chops.
Creamed potatoes.
Eggplant and tomatoes.
Pineapple-cottage cheese
salad, mayonnaise.
Tapioca cream pudding.
Toast and butter.
Coffee, tea, or milk.

Cream tomato soup, crackers.
Broiled tenderloin steak.
Mashed potatoes.
Creamed celery root.
Pears au gratin, ginger sauce.
Toast and butter.
Coffee, tea, or milk.

## (3) Regular.

Orange juice.
Baked apples.
Cream of wheat or choice of dry cereal.
Waffles, syrup or honey.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Julienne soup, crackers.
Roast leg of veal, brown gravy.
Brown potatoes.
Spanish eggplant.
Pineapple-cottage cheese salad, mayonnaise.
Tapioca cream pudding.
Buttermilk.
Bread and butter.
Coffee, tea, or milk.

Cream tomato soup, crackers.
Broiled hamburger steak.
Fried onions.
Hashed brown potatoes.
Creamed celery root.
Pickled beets and ripe olives.
Pears au gratin, ginger sauce.
Buttermilk.
Bread and butter.
Coffee, tea, or milk.
q. Sunday.-(1) Liquid.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Fruit juice. | Broth. | Strained soup. |
| Cereal gruel. | Lemon sherbet. | Custard. |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Coffee, tea, or milk. |

(2) Light.

Orange juice.
Bananas.
Flaked wheat.
Coddled eggs.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Noodle soup, crackers.
Broiled chicken, cream gravy.
Currant jelly.
Mashed potatoes.
Buttered peas.
Asparagus salad, mayonnaise.
Lemon sherbet.
Ladyfingers.
Toast and butter.
Coffee, tea, or milk.

Jackson soup, crackers.
Tuna fish timbale.
Creamed hominy.
Buttered string beans.
Avocado and grapefruit salad, French dressing.
Baked apples with whipped cream.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Orange juice. | Noodle soup, crackers. | Jackson soup, crackers. |
| :---: | :---: | :---: |
| Bananas. <br> Flaked wheat or choice | Half fried chicken, cream gravy. | Fried calves' liver and crisp bacon, chili sauce. |
| of dry cereal. | Currant jelly. | Buttered string beans. |
| Hot biscuits, honey. | Mashed potatoes. | Avocado and grapefruit |
| Crisp bacon. | Buttered peas. | salad, French dressing. |
| Eggs to order. | Princess salad, mayon- | Baked apples with |
| Coffee, tea, or milk. | naise. | whipped cream. |
|  | Special ice cream. | Buttermilk. |
|  | Ladyfingers. | Bread and butter. |
|  | Buttermilk. | Coffee, tea, or milk. |
|  | Bread and butter. |  |
|  | Coffee, tea, or milk. |  |

r. Monday.-(1) Liquid.

|  | Fruit juice. | Clear soup. |
| :--- | :--- | :--- |$\quad$| Broth. |
| :--- |
| Cereal gruel. |$\quad$| Fruit juice. |
| :--- |
| Coffee, tea, or milk. dessert. |
| Coffee, tea, or milk. |$\quad$| Coffee, tea, or milk. |
| :--- |

(2) Light.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. Stewed prunes. Cream of wheat. Poached eggs. Crisp bacon. Toast and butter. Coffee, tea, or milk. | Pepper pot soup, croutons. <br> Broiled tenderloin steak. <br> Creamed potatoes. <br> Baked squash. <br> Artichoke salad, mayonnaise. <br> Fresh pineapple. <br> Toast and butter. <br> Coffee, tea, or milk. | Mock turtle soup, crackers. <br> Roast lamb, gravy. <br> Mashed potatoes. <br> Buttered beets. <br> Spanish cream. <br> Toast and butter. <br> Coffee, tea, or milk. |

(3) Regular.

Orange juice.
Stewed prunes.
Cream of wheat or choice of dry cereal.
Buttermilk hot cakes, syrup or honey.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Pepper pot soup, croutons.
Broiled T-bone steak with mushrooms.
Creamed potatoes.
Baked Hubbard squash.
Cabbage and nut salad, cream dressing.
Hot cornbread.
Fresh pineapple.
Bread and butter.
Buttermilk.
Coffee, tea, or milk.

Mock turtle soup, crackers.
Roast lamb, gravy.
Mashed potatoes.
Harvard beets.
Hearts of lettuce, French dressing.
Gooseberry tarts with whipped cream.
Buttermilk.
Bread and butter.
Coffee, tea, or milk.
s. Tuesday. - (1) Liquid.

|  |  |  |
| :--- | :--- | :--- |
| Fruit juice. | Strained soup. | Chicken broth. <br> Cereal gruel. |
| Ice cream. <br> Coffee, tea, or milk. | Coffee, tea, or milk. | Coffee, tea, or milk. |

(2) Light.

(3) Regular.

Orange juice.
Grapefruit.
Oatmeal or choice of dry cereal.
Hot cornbread, jam.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Vegetable soup, breadsticks.
Virginia baked ham, mincemeat sauce.
Mashed potatoes.
Glazed fresh carrots.
Jewel salad, mayonnaise.
Ripe olives.
Bread and butter.
Buttermilk.
St. Patricks ice cream.
Shamrock cookies.
Coffee, tea, or milk.

Chicken gumbo soup, crackers.
Chicken a la king in patty shell.
Steamed rice.
Broccoli with hollandaise sauce.
Celery hearts and ripe olives.
Pumpkin pie with whipped cream.
Buttermilk.
Bread and butter.
Coffee, tea, or milk.
t. Wednesday.-(1) Liquid.

|  |  |  |
| :--- | :--- | :--- |
| Fruit juice. | Strained soup. | Clear soup. |
| Cereal gruel. | Gelatin dessert. | Fruit juice. |
| Coffee, tea, or milk. | Coffee, tea, or milk. | Coffee, tea, or milk. |

(2) Light.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. <br> Apple sauce. <br> Flaked wheat. <br> Coddled eggs. <br> Crisp bacon. <br> Toast and butter. <br> Coffee, tea, or milk. | Barley soup, croutons. Scalloped fresh oysters. Mashed potatoes. <br> Fresh asparagus tips. Star salad, boiled dressing. <br> Prune whip. <br> Ladyfingers. <br> Toast and butter. <br> Coffee, tea, or milk. | Mushroom soup. <br> Creamed sweetbreads on toast. <br> Mashed potatoes. <br> Spinach and egg. <br> Stuffed date salad, boiled dressing. <br> Floating island pudding. <br> Toast and butter. <br> Coffee, tea, or milk. |

(3) Regular.

Orange juice.
Apple sauce.
Flaked wheat or choice of dry cereal.
Waffles, syrup or honey.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Barley soup, croutons.
Roast loin of pork, apple sauce.
Mashed sweet potatoes.
Fresh asparagus tips.
Star salad, boiled dressing.
Prune whip.
Ladyfingers.
Buttermilk.
Bread and butter.
Coffee, tea, or milk.

Mushroom soup.
Breaded veal cutlet, chili sauce.
Mashed potatoes.
Spinach and egg.
Stuffed date salad, boiled dressing.
Floating island pudding.
Buttermilk.
Bread and butter.
Coffee, tea, or milk.
u. Thursday.-(1) Liquid.

## Fruit juice.

Cereal gruel.
Coffee, tea, or milk.

Consomme.
Ice cream.
Coffee, tea, or milk.

Broth.
Custard.
Coffee, tea, or milk.
(2) Light.

## Orange juice.

Plums.
Cream of wheat.
Poached eggs.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Split pea soup, croutons.
Broiled tenderloin steak.
Mashed potatoes.
Eggplant and tomatoes.
Grapefruit and orange salad, boiled dressing.
Sliced apricots.
Toast and butter.
Coffee, tea, or milk.

Consomme a la royale.
Broiled lamb chop, mint jelly.
Creamed potatoes.
Pineapple-cottage cheese salad, mayonnaise.
Vanilla ice cream.
Sweet crackers.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Breaktast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. <br> Plums. <br> Cream of wheat or dry cereal. <br> French toast, syrup. <br> Crisp bacon. <br> Bread and butter. <br> Coffee, tea, or milk. | Split pea soup, croutons. | Consomme a la royale |
|  | Rib roast of beef, brown | Broiled lamb chop, mint |
|  | gravy. | jelly. |
|  | Mashed potatoes. | Creamed potatoes. |
|  | Spanish eggplant. | Harvard beets. |
|  | Grapefruit and apple salad, boiled dressing. | Pineapple - cottage cheese salad. |
|  | Apricot pie. | Vanilla ice cream. |
|  | Buttermilk. | Sweet cracker |
|  | Bread and butter. | Bread and bu |
|  | Coffee, tea, or milk. | Buttermil |
|  |  | Coffee, tea, or milk. |

v. Friday.-(1) Liquid.

| Fruit juice. | Clear soup. | Strained chicken soup. |
| :--- | :--- | :--- |
| Cereal gruel. |  |  |
| Coffee, tea, or milk. | Custard. | Coffee, tea, or milk. | | Gelatin dessert. |
| :--- |
| Coffee, tea, or milk. |

(2) Light.

Orange juice.
Rhubarb.
Oatmeal.
Scrambled eggs.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Clam chowder, breadsticks.
Halibut, lemon butter sauce.
Buttered parsley potatoes.
Fresh string beans.
Banana salad, boiled dressing.
Fresh pineapple.
Ladyfingers.
Toast and butter.
Coffee, tea, or milk.

Chicken rice soup, crackers.
Scalloped chicken with mushrooms.
Baked potatoes.
Broccoli with hollandaise sauce.
Fruit gelatin with whipped cream.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Orange juice. | Clam chowder, bread- <br> Rhubarb. | Chicken rice soup, crack- <br> ers. |
| sticks. |  |  |

w. Sunday.-(1) Liquid.

Fruit juice.
Cereal gruel.
Coffee, tea, or milk.

Broth.
Peach ice cream.
Coffee, tea, or milk.

Strained soup.
Custard.
Coffee, tea, or milk.
(2) Light.

Orange juice.
Grapefruit.
Cream of wheat.
Poached eggs.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Cream tomato soup, crackers.
Baked squab, gravy.
Currant jelly.
Mashed potatoes.
Buttered new peas.
Peach ice cream.
Sugar cookies.
Toast and butter.
Coffee, tea, or milk.

Scotch barley broth.
Tuna fish timbale.
Mashed sweet potatoes.
Buttered spinach.
Apple tapioca pudding.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. <br> Grapefruit. <br> Cream of wheat or dry cereal. <br> Hot corn bread, jam. <br> Broiled ham. <br> Eggs to order. <br> Toast and butter. <br> Coffee, tea, or milk. | Creamed tomato soup. | Scotch barley broth |
|  | Baked stuffed squab, | crackers. |
|  | gravy. <br> Currant jelly. | Baked ham, mincemeat sauce. |
|  | Mashed potatoes. | Buttered spinach. |
|  | Buttered new peas. | Perfection salad, boiled |
|  | Celery hearts and green olives. | dressing. Apple tapioca pudding. |
|  | Special ice cream. | Bread and butter. |
|  | Sugar cookies. | Coffee, tea, or milk. |
|  | Buttermilk. |  |
|  | Bread and butter. |  |
|  | Coffee, tea, or milk. |  |

x. Monday.-(1) Liquid.

|  | Fruit juice. | Broth. <br> Celatin dessert. <br> Cereal gruel. <br> Coffee, tea, or milk. |
| :--- | :--- | :--- | | Coffee, tea, or milk. |
| :--- |$\quad$| Fruit juice. |
| :--- |
| Coffee, tea, or milk. |

(2) Light.

Orange juice.
Prunes.
Oatmeal.
Scrambled eggs.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

English broth, croutons.
Broiled tenderloin steak, with mushrooms.
Buttered diced potatoes.
Italian squash.
Star salad, boiled dressing.
Floating island pudding.
Toast and butter.
Coffee, tea, or milk.

Corn chowder, crackers.
Creamed chicken on toast.
Steamed rice.
Buttered string beans.
Fruit cup.
Sweet crackers.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. <br> Prunes. <br> Oatmeal or choice of dry cereal. | English broth, croutons. Broiled T-bone steak, with mushrooms. <br> Buttered diced potatoes. Italian squash. | Corn chowder, crackers. Chicken a la king in patty shell. |
|  |  |  |
|  |  |  |
|  |  | Steamed rice. |
| Buttermilk hot cakes, syrup or honey. |  | Corn on cob. |
|  | Star salad, boiled dressing. | Tomato aspic salad, mayonnaise. |
| Toast and butter. | Floating island pudding. | Fruit cup. |
| Coffee, tea, or milk. | Buttermilk. | Sweet crackers. |
|  | Bread and butter. | Bread and butter. |
|  | Coffee, tea, or milk. | Buttermilk. |
|  |  | Coffee, tea, or milk. |

y. Tuesday.-(1) Liquid.

Fruit juice.
Cereal gruel.
Coffee, tea, or milk.

Strained soup.
Orange ice.
Coffee, tea, or milk.

Broth.
Gelatin dessert.
Coffee, tea, or milk.
(2) Light.

Orange juice.
Sliced bananas.
Flaked wheat.
Coddled eggs.
Crisp bacon.
Toast and butter. Coffee, tea, or milk.

Oxtail soup, breadsticks.
Roast leg of lamb, gravy.
Mint jelly.
Mashed potatoes.
Artichokes with hollandaise sauce.
Fruit salad, boiled dressing.
Orange ice.
Cookies.
Toast and butter.
Coffee, tea, or milk.

Cream celery soup, crackers.
Broiled sweetbreads.
Creamed potatoes.
Buttered lima beans.
Pineapple Bavarian cream.
Toast and butter.
Coffee, tea, or milk.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. | Oxtail soup, breadsticks. | Cream of celery |
| Bananas. | Roast leg of lamb, gravy. | crackers. |
| Flaked wheat or dry | Mint jelly. | Broiled hamburger steak, |
| cereal. | Browned potatoes. | catsup. |
| Waffles, syrup. | Artichokes with hollan- | Hashed brown potatoes. |
| Crisp bacon. | daise sauce. | Buttered lima beans. |
| Toast and butter. | Fruit salad, boiled dress- | Radishes and green onions. |
| Coffee, tea, or milk. | ing. | Sweet pickles. |
|  | Orange ice. | Pineapple Bavarian |
|  | Cookies. | cream. |
|  | Buttermilk. | Buttermilk. |
|  | Bread and butter. | Bread and butter. |
|  | Coffee, tea, or milk. | Coffee, tea, or milk. |

z. Wednesday.-(1) Liquid.

| Fruit juice. <br> Cereal gruel. <br> Coffee, tea, or milk. | Clear soup. <br> Custard. <br> Coffee, tea, or milk. | Strained soup. <br> Gelatin dessert. <br> Coffee, tea, or milk. |
| :--- | :--- | :--- |

## (2) Light.

Orange juice.
Apple sauce. Cream of wheat.
Poached eggs.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Barley soup, croutons.
Escalloped fresh oysters.
Boiled potatoes.
Buttered carrots.
Custard.
Toast and butter.
Coffee, tea, or milk.

Julienne soup, crackers.
Broiled tenderloin steak.
Buttered parsley potatoes.
Baked squash.
Buttered lima beans.
Pineapple Bavarian cream.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

Orange juice.
Apple sauce.
Cream of wheat or choice of dry cereal.

## Sweet buns.

Sausages.
Eggs to order.
Toast and butter.
Coffee, tea, or milk.

Barley soup, croutons.
Stuffed baked pork chops.
Fresh apple rings.
Brown potatoes.
Escalloped cauliflower.
Carrot and raisin salad, boiled dressing.
Peach turn-over with whipped cream.
Bread and butter.
Coffee, tea, or milk.

Julienne soup, crackers.
Baked Swiss steak, gravy.
Buttered parsley, potatoes.
Head lettuce, French dressing.
Lemon snow, custard sauce.
Bread and butter.
Buttermilk.
Coffee, tea, or milk.
aa. Thursday.-(1) Liquid.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Fruit juice. | Clear soup. <br> Gelatin dessert. | Tomato bouillon. <br> Cereal gruel. <br> Coffee, tea, or milk. |
|  | Coffee, tea, or milk. | Coffee, tea, or milk. |

(2) Light.

Orange juice.
Apricots.
Oatmeal.
Scrambled eggs.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Pureé of lima bean soup, breadsticks.
Scrambled eggs and brains.
Mashed potatoes.
Italian squash.
Avocado and grapefruit
salad, French dressing.
Gelatin with whipped cream.
Toast and butter.
Coffee, tea, or milk.

Tomato bouillon, crackers.
Cream chicken on toast.
Macaroni au gratin.
Green asparagus.
Prune whip.
Ladyfingers.
Toast and butter.
Coffee, tea, or milk.
(3) Regular.

## Orange juice.

Figs.
Oatmeal or choice of dry cereal.
French toast, syrup or honey.
Eggs to order.
Crisp bacon.
Toast and butter.
Coffee, tea, or milk.

Pureé lima bean soup.
Rib roast of beef, brown gravy.
Franconia potatoes.
Italian squash.
Avocado and grapefruit
salad, French dressing.
Apple pie with cheese.
Bread and butter.
Buttermilk.
Coffee, tea, or milk.

Tomato bouillon.
Baked stuffed green peppers.
Macaroni au gratin.
Green asparagus.
Waldorf salad, boiled dressing.
Prune whip.
Ladyfingers.
Bread and butter.
Buttermilk.
Coffee, tea, or milk.

HOSPITAL DIETS

## Section III

## THERAPEUTIC AND SPECIAL DIET SAMPLE MENUS

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180. General.-Below are some special diet menus. Total calories and other essential terms necessary in ordering diets are omitted for they serve no useful purpose. These diets do not begin to cover the field of special diets but are sufficient to show variations.
181. Soft.


Soft-Continued

| $\quad$ Breakfa |
| :--- |
| Puréed fruit. |
| Cooked cereal. |
| Eggs. |
| Toast, butter. |
| Milk, |

Baked banana.
Flaked wheat.
Eggs.
Toast, butter.
Milk, cream.

Grapefruit juice.
Cream of wheat.
Eggs.
Toast, butter.
Milk, cream.

Puréed fruit.
Cooked cereal.
Eggs.
Toast, butter.
Milk, cream.

Puréed fruit.
Cream of wheat.
Eggs.
Toast, butter.
Milk, cream.

## Soup.

Cream sweetbreads.
Baked potato.
Fresh asparagus tips.
Toast, butter.
Milk.
Bread pudding, caramel sauce.

Soup.
Broiled fish with lemon.
Cream potato.
Puréed spinach.
Toast, butter.
Milk.
Bread pudding, sauce.
Soup.
Lima bean timbale.
Mashed potato.
Puréed carrots.
Toast, butter.
Milk.
Spanish cream.

Soup.
Puréed peas.
Boiled potato.
Puréed carrot timbale.
Toast, butter.
Milk.
Apple crisp.
Soup.
Fresh asparagus tips.
Mashed potato.
Celery root timbale.
Toast, butter.
Milk.
Prune whip.

Cream celery soup.
Egg soufflé.
Purée of buttered peas.
Mashed potato.
Toast, butter.
Milk, cream.
Chocolate sponge.

Cream celery soup.
Cottage cheese.
Steamed rice.
Puréed beets.
Toast, butter.
Milk.
Date custard.
Soup.
Creamed sweetbreads on toast.
Baked potato.
Mashed squash.
Toast, butter.
Milk.
Gelatin with whipped cream.

Soup.
Scrambled eggs and brains.
Mashed potato.
Fresh asparagus tips.
Toast, butter.
Milk.
Apricot purée.
Soup.
Philadelphia cream cheese on toast.
Mashed potato.
Puréed spinach.
Toast, butter.
Milk.
Floating island pudding.

Soft-Continued

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Puréed fruit. | Soup. | Soup. |
| Cooked cereal. | Broiled chicken. | Cream tuna fish on toast. |
| Eggs. | Mashed potato. | Mashed potato. |
| Toast, butter. | Purée of buttered peas. | Artichokes with sauce. |
| Milk, cream. | Toast, butter. | Toast, butter. |
| Jelly. | Milk. | Milk. |
|  | Orange sherbet. | Baked banana. |
| Puréed fruit. | Soup. | Soup. |
| Oatmeal. | Fresh asparagus tips. | Creamed eggs. |
| Eggs. | Creamed potato. | Mashed potato. |
| Toast, butter. | Puréed squash. | Puréed beets. |
| Milk, cream. | Toast, butter. | Toast, butter. |
|  | Milk. | Milk. |
|  | Baked banana. | Spanish cream. |
| Baked banana. | Noodle soup. | Strained soup. |
| Cooked cereal. | Creamed chicken on toast. | Creamed tuna fish. |
| Eggs. | Mashed potato. | Duchess potatoes. |
| Toast, butter. | Fresh asparagus tips. | Puréed squash. |
| Milk, cream. | Toast, butter. | Toast, butter. |
|  | Milk. | Milk. |
|  | Orange ice. | Spanish cream. |
|  | Ladyfingers. |  |
| Puréed fruit. | Soup. | Strained soup. |
| Cooked cereal. | Baked halibut with lemon. | Creamed eggs. |
| Eggs. | Creamed potato. | Whipped potato. |
| Toast, butter. | Puréed carrots. | Puréed squash. |
| Milk, cream. | Toast, butter. | Toast, butter. |
|  | Milk. | Milk. |
|  | Rice pudding, fruit sauce. | Gelatin dessert. |
| Puréed fruit. | Soup. | Soup. |
| Cooked cereal. | Roast chicken. | Tuna timbale. |
| Eggs. | Mashed potato. | Mashed sweet potato. |
| Toast, butter. | Buttered peas. | Puréed lima beans. |
| Milk, cream. | Toast, butter. | Toast, butter. |
|  | Milk. | Milk. |
|  | Vanilla ice cream. | Oranges. |
| Puréed prunes. | Soup. | Soup. |
| Cream of wheat. | Eggplant timbale. | Egg and brains. |
| Eggs. | Steamed rice. | Baked potato. |
| Toast, butter. | Puréed parsnips. | Puréed carrots. |
| Milk, cream. | Toast, butter. | Toast, butter. |
|  | Milk. | Milk. |
|  | Peach tapioca pudding. | Orange delight. |

Soft-Continued

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Baked apple. | Strained soup. | Strained soup. |
| Cooked cereal. | Cheese fondue. | Creamed eggs. |
| Eggs. | Mashed potato. | Mashed potatoes. |
| Toast, butter. | Puréed string beans. | Puréed spinach. |
| Milk, cream. | Toast, butter. | Toast, butter. |
|  | Milk. | Milk. |
|  | Baked peaches with | Prune whip. |
|  | marshmallows. |  |

182. Convalescent ulcer.-See section II, chapter 3, for midmeal nourishments.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Puréed fruit. Cream of wheat. Eggs. <br> Toast, butter. Milk, cream. | Creamed soup. | Creamed soup. |
|  | Cottage cheese. | Poached eggs on toast. |
|  | Spinach timbale. | Steamed rice. |
|  | Creamed potato. | Puréed squash. |
|  | Toast, butter. | Toast, butter. |
|  | Milk, cream. | Milk, cream. |
|  | Banana custard. | Pineapple Bavarian cream. |
| Baked banana. Flaked wheat. Eggs. Toast, butter. Milk, cream. | Creamed soup. | Creamed soup. |
|  | Cottage cheese. | Creamed eggs. |
|  | Mashed potato. | Rice. |
|  | Puréed spinach. | Puréed beets. |
|  | Toast, butter. | Toast, butter. |
|  | Milk, cream. | Milk, cream. |
|  | Vanilla ice cream. | Date custard. |
| Puréed fruit. <br> Flaked wheat. Eggs. <br> Toast, butter. Milk, cream. | Creamed soup. | Creamed soup. |
|  | Celery root timbale. | Cheese soufflé. |
|  | Steamed rice. | Baked potato. |
|  | Puréed squash. | Puréed buttered carrots. |
|  | Toast, butter. | Toast, butter. |
|  | Milk, cream. | Milk, cream. |
|  | Pumpkin custard. | Lemon snow, custard sance. |
| Puréed fruit. <br> Oatmeal. <br> Eggs. <br> Toast, butter. <br> Milk, cream. | Creamed soup. | Creamed soup. |
|  | Philadelphia creamed cheese on toast. | Artichoke with butter sauce. |
|  | Mashed sweet potato. | Eggplant timbale. |
|  | Puréed buttered peas. | Mashed potato. |
|  | Toast, butter. | Toast, butter. |
|  | Milk, cream. | Milk, cream. |
|  | Vanilla ice cream. | Baked banana. |

Convalescent ulcer-Continued

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Puréed fruit. | Creamed soup. | Creamed soup. |
| Cream of wheat. | Cottage cheese timbale. | Creamed eggs. |
| Eggs. | Mashed potato. | Baked potato. |
| Toast, butter. | Puréed carrots. | Puréed summer squash. |
| Milk, cream. | Toast, butter. | Toast, butter. |
|  | Milk, cream. | Milk, cream. |
|  | Peach Bavarian cream. | Whipped gelatin. |
| Baked apple. | Cream soup. | Cream soup. |
| Cream of wheat. | Parsnip timbale. | Creamed eggs. |
| Eggs. | Mashed potato. | Mashed potato. |
| Toast, butter. | Purée string beans. | Puréed spinach. |
| Milk, cream. | Toast, butter. | Toast, butter. |
|  | Milk, cream. | Milk, cream. |
|  | Baked peaches with marshmallows. | Prune whip. |
| Puréed fruit. | Creamed soup. | Creamed soup. |
| Cream of wheat. | Fresh asparagus tips. | Philadelphia cream cheese |
| Eggs. | Mashed potato. | on toast. |
| Toast, butter. | Celery root timbale. | Mashed potato. |
| Milk, cream. | Toast, butter. | Puréed spinach. |
|  | Milk, cream. | Toast, butter. |
|  | Prune whip. | Milk, cream. <br> Floating island pudding. |
| Puréed fruit. | Creamed soup. | Creamed soup. |
| Cream of wheat. | Artichoke with butter | Poached eggs on toast. |
| Eggs. | sauce. | Steamed rice. |
| Toast, butter. | Mashed potato. | Puréed buttered carrots. |
| Milk, cream. | Purée of buttered string beans. | Toast, butter. Milk, cream. |
|  | Toast, butter. | Caramel custard. |
|  | Milk, cream. |  |
|  | Apricot Bavarian cream. |  |
| Puréed fruit. | Creamed soup. | Creamed soup. |
| Cream of wheat. | Asparagus tips. | Egg soufflé. |
| Eggs. | Purée squash soufflé. | Puréed buttered carrots. |
| Toast, butter. | Steamed rice. | Mashed potato. |
| Milk, oream. | Toast, butter. | Toast, butter. $\square$ |
|  | Milk, cream. | Milk, cream. |
|  | Custard. | Caramel Spanish cream. |

Caramel Spanish cream.

Convalescent ulcer-Continued

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Puréed fruit. | Creamed soup. | Creamed soup. |
| Cream of wheat. | Carrot timbale. | Creamed eggs. |
| Eggs. | Mashed potato. | Fresh asparagus tips. |
| Toast, butter. | Puréed zuccini. | Steamed rice. |
| Milk, cream. | Toast, butter. | Toast, butter. |
|  | Milk, cream. | Milk, cream. |
|  | Gelatin with whipped | Prune whip. |
| eream. |  |  |
| Puréed prunes. | Creamed soup. | Creamed soup. |
| Cream of wheat. | Eggplant timbale. | Artichoke with butter |

Cream of wheat.
Eggs.
Toast, butter.
Milk, cream.

Puréed fruit.
Cream of wheat.
Eggs.
Toast, butter.
Milk, cream.

Puréed fruit.
Cream of wheat.
Scrambled eggs.
Toast, butter.
Milk, cream.

Eggplant timbale.
Steamed rice.
Puréed beets.
Toast, butter.
Milk, cream.
Peach tapioca pudding.

Creamed soup.
Savory custard.
Mashed potato.
Puréed peas.
Toast, butter.
Milk, cream.
Vanilla ice cream.

Creamed soup.
Celery root timbale.
Steamed potatoes.
Puréed beets.
Toast, butter.
Milk, cream.
Steamed Scotch pudding with whipped cream.

Artichoke with butter sauce.
Puréed carrots.
Baked potato.
Toast, butter.
Milk, cream.
Orange delight.
Creamed soup.
Puréed lima bean timbale.
Mashed sweet potatoes.
Puréed buttered squash.
Toast, butter.
Milk, cream.
Baked apple with whipped cream.

Creamed soup.
Cottage cheese timbale.
Steamed rice.
Puréed carrots.
Puréed nectarines.
Toast, butter.
Milk, cream.

## 183. High caloric.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Figs. | Fish chowder, crackers. | Scotch barley broth. |
| Cooked cereal (large or- <br> der). | Fried fish, tartar sauce. <br> Egeamed potato. | Hot roast beef sandwich. |
| Eggs. | Whipped potato. |  |
| Sausage. | Buttered carrots. | Buttered summer squash. |
| Toast, 2 slices. | Candle salad, mayonnaise. | Wilted lettuce. |
| Toast, 2 slices. | Toast, 2 slices. |  |
| Butter, 2 squares. | Butter, 2 squares. | Butter, 2 squares. |
| Milk, cream. | Milk, 3/4, and cream, 1/4. | Milk, 3/4, and cream, 1/4. |
| Jelly. | Rice pudding, fruit sauce. | Jam. |

High caloric-Continued

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Sliced peaches. | Oxtail soup. | Noodle soup. |
| Flaked wheat. | Broiled lamb chops. | Scalloped brains. |
| Eggs. | Steamed rice. | Baked potato. |
| Bacon. | Italian squash. | Buttered diced carrots. |
| Toast, 2 slices. | Jewel salad, mayonnaise. | Lettuce-asparagus salad, |
| Butter, 2 squares. | Toast, 2 slices. | mayonnaise. |

Milk, cream.
Preserves.

Oranges.
Cooked cereal.
Eggs.

## Bacon.

Toast, 2 slices.
Butter, 2 squares.
Milk, cream.
Jam or jelly.

## Fresh fruit.

Cream of wheat.
Eggs.
Crisp bacon.
Toast, 2 slices.
Butter, 2 squares.
Milk, cream.
Jam.

Stewed rhubarb.
Cooked cereal (large order).

## Eggs.

Crisp bacon.
Toast, 2 slices.
Butter, 2 squares.
Milk, cream.
Jam.

Butter, 2 squares.
Milk, cream.
Spice cake with whipped cream.

## Soup.

Swiss steak.
Creamed potato.
Swiss chard.
Combination vegetable salad, mayonnaise.
Toast, 2 slices.
Butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Fresh banana.
Jam.
Soup.
Roast beef, gravy.
Baked potato with butter.
Buttered summer squash.
Pear-apricot salad, boiled dressing.
Toast, 2 slices.
Butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Floating island pudding.

Soup.
Small broiled steak.
Boiled potato.
Glazed carrots.
Perfection salad, mayonnaise.
Toast, 2 slices.
Butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Apple crisp.
Honey.

Toast, 2 slices.
Butter, 2 squares.
Milk, cream.
Sliced fruit.
Creamed pea soup.
Chicken croquettes, giblet gravy.
Steamed rice.
Baked squash.
Sliced tomato.
Toast, 2 slices.
Butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Sliced fruit.

Cream tomato soup.
Chicken a la king.
Steamed rice.
Buttered asparagus.
Artichoke salad, mayonnaise.
Toast, 2 slices.
Butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Peach ice cream.
Ladyfingers.
Vegetable soup.
Grilled pork chops.
Mashed potato.
Fresh asparagus tips.
Shredded lettuce, dressing.
Toast, 2 slices.
Butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Apricots.
Jelly roll.

High caloric-Continued

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Fresh fruit. | Clam chowder. | Creamed celery soup. |
| Flaked wheat. | Fried fish, tartar sauce. | Individual chicken pie. |
| Eggs. | Creamed potato. | Steamed rice. |
| Fried ham steak. | Spinach. | Buttered beets. |
| Toast, 2 slices. | Pineapple-candle salad, | Sliced tomato salad. |
| Butter, 2 squares. | mayonnaise. | Toast, 2 slices. |
| Milk, cream. | Toast, 2 slices. | Butter, 2 squares. |
| Jelly. | Butter, 2 squares. | Milk, cream. |
|  | Milk, cream. | Date custard. |

Grapefruit juice.
Cream of wheat.
Eggs.
Bacon.
Toast, 2 slices.
Butter, 2 squares.
Milk, cream.
Jam.

Baked apple.
Cooked cereal.
Eggs.
Bacon.
Toast, 2 slices.
Butter, 2 squares.
Milk, cream.
Preserves.

Bread pudding, lemon sauce.
Jam.
Soup.
Swiss steak.
Mashed potato.
Buttered lima beans.
Mixed fruit salad, boiled dressing.
Toast, 2 slices.
Butter, 2 squares.
Milk, cream.
Angel food cake.
Vegetable soup.
Roast veal, gravy.
Mashed potatoes (large order).
String beans.
Tomato and lettuce salad, thousand island dressing.
Graham toast.
Butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Pear au gratin.

Creamed celery soup.
Individual chicken pie.
Steamed rice.
Buttered beets.
Sliced tomato salad.
Toast, 2 slices.
Butter, 2 squares.
Milk, cream.
Date custard.

Julienne soup.
Meat croquettes, cream gravy.
Baked potatoes.
Combination vegetable salad, mayonnaise.
Toast, 2 slices.
Butter, 2 squares.
Milk, cream.
Sliced fruit.
Mock turtle soup.
Baked beef loaf, gravy.
Mashed potatoes (large order).
Spinach with lemon.
Hearts of lettuce, French dressing.
Graham toast.
Butter, 2 squares.
Milk or buttermilk.
Prune whip.
184. High caloric, high vitamin.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Tomato juice. | Soup, crackers. | Soup, crackers. |
| Grapefruit. | Broiled lamb chop. | Hot roast beef, gravy. |
| Cream of wheat. | Boiled potatoes. | Mashed potato (large or- |
| Eggs. | Baked squash. | der) |
| Bacon. | Vegetable salad, mayon- | Buttered carrots. |
| Graham toast. | na | Hearts of lettuce, French |
| Butter, 2 squares. | Graham bread. | dressing. |
| Milk, cream. | Butter, 2 squares. | Graham bread. |
| 10:00 AM. 2 fresh oranges. | Milk, $3 / 4$, and cream, 1 | Butter, 2 squares. |
|  | Pears (large o <br> 3:00 PM. Or | Milk, $3 / 4$, and cream, Banana. |
|  |  | 9:00 PM. Eggnog. |
| Fresh fruit. | Clam chowder. | Cream celery soup. |
| Flaked wheat. | Fried fish, tartar sauce. | Individual chicken pie. |
| Eggs. | Creamed potatoes. | Steamed rice. |
| Ham steak. | Spinach (large order). | Buttered beets. |
| Graham toast. | Candle salad, mayon- | Sliced tomato salad. |
| Butter, 2 squares. | naise. | Graham toast. |
| Milk, cream. | Graham toast. | Butter, 2 squares. |
| 10:00 AM. Tom juice. | Butter, 2 squares. | Milk, $3 / 4$, and cream, $1 / 4$. |
|  | Milk or buttermilk | Date custard |
|  | Bread pudding | 9:00 PM. Orange juice. |
| Fatand | 3:00 PM. Eggnog. |  |
|  | Oxtail soup, breadsticks. | Creamed pea soup. |
| Grapefruit. Cooked cereal. | Small broiled steak. | Fried oysters, tomato |
|  | Boiled potatoes. | sauce. |
| Eggs. | Buttered diced carrots. | Boiled potato. |
| Bacon. | Combination vegetable salad, mayonnaise. | Artichoke with hollandaise sauce. |
| Butter, 2 squares. | Graham toast. | Shredded lettuce, French |
| Milk, cream. | Butter, 2 squares. | dressing. |
| $\begin{aligned} & \text { 10:00 AM. } \\ & \text { juice. } \end{aligned}$ | Milk or buttermilk. | Graham toast. |
|  | Pineapple Bavarian cream. | Butter, 2 squares. <br> Milk or buttermilk. |
|  | Fresh orange | Sliced fruit. |
|  | 3:00 PM. Orange juice. | 9:00 PM. Hot chocolate. |

High caloric, high vitamin-Continued

| Breakfast |
| :--- |
| Sliced oranges. |
| Cooked cereal. |
| Eggs. |
| Bacon. |
| Graham toast. |
| Butter, 2 squares. |
| Milk, cream. |
| Jam. |
| 10:00 AM. T o m a to |
| juice. |

Stewed prunes.
Grapefruit.
Cooked cereal.
Eggs.
Bacon.
Graham toast.
Butter, 2 squares.
Milk, cream.
Jelly.
10:00 AM. Tomato juice.

Oranges, 2.
Cooked cereal.
Eggs.
Crisp bacon.
Graham toast.
Butter, 2 squares.
Milk, cream.
Jelly.
10:00 AM. Orange juice.

| Dinner |
| :--- |
| Soup, crackers. |
| Small broiled steak. |
| Boiled potato. |
| Glazed carrots. |
| Perfection salad, mayon- | naise.

Graham toast.
Butter, 2 squares.
Milk or buttermilk.
Apple pie, cheese.
3:00 PM. Orange juice.

Cream tomato soup.
Roast pork, gravy.
Mashed potato.
Buttered peas.
Philadelphia cream cheese.
Fruit cocktail.
Graham toast.
Butter, 2 squares
Milk or buttermilk.
Orange sherbet.
Cookies.
3:00 PM. Eggnog.
Soup.
Swiss steak.
Creamed potato.
Chard.
Combination salad, mayonnaise.
Graham toast.
Butter, 2 squares.
Milk or buttermilk.
Sliced banana with cream.
3:00 PM. Tomato juice, buttered crackers.

Supper

Vegetable soup.
Grilled pork chops.
Mashed potato.
Fresh asparagus tips.
Shredded lettuce.
Graham toast.
Butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Jelly roll.
Apricots.
9:00 PM. Cocoa, buttered graham toast.

Scotch barley broth.
Creamed tuna fish on toast.
Mashed potato.
Artichoke with hollandaise sauce.
Sliced tomato salad, mayonnaise.
Graham toast.
Butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Fresh fruit.
9:00 PM. Tomato juice.
Soup.
Chicken croquettes, giblet gravy.
Steamed rice.
Baked squash.
Sliced tomato.
Butter, 2 squares.
Graham toast.
Milk, $3 / 4$, and cream, $1 / 4$.
Sliced fruit.
9:00 PM. Eggnog.

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High caloric, high vitamin-Continued

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Sliced banana. | English broth, crackers. | Creamed tomato soup, |
| Flaked wheat. | Roast lamb, gravy. | crackers. |
| Eggs. | Mint jelly. | Broiled liver, bacon. |
| Bacon. | Mashed potato (large | Scalloped brains. |
| Graham toast. | order). | Diced potato. |
| Butter, 2 squares. | Buttered peas. | Artichoke with hollandaise |
| Milk, cream. | Cabbage salad, boiled | sauce. |
| Jam. | dressing. | Combination salad, may- |
| 9:00 AM. Eggnog. | Graham toast. | onnaise. |
|  | Butter, 2 squares. . | Graham toast. |
|  | Milk or buttermilk. | Butter 2 squares. |
|  | Apple sauce. | Milk or buttermilk. |
|  | 3:00 PM. Hot chocolate. | Ice cream and cake. |

Fish chowder.
Fried fish, tartar sauce.
Creamed potato.
Buttered carrots.
Candle salad, mayonnaise.
Graham toast.
Butter, 2 squares.
Milk or buttermilk.
Rice pudding, fruit sauce.
3:00 PM. Iced chocolate
or hot chocolate.
Potato chowder.
Roast beef, gravy.
Baked potato.
Swiss chard.
Carrot-raisin salad, boiled dressing.
Graham toast.
Butter, 2 squares.
Milk, cream.
Tapioca cream pudding.
3:00 PM. Orange juice.

Sliced grapefruit.
Oatmeal.
Eggs.
Bacon.
Graham toast.
Butter, 2 squares.
Milk, cream.
9:00 AM. Fruit juice.

Figs.
Cooked cereal.
Eggs.
Sausage.
Graham toast.
Butter, 2 squares.
Milk, cream.
Jelly.
9:00 AM. Eggnog.


High caloric, high vitamin-Continued


3:00 PM. Tomato juice, buttered toast.

Figs.
Cooked cereal.
Eggs.
Bacon.
Graham toast.
Butter, 2 squares.
Milk, cream.
9:00 AM. Cocoa.

Soup, crackers.
Scalloped brains.
Boiled potato.
Baked zuccini.
Banana-orange salad, mayonnaise.
Graham toast.
Butter, 2 squares.
Milk, $3 / 4$, and cream $1 / 4$.
Canned fruit.
3:00 PM. Eggnog.

Corn chowder.
Individual chicken pie.
Steamed rice.
Buttered string beans.
Shredded lettuce salad, French dressing.
Graham toast.
Butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Sliced fruit.
9:00 PM. Orange juice.

Mushroom soup.
Short ribs of beef, gravy.
Mashed potato.
Buttered carrots, peas.
Wilted lettuce.
Graham toast.
Butter, 2 squares.
Milk.
Floating island pudding.
9:00 PM. Orange juice.

Tomato bouillon.
Grilled pork chop, cream gravy.
Steamed rice.
Fresh asparagus tips.
Hearts of lettuce salad, French dressing.
Graham toast.
Butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Banana.
9:00 PM. Orange juice.
185. Dental soft.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Oranges. | Vegetable soup. | Creamed pea soup. |
| Puréed fruit. | Ground meat, gravy, | Chicken croquettes, giblet |
| Cooked cereal. | Creamed potato. | gravy. |
| Eggs. | Puréed spinach timbale. | Steamed rice. |
| Toast, butter. | Cottage cheese. | Puréed squash. |
| Milk, cream. | Bread, butter. | Bread, butter. |
| Jelly. | Milk. | Milk. |
|  | Fresh banana. | Pineapple Bavarian cream. |
| Sliced grapefruit. | Soup. | Soup. |
| Oatmeal. | Ground roast lamb, | Ground roast veal, gravy. |
| Eggs. | brown gravy. | Mashed squash. |
| Toast, butter. | Fluffed potato. | Steamed rice. |
| Milk, cream. | Eggplant-corn timbale. | Toast, butter. |
|  | Toast, butter. | Milk. |
|  | Milk. | Baked apple with whipped |
|  | Cottage cheese. <br> Tapioca cream pudding. | cream. |
| Apple sauce. | Oxtail soup. | Soup. |
| Cooked cereal. | Ground roast lamb, gravy. | Ground baked veal loaf, |
| Eggs. | Mint jelly. | tomato sauce. |
| Toast, butter. | Mashed potato. | Creamed potato. |
| Milk, cream. | Celery root timbale. | Fresh asparagus tips. |
|  | Puréed carrots. | Lima bean timbale. |
|  | Bread, butter. | Bread, butter. |
|  | Milk. | Milk. |
|  | Orange ice. | Pineapple Bavarian cream. |
| Grapefruit juice. | Soup. | Soup. |
| Cream of wheat. | Ground meat, gravy. | Ravioli, mushroom sauce. |
| Eggs. | Mashed potato. | Baked potato. |
| Toast, butter. | Puréed carrots. | Mashed squash. |
| Milk, cream. | Lima bean timbale. | Bread, butter. |
| Jam. | Bread, butter. | Gelatin with whipped |
|  | Milk. | cream. |
|  | Spanish cream. |  |
| Baked banana. | Clam chowder. | Cream of celery soup. |
| Flaked wheat. | Broiled salmon, lemon | Ground chicken, gravy. |
| Eggs. | sauce. | Steamed rice. |
| Toast, butter. | Creamed potato. | Puréed beets. |
| Milk, cream. | Puréed spinach. | Cottage cheese. |
| Jelly. | Bread, butter. | Bread, butter. |
|  | Milk. | Milk. |
|  | Bread pudding, sauce. |  |

Dental soft-Continued

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Oranges. | Rivel soup. | Creamed tomato soup. |
| Cream of wheat. | Ground roast beef, gravy. | Ground creamed chicken. |
| Eggs. | Baked potato. | Steamed rice. |
| Toast, butter. | Puréed squash. | Asparagus tips. |
| Milk, cream. | Cottage cheese. Bread, butter. | Artichoke salad, mayonnaise. |
|  | Milk. | Bread, butter. |
|  | Floating island pudding. | Milk. |
| Puréed fruit. | Noodle soup. | Jackson soup. |
| Fresh oranges. | Ground roast pork, gravy. | Tuna fish timbale. |
| Cooked cereal. | Mashed potato. | Steamed rice. |
| Eggs. | Puréed buttered peas. | Puréed string beans. |
| Toast, butter. | Bread, butter. | Bread, butter. |

Milk.
Baked apple with whipped cream.

Soup.
Salmon timbale.
Mashed sweet potato.
Puréed lima beans.
Puréed squash.
Toast, butter.
Milk.
Baked apple with whipped cream.

Corn chowder.
Ground roast beef, gravy.
Steamed rice.
Vegetable timbale.
Artichoke salad, mayonnaise.
Bread, butter.
Milk.
Gelatin with cream.
Soup.
Eggs and brains.
Scalloped potato.
Puréed carrots.
Artichoke with hollandaise sauce.
Bread, butter.
Milk.
Orange delight.

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186. Anticonstipation.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Stewed rhubarb. <br> Bran cereal. <br> Egg. <br> Ham. <br> Graham toast, butter. <br> Cream. <br> 10:00 AM. Orange juice. | Soup with agar. | Soup with aga |
|  | Fried smelts, tartar sauce. | Breaded veal cutlet, cream gravy. |
|  | Buttered string beans. | Broccoli with hollandaise |
|  | Buttered rutabagas. | sa |
|  | Pear-orange-date salad, | Buttered carrots. |
|  | Bran muffins, butter. Buttermilk. Sliced apricots. | Candlestick salad, boiled dressing. <br> Sliced fruit. |
|  | 3:00 PM. Fruit juice | 9:00 PM. Tomato juice. |
| Stewed fruit. <br> Bran cereal. <br> Egg. <br> Crisp bacon. <br> Butter, toast. <br> Cream. <br> Milk, $1 / 2$ glass. <br> 10:00 AM. Orange juice. | Soup with agar. | Soup with agar. |
|  | Roast pork, gra | Roast beef, gravy. |
|  | Buttered peas. | Artichoke with hollan- |
|  | Cabbage. | daise sauce. |
|  | Fruit cocktail. | Baked eggplant. |
|  | Graham toast, butter. | Sliced tomato salad, may- |
|  | Buttermilk. | onnaise. |
|  | Orange sherbet. | Graham toast, butte |
|  | Cookies. | Buttermilk. |
|  | 3:00 PM. Tomato juice. | sh fruit. |
|  |  | 9:00 PM. Fruit juice. |
| Banana. <br> Bran cereal. <br> Egg. <br> Sausage. <br> Graham toast. <br> Butter. <br> Cream. <br> Milk, $1 / 2$ glass. <br> 10:00 AM. Fruit juice. | Soup with agar. | Creamed tomato soup |
|  | Roast chicken, gravy. | with agar. |
|  | Buttered peas. | Roast beef. |
|  | Fruit cocktail. | Buttered lima beans. |
|  | Spinach. | Squash. |
|  | Graham toast, butter | Celery hearts. |
|  | Buttermilk. | Graham toast, butter |
|  | Special ice cream. | Buttermilk. |
|  | Raw apple, peeled. | Sliced oranges. |
|  | 3:00 PM. Tomato juice. | Baked apple. |
|  |  | 9:00 PM. Orange juice. |
| Steamed rhubarb. <br> Bran cereal. <br> Egg. <br> Crisp bacon. <br> Graham toast, butter. <br> Cream. <br> Milk, $1 / 2$ glass. | Soup with agar. | Vegetable soup with agar. |
|  | Corned beef, cabbage. | Grilled pork chops |
|  | Rutabagas. | Fresh asparagus. |
|  | Perfection salad, mayon- | Buttered celery root. |
|  | naise. | Shredded lettuce. |
|  | Graham toast, butter | Graham toast, butte |
|  | Buttermilk. | Buttermilk. |
| 10:00 AM. Tomato juice. | Apple crisp. | Apricots (large order) |
|  | 3:00 PM. Orange juice. | 9:00 PM. Fruit juice. |

Anticonstipation-Continued

| Breakfast |
| :--- |
| Oranges. |
| Bran cereal. |
| Egg. |
| Graham toast, butter. |
| Cream. |
| Milk, $1 / 2$ glass. |
| $10: 00 \mathrm{AM} . \quad \mathrm{O}$ r a n g e |
| juice. |

Sliced banana.
Bran cereal.
Egg.
Crisp bacon.
Graham toast, butter.
Milk, $1 / 2$ glass.
Cream.
10:00 AM. Tomato juice.

Orange juice.
Fresh fruit.
Bran cereal.
Egg.
Bacon.
Graham toast, butter.
Cream.
Milk, $1 / 2$ glass.
10:00 AM. Orange juice.

Tomato juice.
Bran cereal.
Egg.
Crisp bacon.
Graham toast, butter.
Cream.
Milk, $1 / 2$ glass.
10:00 AM. Orange juice.

| Dinner |
| :--- |
| Soup with agar. |
| Swiss steak. |
| Chard. |
| Buttered onions. |
| Combination vegetable |
| salad, mayonnaise. |

Soup with agar.
Chicken croquette, giblet gravy.
Baked squash.
Turnips.
Sliced tomato.
Graham toast, butter.
Buttermilk.
Sliced fruit.
9:00 PM. Fruit juice.
Cream tomato soup with agar.
Beef stew.
Artichoke with hollandaise sauce.
Buttered rutabagas.
Combination salad, mayonnaise.
Graham toast, butter.
Buttermilk.
Ice cream.
Fresh fruit.
9:00 PM. Fruit juice.
Soup with agar.
Frankfurters.
Buttered carrots.
Celery root.
Lettuce-asparagus salad, mayonnaise.
Graham toast, butter.
Buttermilk.
Sliced fruit.
9:00 PM. Fruit juice.
Soup with agar.
Roast beef, gravy.
Buttered carrots.
Cauliflower.
Hearts of lettuce, French dressing.
Graham bread, butter.
Buttermilk.
Ripe banana.
9:00 PM. Tomato juice.

Anticonstipation-Continued

| Breakfast |
| :--- |
| Figs (large order). |
| Bran cereal. |
| Egg. |
| Sausage. |
| Graham toast, butter. |
| Milk, $1 / 2$ glass. |
| 10:00 AM. O r a n g e |
| juice. |

Baked apple.
Bran cereal.
Egg.
Bacon.
Graham toast, butter.
Cream.
Milk, $1 / 2$ glass.
10:00 AM. Orang e juice.

Canned apricots.
Grapefruit.
Bran cereal.
Egg.
Bacon.
Graham toast, butter.
Cream.
Milk, $1 / 2$ glass.
10:00 AM. Fruit juice.

Pineapple juice.
Canned apricots.
Bran cereal.
Egg.
Crisp bacon.
Graham toast, butter.
Milk, cream.
10:00 AM. Fruit juice.

Soup with agar.
Fresh fish, tartar sauce.
Buttered carrots.
Cauliflower.
Candlestick salad, mayonnaise.
Graham toast, butter.
Buttermilk.
Peaches.
3:00 PM. Tomato juice.
Soup with agar.
Roast veal, gravy.
String beans.
Rutabagas.
Cauliflower - tomato - egg salad, thousand island dressing.
Graham toast, butter.
Buttermilk.
Fresh fruit.
3:00 PM. Fruit juice.
Soup with agar.
Roast lamb, gravy.
Buttered cauliflower.
Scalloped tomato.
Cole slaw.
Graham toast, butter.
Buttermilk.
Canned fruit.
Raw apple.
3:00 PM. Orange juice.

Soup with agar.
Roast veal, gravy.
Creamed cauliflower.
Buttered beets.
Mixed fruit salad with whipped cream.
Graham toast, butter.
Buttermilk.
Sliced orange, stewed raisins.
3:00 PM. Tomato juice.

Supper
Soup with agar.
Roast beef, gravy.
Buttered summer squash.
Onions.
Wilted lettuce.
Graham toast, butter.
Buttermilk.
Sliced fruit.
9:00 PM. Fruit juice.

Mock turtle soup.
Baked beef loaf, gravy.
Spinach.
Baked fresh tomato.
Hearts of lettuce, French dressing.
Graham toast, butter.
Buttermilk.
Prune whip.
9:00 PM. Tomato juice.

Soup with agar.
Breaded pork chop, cream gravy.
Mashed potato.
Buttered string beans.
Sliced tomato.
Bran muffin, butter.
Buttermilk.
Baked apple with whipped cream.
9:00 PM. Tomato juice.
Soup with agar.
Frankfurters.
Glazed carrots.
Sauerkraut.
Wilted lettuce.
Graham toast, butter.
Buttermilk.
Sliced fruit.
9:00 PM. Orange juice.

Anticonstipation-Continued

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Baked apple. <br> Bran cereal. <br> Egg. <br> Crisp bacon. <br> Graham toast, butter. <br> Cream. <br> Milk, $1 / 2$ glass. <br> 10:00 AM. Orange juice. | Bean soup with agar. <br> Roast lamb, gravy. <br> Mint jelly. <br> Buttered peas. <br> Buttered asparagus tips. <br> Sliced tomato salad, mayonnaise. <br> Hot bran muffin, butter. <br> Buttermilk. <br> Baked peaches with marshmallows. <br> 3:00 PM. Tomato juice. | Consomme with agar. <br> Hungarian goulash. <br> Buttered beets. <br> Corn. <br> Combination vegetable <br> salad, mayonnaise. <br> Graham toast, butter. <br> Buttermilk. <br> Ice cream with crushed fruit. <br> 9:00 PM. Fruit juice. |

187. Pernicious anemia.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Apple sauce. <br> Cooked cereal. <br> Eggs, 2. <br> Crisp bacon. <br> Graham toast, butter. <br> Milk, cream. <br> 10:00 AM. Orange juice. | Soup. <br> Roast lamb, gravy. <br> Liver baked in fresh tomato. <br> Mashed potato. <br> Glazed carrots. <br> Graham toast, butter. <br> Celery root-pineapple salad, boiled dressing. Orange ice. <br> 3:00 PM. Fruit juice. | Soup. <br> Scalloped sweetbreads. <br> Baked veal loaf, sauce. <br> Creamed potato. <br> Baked eggplant. <br> Pear-orange salad. <br> Graham toast, butter. <br> Milk. <br> Apricots. <br> 9:00 PM. Tomato juice. |
| Grapefruit juice. <br> Cream of wheat. <br> Eggs, 2. <br> Bacon. <br> Graham toast, butter. <br> Milk, cream. <br> 10:00 AM. Tomato juice. | Soup. <br> Swiss steak. <br> Mashed potato. <br> Succotash. <br> Liver baked in tomato. <br> Mixed fruit salad, boiled dressing. <br> Graham toast, butter. <br> Milk. <br> Apple sauce. <br> 3:00 PM. Orange juice. | Julienne potato soup. <br> Broiled liver and bacon. <br> Creamed sweetbreads on toast. <br> Baked potato. <br> Mashed squash. <br> Graham toast, butter. <br> Milk. <br> Star salad with strawberries. <br> Sliced fruit. <br> 9:00 PM. Fruit juice. |

Pernicious anemia-Continued

| Breakfast |
| :--- |
| Stewed prunes. |
| Cooked cereal. |
| Egg. |
| Broiled liver. |
| Graham toast, butter. |
| Milk, cream. |
| 10:00 AM. Tomato juice. |

Fresh fruit.
Cream of wheat.
Eggs scrambled with liver.
Graham toast, butter.
Milk, cream.
10:00 AM. Orange juice.

Sliced oranges.
Cooked cereal.
Eggs.
Crisp bacon.
Graham toast, butter.
Milk, cream.
10:00 AM. Orange juice.

## Apricots.

Cream of wheat.
Eggs.
Liver patties.
Graham toast, butter.
Milk, cream.
10:00 AM. Tomato juice.

Fruit cocktail.
Cream of tomato soup.
Broiled chicken.
Mashed potato.
Liver patties.
Toast, butter.
Orange sherbet.
Milk.
3:00 PM. Fruit juice.

Rivel soup.
Roast beef, gravy.
Baked potato stuffed with liver.
Summer squash.
Pear-apricot salad, boiled dressing.
Graham toast, butter.
Milk.
Sliced oranges.
2:00 PM. Tomato juice.

Soup.
Small broiled steak.
Boiled potato.
Glazed carrots.
Spanish liver.
Perfection salad, small amount mayonnaise.
Graham toast, butter.
Milk.
Baked apple.
2:00 PM. Tomato juice.
Fish chowder.
Baked halibut.
Liver baked in pepper.
Creamed potato.
Carrots.
Candlestick salad, small amount mayonnaise.
Graham toast, butter.
Milk.
Peaches.
2:00 PM. Fruit juice.

Scotch barley broth.
Broiled steak.
Mashed potato.
Artichoke with hollandaise sauce.
Sliced tomato with diced broiled liver salad.
Graham toast, butter.
Milk.
Fruit cup.
9:00 PM. Orange juice.
Cream of tomato soup.
Chicken a la king on graham toast.
Scalloped rice and kidney.
Buttered asparagus tips.
Fruit salad with dates, boiled dressing.
Graham toast, butter.
Milk.
Peach ice cream.
Ladyfingers.
8:00 PM. Fruit juice.
Vegetable soup.
Scrambled eggs and brains.
Broiled liver.
Mashed potatoes.
Fresh asparagus tips.
Shredded lettuce.
Graham toast, butter.
Milk.
Apricots.
8:00 PM. Orange juice.
Scotch barley broth.
Hot roast beef, gravy.
Liver baked in potato.
Buttered summer squash.
Wilted lettuce.
Graham toast, butter.
Milk.
Sliced fruit.
9:00 PM. Orange juice.

Pernicious anemia-Continued

| Breakfast |
| :--- |
| Rhubarb. |
| Oatmeal. |
| Egg. |
| Broiled liver. |
| Bacon. |
| Graham toast, butter. |
| Milk, cream. |
| 10:00 AM. Fruit juice. |

Oranges.
Cooked cereal.
Egg.
Crisp bacon.
Graham toast, butter.
Milk, cream.
10:00 AM. Tomato juice.

## Oranges.

Cooked cereal.

## Eggs.

## Ham.

Graham toast, butter.
Milk, cream.
10:00 AM. Tomato juice.

Split pea soup.
Roast beef, gravy (small amount).
Mashed potato.
Succotash.
Liver scalloped with tomato.
Artichoke salad, mayonnaise.
Graham bread, butter.
Milk.
Peach sherbet.
2:00 PM. Tomato juice.
Vegetable soup.
Small steak.
Creamed potato.
Swiss chard.
Liver stuffed in pepper.
Combination vegetable salad, mayonnaise.
Graham toast, butter.
Milk.
Banana.
2:00 PM. Fruit juice.
Noodle soup.
Broiled chicken with cream gravy and liver.
Baked sweet potato.
Buttered peas.
Fruit cocktail.
Graham bread, butter.
Milk.
Special ice cream.
Ladyfingers.
2:00 PM. Fruit juice.

## Soup.

Club sandwich.
Broiled liver with bacon.
Sliced tomato and lettuce, mayonnaise (small amount).
Macaroni and cheese (small order).
Sliced fruit (large order).
9:00 PM. Orange juice.

Creamed pea soup.
Chicken croquettes, giblet gravy.
Steamed rice and liver pie. Squash.
Sliced tomato.
Graham toast, butter.
Milk.
Sliced fruit.
9:00 PM. Orange juice.

Soup.
Fried calves' liver and crisp bacon.
Creamed hominy.
Buttered string beans.
Sliced tomato and asparagus salad, mayonnaise. Graham toast, butter.
Milk.
Baked apple with cream.
8:00 PM. Orange juice.

## Pernicious anemia-Continued

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Tomato juice. <br> Fresh orange. <br> Cereal. <br> Egg. <br> Liver and bacon. <br> Graham toast, butter. <br> Milk, cream. <br> 10:00 AM. Fruit juice. | Soup. <br> Broiled lamb chops. <br> Boiled potatoes. <br> Baked squash. <br> Kidney pie. <br> Combination salad, mayonnaise. <br> Graham bread, butter. Milk. <br> Canned pears. <br> 2:00 PM. Fruit juice. | Noodle soup. <br> Scrambled eggs with brains. <br> Broiled steak. <br> Mashed potato. <br> Buttered carrots. <br> Hearts of lettuce, French dressing. <br> Graham bread, butter. <br> Milk. <br> Banana. <br> 9:00 PM. Tomato juice. |
| Sliced grapefruit. <br> Oatmeal. <br> Eggs. <br> Crisp bacon. Graham toast, butter. Milk, cream. <br> 10:00 AM. Orange juice. | Potato chowder. <br> Roast beef, gravy. <br> Baked potato stuffed with liver. <br> Swiss chard. <br> Carrot-raisin salad, boiled dressing. <br> Graham toast, butter. <br> Milk. <br> Canned pears. <br> 3:00 PM. Tomato juice. | Tomato bouillon. <br> Creamed chicken. <br> Steamed rice. <br> Fresh asparagus tips. Spanish liver and kidney Cottage cheese-fruit salad mayonnaise. <br> Graham toast, butter. Milk. <br> Pineapple delight. <br> 9:00 PM. Fruit juice. |
| Stewed prunes. <br> Cream of wheat. <br> Eggs, 2. <br> Crisp bacon. <br> Graham toast, butter. <br> Milk, cream. <br> 10:00 AM. Orange juice. | Soup. <br> Lamb patties. <br> Bacon. <br> Scalloped tomato. <br> Steamed rice and liver pie. <br> String bean-asparaguspimento salad, small amount mayonnaise. <br> Graham toast, butter. <br> Milk. <br> Peaches with steamed raisins. <br> 3:00 PM. Fruit juice. | Bouillon. <br> Scrambled eggs with brains. <br> Broiled liver. <br> Scalloped potato. <br> Artichoke with hollandaise sauce. <br> Graham toast, butter. <br> Milk. <br> Fruit cup. <br> 9:00 PM. Tomato juice. |

## 188. Low fat.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Apple sauce. | Bouillon. | Bouillon. |
| Cooked cereal. | Roast lamb. | Hamburger. |
| Egg, 1. | Mint jelly. | Baked eggplant. |
| Toast, jam. | Mashed potato. | Boiled potato. |
| Skim milk. | Peas. | Pear-orange salad. |
|  | Celery root-pineapple | Toast, jam. |
|  | salad, mineral oil | Gelatin dessert. |
|  | French dressing. | Skim milk. |

Apple sauce.
Cream of wheat.
Egg, 1.
Toast, jam.
Skim milk.

Oranges.
Cooked cereal.
Egg, 1.
Toast, jam.
Skim milk.

Banana.
Cream of wheat.
Egg, 1.
Toast, jam.
Skim milk.

Bouillon.
Roast lamb.
Mint jelly.
Mashed potato.
Peas.
Celery root-pineapple salad, mineral oil
French dressing.
Toast, jam.
Skim milk.
Orange ice.
Bouillon.
Baked sea bass with lemon.
Spinach.
Boiled potato.
Fruit salad.
Toast, jam.
Skim milk.
Sherbet.
Bouillon.
Broiled chicken.
Mashed potato.
Peas.
Star salad.
Toast, jam.
Skim milk.
Sherbet.
Ladyfingers.
Bouillon.
Fluffed meat ball.
Fresh asparagus tips.
Boiled potato.
Cottage cheese salad.
Toast, jam.
Skim milk.
Fruit cup.

Bouillon.
Hamburger.
Baked eggplant.
Boiled potato.
Pear-orange salad.
Toast, jam.
Gelatin dessert.
Skim milk.

Bouillon.
Lamb steak.
String beans.
Baked potato.
Date-orange-cottage cheese salad.
Toast, jam.
Skim milk.
Pears.
Bouillon.
Steak.
String beans.
Steamed rice.
Asparagus tip salad, mineral oil dressing.
Toast, jam.
Skim milk.
Baked apple.
Bouillon.
Veal steak.
Peas.
Mashed potato.
Celery root salad, mineral oil dressing.
Toast, jam.
Skim milk.
Apricots.

Low fat-Continued

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Banana. | Bouillon. | Bouillon. |
| Cooked cereal. | White meat of chicken. | Roast beef. |
| Egg, 1. | Mashed potato. | Sweet potato. |
| Toast, jam. | Peas. | Baked squash. |
| Skim milk. | Fruit cocktail. | Celery hearts. |
|  | Toast, jam. | Baked apple. |
|  | Skim milk. | Toast, jam. |
|  | Sherbet. | Skim milk. |
|  |  | Oranges. |
| Apricots. | Bouillon. | Bouillon. |
| Cream of wheat. | Halibut with lemon. | Roast beef. |
| Egg, 1. | Potato. | Summer squash. |
| Toast, jam. | Peas. | Baked potato. |
| Skim milk. | Candlestick salad, mineral oil dressing. | Hearts of lettuce, minera oil dressing. |
|  | Toast, jam. | Toast, jam. |
|  | Skim milk. | Skim milk. |
|  | Peaches. | Sliced fruit. |
| Sliced oranges. Cream of wheat. | Bouillon. | Bouillon. |
|  | Roast lamb. | Meat balls. |
| Eggs. | Mashed potato. | Baked potato. |
| Toast, jam. | Lima beans. | String beans. |
| Skim milk. | Fruit salad. | Asparagus tip salad, min eral oil dressing. |
|  | Skim milk. | Toast, jam. |
|  | Angel food cake. | Skim milk. |
|  |  | Sliced fruit. |
| Sliced oranges. | Bouillon. | Bouillon. |
| Cooked cereal. | Lamb patties. | Steak. |
| Egg, 1. | Rice. | Celery root. |
| Toast, jam. | Peas. | Mashed potato. |
| Skim milk. | Hearts of lettuce, mineral oil dressing. | Cottage cheese salad. Toast, jam. |
|  | Toast, jam. | Skim milk. |
|  | Skim milk. | Apricots. |
|  | Baked apple. |  |
| Steamed prunes. | Bouillon. | Bouillon. |
| Cooked cereal. | Roast veal. | Lamb steak. |
| Egg, 1. | Baked potato. | Turnips. |
| Toast, jam. | Fresh asparagus tips. | Mashed potato. |
| Skim milk. | Celery hearts. | Date-orange salad. |
|  | Toast, jam. | Toast, jam. |
|  | Skim milk. | Skim milk. |
|  | Fruit cup. ${ }^{\text {a }}$ | Apple sauce. |

Low fat-Continued

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Oranges. | Bouillon. | Bouillon. |
| Cooked cereal. | Small steak. | Chicken. |
| Egg, 1. | Spinach. | Rice. |
| Toast, jelly. | Boiled potato. | Squash. |
| Skim milk. | Cottage cheese salad. | Fruit salad. |
|  | Toast, jam. | Toast, jam. |
|  | Skim milk. | Skim milk. |
|  | Banana. | Sliced fruit. |
| Sliced banana. | Bouillon. | Bouillon. |
| Flaked wheat. | Steak. | Roast beef. |
| Egg, 1. | Asparagus tips. | Baked squash. |
| Toast, jam. | Mashed potato. | Boiled potato. |
| Skim milk. | Fresh oyster cocktail with | Hearts of lettuce, mineral |
|  |  |  |

Fresh oyster cocktail with lemon.
Toast, jam.
Skim milk.
Orange ice.
Ladyfingers.
Baked apple.
Cooked cereal.
Egg, 1.
Toast, jam.
Skim milk.

Sliced oranges.
Oatmeal.
Egg, 1.
Toast, jam.
Skim milk.

Sliced peaches.
Flaked wheat.
Egg, 1.
Toast, jam.
Skim milk.
Bouillon.
Roast veal.
String beans.
Mashed potato.
Lettuce salad, mineral oil dressing.
Toast, jam.
Skim milk.
Sliced peaches.
Bouillon.
Roast beef.
Summer squash.
Baked potato.
Cottage cheese-pear salad, mineral oil dressing.
Toast, jam.
Skim milk.
Gelatin dessert.
Bouillon.
Lamb steak.
Italian squash.
Steamed rice.
Celery root salad, mineral oil dressing.
Toast, jam.
Skim milk.
Canned pears.

> 189. Cardiovascular-renal (nephritic).-Approximately 40 grams of protein.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Grapefruit, 1/2. | Boiled fish, 35 grams, | Creamed soup (small serv- |
| Salt-free flaked wheat. |  | ing). |
| Egg, 1. | "Sac" spinach, 50 grams. | Rice. |
| Toast, salt-free butter. | Boiled potato. | Buttered cauliflower. |
| Milk, 1/2 glass. | Star salad. | Fresh beets. |
| Cream. | Toast, $1 / 2$ slice, salt-free butter. | Sliced tomato. <br> Toast, salt-free butter |
|  | Sherbet. | Milk, 1/2 glass. |
|  |  | Canned fruit. |
| Sliced orange. <br> Salt-free flaked wheat. | Chicken, 40 grams, with 25 grams table cream. | Salt-free buttered fresh peas. |
|  |  |  |

Egg, 1.
Toast, salt-free butter. Cream.
Jelly.

Sliced oranges.
Salt-free cream of wheat.
Egg, 1.
Toast, salt-free butter.
Cream.

Sliced oranges.
Salt-free cream of wheat.
Egg, 1.
Toast, salt-free butter.
Cream.

Boiled fish, 35 grams, with lemon.
"Sac" spinach, 50 grams.
Boiled potato.
Star salad.
Toast, $1 / 2$ slice, salt-free butter.
Sherbet.

Fresh asparagus tips.
Mashed potato.
Fruit salad with whipped cream.
Toast, salt-free butter.
Orange ice.
Creamed soup (small serving).
Salt-free buttered cauliflower.
Fresh carrots.
Mashed potato.
Mixed fruit salad with whipped cream.
Toast, salt-free butter.
Apple sauce.
Small order cream soup, crackers, salt-free.
Salt-free buttered summer squash.
Onions.
Baked potato.
Pear-apricot salad with whipped cream.
Toast, salt-free butter.
Sliced oranges.

Creamed soup (small serving).

Buttered cauliflower.
Fresh beets.
Sliced tomato.
Toast, salt-free butter.
Milk, $1 / 2$ glass.
Canned fruit.

Baked squash.
Boiled potato.
Hearts of lettuce salad, salt-free dressing.
Toast, salt-free butter.
Fruit cup.
Baked potato, salt-free butter.
Mashed squash.
Salt-free string beans.
Hearts of lettuce salad.
Toast, salt-free butter.
Milk, 1 glass.
Sliced fruit.

Diced chicken, 40 grams, in 25 grams table cream.
Rice.
Fresh carrots.
Artichoke salad, salt-free mayonnaise.
Toast, salt-free butter.
Peach ice cream.

Cardiovascular-renal-Continued

| Breakfast |
| :--- |
| Stewed prunes. |
| Salt-free cream of wheat. |
| Egg, 1 . |
| Toast, salt-free butter. |
| Milk, $1 / 2$ glass. |
| Cream. |

Fresh fruit.
Salt-free flaked wheat.
Egg, 1.
Toast, salt-free butter. Cream.

Apricots.
Salt-free cream of wheat. Egg, 1.
Toast, salt-free butter.
Cream.

Sliced grapefruit.
Salt-free cream of wheat.
Egg, 1.
Toast, salt-free butter.
Cream.

Baked apple.
Salt-free cream of wheat. Poached egg, 1.
Toast, salt-free butter.
Milk.
Cream.
$-\frac{\text { Dinner }}{\text { Broiled chicken, } 40 \text { grams. }}$

Mashed potato.
Salt-free buttered cabbage.
Fruit cocktail.
Toast, salt-free butter.
Orange sherbet.
Cookies.
Baked potato.
Baked eggplant.
Fresh peas.
Mixed fruit salad.
Toast, salt-free butter.
Milk, $1 / 2$ glass.
Apple sauce.

Baked halibut, 40 grams, with lemon.
Mashed potato.
Salt-free buttered cauliflower.
Candlestick salad, saltfree mayonnaise.
Toast, salt-free butter.
Canned peaches.

Cream soup (small serving).
Summer squash.
Baked potato.
Swiss chard.
Pear-orange salad.
Toast, salt-free butter.
Tapioca cream pudding.
Milk, $1 / 2$ glass.
Cream soup.
Lamb chop, 40 grams.
Mashed potato.
Rutabagas.
Lettuce, salt-free French dressing.
Baked peach and marshmallow.
Toast, salt-free butter.
Orange juice.

Supper
Creamed soup(small order).
Salt-free buttered onions.
Mashed potato.
Baked eggplant.
Artichoke salad, salt-free mayonnaise.
Toast, salt-free butter.
Fresh fruit.
Cream soup.
Diced potato.
Asparagus.
Buttered rutabagas.
Artichoke salad, salt-free mayonnaise.
Toast, salt-free butter.
Sherbet.
Cream soup.
Salt-free buttered summer squash.
Baked potato.
Salt-free buttered onions.
Hearts of lettuce, salt-free dressing.
Toast, salt-free butter.
Sliced fruit.
Milk, $1 / 2$ glass.
Diced chicken, 40 grams, in 25 grams table cream.
Rice.
Fresh asparagus tips.
Hearts of lettuce, salt-free mayonnaise.
Toast, salt-free butter.
Canned fruit.

Cream soup.
Salt-free spinach.
Baked potato.
Cauliflower.
Star salad.
Strawberries.
Toast, salt-free butter.
Milk, $1 / 2$ glass.

Cardiovascular-renal-Continued

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Baked apple. | Cream soup. | Cream soup. |
| Salt-free cream of wheat. | Banana squash. | Baked fresh tomato. |
| Egg, 1. | Boiled potato. | Salt-free buttered cauli- |
| Toast, salt-free butter. | Rutabagas. | flower. |
| Milk, $1 / 2$ glass. | Peach-date salad. | Boiled potato. |
| Cream. | Toast, salt-free butter. | Stuffed prune salad. |
|  | Milk, $1 / 2$ glass. | Toast, salt-free butter. |
|  | Pear au gratin. | Milk, $1 / 2$ glass. |
|  |  | Fruit cup. |
|  |  |  |

190. Low purin.-No tea, coffee, salt.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Sliced oranges. <br> Cream of wheat. <br> Eggs. <br> Toast, butter. <br> Milk, cream. | Cream soup. | Cream soup. |
|  | Boiled potato. | Celery root. |
|  | Glazed carrots. | Mashed potato. |
|  | Cabbage. | Poached egg on toast. |
|  | Hearts of lettuce salad, small amount dressing. | Sliced tomato. Toast, butter. |
|  | Toast, butter. | Milk. |
|  | Milk. | Apricots. |
|  | Baked apple. |  |
| Fresh fruit. <br> Cream of wheat. <br> Eggs. <br> Toast, butter. <br> Milk, cream. | Cream soup. | Cream tomato soup. |
|  | Cottage cheese timbale. | Artichoke, butter sauce. |
|  | Baked potato. | Steamed rice. |
|  | Buttered summer squash. | Carrots. |
|  | Pear-apricot salad. Toast, butter. | Fruit salad with whipped cream. |
|  | Milk. | Toast, butter. |
|  | Floating island pudding. | Milk. |
|  |  | Peach ice cream. |
|  |  | Ladyfingers. |
| Sliced grapefruit. <br> Cream of wheat. <br> Eggs. <br> Toast, butter. <br> Milk, cream. | Cream soup. | Cream soup. |
|  | Corn timbale. | Rice. |
|  | Summer squash. | Turnips. |
|  | Baked potato. | Baked fresh tomato. |
|  | Carrot-raisin salad, boiled dressing. | Cottage cheese-pear salad, mayonnaise. |
|  | Toast, butter. | Toast, butter. |
|  | Milk. | Milk. |
|  | Canned fruit. | Fresh fruit. Ladyfingers. |

Low purin-Continued

| Breakfast | Dinner | Supper |  |
| :--- | :--- | :--- | :--- |
| Oranges. | Cream soup. |  |  |
| Cream of wheat. | Cottage cheese. | Cream soup. |  |
| Eggs. | Cream potato. | Turnips. |  |
| Toast, butter. | Baked squash. | Rice. |  |
| Milk, cream. | Buttered onions. | Egg salad with sliced |  |
|  | Fruit salad with whipped |  |  |
|  | cream. | tomato. |  |
|  | Toast, butter. | Toast, butter. |  |
|  | Milk. |  |  |
|  | Fresh strawberries. |  |  |

Grapefruit juice.
Cream of wheat.
Eggs.
Toast, butler.
Milk, cream.

Grapefruit.
Flaked wheat.

## Eggs.

Toast, butter.
Milk, cream.

Fresh fruit.
Flaked wheat.
Eggs.
Toast, butter.
Milk, cream.

Sliced peaches.
Flaked wheat.
Eggs.
Toast, butter. Milk, cream.

Milk.
Fresh banana.
Cream soup.
Mashed potato.
Carrots.
Buttered onion.
Mixed fruit salad, boiled dressing.
Toast, butter.
Milk.
Angel food cake.
Cream soup.
Cream potato.
Egg in ramikin.
Steamed celery.
Candlestick salad.
Toast, butter.
Milk.
Bread pudding, sauce.
Cream soup.
Mashed potatoes.
Eggplant.
Artichoke, butter sauce.
Cabbage salad, boiled dressing.
Toast, butter.
Milk.
Apple sauce.
Cream soup.
Celery root timbale.
Rice.
Italian squash.
Sliced tomato salad.
Toast, butter.
Milk.
Pears.
Pumpkin custard.

Squash.
Turnips.
Rice.
Egg salad with sliced tomato.
Toast, butter.
Fresh strawberries.

Cream soup.
Baked potato.
Mashed squash.
String beans.
Hearts of lettuce and egg,
French dressing.
Toast, butter.
Milk.
Sliced fruit.
Cream soup.
Cottage cheese.
Rice.
Beets.
Sliced tomatoes.
Toast, butter.
Milk.
Date custard.
Cream tomato soup.
Diced potato.
Celery root timbale.
Buttered rutabagas.
Fruit salad.
Toast, butter.
Milk.
Ice cream.

Cream soup.
Baked potato.
Cheese soufflé.
Carrots.
Lettuce salad, French dressing.
Toast, butter.
Milk.
Sliced fruit.

Low purin-Continued


## 191. Low salt anticonstipation.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Apple sauce. | Baked sea bass, salt-free | Baked potato with skin. |
| Bran cereal. | butter. | Baked fresh tomato. |
| Egg, 1. | Salt-free spinach. | Salt-free buttered onions. |
| Graham toast, salt-free | Boiled potato, small. | Peas. |
| butter. | Fruit salad. | Date-orange salad. |
| Milk, $1 / 2$ glass. | Graham toast, salt free | Graham toast, salt-free |
| Cream. | butter. |  |

Low salt anticonstipation-Continued

| Breakfast |
| :--- |
| Sliced grapefruit. |
| Bran cereal. |
| Egg, 1. |
| Graham toast, salt-free |
| butter. |
| Milk, $1 / 2$ glass. |
| Cream. |

Fresh oranges, 2.
Bran cereal.
Egg, 1.
Graham toast, salt-free butter.
Milk, $1 / 2$ glass.
Cream.

Oranges.
Bran cereal.
Egg, 1.
Graham toast, salt-free butter.
Milk, $1 / 2$ glass.
Cream.

Sliced banana.
Bran cereal.
Egg, 1.
Graham toast, salt-free butter.
Cream.

| Dinner | supper |
| :--- | :--- |
| Cream soup with agar. <br> Baked fresh tomato. | Cream soup with agar. <br> Fresh string beans. |

Salt-free buttered cauliflower.
Eggplant-corn timbale.
Cole slaw, salt-free dressing.
Graham toast, salt-free butter.
Canned fruit.

Loin lamb chop.
Baked eggplant.
Salt-free buttered onions.
Apple-grapefruit salad, lemon juice.
Graham toast, salt-free butter.
Peach sherbet.
Salt-free buttered summer squash.
Onions.
Small baked potato with skin.
Pear-apricot salad with whipped cream.
Graham toast, salt-free butter.
Sliced oranges.
Milk, $1 / 2$ glass.
Chicken, 40 grams.
Fresh asparagus tips.
Salt-free buttered corn.
Salad of fruits.
Graham toast, salt-free butter.
Milk, $1 / 2$ glass.
Orange ice.

Fresh string beans.
Squash.
Baked potato, small, with skin.
Hearts of lettuce, salt-free dressing.
Graham toast, salt-free butter.
Baked apple with whipped cream.

Cream soup with agar.
Salt-free buttered turnips.
Baked fresh tomato.
Small boiled potato.
Graham toast, salt-free butter.
Star salad.
Sliced fruit.
Diced chicken, 40 grams, in 30 grams table cream.
Fresh carrots.
Artichoke, salt-free butter sauce.
Fruit salad.
Graham toast, salt-free butter.
Peach ice cream.

Small boiled potato.
Baked squash.
Salt-free buttered fresh peas.
Hearts of lettuce salad, salt-free dressing.
Graham toast, salt-free butter.
Fruit cup (large order).
Fresh fruit.

Low salt anticonstipation-Continued

| Breakfast |
| :--- |
| Sliced orange. |
| Bran cereal. |
| Egg, 1. |
| Graham toast, salt-free |
| butter. |
| Cream. |
|  |
| Apple sauce, large order. |

Bran cereal.
Egg, 1.
Graham toast, salt-free butter.
Milk, $1 / 2$ glass.
Cream.

Apple sauce, large order. Bran cereal.
Egg, 1.
Graham toast, salt-free
butter.
Milk, $1 / 2$ glass.
Cream.

Oranges, 2.
Bran cereal.
Egg, 1.
Graham toast, salt-free butter.
Cream.

Sliced grapefruit.
Bran cereal.
Egg, 1.
Graham toast, salt-free
butter.
Cream.
$\left|\frac{\text { Dinner }}{\text { Small loin lamb }}\right|$

Small loin lamb chop.
Salt-free buttered cauliflower.
Fresh carrots.
Fruit salad.
Graham toast, salt-free butter.
Applesauce.
Baked halibut, 50 grams, with salt-free butter.
Salt-free buttered string beans.
Salt-free buttered rutabagas.
Pear-date salad.
Graham toast, salt-free butter.
Sliced apricots.
Small loin lamb chop.
Summer squash.
Fresh beets.
Star salad.
Graham toast, salt-free butter.
Canned fruit.

Broiled chicken, $1 / 4$.
Salt-free buttered cabbage.
Baked fresh tomato.
Fruit cocktail.
Graham toast, salt-free butter.
Special ice cream.

Cream soup with agar.
Summer squash.
Baked potato with skin.
Chard.
Pear-orange salad.
Graham toast, salt-free butter.
Canned fruit.

Baked potato with skin.
Mashed squash.
String beans.
Lettuce with lemon.
Graham toast, salt-free butter.
Sliced fruit.
Milk, $1 / 2$ glass.
Diced chicken, 40 grams, in 25 grams table cream.
Broccoli, salt-free butter.
Buttered squash.
Candlestick salad.
Graham toast, salt-free butter.
Sliced fruit.

Diced chicken, 45 grams, in 25 grams table cream.
Squash, salt-free butter.
Salt-free buttered broccoli.
Sliced tomato salad.
Graham toast, salt-free butter.
Ice cream.
Salt-free buttered onions.
Salt-free buttered string beans.
Baked potato, small, with skin.
Fruit salad.
Graham toast, salt-free butter.
Baked apple with whipped cream.

Chicken, 40 grams, in 25 grams table cream.
Fresh cauliflower.
Fresh asparagus tips.
Hearts of lettuce, salt-free mayonnaise.
Graham toast, salt-free butter.
Pineapple delight.

Low salt anticonstipation-Continued

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Baked apple. <br> Bran cereal. <br> Egg, 1. <br> Graham toast, salt-free butter. <br> Milk, $1 / 2$ glass. <br> Cream. | Cream soup with agar. <br> Banana squash. <br> Rutabagas. <br> Boiled potato, small. <br> Peach-date salad. <br> Graham toast, salt-free butter. <br> Pear au gratin. | Baked fresh tomato. <br> Salt-free cauliflower. <br> Boiled potato, small. <br> Artichoke salad, salt-free dressing. <br> Graham toast, salt-free butter. <br> Milk, $1 / 2$ glass. <br> Fruit cup. |
| Grapefruit, $1 / 2$. <br> Bran cereal. <br> Egg, 1. <br> Graham toast, salt-free butter. <br> Milk, $1 / 2$ glass. <br> Cream. | Loin lamb chop. <br> Fresh asparagus tips. <br> Baked squash. <br> Lettuce with lemon. <br> Graham toast, salt-free butter. <br> Fresh pineapple. | Beef patty, 40 grams. <br> Salt-free buttered cauliflower. <br> Fresh carrots. <br> Fruit salad with whipped cream. <br> Graham toast, salt-free butter. <br> Spanish cream. |
| Apricots. <br> Bran cereal. <br> Egg, 1. <br> Graham toast, salt-free butter. <br> Milk, $1 / 2$ glass. <br> Cream. | Baked halibut, 40 grams, with lemon. <br> Salt-free buttered cauliflower. <br> Fresh carrots. <br> Candlestick salad, saltfree mayonnaise. <br> Graham toast, butter. <br> Peaches. | Cream soup with agar. <br> Summer squash. <br> Baked potato with skin. <br> Salt-free buttered onions. <br> Lettuce, salt-free dressing. <br> Graham toast, salt-free butter. <br> Sliced fruit. |

## 192. High caloric, high vitamin, low residue.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Puréed fruit. | Strained soup, crackers. | Strained tomato bouillon. |
| Cream of wheat. | Boiled potato. | Creamed eggs. |
| Eggs. | Puréed zuccini. | Steamed rice. |
| Crisp bacon. | Carrot timbale. | Fresh asparagus tips. |
| Toast, butter. | Toast, white. | Toast, butter, 2 squares. |
| Milk, cream. | Butter, 2 squares. | Milk, cream. |
| 10:00 AM. Fruit juice. | Milk, cream. | Prune whip. |
| 10.00 AM. Fruit juice. | Gelatin with whipped cream. | Ladyfingers. |
| 9xi-tian faem | 3:00 PM. Eggnog. | 9:00 PM. Orange juice. |

High caloric, high vitamin, low residue-Continued

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Apple sauce. <br> Cream of wheat. <br> Eggs. <br> Crisp bacon. <br> Toast, white. <br> Butter, 2 squares. <br> Milk, $3 / 4$, and cream, $1 / 4$. | Cream soup, crackers | Cream soup. |
|  | Choice roast lamb, | Special scalloped sweet- |
|  | rained gr | breads. |
|  | Mashed potato. | Creamed potato. |
|  | Celery root timbale. | Puréed lima bean timbale. |
|  | Puréed buttered carrots. | Fresh asparagus tips. |
|  | Toast, white. | Toast, white. |
| 10:00 AM. Tomato juice, buttered crackers. | Butter, 2 squares. | Butter, 2 squares. |
|  | Milk, $3 / 4$, and cream, $1 / 4$. Orange ice. | Milk, $3 / 4$, and cream, $1 / 4$. Pineapple Bavarian cream. |
|  | 3:00 PM. Eggnog. | 9:00 PM. Orange juice. |
| Orange juice. <br> Banana. <br> Cream of wheat. <br> Eggs. <br> Bacon. <br> Toast, white. <br> Butter, 2 squares. <br> Milk, cream. <br> 10:00 AM. Orange juice. | Strained chicken soup, crackers. | Strained cream of tomato soup. |
|  | Roast chicken, no skin, | Tuna timbale. |
|  | strained gravy. | Puréed lima beans. |
|  | Mashed potato. | Mashed sweet potato. |
|  | Puréed buttered peas. | Puréed squash. |
|  | Savory custard. | Toast, white. |
|  | Toast, white. | Butter, 2 squares. |
|  | Butter, 2 squares. | Milk, $3 / 4$, and cream, $1 / 4$. |
|  | Milk, $3 / 4$, and cream, $1 / 4$. Vanilla ice cream. | Baked apple, peeled, with whipped cream. |
|  | 3:00 PM. Tomato juice. | Orange. |
|  |  | 9:00 PM. Eggnog. |
| Pineapple juice. <br> Puréed fruit. <br> Flaked wheat. <br> Eggs. <br> Bacon. <br> Toast, butter, 2 squares. <br> Milk, cream. | Strained soup, crackers. | Strained soup, crackers. |
|  | Scalloped sweetbreads. | Cottage cheese. |
|  | Baked potato, peeled. | Loin lamb chops. |
|  | Puréed beets. | Steamed rice. |
|  | Celery root timbale. | Puréed carrots. |
|  | Toast, white. | Toast, white. |
|  | Butter, 2 squares. | Butter, 2 squares. |
| 10:00 AM. Tomato or orange juice. | Milk, $3 / 4$, and cream, $1 / 4$. Butterscotch puddin | Milk, $3 / 4$, and cream, $1 / 4$. Puréed nectarines. |
|  | with whipped cream. <br> 3:00 PM. Eggnog, buttered crackers. | 9:00 PM. Tomato juice. |

High caloric, high vitamin, low residue-Continued

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Banana. | Strained English broth. | Strained corn chowder. |
| Flaked wheat. | Tenderloin steak. | White meat chicken, |
| Eggs. | Puréed Italian squash. | cream gravy. |
| Crisp bacon. | Puréed buttered beets. | Steamed rice. |
| Toast, white. | Toast, butter, 2 squares. | Puréed string beans. |
| Butter, 2 squares. Milk, cream. | Milk, $3 / 4$, and cream, $1 / 4$. Floating island pudding. | Artichoke salad, mayonnaise. |
| 10:00 AM. Orange juice. | 3:00 PM. Tomato juice, buttered crackers. | Toast, white. <br> Butter, 2 squares. <br> Milk, $3 / 4$, and cream, $1 / 4$. <br> Gelatin with whipped cream. |
|  |  | 9:00 PM. Orange juice. |
| Tomatojuice. <br> Grapefruit, 1/2. <br> Cream of wheat. <br> Eggs. <br> Crisp bacon. <br> Toast, white. <br> Butter, 2 squares. <br> Milk, cream. <br> 10:00 AM. Orange juice. | Strained cream soup. | Cream soup, crackers. |
|  | Broiled lamb chop. | Scrambled eggs with |
|  | Boiled potato. | brains. |
|  | Puréed squash soufflé. | Mashed potato (large |
|  | Asparagus tips. | order). |
|  | Toast, butter, 2 squares. | Puréed buttered carrots. |
|  | Milk, $3 / 4$, and cream, $1 / 4$. | Toast, butter, 2 square |
|  | Custard. | Milk, $3 / 4$, and cream, $1 / 4$. |
|  | 3:00 PM. Orange juice. | Ripe banana. Spanish cream. |
|  |  | 9:00 PM. Eggnog. |
| Tomato juice. <br> Puréed fruit. <br> Cream of wheat. <br> Eggs. <br> Crisp bacon. <br> Toast, white. <br> Butter, 2 squares. <br> Milk, cream. <br> 10:00 AM. Orange juice. | Cream soup, crackers. | Cream soup, crackers. |
|  | Creamed sweetbreads. | Loin lamb chop. |
|  | Baked potato, peeled. | Mashed potato. |
|  | Fresh asparagus tips. | Puréed buttered peas. |
|  | Toast, white. | Toast, white. |
|  | Butter, 2 squares. | Butter, 2 squares. |
|  | Milk, cream. | Milk, cream. |
|  | Tomato juice. | Chocolate sponge. |
|  | Custard. | Fruit juice. |
|  | 3:00 PM. Fruit juice. | 9:00 PM. Eggnog. |

High caloric, high vitamin, low residue-Continued

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. | Cream soup, crackers. | Strained soup, crackers. |
| Cream of wheat. | White meat chicken, | Tuna fish timbale. |
| Eggs. | cream strained gravy. | Steamed rice. |
| Crisp bacon. | Mashed potato. | Puréed string beans. |
| Toast, white. | Puréed buttered peas. | Toast, butter. |
| Butter, 2 squares. | Toast, white. | Milk, cream. |
| Milk, cream. Jelly. | Butter, 2 squares. Milk, cream. | Asparagus tips, mayonnaise. |
| 10:00 AM. Glass milk, $3 / 4$ with cream, $1 / 4$. | Cottage cheese and cream. Butterscotch ice cream. Ladyfingers. | Baked apple, peeled, with whipped cream. <br> 9:00 PM. Eggnog, crack- |
|  | 3:00 PM. Tomato juice, crackers. | ers. |
| Banana. <br> Puréed fruit. <br> Cream of wheat. <br> Orange juice. <br> Eggs. <br> Bacon. <br> Toast, white. <br> Butter, 2 squares. <br> Milk, cream. <br> 10:00 A M. Eggnog, buttered crackers. | Cream soup, cracker | Cream mushroom soup. |
|  | Fluffed meat ball. | Lamb chop. |
|  | Butter fresh asparagus | Mashed potato. |
|  | tips. | Puréed spinach. |
|  | Mashed potato. | Puréed carrots. |
|  | Celery root timbale. | Toast, white. |
|  | Toast, white. | Butter, 2 squares. |
|  | Butter, 2 squares. | Floating island pudding. |
|  | Prune whip. Milk. | 9:00 PM. Orange juice. |
|  | 3:00 PM. Tomato juice, buttered white toast. |  |

## 193. Dental high caloric, high vitamin.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Orange juice. | Chicken rice soup. | Cream tomato soup. |
| Fresh banana. | Ground chicken. | Ground roast beef. |
| Cooked cereal. | Mashed potato. | Puréed lima beans. |
| Eggs. | Purée of peas. | Puréed squash. |
| Graham toast, butter, 2 | Savory custard. | Graham bread, butter. |
| squares. | Graham bread, butter. | Milk, 3/4, and cream, 1/4. |
| Milk, cream. | Milk, 3/4, and cream, 1/4. | Baked apple with whipped |
| 10:00 AM. Orange or tomato juice. | Vanilla ice cream. 3:00 PM. Tomato juice. | 9:00 PM. Eggnog. |

Dental high caloric, high vitamin-Continued

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Pineapple juice. | Split pea soup. | Soup, crackers. |
| Puréed fruit. | Grated roast veal, gravy. | Ground frankfurters. |
| Flaked wheat. | Scalloped sweetbreads. | Puréed carrots. |
| Eggs. | Baked potato, butter. | Cottage cheese. |
| Graham bread, butter, 2 | Puréed beets. | Steamed rice. |
| squares. | Celery root. | Graham bread, butter, 2 |
| Milk, cream. | Graham bread, butter, 2 | squares. |
| 10:00 AM. Tomato or | squares. <br> Milk, $3 / 4$, cream, $1 / 4$. | Milk, $3 / 4$, and cream, $1 / 4$. Puréed nectarines. | orange juice.

Puréed prunes.
Cream of wheat.
Eggs.
Graham toast, butter, 2 squares.
Milk, cream.
10:00 AM. Orange juice.

Puréed fruit.
Cooked cereal.

## Eggs.

Graham toast, butter, 2 squares.
Milk, cream.
10:00 AM. Fruit juice.

Apple sauce.
Cream of wheat.
Graham bread, butter, 2 squares.
Milk, cream.
10:00 AM. Tomato or orange juice.

Sliced oranges.
3:00 PM. Eggnog.
Soup, crackers.
Lamb patty.
Steamed rice.
Scalloped tomato.
Eggplant timbale.
Graham bread.
Hot corn bread.
Butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Tapioca pudding, sauce.
2:00 PM. Eggnog.
Soup, crackers.
Scalloped brains.
Boiled potato.
Puréed zuccini.
Banana-orange salad.
Graham bread, butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Gelatin with whipped cream.
3:00 PM. Eggnog.
Clam chowder.
Baked sea bass.
Creamed potato.
Cheese soufflé.
Puréed spinach.
Graham bread, butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Bread pudding, chocolate sauce.
3:00 PM. Tomato juice.

Puréed nectarines.
9:00 PM. Tomato juice.

Bouillon.
Scrambled eggs and brains.
Scalloped potato.
Artichoke, hollandaise sauce.
Cottage cheese.
Graham bread, butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Orange delight.
9:00 PM. Tomato juice.
Tomato bouillon.
Ground roast veal, cream gravy.
Asparagus tips.
Graham bread, butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$. Prune whip.
Ladyfingers.
9:00 PM. Tomato juice.

Vegetable soup, crackers.
Ground roast beef.
Baked potato stuffed with ground liver.
Buttered pureed beans.
Graham bread, butter, 2 squares.
Milk, $3 / 4$, and cream, $1 / 4$.
Marshmallow pudding, sauce.
9:00 PM. Eggnog.

Dental high caloric, high vitamin-Continued

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Fresh banana. | Barley soup. | Mushroom soup. |
| Grapefruit juice. | Ground chicken, gravy. | Ground roast lamb, gravy |
| Cream of wheat. | Mashed potato. | Mashed potato. |
| Eggs. | Fresh asparagus tips. | Puréed spinach. |
| Graham toast, butter, 2 | Chopped boiled cabbage. | Puréed carrots. |
| squares. <br> Milk, cream. | Graham bread, butter, 2 squares. | Graham bread, butter, squares. |
| $\begin{gathered} \text { 10:00 AM. } \\ \text { crackers. } \end{gathered}$ | Milk. | Milk. |
|  | Prune whip with whipped cream. | Floating island pudding. 9:00 PM. Orange juice. |
|  | 3:00 PM. Tomato juice, buttered crackers. |  |
| Puréed fruit. | Strained soup. | Strained soup, crackers. |
| Orange juice. | Ground ham, gravy. | Ground roast veal, gravy. |
| Oatmeal. | Creamed potato. | Mashed potato, extra but- |
| Eggs. | Scalloped tomato. |  |
| Graham bread, butter, 2 squares. <br> Milk, cream. | Graham bread, butter, 2 squares. | Puréed buttered beets. Graham bread, butter, |
|  | Milk, $3 / 4$, and cream, $1 / 4$. | squares. |
| 10:00 AM. Eggnog, crackers. | Baked banana. | Milk, $3 / 4$, and cream, $1 / 4$. |
|  | 3:00 PM. Orange juice. | 9:00 PM. Tomato juice. |

## 194. Bland.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Orange juice. | Creamed soup. | Scraped beef balls. |
| Oatmeal. | Broiled chicken. | Scalloped potato. |
| Poached eggs. | Graham bread, butter. | Creamed peas. |
| Bacon. | Mashed potatoes. | Graham toast, butter. |
| Toast, white, butter. | Baked squash. | Stewed peaches. |
| Milk, sanka, or postum. | Asparagus tips. | Rice pudding. |
|  | Lettuce-pear salad (shred | Milk. |
|  | tender lettuce). |  |
|  | Ice cream. |  |
|  | Milk or Kaffee hag. |  |

Bland-Continued


Orange juice.
Baked omelet.
Bacon.
Graham toast, butter.
Milk or postum.

Apple sauce.
Puffed rice.
Poached eggs.
Bacon.
Toast, white, butter.
Milk or Sanka.
195. Tuberculosis.-a. Regular.

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Figs. <br> Cooked cereal. <br> Eggs. <br> Bacon. <br> Toast, butter. <br> Milk, cream. | Soup. | Tomato bouillon. |
|  | Small steak. | Grilled pork chops, cream |
|  | Boiled potato. | gravy. |
|  | Baked zuccini. | Steamed rice. |
|  | Banana salad, mayonnaise. | Fresh asparagus tips. Lettuce, fresh, French |
|  | Toast, butter. | dressing. |
|  | Milk. | Toast, butter. |
|  | Apple pie, cheese. | Milk. |
|  |  | Prune whip. Cookies. |
| Apple sauce. Cooked cereal. Eggs. Crisp bacon. Toast, butter, jam. Milk, cream. | Oxtail soup, breadsticks. | Soup. |
|  | Roast lamb, gravy. | Baked veal loaf, tomato |
|  | Mint jelly. | sauce. |
|  | Mashed potato. | Creamed potato. |
|  | Buttered peas. | Baked eggplant. |
|  | Celery root-pineapple salad, boiled dressing. | Cole slaw. <br> Toast, butter. |
|  | Toast, butter. | Milk. |
|  | Milk. | Pineapple Bavarian cream. |
|  | Orange ice. Cookies. |  |
| Banana. <br> Cream of wheat. <br> Eggs. <br> Crisp bacon. <br> Toast, butter. <br> Milk, cream. | Barley soup. | Mushroom soup. |
|  | Fluffed meat balls. | Short ribs of beef, gravy. |
|  | Boiled potato. | Mashed potato. |
|  | Fresh asparagus tips, butter. | Buttered carrots-peas. Wilted lettuce. |
|  | Mixed fruit salad, boiled dressing. | Toast, butter. <br> Milk, cream. |
|  | Toast, butter. Milk, cream. | Floating island pudding. |
|  | Prune whip with whipped cream. |  |
| Stewed rhubarb. <br> Cooked cereal. <br> Eggs. <br> Crisp bacon. <br> Toast, butter, jam. <br> Milk, cream. | Lima bean soup. | Vegetable soup. |
|  | Small broiled steak. | Grilled pork chops, cream |
|  | Boiled potato. | gravy. |
|  | Glazed potato (sweet). | Mashed potato. |
|  | Perfection salad, mayonnaise. | Fresh asparagus tips. Shredded lettuce. |
|  | Toast, butter. | Toast, butter. |
|  | Milk, eream. | Milk, cream. |
|  |  | Apricots. |
|  |  | Jelly roll. |

a. Regular-Continued

| Breakfast | Dinner | Supper |
| :---: | :---: | :---: |
| Apple sauce. | Clam chowder. | Vegetable soup. |
| Cream of wheat. Eggs. | Fried scallops, tartar sauce. | Broiled lamb chops, cream gravy. |
| Fried ham. | Creamed potato. | Baked potato. |
| Toast, butter, jam. | Scalloped corn. | Buttered string beans. |
| Milk, cream. | Cole slaw, cream dressing. | Combination vegetable salad, mayonnaise. |
|  | Bread, butter. | Toast, butter. |
|  | Milk, cream. | Milk, cream. |
|  | Bread pudding, chocolate | Marshmallow pudding. |

Apple sauce.
Flaked wheat.
Eggs.
Crisp bacon.
Toast, butter.
Milk, cream.

Banana.
Cooked cereal.
Eggs.
Bacon.
Toast, butter.
Milk, cream.

Tomato juice.
Cream of wheat.
Eggs.
Fried bacon.
Toast, butter.
Milk, cream.

Vegetable soup.
Creamed lamb on toast.
Mashed potato.
Buttered beets.
Banana salad, mayonnaise.
Toast, butter.
Milk.
Tapioca cream pudding.

Oxtail soup.
Small broiled steak.
Boiled potato.
Buttered diced carrots.
Combination vegetable salad, mayonnaise.
Toast, butter.
Milk, cream.
Butterscotch pie.
Fresh fruit.

Bean soup.
Broiled lamb chop.
Boiled potato.
Baked squash.
Vegetable salad, mayonnaise.
Toast, butter.
Milk.
Chocolate cream pie.

Vegetable soup.
Broiled lamb chops, cream gravy.
Baked potato.
Buttered string beans.
Combination vegetable salad, mayonnaise.
Toast, butter.
Milk, cream.
Marshmallow pudding.

Tomato bouillon.
Chicken croquettes, giblet gravy.
Steamed rice.
Broccoli with hollandaise sauce.
Asparagus salad, mayonnaise.
Toast, butter.
Milk, cream.
Ice cream.
Cookies.
Cream pea soup.
Fried oysters, tomato sauce.
Boiled potato.
Artichoke with hollandaise sauce.
Shredded lettuce, French dressing.
Toast, butter.
Milk, cream.
Sliced fruit.
Noodle soup.
Hot roast beef sandwich, brown gravy.
Mashed potato.
Buttered carrots.
Lettuce, French dressing.
Toast, butter.
Milk.
Banana and cream.

HOSPITAL DIETS
TME 8-500
195
a. Regular-Continued

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
| Pineapple juice. | Split pea soup. | Scotch barley broth. |
| Flaked wheat. | Roast veal, gravy. | Lamb ehop. <br> Eggs. |
| Baked potato. <br> Bacon. | Hashed brown potato. <br> Creamed cauliflower. <br> Toast, butter, jelly. <br> Mickled beet and egg <br> Milk, cream. | Gilted carrots. lettuce. <br> salad. |
|  | Toast, butter. | Toast, butter. |
|  | Milk, cream. |  |
|  | Milk, cream. | Sliced fruit. |

Oranges.
Cooked cereal.
Eggs.
Fried ham.
Toast, butter, jelly. Milk, cream.

Figs.
Oatmeal.
Eggs.
Crisp bacon.
Toast, butter.
Milk, cream.

Sliced grapefruit.
Oatmeal.
Eggs.
Bacon.
Toast, butter.
Milk, cream.

Split pea soup.
Roast veal, gravy.
Baked potato.
Creamed cauliflower.
Pickled beet and egg salad.
Toast, butter.
Milk, cream.
Butterscotch pie.
Fresh fruit.
Fruit cocktail.
Noodle soup.
Broiled chicken, cream gravy.
Baked sweetpotato.
Buttered peas.
Toast, butter.
Milk, cream.
Special ice cream.
Ladyfingers.
Soup.
Broiled lamb chop.
Creamed potato.
Baked squash, creamed dressing.
Toast, butter.
Milk, cream.
Fresh banana.

Potato chowder.
Roast beef, gravy.
Baked potato.
Swiss chard.
Carrot-raisin salad, boiled dressing.
Toast, butter.
Milk.
Tapioca cream pudding.

Scotch barley broth.
Lamb ehop.
Hashed brown potato.
Glazed carrots.
Wilted lettuce.
Toast, butter.
Milk, cream.
Sliced fruit.

Jackson soup, crackers.
Tuna fish timbale.
Creamed hominy.
Buttered string beans.
Sliced tomato-asparagus salad, mayonnaise.
Toast, butter.
Milk, cream.
Baked apple, whipped cream.

Mock turtle soup.
Creamed eggs.
Mashed potato.
Buttered beets.
Hearts of lettuce, French dressing.
Toast, butter.
Milk, cream.
Spanish cream.
Tomato bouillon.
Creamed chicken on toast.
Steamed rice.
Fresh asparagus tips.
Cottage cheese-pear salad, mayonnaise.
Toast, butter.
Milk, cream.
Fresh fruit.
b. Enteric.

| Breakfast | Dinner | Supper |
| :--- | :--- | :--- |
|  |  |  |
| Tomato juice. | Cream of mushroom soup, <br> crackers. | Strained lima bean soup, <br> crackers. |
| Oatmeal, strained. | Broiled steak. | Broiled filet of sole. <br> Bacon, 2 slices. |
| Baked potato. | Scalloped potatoes. |  |
| White toast, butter. | Puréed carrots. | Pured beets. |
| Milk, coffee. | White toast, butter. | White toast, butter. |
| 10:00 AM. Cocoa milk. | Milk. | Boiled custard. |
|  | Bananas in gelatin. | $9: 00$ PM. Junket. |
|  | $2: 00$ PM. Eggnog. |  |
| Orange juice. | Consomme, crackers. | Grapejuice cocktail, crack- |

Corn flakes.
Broiled ham.
White toast, butter.
Milk, coffee.
10:00 AM. Malted milk.

Sliced bananas.
Rice crispies.
Bacon.
Scrambled eggs.
White toast, butter.
Milk, coffee.
10:00 AM. Orange juice.

Puréed fruit (prunes).
Cream of wheat.
Eggs.
Bacon.
White toast, butter.
Milk, coffee.
10:00 AM. Grapefruit juice.
c. Laryngeal.

| Breakfast |
| :--- |
| Prune juice. |
| Strained thin oatmeal. |
| Coddled eggs. |
| Toast, salt-free. |
| Coffee. |
| 10:00 AM. Tomato juice. |

Orange juice.
Strained cream of wheat.
Skim milk.
Broiled sweetbreads.
Toast, salt-free.
Coffee.
10:00 AM. Malted milk.

Tomato juice.
Strained farina.
Crisp bacon.
Scrambled eggs.
Toast, salt-free.
Skim milk.
Coffee.
10:00 AM. Strained apricot juice.

Grapefruit juice.
Oatmeal with skim milk.
Crisp bacon.
Soft-boiled eggs.
Toast, salt-free.
Coffee.
10:00 AM. Prune juice.

Boiled whitefish, boned, cream sauce.
Baked potato.
Puréed peas.
Bread, salt-free.
Plain ice cream.
Tea or coffee.
2:00 PM. Grapefruit juice.

Liver loaf.
Scalloped potatoes.
Puréed string beans.
Bread, salt-free.
Floating island pudding.
Coffee or tea.
2:00 PM. Orange juice.

Sliced white meat of roast chicken.
Creamed potatoes.
Puréed spinach.
Bread, salt-free.
Banana custard.
Coffee or tea.
2:00 PM. Tomato juice.

Creamed chicken on toast.
Puréed beans.
Creamed cauliflower.
Bread, salt-free.
Cup custard.
Tea or coffee.
2:00 PM. Eggnog.

Cream of asparagus soup.
Poached eggs on toast.
Puréed carrots.
Boiled potato.
Bread, salt-free.
Lemon snow with boiled custard.
9:00 PM. Orange juice.

## Eggnog.

Scalloped tuna and potato casserole.
Puréed spinach timbale.
Bread, salt-free.
Whipped Gelatin.
Coffee or tea.
9:00 PM. Grape juice.
Cream of tomato soup.
Scraped beef.
Baked potato.
Purée summer squash.
Bread, salt-free.
Plain ice cream.
Coffee.
9:00 PM. Malted milk.

Cream of celery soup.
Roast beef.
Puréed beets.
Baked potato.
Bread, salt-free.
Banana-cottage cheese salad.
Apple sauce.
Coffee, cream, sugar.
9:00 PM. Orange juice.

Note.-If there is much difficulty in swallowing the above food, tube diets listed in paragraph 14 may be tried.




# Appendix I <br> TABLES OF FOOD COMPOSITION, WEIGHTS, AND MEASURES 

Table I.-Proximate composition of American food materials

| Food | Protein (percent) | Fat (percent) | Carbohydrate (percent) |
| :---: | :---: | :---: | :---: |
| Abalone, fresh or canned solids | 21. 7 | 0.5 | 2. 4 |
| Almonds, dried, unblanched | 18. 6 | 54.1 | 19. 6 |
| Almond meal, partially defatted | 39.5 | 18. 3 | 28. 9 |
| Anchovies_ | 19.2 | 10. 3 | . 3 |
| Anchovy paste | 20. 2 | 11. 6 | 4. 3 |
| Apples, fresh | . 3 | . 4 | 14. 9 |
| Apple juice, fresh | . 1 | . 0 | 12. 5 |
| Apple sauce, canned, unsweetened | . 2 | . 2 | 10. 9 |
| Apricots: |  |  |  |
| Fresh | 1. 0 | . 1 | 12. 9 |
| Canned, water pack | . 5 | . 1 | 8.1 |
| Dried_ | 5. 2 | . 4 | 66.9 |
| Artichokes, globe or French, fresh. | 2. 9 | . 4 | 11.9 |
| Asparagus: |  |  |  |
| Fresh_ | 2. 2 | . 2 | 3. 9 |
| Canned | 1. 7 | . 1 | 3. 0 |
| Avocados (Fuerte), fresh | 1. 7 | 26. 4 | 5. 1 |
| Bacon: |  |  |  |
| Raw, lean | 12. 2 | 53. | (1. 4) |
| Raw, medium | 9.1 | 65. | (1. 1) |
| Broiled | 25. | 55. | 1. |
| Bamboo shoots, fresh | 2. 5 | . 3 | 5. 1 |
| Bananas, fresh | 1. 2 | 2 | 23. 0 |
| Barley flour | 10. 2 | 1. 7 | 76. 9 |
| Barracuda, California, raw | 21. 2 | 3. 1 | 0. |
| Bass: |  |  |  |
| Atlantic black sea, raw_ | 19.2 | 1. 2 | 0. |
| California white sea, raw | 21. 4 | . 5 | 0. |
| Striped, raw_ | 18. 9 | 2. 7 | 0. |
| Beans: |  |  |  |
| Fresh | 8.1 | . 6 | 15. 8 |
| Fresh, shelled | 7. 5 | . 8 | 23.5 |
| Mung bean sprouts_ | 2. 9 | . 3 | 4. 0 |
| Snap beans, green or wax (co kidney) | 2. 4 | 2 | 7. 7 |
| Canned: |  |  |  |
| Baked with pork | 5. 7 | 2. 0 | 19.0 |
| Lima | 5. | . 5 | 13. |
| Green or wax | 1. 0 | . 1 | 3. 3 |
| Lima, green | 20. 7 | 1. 3 | 61. 6 |

Table I.-Proximate composition of American food materials-Continued

| Food | $\underset{\text { Protein }}{\text { (percent) }}$ | Fat (percent) | Carbohydrate (percent) |
| :---: | :---: | :---: | :---: |
| Beechnuts_ | 20. 0 | 57. 4 | 15. 0 |
| Beef: |  |  |  |
| Fresh, medium grade | 17. 5 | 22. | 0. |
| Wholesale cuts, medium grade | 18. 6 | 16. | 0. |
| Kidney fat (suet), medium | 1. 7 | 93. | 0. |
| Loin, medium | 16. 9 | 25. | 0. |
| Fresh: |  |  |  |
| Neck, medium | 18. 2 | 19. | 0. |
| Plate and brisket, mediun | 15. 8 | 30. | 0. |
| Rib, medium | 17. 4 | 23. | 0. |
| Round, medium | 19.3 | 13. | 0. |
| Rump, medium | 15. 5 | 31. | 0. |
| Shank, fore, medium | 20. 4 | 9. | 0. |
| Shank, hind, medium | 20.1 | 10. | 0. |
| Canned: |  |  |  |
| Corned beef hash | 12. 8 | 5. 5 | 8. 7 |
| Roast beef - | 25. | 13. 0 | 0. |
| Corned: |  |  |  |
| Medium | 15. 8 | 25. | 0. |
| Canned, medium | 25. 3 | 12. | 0. |
| Beer | . 6 | . 0 | (4. 4 ) |
| Beets: |  |  |  |
| Fresh_ | 1. 6 | 1 | 9. 6 |
| Canned | 1. 5 | . 1 | . 9 |
| Greens, fresh | 2. 0 | . 3 | 5. 6 |
| Sugar beet | 2. 2 | . 1 | 8. 9 |
| Beverages: |  |  |  |
| Carbonated, ginger ale |  |  | 9. |
| Others, including kola type |  |  | 12. |
| Biscuits, baking powder or soda | 7. 3 | 13. | 46. 2 |
| Blackberries: |  |  |  |
| Fresh | 1. 2 | 1. 1 | 11. 9 |
| Canned, water pack | . 9 | . 7 | 9. 4 |
| Juice, fresh | . 3 | . 0 | 7. 9 |
| Blueberries: |  |  |  |
| Fresh. | . 6 | . 6 | 15. 1 |
| Canned, water pack | . 4 | . 4 | 9. |
| Juice, fresh_ | . 1 | . 0 | 13. 8 |
| Bluefish or tailor, raw | 20. 5 | 4. 0 | 0. |
| Bouillon cubes | (6.) | 2. 5 | (0.) |
| Brains, fresh beef | 10. 5 | 8. 8 | 1. 4 |
| Brazil nuts_ | 14. 4 | 65. 9 | 11. 0 |
| Bread: |  |  |  |
| Biscuits. | 7. 3 | 13. | 46. 2 |
| Boston brown | 4. 9 | 2. 5 | 41. 2 |
| French | 8. 4 | 1. 0 | 55. 2 |

## APPENDIX I

Table I.-Proximate composition of American food materials-Continued

| 1ay Food | Protein (percent) | Fat (percent) | Carbohydrate (percent) |
| :---: | :---: | :---: | :---: |
| Bread-Continued. |  |  |  |
| Gluten | 25.1 | 3. 8 | 30.2 |
| Graham (made with | 10. | 4. | 47. |
| Raisin | 9. | 3. | 53.0 |
| Rolls | 8. 2 | 6. 1 | 54.1 |
| Rye: |  |  |  |
| American | 8. 9 | 2. 0 | 49. 7 |
| Black or pumper | 6. 7 | 1. 2 | 49. 7 |
| Toast: |  |  |  |
| Melba | 12. 6 | 3. 0 | 77. 5 |
| Plain | 10. 1 | 2. 4 | 62.0 |
| Vienna | 8. 4 | 1. 0 | 55. 3 |
| White, commercial | 8. 5 | 2. 0 | 52.3 |
| Zwieback | 10. 9 | 8.6 | 74. 3 |
| Broccoli, fresh | 3. 3 | . 2 | 5. 5 |
| Brussels sprouts, fresh | 4. 4 | . 5 | 8. 9 |
| Buckwheat flour: |  |  |  |
| Dark and very dark | 12. 4 | 2. 4 | 71. 6 |
| Light and very light | 6. 3 | 1. 1 | 79. 7 |
| Pancake | 11. 3 | 2. 2 | 70.0 |
| Butter | . 6 | 81.0 | . 4 |
| Buttermilk: |  |  |  |
| Genuine | 3. 5 | . 5 | 4. 6 |
| Artificially cultured | 3. 5 | . 2 | 5. 0 |
| Butternuts | 23. 7 | 61. 2 | 8. 4 |
| Cabbage: |  |  |  |
| Fresh | 1. 4 | . 2 | 5. 3 |
| Chinese, fresh | 1. 4 | 0.1 | 2. 4 |
| Carrots: |  |  |  |
| Fresh | 1. 2 | - 3 | 9. 3 |
| Canned | 1. 0 | . 3 | 7. 6 |
| Cashew nuts | 19. 6 | 47. 2 | 26. 4 |
| Catchup, tomato | 2. 0 | . 4 | 24. 5 |
| Cauliflower: |  |  |  |
| Fresh. | 2. 4 | 0.2 | 4. 9 |
| Canned. | 1. | . 2 | 3. 0 |
| Caviar, sturgeon: |  |  |  |
| Granular | 26. 9 | 15. 0 | (0.) |
| Pressed_ | 34.4 | 16. 7 | (0.) |
| Celery: |  |  |  |
| Fresh. | 1. 3 | . 2 | 3. 7 |
| Canned, sieved | . 9 | . 2 | 4.1 |
| Chard, fresh: |  |  |  |
| Leaves only | 2. 6 | . 4 | 4. 8 |
| Leaves and stalks_ | 1. 4 | . 2 | 4. 4 |

Table I.-Proximate composition of American food materials-Continued

| Food | $\begin{aligned} & \text { Protein } \\ & \text { (percent) } \end{aligned}$ | Fat (percent) | Carbohydrate (percent) |
| :---: | :---: | :---: | :---: |
| Cheese: |  |  |  |
| Camembert | 19. 7 | 25. 2 | (4a) 0.0 |
| Cheddar, American | 23. 9 | 32. 3 | 1.7 |
| Cheddar, processed | 22. 3 | 30.2 | 1. 1.7 |
| Cottage (from skim milk) | 19.2 | . 8 | 4. 3 |
| Cream (Neufchatel type) | 7. 1 | 36. 9 | 1. 7 |
| Edam. | 27. 0 | 20.1 | 4. 0 |
| Liederkranz | 15. 8 | 25. 6 | 1. 1 |
| Limburger | 23. 5 | 32. 4 | . 7 |
| Limburger, processe | 21. 2 | 26. 4 | . 7 |
| Roquefort | 21. 7 | 33.2 | 1. 4 |
| Swiss_ | 28. 6 | 31.3 | 1. 9 |
| Swiss, processed | 23. 8 | 26. 1 | 1. 6 |
| Cherries: |  |  |  |
| Fresh: |  |  |  |
| Sour, sweet, and hybrid | 1. 1 | . 5 | 14. 8 |
| Sour | 1. 3 | . 5 | 13. 3 |
| Sweet | 1. 1 | . 5 | 17. 8 |
| Canned, water pack | . 6 | . 2 | 9.8 |
| Chestnuts: |  |  |  |
| Fresh_ | 2. 8 | 1. 5 | 41.5 |
| Dried | 6. 7 | 4. 1 | 78.6 |
| Chestnut flour | 6. 1 | 3. 7 | 75. 9 |
| Chicken, fresh: |  |  |  |
| Broilers | 20. 2 | 7.2 | 0. |
| Broilers, flesh only | 20.6 | 4. 4 | 0. |
| Fryers | 20.0 | 11. 0 | 0. |
| Fryers, flesh only | 20.6 | 4. 8 | 0. |
| Roasters. | 20. 2 | 12. 6 | 0. |
| Roasters, flesh only | 21. 1 | 4. 5 | 0. |
| Hens and cocks | 18.0 | 25. 0 | 0. |
| Hens and cocks, flesh only | 21. 3 | 7. 1 | 0. |
| Capons. | 21. 4 | 21. 2 | 0. |
| All classes, light meat. | 23. 3 | 3. 2 | 0. |
| All classes, dark meat. | 21. 0 | 4. 7 | 0. |
| Chickpeas, dry | 20.8 | 4. 7 | 60.9 |
| Chili sauce | 2. 8 | . 4 | 23. 7 |
| Chocolate, bitter or unsweetened | (5. 5) | 52.9 | (18.) |
| Cider, sweet_ | . 1 | . 0 | 12. 5 |
| Clams: |  |  |  |
| Fresh: |  |  |  |
| Long, meat only - | 13. 6 | 1. 7 | 2. 1 |
| Round, meat only | 11. 1 | . 9 | 5. 9 |
| Canned, long and round. | 15. 8 | 2. 5 | 2. 1 |
| Cocoa, plain, all | (9.) | 18. 8 | (31.) |

## APPENDIX I

Table I.-Proximate composition of American food materials-Continued

| Food | $\underset{\text { Protein }}{\text { (percent) }}$ | Fat (percent) | Carbohydrate (percent) |
| :---: | :---: | :---: | :---: |
| Coconut: Fresh: |  |  |  |
|  |  |  |  |
| Meat and milk | 2. 5 | 25.0 | 11. 4 |
| Meat (with brown skin) | 3. 4 | 34. 7 | 14.0 |
| Milk only | . 3 | 4 | 5. 0 |
| Dried, shredded | 3. 6 | 39. 1 | 53. 2 |
| Cod, raw | 16. 5 | . 4 | 0. |
| Collards, fresh | 3. 9 | 6 | 7. 2 |
| Corn, sweet, fresh, all | 3. 7 | 1. 2 | 20.5 |
| Corn flakes_ | 7. 9 | . 7 | 80.3 |
| Corn flour | 7. 9 | 2. 2 | 77. 0 |
| Corn meal, whole ground, white or yellow | 9. 1 | 3. 7 | 73. 9 |
| Cowpeas: <br> Fresh, shelled (young pods) as green vegetable (see Asparagus; Beans) $\qquad$ <br> Dry |  |  |  |
|  | 9. 4 | . 6 | 22. 7 |
|  | 22. 9 | 1.4 | 61.6 |
| Crab apples, fresh | . 4 | . 3 | 17.8 |
| Crabs, Atlantic and Pacific hard shell, fresh or cooked $\qquad$ | 16. 1 | 1. 6 | 6 |
| Crackers: |  |  |  |
| Butter | 9. 8 | 12. 4 | 70. 8 |
| Saltines | 9.2 | 11. 8 | 71.1 |
| Soda, plain | 9.6 | 9.6 | 72. 7 |
| Cranberries, fresh | . 4 | 7 | 11. 3 |
| Cream: |  |  |  |
| Light, table, or coffee | 2. 9 | 20. | 4. 0 |
| Heavy or whipping | 2. 3 | 35. | 3. 2 |
| Cress, water, fresh | 1. 7 | . 3 | 3. 3 |
| Cucumber, fresh. | . 7 | . 1 | 2. 7 |
| Currants, red, white, and black, fresh | 1. 6 | 0.4 | 12. 7 |
| Dandelion greens, fresh | 2. 7 | . 7 | 8. 8 |
| Dates, fresh and dried | 2. 2 | 6 | 75. 4 |
| Deviled ham, canned. | 19. | 43. | 0. |
| Duck: |  |  |  |
| Domesticated, fresh, flesh only | 21. 4 | 8.2 | 0. |
| Wild, fresh, flesh only | 21.3 | 5. 2 | 0. |
| Eggplant, fresh | 1. 1 | . 2 | 5. 5 |
| Eggs: |  |  |  |
| Fresh, stored, or frozen, hen | 12. 8 | 11.5 | . 7 |
| White only .-. | 10. 8 | . 0 | . 8 |
| Yolk only | 16. 3 | 31. 9 | 7 |
| Endive, fresh | 1. 6 | . 2 | 4. 0 |
| Farina | 11. 5 | 1. 0 | 76. 1 |
| Fats, cooking. |  | 100. |  |

## APPENDIX I

Table I.-Proximate composition of American food materials-Continued

| Food | $\underset{\text { (percent) }}{\underset{\text { Protein }}{ }}$ | Fat (percent) | Carbohydrate (percent) |
| :---: | :---: | :---: | :---: |
| Figs: |  |  |  |
| Fresh | 1. 4 | 0. 4 | 19. 6 |
| Dried | 4. 0 | 1. 2 | 68.4 |
| Canned, water pack | 5 | . 1 | 13. 5 |
| Finnan haddie or haddock, smoked | 23. 2 | . 4 | 0. |
| Flounders: |  |  |  |
| Southern, raw | 21. 3 | . 2 | 0. |
| Summer and winter, raw | 14.9 | . 5 | 0. |
| Flour, pancake, prepared, self-rising | 10. 3 | 1.5 | 72. 3 |
| Frog's legs, fresh | 16. 4 | . 3 | 0. |
| Frozen custard | 4. | 9. | 18. |
| Game animals, fresh, lean meat | 20. | 6. | 0. |
| Garlic, fresh. | 4. 4 | 2 | 20. 0 |
| Gelatin: |  |  |  |
| Plain, dry | 85. 6 | . 1 | 0. |
| Dessert powders | 9. 4 | . 0 | 88.7 |
| Ginger, fresh | 1. 8 | 1. 5 | 10.8 |
| Ginger ale.- |  |  | 9. |
| Goose, domesticated, fresh, flesh only | 22. 3 | 7. 1 | 0. |
| Gooseberries: |  |  |  |
| Fresh_ | . 8 | . 4 | 10. 1 |
| Canned, water pack | . 5 | . 2 | 6. |
| Grapefruit: |  |  |  |
| Fresh | . 5 | . 2 | 10. 1 |
| Canned, water pack | . 5 | . 2 | 8. |
| Grapefruit juice: |  |  |  |
| Fresh: |  |  |  |
| Florida grown |  |  | (8. 1) |
| California grown_ | . 4 | . 1 | 9.8 |
| Canned, unsweetened | . 4 | . 1 | 11.1 |
| Grapes: |  |  |  |
| Fresh. | 1. 4 | 1. 4 | 14. 9 |
| Canned, water pack | . 6 | . 6 | 13. |
| Grape juice: |  |  |  |
| Fresh, all | . 4 | . 0 | 18. 5 |
| Bottled, commercial, any type | . 4 | . 0 | 18. 2 |
| Guavas, fresh, common | 1. 0 | . 6 | 17. 1 |
| Guinea hen, fresh | 23. 1 | 6. 4 | 0. |
| Haddock: |  |  |  |
| Raw--- | 17. 2 |  |  |
| Smoked | 23. 2 | . 4 | 0. |
| Halibut: |  |  |  |
| Raw- | 18. 6 | 5. 2 | 0. |
| California, raw | 19.8 | 1. 4 | 0. |
| Hazelnuts (including filberts) | 12. 7 | 60.9 | 17. 7 |

Table I.-Proximate composition of American food materials-Continued

| Food | Protein (percent) | Fat (percent) | Carbohydrate (percent) |
| :---: | :---: | :---: | :---: |
| Herring: |  |  |  |
| Atlantic, raw | 19.0 | 6. 7 | 0. |
| Lake, or cisco, raw | 18. 5 | 6. 8 | 0. |
| Pacific, raw | 16. 6 | 2. 6 | 0. |
| Canned, plain | 20. 7 | 12. 4 | 0. |
| Smoked | 19. 6 | 12. 4 | 0. |
| Kippered | 22. 2 | 12. 9 | 0. |
| Hickory nuts. | 13. 9 | 67.4 | 13. 2 |
| Hominy: |  |  |  |
| Dry | 8.5 | . 8 | 78.9 |
| Cooked or canned | 1. 8 | . 2 | 14.9 |
| Honey | . 3 | 0. | 79.5 |
| Horseradish: |  |  |  |
| Fresh. | 3. 2 | . 2 | 21. 4 |
| Prepared | 1. 4 | . 1 | 12. |
| Ice cream and frozen desserts: |  |  |  |
| Plain_--------------- | 3. 9 | 13. | 20.3 |
| Ices | . 1 | . 1 | 27. |
| Ice cream: |  |  |  |
| Frozen custard. | 4. | 9. | 18. |
| Sherbet. | 2. | 3. | 25. |
| Jerusalem artichokes, fresh | 2. 2 | . 1 | 17. 0 |
| $\begin{array}{ll}\text { Junket powder, chocolate flavor------------ } & 3 .\end{array}$ |  |  |  |
| Kale, fresh_ | 3. 9 | . 6 | 7.2 |
| Kohlrabi, fresh | 2. 1 | . 1 | 6. 7 |
| Kumquats, fresh | . 9 | . 1 | 17. 1 |
| Lake trout, raw $\qquad$ 17. 8 <br> 10. 3 <br> 0. |  |  |  |
| Lamb fresh: |  |  |  |
| Carcass or side, medium | 15. 7 | 27. 7 | 0. |
|  |  |  |  |
| Leg, medium | 18.0 | 17. 5 | 0. |
| Loin, medium |  |  |  |
| Neck, medium. |  |  |  |
| Rib cut ( 9 ribs), medium | 14. 9 | 32, 4 | 0. |
| Shoulder (3 ribs), medium. | 15. 6 | 25. 3 | 0. |
| Lard_------- |  | 100. |  |
| Leeks, fresh_ | 2. 5 | . 4 | 7. 9 |
| Lemons, fresh_ | . 9 | . 6 | 8. 7 |
| Lemon juice, fresh_ |  |  | (8.3) |
| Lentils, dry: |  |  |  |
| Whole | 24. 7 | 1.0 | 59.9 |
| Split_ | 24. 0 | 1. 2 | 60.4 |
| Lettuce, fresh | 1. 2 | . 2 | 2. 9 |
| Lima bean flour. | 21. 5 | 1. 4 | 63.0 |

Table I.-Proximate composition of American food materials-Continued

| cioder | Food |  | Protein (percent) | Fat (percent) | Carbohydrate (percent) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Limes: |  |  |  |  |  |
| Fresh |  |  | 0.8 | 0.1 | 12. 3 |
| Sweet, | esh |  | . 8 | . 1 | 8. 9 |
| Litchi fruits, | fried |  | 3. 6 | . 5 | 70. 0 |
| Liver, fresh: |  |  |  |  |  |
| Beef |  |  | 19.7 | 3. 2 | 6. 0 |
| Calf |  |  | 19.0 | 4. 9 | 4. 0 |
| Chicke |  |  | 22.1 | 4. 0 | 2. 6 |
| Goose |  |  | 16. 5 | 10. 0 | 5. 4 |
| Hog. |  |  | 19.7 | 4. 8 | 1. 7 |
| Sheep | r lamb |  | 21. 0 | 3. 9 | 2. 9 |
| Turkey |  |  | 22.0 | 4. 8 | 7 |
| Lobster: |  |  |  |  |  |
| Fresh or | boiled |  | 16. 2 | 1. 9 | . 5 |
| Canned |  |  | 18. 4 | 1. 3 | 4 |
| Lobster or | hrimp paste |  | 20. 8 | 9. 4 | 1. 5 |
| Logan black | berries or log | anberrie | 1. 0 | . 6 | 15. 0 |
| Logan black | berries, canne | d, wate | 1. 0 | . 6 | 10.7 |
| Logan black | berry juice, f | esh or | . 6 | . 0 | 10. 1 |
| Macaroni: |  |  |  |  |  |
| Dry, un | cooked |  | 13. | 1. 4 | 73.9 |
| Cooked | plain |  | 3. 7 | . 4 | 19. 4 |
| Mackerel: |  |  |  |  |  |
| Commo | n Atlantic, |  | 18. 7 | 12. | 0. |
| Pacific | Coast, raw |  | 22. 2 | 7. 6 | 0. |
| Canned |  |  | 22.6 | 7. 9 | 0. |
| Salted. |  |  | 18.5 | 25. 1 | 0. |
| Smoke |  |  | 23.8 | 13. 0 | 0. |
| Mangos, fre |  |  | 7 | 2 | 17. 2 |
| Margarine_ |  |  | . 6 | 81. | . 4 |
| Mayonnaise |  |  | 1. 5 | 78. | 3. 0 |
| Meat and poultry, cooked, medium done----Milk: |  |  |  |  |  |
|  |  |  |  |  |  |
| Cow, fresh: |  |  |  |  |  |
|  | ole |  | 3. 5 | 3. 9 | 4. 9 |
| Sk |  |  | 3. 5 | 2 | 5. 0 |
| Canned: |  |  |  |  |  |
|  | aporated, uns | weetene | 7. 0 | 7. 9 | 9. 9 |
|  | ndensed (swe | tened) | 8.1 | 8. 4 | 54.8 |
| Dry: |  |  |  |  |  |
| Sk |  |  | 35. 6 | 1. 0 | 52. 0 |
|  | hole |  | 25. 8 | 26. 7 | 38.0 |
| Malted | plain_ |  | 14.6 | 8. 5 | 70. 7 |
| Molasses, cane, medium |  |  |  |  | (60.) |
| Mulberries, black, white and red, freshMullet, common, |  |  | 1. 2 | . 6 | 14. 6 |
|  |  |  | 19.3 | 4.4 | 0. |

## APPENDIX I

Table I.-Proximate composition of American food materials-Continued


## APPENDIX I

Table I.-Proximate composition of American food materials-Continued

| Food | Protein (percent) | Fat (percent) | Carbohydrate (percent) |
| :---: | :---: | :---: | :---: |
| Pears: |  |  |  |
| Fresh | 0. 7 | 0. 4 | 15. 8 |
| Canned, water pack | . 3 | . 1 | 8. 2 |
| Peas: |  |  |  |
| Fresh, shelled | 6. 7 | . 4 | 17. 7 |
| Canned. | 3. 3 | . 2 | 10. 1 |
| Dry: |  |  |  |
| Whole | 23.8 | 1. 4 | 60. 2 |
| Split | 24.5 | 1. 0 | 61.7 |
| Pecans | 9.4 | 73.0 | 13.0 |
| Peppers or redpeppers, $s$ varieties, fresh | 1. 4 | . 4 | 6. 2 |
| Perch: |  |  |  |
| White, raw- | 19. 3 | 4. 0 | 0. |
| Yellow, raw | 18. 7 | . 8 | 0. |
| Persimmons: |  |  |  |
| Fresh_ | . 8 | . 4 | 20. 0 |
| Native | . 7 | . 3 | 28.1 |
| Pheasant, fresh | 24.3 | 5. 2 | 0. |
| Pickerel, common eastern, | 18. 7 | . 5 | 0. |
| Pickles, Cucumber: |  |  |  |
| Sweet | . 4 | . 1 | 20. 7 |
| Sour and dill | . 5 | . 2 | 1. 9 |
| Pig's feet, pickled | 16. 7 | 14.8 | (0.) |
| Pike, common, raw | 18. 7 | . 6 | 0. |
| Pimientos, canned. | 1. 0 | . 5 | 6. 2 |
| Pineapple: |  |  |  |
| Fresh_ | . 4 | . 2 | 13.7 |
| Canned, water pack | . 3 | . 1 | 12.9 |
| Juice: |  |  |  |
| Fresh |  |  | (12.8) |
| Canned | . 3 | . 1 | 13.0 |
| Pistachio nut | 19.6 | 53. 2 | 18.6 |
| Plums: |  |  |  |
| Fresh | . 7 | . 2 | 12. 9 |
| Canned, water pack_ | . 4 | . 1 | 7.2 |
| Pomegranate, fresh_ | . 6 | . 2 | 17. 7 |
| Pork: |  |  |  |
| Fresh, raw, medium_ | 11. 9 | 45. | 0. |
| Cured: |  |  |  |
| Raw, ham, smok | 16. 9 | 35. | (.3) |
| Shoulder smoked | 14.6 | 44. | (.3) |
| Potatoes, fresh | 2. 0 | . 1 | 19.1 |
| Potato chips | 6. 7 | 37. 1 | 49.1 |
| Potato flour. | 8. 5 | . 5 | 80.0 |
| Pretzels_--------------- | 8. 8 | 3.2 | 74.5 |

## APPENDIX I

Table I.-Proximate composition of American food materials-Continued

| Food | Protein (percent | Fat (percent) | Carbohydrate (percent) |
| :---: | :---: | :---: | :---: |
| Prunes: |  |  |  |
| Fresh | 0.9 | 0. 2 | 21.8 |
| Canned. (See plums |  |  |  |
| Dried | 2. 3 | . 6 | 71.0 |
| Juice, canned | . 4 | 0. | 19.3 |
| Pumpernickel | 6. 7 | 1. 2 | 49. 7 |
| Pumpkin: |  |  |  |
| Fresh, mature | 1. 2 | . 2 | 7. 3 |
| Canned | 1. 0 | . 3 | 7. 9 |
| Quinces, fresh | . 3 | . 1 | 13. 9 |
| Rabbit, domesticated, fresh, flesh only (rabbit purchased without giblets) $\qquad$ 20. 8 <br> 10. 2 |  |  |  |
| Radishes, fresh | 1. 2 | . 1 | 4. 2 |
| Raisins_ | 2. 3 | . 5 | 71.2 |
| Raspberries: <br> Fresh: |  |  |  |
| Black | 1. 5 | 1. 6 | 15. 6 |
| Red | 1. 1 | . 6 | 14. 4 |
| Canned, water pack | . 9 | . 9 | 10. 0 |
| Juice, fresh: |  |  |  |
| Black | . 2 | . 0 | 10. 7 |
| Red. | . 4 | . 0 | 8.3 |
| Red snapper, raw | 19.8 | . 9 | 0. |
| Rhubarb: |  |  |  |
| Fresh | . 5 | . 1 | 3. 8 |
| Canned, water pack | . 4 | . 4 | 3. 0 |
| Rice: |  |  |  |
| White: |  |  |  |
| Uncooked | 7. 6 | . 3 | 79. 4 |
| Boiled | 2. 2 | . 1 | 23. 2 |
| Puffed | 6. 7 | . 3 | 83.3 |
| Flakes | 7. 7 | . 5 | 82.0 |
| Rice flour | 7. 4 | . 5 | 79.5 |
| Rock cod, Pacific, raw | 18. 3 | 1. 0 | 0. |
| Rutabagas, fresh. | 1. 1 | . 1 | 8. 9 |
| Rye flour, medium. | 11. 0 | 1. 2 | 75. 8 |
| Salmon: |  |  |  |
| Atlantic, raw | 22. 5 | 13. 4 | 0. |
| Pacific, raw | 17.4 | 16. 5 | 0. |
| Canned, all kinds | 20. 6 | 9. 6 | 0. |
| Sardines, canned, in oil | 25. 7 | 11. 0 | 1. 2 |
| Sauerkraut: |  |  |  |
| Bulk_ | 1. 3 | 2 | 4. 9 |
| Canned | 1. 1 | . 2 | 3. 4 |
| Scallops, fresh | 14. 8 | . 1 | 3. 4 |
| Shad or American shad, r | 18. 7 | 9. 8 | 0. |

Table I.-Proximate composition of American food materials-Continued


## APPENDIX I

Table I.-Proximate composition of American food materials-Continued

| Food | Protein (percent) | Fat (percent) | Carbohydrate (percent) |
| :---: | :---: | :---: | :---: |
| Turnip tops (also rutabaga tops), fresh . | 2. 9 | 0. 4 | 5. 4 |
| Veal, fresh, carcass or sides, excluding kidney and kidney fat, medium | 19. 1 | 12. | 0. |
| Walnuts, Persian or English | 15. 0 | 64.4 | 15. 6 |
| Watermelons, fresh | . 5 | . 2 | 6. 9 |
| Wheat flour: |  |  |  |
| Graham, all types | 13. | 2. | 72. 4 |
| Straight, all types_ | 11. 2 | 1. 1 | 75. 2 |
| Wheat breakfast food: |  |  |  |
| Bran flakes | 13. 0 | 1. 9 | 74. 9 |
| Farina | 11. 5 | 1. 0 | 76. 1 |
| Puffed wheat | 13. 4 | 1. 7 | 75. 6 |
| Shredded wheat | 10. 4 | 1. 4 | 78. 7 |
| Wheat flakes | 10. 4 | 1. 3 | 79. 9 |
| Whey | 1. 0 | 3 | 5. 1 |
| Whitefish, Great Lakes, raw | 22. 9 | 6. 5 | 0. |
| Wild rice, parched or sun-dried | 13. 8 | . 8 | 75. 5 |
| Yams, winged, fresh | 2. 1 | . 2 | 24. 1 |
| Yeast: |  |  |  |
| Compressed | 13. 3 | . 4 | 13. 0 |
| Dried (brewers' and bakers') | 46. 1 | 1. 6 | 37. 4 |
| Zwieback | 10. 9 | 8. 6 | 74. 3 |

Table II.-Food measures

| Food | Common measure | Household equivalent |
| :---: | :---: | :---: |
| Bread_ | 1 loaf (16 ounces) | 5 cups soft crumbs. |
| Butter | 1 pound | 2 cups. |
| Cheese: |  |  |
| American | 1/2 pound | $21 / 2$ cups, grated. |
| Cream. | 3 ounces | $62 / 3$ tablespoons. |
| Chocolate: |  |  |
| Cake | 1 ounce | 1 square. |
| Ground | 1 ounce | 4 tablespoonfuls. |
| Corn meal | 1 pound | 3 cups. |
| Eggs | 1 medium size | 2 ounces. |
| Whites | 7 to 10. | 1 cup. |
| Yolks | 11 to 14 | 1 cup. |
| Flour: |  |  |
| Cake, sifted | 1 pound | $41 / 2$ cups. |
| Bread | 1 pound | 4 cups. |
| Graham | 1 pound | $31 / 2$ cups. |
| Rye | 1 pound | 5 cups. |


| Food | Common measure | Household equivalent |
| :---: | :---: | :---: |
| Lemon: |  |  |
| Juice | 1 medium size | 3 tablespoonfuls. |
| Rind, grated | 1 medium size | 3 teaspoonfuls. |
| Orange: |  |  |
| Juice_ | 1 medium size | 1/2 cup. |
| Rind, grated | 1 medium size | 2 tablespoonfuls. |
|  | \{1 pound | 2 cups. |
|  | 11/2 cup, raw | 2 cups, cooked. |
| Suet | $21 / 2$ ounces | 1 cup, chopped. |
| Sugar: |  |  |
| Brown | 1 pound | 2 cups, firmly packed. |
| Confectioners | 1 pound | $31 / 2$ cups. |
| Granulated | 1 pound | 21/4 cups. |
| Salt | 1 ounce | 2 tablespoonfuls. |
| Pepper | 1 ounce | 3 tablespoonfuls. |
| Cornstarch | 1 ounce | 3 tablespoonfuls. |
| Cinnamon | 1 ounce | 4 tablespoonfuls. |
| Cloves | 1 ounce | 4 tablespoonfuls. |
| Mace | 1 ounce | 4 tablespoonfuls. |
| Curry powder | 1 ounce | 4 tablespoonfuls. |
| Mustard | 1 ounce | 4 tablespoonfuls. |
| Thyme | 1 ounc | 4 tablespoonfuls. |
| Marshmallows | 1/4 pound | 16 marshmallows. |
| Almonds (in shell) | 1 pound | 2 cups, chopped. |
| Peanuts (in shell) | 1 pound. | 2 cups, chopped. |
| Pecans (in shell) | 1 pound | 2 cups, chopped. |
| Walnuts (in shell) | 4 ounces. | 1 cup, chopped. |

Table III.-Weight and capacity measures and their equivalents

| Measure | Equivalent | Measure | Equivalent |
| :---: | :---: | :---: | :---: |
| 4 ounces_ | 1/4 pound. | 1 gram carbohy- | 4 calories. |
| 16 ounces | 1 pound. | drate. |  |
| 60 drops | 1 teaspoonful. | 1 gram protein. | 4 calories. |
| 3 teaspoonfuls. | 1 tablespoonful. | 1 gram fat. | 9 calories. |
| 4 tablespoonfuls.... | 1/4 cup. | 1 tablespoonful | 4 drams, 15 cubic |
| 8 tablespoonfuls | 1/2 cup. |  | centimeters. |
| 16 tablespoonfuls... | 1 cup. | 1 teaspoonful | 1 dram, 4 cubic |
| 1 gill | 1/2 cup. |  | centimeters. |
| 2 cups | 1 pint. | 30 cubic centimeters | 1 ounce. |
| 4 cups | 1 quart. | 30 grams | 1 ounce. |
| 4 quarts | 1 gallon. | 1 kilogram. | 2.2 pounds. |
| 8 quarts. | 1 peek. |  |  |

## APPENDIX I

## Table IV.-Oven temperature

|  | Oven | ${ }^{\circ} \mathrm{F}$. |
| :---: | :---: | :---: |
| Slow - |  |  |
| Moderate |  | $350-400$ |
| Hot |  | 400-450 |
| Very hot |  | 450-500 |

Table V.-Can size and equivalent cup measure

|  | Can number | Cups |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table VI.-Average weights of boys and girls (without clothing)

| Boys |  |  | Girls |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Age (years) | Height | Weight | Age (years) | Height | Weight |
|  | Inches | Pounds |  | Inches | Pounds |
| Birth | 20. 5 | 7. 5 | Birth | 20. 5 | 7 |
| 1 | 29. 5 | 21. 5 | 1 | 29 | 20 |
| 2 | 33. 5 | 26. 5 | 2 | 33 | 25 |
| 3 | 36. 5 | 31 | 3 | 36 | 29.5 |
| 4 | 39 | 34.5 | 4 | 39 | 33 |
| 5 | 42. 5 | 37.5 | 5 | 41. 5 | 37 |
| 6 | 45 | 47 | 6 | 45 | 42 |
| 7 | 47 | 50 | 7. | 47 | 48. 5 |
| 8 | 50 | 56.5 | 8 | 50 | 56 |
| 9 | 52 | 62 | 9 | 52 | 61. 5 |
| 10. | 54 | 69 | 10. | 54 | 68 |
| 11 | 56 | 76. 5 | 11 | 56 | 75 |
| 12 | 58 | 86 | 12 | 58 | 81.5 |
| 13. | 60 | 98 | 13 | 60 | 90 |
| 14. | 63 | 112 | 14 | 62 | 106 |

## APPENDIX I

Table VII.-Normal weights for women (without clothing)

| Age, years | $8 \mathrm{4} \mathrm{ft}$. | 4 ft . | 5 ft . | $\begin{gathered} 5 \mathrm{ft.} . \\ 2 \mathrm{in} . \end{gathered}$ | $\begin{aligned} & 5 \mathrm{ft.} \\ & 4 \mathrm{in} . \end{aligned}$ | $\begin{gathered} 5 \mathrm{ft} . \\ 6 \mathrm{in} . \end{gathered}$ | $\begin{aligned} 5 \mathrm{ft} . \\ 8 \mathrm{in} . \end{aligned}$ | $\begin{aligned} & 5 \mathrm{ft.} \\ & 10 \text { in. } \end{aligned}$ | 6 ft . |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | 96 | 100 | 102 | 107 | 112 | 121 | 129 | 137 | 147 |
| 16 | 97 | 101 | 104 | 109 | 115 | 123 | 131 | 138 | 148 |
| 17 | 98 | 102 | 106 | 111 | 117 | 124 | 132 | 139 | 149 |
| 18 | 99 | 103 | 107 | 112 | 118 | 125 | 133 | 140 | 150 |
| 19 | 100 | 104 | 108 | 113 | 119 | 126 | 134 | 141 | 150 |
| 20. | 101 | 105 | 109 | 114 | 120 | 127 | 135 | 142 | 151 |
| 21-22 | 102 | 106 | 110 | 115 | 121 | 128 | 136 | 143 | 152 |
| 23. | 103 | 107 | 111 | 116 | 122 | 129 | 137 | 145 | 152 |
| 24-25 | 104 | 108 | 112 | 116 | 123 | 130 | 138 | 146 | 153 |
| 26-27 | 105 | 109 | 113 | 117 | 124 | 131 | 139 | 147 | 154 |
| 28-29 | 106 | 110 | 114 | 118 | 125 | 132 | 140 | 148 | 155 |
| 30 | 107 | 111 | 115 | 119 | 126 | 133 | 141 | 149 | 156 |
| 31-32 | 108 | 112 | 116 | 120 | 127 | 135 | 143 | 150 | 157 |
| 33. | 109 | 113 | 117 | 121 | 128 | 136 | 144 | 151 | 157 |
| 34-35 | 110 | 114 | 118 | 122 | 129 | 137 | 145 | 152 | 158 |
| 36-37 | 111 | 115 | 119 | 123 | 131 | 138 | 146 | 153 | 159 |
| 38. | 112 | 116 | 120 | 125 | 132 | 140 | 148 | 155 | 161 |
| 39 | 113 | 117 | 121 | 126 | 133 | 141 | 149 | 156 | 162 |
| 40 | 114 | 118 | 122 | 127 | 133 | 141 | 149 | 156 | 162 |
| 41-42 | 115 | 119 | 123 | 128 | 134 | 142 | 150 | 157 | 163 |
| 43 | 116 | 120 | 124 | 129 | 135 | 143 | 151 | 158 | 165 |
| $44-45$ | 117 | 121 | 125 | 130 | 136 | 144 | 152 | 159 | 166 |
| 46-47 | 118 | 122 | 126 | 131 | 137 | 145 | 153 | 160 | 168 |
| 48-49 | 119 | 123 | 127 | 132 | 138 | 147 | 155 | 162 | 170 |
| Over 50 | 120 | 124 | 128 | 133 | 139 | 148 | 157 | 162 | 172 |

TIM 8-500

## APPENDIX I

Table VIII.-Normal weights for men (without clothing)

| Age, years | 5 ft . | ${ }_{5}^{5} \mathrm{ft}$. in. | $5 \mathrm{ft}$. 4 in. | $5 \mathrm{ft}$. 6 in. | $\begin{gathered} 5 \mathrm{ft} . \\ 8 \mathrm{in} . \end{gathered}$ | $\begin{array}{r} 5 \mathrm{ft} . \\ 10 \mathrm{in} \end{array}$ | 6 ft . |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | 101 | 106 | 112 | 120 | 128 | 136 | 146 | 156 |
| 16 | 103 | 108 | 114 | 122 | 130 | 138 | 148 | 158 |
| 17 | 105 | 110 | 116 | 124 | 132 | 140 | 150 | 160 |
| 18 | 107 | 112 | 118 | 126 | 134 | 142 | 152 | 162 |
| 19 | 109 | 114 | 120 | 128 | 136 | 144 | 154 | 164 |
| 20 | 111 | 116 | 122 | 130 | 138 | 146 | 155 | 165 |
| 21. | 112 | 117 | 124 | 132 | 139 | 147 | 156 | 166 |
| 22 | 113 | 118 | 125 | 133 | 140 | 148 | 157 | 167 |
| 23 | 114 | 119 | 126 | 134 | 141 | 149 | 158 | 169 |
| 24 | 115 | 120 | 127 | 135 | 142 | 150 | 159 | 171 |
| 25 | 116 | 120 | 127 | 135 | 143 | 151 | 161 | 173 |
| 26 | 117 | 121 | 128 | 136 | 144 | 152 | 162 | 17 |
| 27 | 118 | 122 | 128 | 136 | 144 | 152 | 163 | 175 |
| 28 | 119 | 123 | 129 | 137 | 145 | 153 | 163 | 176 |
| 29-30 | 120 | 124 | 130 | 138 | 146 | 154 | 166 | 178 |
| 31-33 | 121 | 125 | 131 | 139 | 148 | 156 | 168 | 180 |
| 34-35 | 122 | 126 | 132 | 140 | 149 | 158 | 170 | 182 |
| 36-37 | 123 | 127 | 133 | 141 | 150 | 160 | 172 | 184 |
| 38-39 | 124 | 128 | 134 | 142 | 151 | 161 | 173 | 186 |
| 40-41 | 125 | 129 | 135 | 143 | 152 | 162 | 174 | 187 |
| 42-43 | 126 | 130 | 136 | 144 | 153 | 163 | 175 | 188 |
| 44-45 | 127 | 131 | 137 | 145 | 154 | 164 | 176 | 189 |
| 46-50 | 128 | 132 | 138 | 146 | 155 | 165 | 177 | 191 |
| Over 50 | 129 | 133 | 139 | 147 | 157 | 167 | 178 | 192 |

## Appendix II

## LIVER RECIPES

1. General.-In pernicious anemia, liver is an important part of the therapy. It frequently is a real problem to get patients to eat as much liver as they should. It is important that the dietitian have available numerous recipes for the preparation of liver dishes. An excellent group of recipes for serving liver are those from the Thomas Henry Simpson Memorial Institute for Medical Research. They are given below and should be adequate for the preparation of liver for all purposes.
2. Ways of serving liver.-See paragraph 3 for recipes.

нот DISHES

| Recipe |  | $\begin{array}{c}\text { Recipe } \\ \text { No. }\end{array}$ |
| ---: | ---: | ---: |
| No. |  |  |A la king

Baked Loaf ..... 19
Boiled with onion sauce Omelet ..... 20
Boiled with Mexican sauce Pie ..... 21
Broiled Scrapple ..... 22
Chili con carne Shepherd's pie ..... 23
Creamed on toast 7 Soup, creamed ..... 24
Creamed with onions 8 Soup, with vegetables ..... 25
Creamed with cauliflower 9 Stew, with biscuits ..... 26
Chop suey 10 Stuffed ..... 27
Chow mein 11 Stuffed pepper ..... 28
Croquettes 12 Stuffed potato ..... 29
En casserole 13 Stuffed tomatoes ..... 30
Fried with bacon 14 Tomato bisque ..... 31
Fried with onions 15 Turn-over ..... 32
Hash 16 With noodles ..... 33
Indian curry 17 With corn creole ..... 34COLD DISHES

|  | Recipe No. |  | Recipe No. |
| :---: | :---: | :---: | :---: |
| Cocktail | 35 | Stuffed tomato salad | 40 |
| Cold sliced with relish | 36 | Stuffed pepper salad_ | 41 |
| Jellied | 37 | Sandwiches | 42 |
| Jellied in aspic | 38 | Toasted sandwiches | 43 |
| Salad | - 39 | Club sandwiches_ | - 44 |

## SALAD DRESSINGS

|  | $\begin{gathered} \text { Recipe } \\ \text { No. } \end{gathered}$ |  | Recipe No. No. |
| :---: | :---: | :---: | :---: |
| Horseradish | 45 | Russian_ | 47 |
| Mayonnaise | 46 | Thousand island | 48 |
|  | BEVEf | AGES |  |
|  | $\begin{aligned} & \text { Recipe } \\ & \text { No. } \end{aligned}$ |  | Recipe No. |
| Cherry lemonade | 49 | Orange juice | 52 |
| Coffee shake_ | 50 | Tomato bouillon | 53 |
| Iced chocolate. | 51 |  |  |

MISCELLANEOUS

|  | Recipe No. |  | Recipe No. |
| :---: | :---: | :---: | :---: |
| Catsup_ | 54 | Ice cream | 56 |
| Dresden chocolate chips | 55 | Tomato relish_ | 57 |

## 3. Recipes.

## HOT DISHES

## 1. Liver a la king

$2 / 3$ cup ground liver, cooked.
$1 / 4$ cup celery (cooked) chopped.
$1 / 4$ cup mushrooms.
2 tablespoonfuls onion, chopped.
2 tablespoonfuls green pepper, chopped.
2 tablespoonfuls pimiento, chopped.
Simmer mushrooms, green pepper, and onions in butter until peppers are slightly transparent. Add flour diluted with milk, then the broth, and stir until thickened. Add the remaining ingredients and keep hot in a double boiler until ready to serve on toast. If not all taken, this may be reheated the following day.

## 2. Baked liver

$1 / 4$ pound sliced liver.
1 can stewed or canned tomatoes.
Onion (small).

Flour.
$1 / 2$ teaspoonful salt.
$1 / 8$ teaspoonful pepper.

Dredge liver with flour and sprinkle with salt and pepper. Place in buttered baking dish. Cover with sliced onions, sprinkle with salt and pepper, and pour tomatoes over it. If pan is very shallow, more tomatoes may be needed. Bake in a moderate oven until liver is tender.
$1 / 2$ pound liver, unsliced. 1 bay leaf. Celery leaves.
Cook slowly in salted water with celery leaves and bay leaf until tender. Remove skin, slice, and serve with onion sauce:
$1 / 4$ cup chopped onions. $1 / 4$ teaspoonful salt.
1 tablespoonful butter. Speck pepper.
1 tablespoonful flour. Milk.
Boil onions until tender, drain, and to liquor add enough milk to make up to $1 / 2$ cup. Blend butter and flour together, add milk, and simmer until smooth and thick. Add onions, salt, and pepper.

## 4. Boiled liver with Mexican sauce

Reheat sliced cold boiled or broiled liver in Mexican sauce:
$1 / 2$ onion, finely chopped. $1 / 4$ clove garlic (if desired).
1 tablespoon butter. $1 / 2$ cup tomatoes.
$1 / 2$ red pepper or pimiento. 1 teaspoon worcestershire sauce.
$1 / 2$ green pepper. Salt and pepper.

Simmer the onion in the butter. Add the remaining ingredients. Cook 5 minutes, then add slices of liver.

## 5. Broiled liver

Parboil $1 / 2$ pound liver for 10 minutes. Remove skin and slice. Place on a greased broiling rack and cook slowly for 5 to 10 minutes. Turn frequently. Dot with butter, salt, and pepper, and garnish with parsley or lemon.

## 6. Chili con carne

$1 / 2$ cup liver, uncooked, Salt and pepper. chopped. 1 tablespoon onion.
$1 / 2$ red pepper or pimiento, $\quad 1 / 2$ teaspoon chili powder. chopped.
Cook all together until liver is tender and there is very little liquor. Add $1 / 2$ cup red kidney beans. Cook together 10 minutes.
$1 / 2$ cup diced liver.
1 tablespoon flour.
2 tablespoons butter.
$3 / 4$ cup milk.
$1 / 4$ teaspoon salt and speck pepper.
1 teaspoon worcestershire sauce.

Fry liver in butter until tender. Add flour and stir until blended. Add milk. Add worcestershire, salt, and pepper and serve on toast or crackers.

## 8. Creamed liver with onions

$1 / 2$ cup diced liver.
2 small onions.
3 tablespoons bacon drippings.
$11 / 2$ tablespoons flour.
$3 / 4$ cup milk.
$1 / 4$ teaspoon salt and speck pepper.

Brown onions and liver together in bacon drippings. Add flour. When blended add the milk slowly; simmer until liver is tender.

## 9. Creamed cauliflower with liver

$1 / 2$ cup diced uncooked liver. 1 tablespoon flour.
1 tablespoon butter. $\quad 1 / 2$ cup milk.
$1 / 2$ cup cauliflower, cooked.
Sear liver in butter. Cover with water and simmer slowly until very tender. Shake over flame last few minutes that there may be no water left. Serve on a warm plate, pouring white sauce over liver, and cauliflower on the white sauce.

## 10. Liver chop suey



Simmer onion and green pepper in butter until pepper is clear. Add liver and cooked celery, broth, and flour diluted with tomato juice. Stir until smooth and thick. Serve with boiled rice.

## 11. Liver chow mein

Use liver a la king recipe and serve with fried noodles.

## 12. Liver croquettes

$2 / 3$ cup cooked liver, chopped. 1 teaspoon lemon juice.
$1 / 4$ teaspoon salt.
$1 / 8$ teaspoon celery salt, speck cayenne pepper.

1 tablespoon onion, chopped.
1 teaspoon parsley.
$1 / 2$ cup thick white sauce.

Mix ingredients in order given. Cool, shape, roll in crumbs, then beaten eggs and again in crumbs. Fry in deep fat or bake in a hot oven.

## 13. Liver en casserole

$1 / 4$ pound sliced liver.
Flour.
$1 / 4$ teaspoon salt.
1/8 teaspoon pepper.
2 medium potatoes, quartered.

Water.
1 carrot, sliced.
1 onion, sliced.
1 small turnip, sliced.
$1 / 2$ cup peas.
2 tablespoons butter.

Dredge liver in flour, salt, and pepper. Sear on both sides. Place half of the liver in the bottom of a buttered casserole, cover with vegetables. Place remaining liver on the top and add water to come half way up the vegetable layer. Bake with the cover on for $1 \frac{1}{2}$ hours.

## 14. Fried liver with bacon

1/4 pound liver.
2 slices bacon.

Salt and pepper.
Flour.

Fry bacon and remove to hot plate. Dredge liver in flour, salt, and pepper. Cook liver slowly in bacon drippings until it can be pierced easily with a fork.

## 15. Fried liver with onions

1/4 pound sliced liver.
1 large onion.

Flour.
Salt and pepper.

Dredge liver with flour, salt, and pepper. Sear in bacon drippings and surround with sliced onions, turning them frequently until brown.

## 16. Liver hash

$3 / 4$ cup cooked liver, chopped. $\quad 1 / 4$ teaspoon salt. $3 / 4$ cup cooked potato, chopped. 1/8 teaspoon pepper.
$1 / 2$ small onion, chopped. $1 / 3$ cup milk.

Mix and brown each side slowly in a hot buttered frying pan. Turn and serve with catsup or horseradish.

## 17. Indian curry of liver

$1 / 2$ cup diced liver.
2 tablespoons butter.
2 slices onion.
$1 / 2$ teaspoon curry powder.
$11 / 2$ tablespoons flour.

Sear liver in butter, add onions, and cook until brown. Add curry powder, cover with boiling water, and cook until meat is tender. Thicken with flour diluted with cold water to pour easily. Serve with steamed or boiled rice.

## 18. Italian spaghetti with liver

$1 / 2$ cup cooked spaghetti 1 teaspoon chili powder or macaroni.
\%/3 cup cooked ground liver.
3 tablespoons chopped onion.
1 tablespoon chopped green pepper.
Mix tomato, onion, and green pepper. Put layers of spaghetti, liver, and tomato in buttered baking dish and bake $1 / 2$ hour.

## 19. Liver loaf

2/3 cup liver, cooked, ground. $\quad 1 / 4$ teaspoon salt.
$1 / 2$ cup tomato juice.
1 tablespoon onion, finely chopped.
$1 / 8$ teaspoon pepper. $1 / 2$ egg, slightly beaten.

Mix and bake 20 minutes in moderate oven. Serve with tomato sauce.

## 20. Baked omelet with liver

2 tablespoons butter.
2 tablespoons flour.
$1 / 2$ cup tomato juice.
$1 / 4$ teaspoon salt.
Speck pepper.
$1 / 4$ cup chopped celery.

2 tablespoons chopped onion.
1 tablespoon chopped green pepper.
$2 / 3$ cup chopped cooked liver.
1 egg.

Melt butter and add flour. Add tomato juice, stir until smooth and thick. Add the onion, celery, and pepper. Chill. When cold, add yolk, fold in a stiffly beaten white, last, the liver. Place in buttered baking dish uncovered, and bake slowly in a pan of hot water for $3 / 4$ hour.

## 21. Liver pie

$1 / 2$ cup diced liver.
1 small onion.
1 bay leaf.

1/4 tablespoon salt.
$1 / 8$ teaspoon pepper.
$1 \frac{1}{2}$ tablespoons flour.

Simmer liver with seasonings until tender. Drain off stock and boil down to 1 cup. Thicken with flour diluted with enough cold water to pour easily. Put liver in buttered baking dish, cover with gravy and cool. Cut gashes in pie crust and cover dish with it. Bake in a moderate oven until crust is browned.

## 22. Scrapple

1/2 cup cooked corn meal. $\quad 2 / 3$ cup cooked liver, ground.
Mix hot corn meal and liver. Pack in a moist bowl or small pan. When cold cut in slices $1 / 2$ inch thick and brown in hot fat. Serve with syrup.

## 23. Shepherd's pie

Make the same liver pie (recipe No. 21), using hot mashed potato to cover the top instead of pie crust. It is not necessary to cool the liver mixture for shepherd's pie. Bake until the potato begins to brown.

## 24. Cream of liver soup

$1 / 4$ cup liver (uncooked), 1 tablespoon onion. finely chopped. $1 / 4$ teaspoon salt.
$1 / 4$ cup celery, chopped. Speck paprika.
Speck pepper.
Cook liver, onion, and celery in salted water until tender. Melt butter, add flour, and boil. Add stock drained from liver and vegetables with added milk to make a cupful. Add liver and vegetables. Season and serve with crisp crackers.

## 25. Liver soup with vegetables



Cook liver, onion, and celery in salted water until tender. During the last few minutes of cooking shake so that there will be no water left. Add tomato juice, parsley, simmer 3 to 5 minutes. Season and serve with crisp crackers.

## 26. Liver stew with biscuits

See recipe for liver pie (No. 21) using a thin baking powder biscuit mixture to drop on top. It is not necessary to cool the liver and gravy as for liver pie.
27. Stuffed liver

1/2 pound sliced liver. $1 / 2$ cup cracker crumbs. Salt, pepper, cayenne.

1 teaspoonful lemon juice.
1 teaspoonful chopped onion.

Moisten dressing with hot water. Spread on liver to within $1 / 2$ inch of the edges. Roll each slice, fastening with toothpicks. Fold in flour, sprinkle with salt and pepper, and sear. Put $1 / 2$ inch water and tomato juice or milk in pan and simmer closely covered until liver is tender.

## 28. Stuffed pepper

$2 / 3$ cup cooked liver, ground. $\quad 1 / 4$ teaspoonful salt.
$1 / 4$ cup tomato juice. $\quad 1 / 8$ teaspoonful pepper.
1 tablespoonful chopped Buttered bread crumbs. onion.
Cut a large pepper in half lengthwise, or slice from stem end of 2 small ones. Remove seeds and parboil in salt water 5 minutes. Stuff, cover with buttered crumbs, and bake in a moderate oven until crumbs are brown. About $1 / 4$ inch water in the bottom of the pan will keep them from becoming too dry.

## 29. Stuffed potato

Cut a large freshly baked potato in half lengthwise. Scoop out, mash, and fill one half with liver stuffing (see stuffed peppers (28)). Fill the other half with the mashed potato. Top with buttered bread crumbs and return to the oven for a few minutes to heat liver and brown.

## 30. Stuffed tomatoes

Scoop out tomatoes, leaving a $1 / 2$ inch shell. Fill with liver stuffing (see stuffed peppers, recipe No. 28), cover with buttered crumbs, and bake in a moderate oven until crumbs are brown.

## 31. Tomato bisque with liver

| $1 / 3$ cup cooked liver, finely | 1 tablespoonful catsup. |
| :--- | :--- |
| ground. | $1 / 4$ teaspoonful salt. |
| $2 / 3$ cup strained tomato. | $1 / 8$ teaspoonful pepper. |

Heat tomato with seasonings. Add liver, simmer 5 minutes. Serve with crisp crackers.

## 32. Liver turn-over

Liver stuffing (see stuffed Pastry.
peppers (recipe No. 28)).

Roll pie crust into a circular piece about 7 inches in diameter and $1 / 8$ inch thick. Place stuffing on one half, fold over the other half. Moisten edges and press firmly together. Cut gashes in top and bake in a moderate oven until pastry is brown, about 45 minutes.

## 33. Liver with noodles

$1 / 2$ cup cooked noodles.
2/3 cup cooked liver, ground.
$1 / 4$ cup cooked celery, chopped.
$1 / 4$ cup mushrooms, quartered.

2 tablespoonfuls chopped green peppers.
2 tablespoonfuls pimiento.
1 tablespoonful butter.
$1 / 4$ teaspoonful salt.
$1 / 8$ teaspoonful pepper.

Simmer onion, green pepper, and mushrooms in butter until pepper is slightly transparent. Add celery, pimiento, liver, noodles, salt, and pepper.

## 34. Creole corn with liver

| $2 / 3$ cup corn, canned. | $1 / 3$ cup milk. |
| :--- | :--- |
| $2 / 2$ cup cooked liver, ground. | $1 / 4$ teaspoonful salt. |
| 1 tablespoonful red peppers, | $1 / 8$ teaspoonful pepper. |
| chopped. |  |

Mix, top with buttered crumbs, and bake slowly until crumbs are brown.

## COLD DISHES

## 35. Liver cocktail

Cocktail sauce:
$1 / 2$ cup tomato catsup.
$1 / 4$ cup lemon juice.
2 tablespoonfuls worcestershire sauce.
$1 / 4$ teaspoonful chives or onion.
2 teaspoonfuls horseradish. Salt and pepper.

Mix with ground raw liver or liver pulp (see "Beverages" below$1 / 4$ pound liver yields $1 / 3$ cup pulp) in the proportion of 1 part liver to 2 parts of sauce. Serve with crisp crackers.
(This recipe was published in J. A. M. A., September 17, 1927, by Dr. Wm. T. Wilkins.)
36. Cold sliced with relish

Boiled liver (recipe No. 2) may be served cold with any tart relish such as chili sauce, horseradish, beet relish, catsup, or cocktail sauce as above.

## 37. Jellied liver

2/3 cup ground cooked liver. $\quad 1 / 8$ teaspoon pepper.
$1 / 4$ cup shredded cabbage.
2 tablespoons chopped pickle.
2 tablespoons chopped pimiento.
2 tablespoons vinegar.
1 teaspoon horseradish.
$1 / 2$ tablespoon granulated gelatin.
2 tablespoons cold water.
$3 / 8$ cup liver broth stock or water.
$1 / 4$ teaspoon salt.
Soak gelatin in cold water. Dissolve in boiling stock, broth, or water. Add vinegar and chill. When partly thickened stir in remaining ingredients. Chill. Serve as salad or cold meat.

## 38. Liver jellied in aspic

2/3 cup cooked liver, ground.
1 cup stewed tomatoes.
2 slices onion.
1 bay leaf.
$1 / 4$ teaspoon salt.

1/8 teaspoon pepper.
$11 / 4$ teaspoons granulated gelatin.
1 tablespoon cold water.

Cook onion, bay leaf, salt, pepper, and tomatoes together. Strain. Make up $1 / 3$ cup. Add gelatin which has been soaked in cold water and stir until dissolved. Add liver. Chill. Serve as a salad or as a cold meat.
\%/3 cup cooked liver, coarsely ground.
1 tablespoon chopped onion.

1 tablespoon chopped green pepper.
$1 / 4$ cup chopped celery or cucumber.

Salt and pepper.
Mix with mayonnaise or French dressing and serve on lettuce with a slice of lemon.

## 40. Stuffed tomato salad

Use liver salad mixture to stuff a large tomato which has been prepared as in recipe No. 30 .

## 41. Stuffed pepper salad

Prepare $1 / 2$ cup diced uncooked liver as for sandwich filling. Remove stem end and seeds from a green pepper. Pack tightly with the liver mixture. Chill. Cut pepper in $1 / 2$-inch slices crosswise and serve on lettuce.

## 42. Liver sandwiches

$1 / 2$ cup diced liver (uncooked).
Brown in hot fat, add boiling water, and simmer until very soft. Continue cooking until all the liquid has been absorbed. Mash, season, moisten with catsup or a little hot water. Spread on graham or white bread. Chopped pickles may be added if desired.

## 43. Toasted sandwiches

Make sandwiches same as above. Toast on both sides, stick with two toothpicks to keep bread from curling. Serve at once.

## 44. Club sandwiches

Use sandwich filling as above or slice of cold boiled liver. Butter bread lightly, spread filling between. Butter top of sandwich, place on this a thin slice of boiled ham, a thin slice of dill pickle, and another slice of buttered bread.

## SALAD DRESSINGS

## 45. Horseradish dressing with liver

2 tablespoons cooked liver, finely ground.
1 tablespoon salad oil.
Salt, pepper, and paprika.
Stir briskly with a fork and serve with shredded lettuce or cabbage.
46. Liver mayonnaise

2 tablespoons cooked liver, $\quad 1$ tablespoon mayonnaise
finely ground.
dressing.
Mix and serve with tomato, cucumber, cabbage, or lettuce salad.

## 47. Russian dressing with liver

2 tablespoons cooked liver, 1 teaspoon chopped onion. finely ground.
2 teaspoons chopped pickle.
1 teaspoon chopped pimiento.

Stir briskly with a fork and serve with head lettuce, shredded lettuce, or cabbage.

## 48. Thousand island dressing with liver

2 tablespoons cooked liver, 2 teaspoons chopped pickle. finely ground. 1 teaspoon chopped pi1 tablespoon mayonnaise miento. dressing.
Mix and serve with shredded or head lettuce.

## BEVERAGES

Liver pulp for use in beverages may be prepared as follows:
Trim uncooked liver free from skin and connective tissue. Put through the food chopper, using the finest knife. Press the ground liver through a potato ricer. 125 grams liver prepared in this way yields 9 grams liver pulp, which measures $\frac{1}{3}$ cup or 4 level tablespoonfuls.

## 49. Cherry lemonade

$1 / 2$ cup liver pulp. $\quad 1 / 2$ cup cherry juice.

Add sugar to lemon and cherry juice. Add liver and serve with crackers or thin cookies.
50. Coffee shake with liver
$1 / 3$ cup liver pulp.
Fill glass with fairly strong iced coffee. Stir briskly. Serve with crisp crackers, or thin slices of dry toast.

## 51. Iced chocolate with liver

$1 / 3$ cup liver pulp. 1 tablespoon cocoa.
1 tablespoon sugar.
Mix sugar and cocoa together. Add cold water and boil, stirring constantly, for 2 minutes. Pour in glass and chill. When cold add liver and fill the glass with milk. Serve with crisp crackers.

## 52. Liver with orange juice

$1 / 2$ cup liver pulp.
2/8 cup orange juice.
Stir together and serve with crackers.
53. Tomato bouillon

1/4 cup liver pulp.
$3 / 4$ cup tomato juice.

1 tablespoon tomato catsup.
Salt and pepper to taste.

Mix liver pulp with tomato juice. Bring to a boil (but do not boil). Add tomato catsup and season with salt and pepper. Serve hot.

MISCELLANEOUS
54. Catsup

2 tablespoons catsup.
2 tablespoons liver pulp.
Mix and serve as a relish with meat or baked beans.

## 55. Dresden chocolate chips

$1 / 3$ cup cooked liver, ground.
2 tablespoons sugar.

2 tablespoons grated chocolate (unsweetened).

Spread $1 / 4$ inch layer of liver in bottom of pan. Sprinkle with chocolate mixed with sugar. Bake in a slow oven until sugar and chocolate are melted and crumbs of liver are crisp on top. Remove from fire and serve with whipped cream.
56. Liver ice cream

| 1 cup coffee cream. | $2 / 3$ cup liver cooked and |
| :--- | :---: |
| 2 tablespoons cocoa. | ground very finely. |
| 3 tablespoons sugar. | $1 / 2$ teaspoon vanilla. |

Mix sugar and cocoa. Add cream and cook in double boiler 10 minutes. Cool. Add liver, vanilla, and freeze.
57. Tomato relish

## 1 tablespoon chopped pickle. <br> 1 tablespoon catsup. <br> 2 tablespoons liver pulp.

Mix and serve as a relish.

## Appendix III <br> RECIPES FOR DIABETICS

## 1. Gelatin dessert

12 grams gelatin. 500 ec water.
Soak gelatin in 200 cc water. Heat the remainder of the water and add to the softened gelatin. While hot add saccharine and flavor to taste.

Value, each 100 grams:
Protein, 2 grams.
Fats, 0 gram.
Carbohydrates, 0 gram.

## 2. Oatmeal muffins

52 grams rolled oats, dry. 48 grams butter.
$1 / 2$ teaspoon salt.
$1 / 2$ teaspoon baking powder.

4 eggs.
$1 / 4$ cup water.

Mix all dry ingredients. Add water. Melt butter and add. Beat egg yolks and add. Beat egg white stiffly and fold in. Divide equally into 12 baking containers and bake.

Value, each muffin:
Protein, 3 grams.
Fats, 6 grams.
Carbohydrates, 3 grams.

## 3. Bran muffins (unwashed)

150 grams bran, unwashed. 2 teaspoonfuls baking pow-

50 grams butter.
2 eggs.
20 grams brown sugar. der.
$1 / 4$ teaspoonful baking soda.
$1 / 2$ teaspoonful salt.
q. s. water.

Mix all dry ingredients well. Then melt butter and add with sufficient warm water for proper consistency. Beat egg yolks and add. Beat egg whites stiff and fold in. Bake in hot oven about 20 minutes. Makes 12 muffins.

Value, each muffin:
Protein, 3 grams.
Carbohydrates, 0 gram.
Fats, 5 grams.

## 4. Bran muffins (washed)

100 grams bran, washed.
2 eggs.
1 tablespoonful mineral oil.
$1 / 2$ teaspoonful salt.

2 teaspoonfuls baking powder.
q. s. water.

Mix all dry ingredients and add water to the proper consistency. Add mineral oil to beaten egg yolks and mix well. Beat egg whites stiff and fold in. Makes 12 muffins.

Approximate value, each muffin:
Protein, 2 grams.
Fats, 2 grams.
Carbohydrates, 0 gram.

## 5. Cream soup (one serving)

100 grams cream, 20 percent.

Approximate value, each 240 cc:
Protein, 4 grams.
Carbohydrates, 6 grams.

## 6. Vegetable soup (one serving)

15 grams raw carrots, diced, 10 grams onion, raw, 10-

50 grams vegetable, mashed, 5 percent.
240 grams water, q. s.

10-percent. 30 grams tomato, raw, 5percent.
10 grams shredded cabbage, 5 -percent.

Fats, 20 grams. percent.
10 grams celery, raw, 5percent.
480 ce clear broth.
Salt and pepper to taste.

Add 480 cc clear broth to prepared raw vegetables and cook until vegetables are done.

Approximate value:
Protein, 1 gram. Fats, 0 gram.
Carbohydrates, 5 grams.
7. Prune whip (twelve servings)

12 egg whites.
300 grams prune purée.

10 cc lemon juice.
6 tablets saccharine.

Beat egg whites stiff. Dissolve saccharine tablets in lemon juice and add to prune purée. Fold in egg whites and bake.

Value, each serving:
Protein, 4 grams.
Fats, 0 gram.
Carbohydrates, 5 grams.
8. Strawberry ice cream (12 servings)

400 grams strawberries, $1 / 4$ teaspoonful salt. fresh (purée). 4 eggs. 200 cc milk, whole. 4 tablets saccharine. 200 cc cream, 20-percent.
Add saccharine to strawberry purée. Mix milk, cream, and eggs, and add the salt. This makes a mixture the consistency of custard. Cool this mixture and when cool add the strawberry purée and freeze.

Value of each serving:
Protein, 4 grams.
Carbohydrates, 4 grams.
Fats, 6 grams.

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[A. G. 062.11 (6-10-41.)]
By order of the Secretary of War:
G. C. MARSHALL, Chief of Staff.
Official:
E. S. ADAMS,
Major General,The Adjutant General.
Distribution:X(For explanation of symbols see FM 21-6.)



[^0]:    *Courtesy of Department of Nutrition, St. Mary's Hospital, Rochester, Minn.

