SURGICAL TREATMENT
—OF—
NASO-PHARYNGEAL CATARRH.

BY

D. H. GOODWILLIE, M.D., D.D.S.,
NEW YORK CITY;

(Read before the American Medical Association.)

LATE CLINICAL ASSISTANT TO THE METROPOLITAN THROAT HOSPITAL;
PERMANENT MEMBER OF THE AMERICAN MEDICAL ASSOCIATION;
MEMBER OF N. Y. NEUROLOGICAL SOCIETY; OF THE MEDICAL
SOCIETY OF THE COUNTY OF N. Y.; ETC.

FIRST EDITION.

REPRINTED FROM THE MEDICAL GAZETTE, JULY 31, 1889.
TO THE MEDICAL PROFESSION.

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<table>
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<tr>
<th>Ingredient</th>
<th>Quantity</th>
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<tr>
<td>Sugar of Milk</td>
<td>40 ounces</td>
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<tr>
<td>Pepsin</td>
<td>8 ounces</td>
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<tr>
<td>Pancreatine</td>
<td>6 ounces</td>
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<tr>
<td>Veg. Ptyalin or Diastase</td>
<td>4 drachms</td>
</tr>
<tr>
<td>Lactic Acid</td>
<td>5 fl. drachms</td>
</tr>
<tr>
<td>Hydrochloric Acid</td>
<td>5 fl. drachms</td>
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Lactopeptine is sold entirely by Physicians' Prescriptions, and its almost universal adoption by physicians is the strongest guarantee we can give that its therapeutic value has been most thoroughly established.

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P.O. BOX 1574.
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D. H. GOODWILLIE, M.D., D.D.S.

New York City.

(Read before the American Medical Association, June 3, 1880.)

Of the etiology of naso-pharyngeal catarrh, I desire only to say in reference to those cases that shall occupy our attention at this time, that their history, in many instances, commences in early life—even in infancy. Particularly is this the case in deviations and exostosis of the nasal septum.

The sides of each nasal fossa contain the three turbinated bones and throw the mucous membrane that covers them into folds, so that in a small space a large amount of mucous surface is exposed. A wise provision for tempering and cleansing the air that passes over it to the lungs. Experiments have shown that air respired through the nose is raised more than two degrees in temperature than when respired by the mouth.

Respired air must pass through both the nostrils alike to produce a healthy respiration.

In the same proportion that respiration is prevented through the nose, the gate way to the lungs, will there be catarrhal conditions of the upper air passages, and in many cases reaching the lungs ultimately.

Of the passages through the nostrils the inferior meatus is the most important, as it is the chief respiratory passage for air, and for the carrying off, in a great measure, the nasal secretions.

For the latter purpose it is lined with ciliated columnar epithelium. The mucous membrane is quite vascular, and consequently subject to very sudden engorgement.

I do not propose to say anything respecting catarrhal conditions that require medical treatment only, but to such cases as have passed that point and can only be relieved by surgical interference.

Some of the pathological conditions to which I desire at this time to call your attention requiring surgical treatment are the following, viz:

1. Exostosis. 2. Deviated nasal septum. 3. Hypertrophy of the erectile cavernous tissue on the turbinated bones. 4. Polypi. 5. Necrosis from struma or syphilis. 6. Chronic antrum disease. 7. Chronic maxillary abscess from tooth disease.

The time allotted me will only suffice for the consideration of some of these which I will endeavor to illustrate by a few cases by means of diagrams and wax models.

Exostosis of the turbinated bones is not so frequent an occurrence as it is in the vomer when it is associated with deviated septum.

Their growth is attended usually by pains of a neuralgic character. They prevent respiration, and by pressure causes sloughing and necrosis of adjacent parts. Exostosis with deviation of septum is of more common occurrence.

Whenever the vomer takes a sharp deflection there is often found an exostosis on the convex side, just at the greatest part of the curve.

When this occurs along the line and into the inferior meatus as it more often does, it gives a great deal of catarrhal trouble by preventing free respiration and the passage out of the nasal secretions, which not being changed by a free respiration, becomes fetid by decomposition.

Deviation of cartilaginous septum are quite numerous—curves in between the bony septum and the columna in many directions. Dislocation of the lower end of the septum with displacement of the nasal spina, also produce abnormal respiration.

HYERTROPHY OF THE ERECTILE Cavernous Tissue Covering the inferior Turbinated BONES.

Some years ago Dr. Henry J. Bigelow, of Boston, in an article found in the Boston Medical and Surgical Journal for April 29, 1875, states that he has found "a remarkable and well-formed cavernous structure at least upon the middle and inferior turbinated bones. The difference in size of the distended and collapsed cavernous bodies is quite striking and is best seen upon the inferior turbinated. Collapsed, the outline and dimensions are nearly those of its attenuated, bony framework. Distended, it becomes an angry, turgescent mass of uneven surface and livid color, completely closing the lower nostril. A pouch-like dilatation projects from the rear of the bone, increasing its length and with the aid of a blow-pipe readily showing, on section, to the naked eye cavernous cells. It is this reticulated pouch that is seen with the mirror at the back of the nares. Above is seen the middle turbinated mass similarly distended, and if the injection of the whole membrane is considerable, the nasal septum also swells to nearly the thickness of one-quarter of an inch. If inflated and dried, the cells project upon the surface. A section gives further evidence of a cavernous structure with juxtaposed cavities, tolerably uni-
form in size and equally distributed; approaching quite nearly, both the mucous surface and the bone. They communicate by irregular apertures while minute bands and septa traverse and connect their common walls.

A wet microscopic section exhibits thin trabeculae and walls composed mainly of connective tissue, presenting cavities of unequal dimensions and closely resembling the cavernous structure of the penis, although the smooth muscular element, as also the tunica albuginea of the latter, are somewhat more pronounced, as might be anticipated from the comparative erectile tension of this organ.

I pass around for your inspection two wax models of cleft palates, showing the extensive hypertrophy of the tissue covering these bones. When fully erected they entirely fill the cleft. In one will be observed this condition, while in the other it is in a state of non-erection.

By experiment made on them I found that anything that would excite the salivary and muciparous glands to increased action caused an erection of this hypertrophied erectile tissue. When the exciting cause was removed, after a short time it receded.

![Fig. 1.](image)

This erection and collapse is a physiological fact in the normal condition and is intended to purify the tidal air passing in respiration from all impurities and so protect the pulmonary organs against disease. The hairs in the vestibule of the nostrils and this erectile tissue are faithful sentinels to arrest impurities in the respired air.

By a constant irritation of this erectile tissue by impurities in the respired air, by a mechanical irritation caused by a constant and forcible blowing of the nose in chronic catarrh, the effect of which is felt on the anterior part of the inferior turbinate bone just within the vestibule, a hyperplasia is thereby set up which results in so thickening this tissue that normal respiration is very much interfered with and in some cases entirely prevented. To the above causes may be added in many cases a constitutional predisposition to catarrhal conditions.

Treatment of exostosis of the turbinate bones, when large, consists in drilling the enlargement at its base by means of the surgical engine, when it may be removed with the nasal forceps. (See Fig. 1, cutting drills.)

The exostosis on the vomer is removed by the revolving multiple knife (Fig. 2) carried through the nostrils to the pharynx enclosed within a sheath, so as not to cut any tissue except the exostosis. The small exostosis of the turbinate bones are removed in the same way.

For the treatment of the deviated cartilaginous septum I have found no operation so successful as removing a section containing the bend by means of the excising nasal forceps (Fig. 3) devised some years ago. One blade contains the circular or oval knife and the other is flat, against which the knife comes when it has cut its way through the septum.

My attention has been called to a somewhat similar instrument described in Dict. Encycloped des sciences med. et chirurg; article nez.

It requires some half a dozen forceps of different sizes and shapes to meet every case.

In dislocation of lower end of cartilaginous septum make an incision over the end of the dislocated and protruding cartilage down to the cartilage, denude it of the peristeum, push it back and then amputate the protruding cartilage (and nasal spine also, if it is displaced), replace the denuded soft tissue and hold them together by small sutures.

The hyperplasia of the erectile tissue on the turbinate bones is removed by means of the galvano or thermo-cautery. To the parquelin cautery I have devised a new handle, which is held between the two fingers and thumb. (Fig. 4.) In the office use the condensed air instead of forcing the air by the hand-balls. The cautery is very efficiently held and the force of the air easily controlled by the thumb. The thermo-cautery can only be used in the anterior nares.

Dotted lines represent the shield through which the cautery passes.

The part of the cautery within the shield is covered over with asbestos to protect the vestibule from the heat.

The galvano-cautery is by far the most efficient cautery to be used in the nose. By the use of properly constructed electrodes it can
be used anywhere in the nose, pharynx or larynx.
The vestibule of the nostrils is protected from the heat by a shield made of glass and asbestos. (Fig. 5.) The lower part of the shield is flanged so as to be easily held between the fingers. The top of it embraces the part to be cauterized. The electrode when heated to a high heat is passed through the shield on to the parts to be removed.

Chronic antrum disease is a frequent source of naso-pharyngeal catarrh. This commences almost always by a decomposed dental pulp opening into and setting up trouble in the antrum. With this there is more or less facial neuralgia. I do not think this is often recognized except perhaps in extreme cases where extensive necrosis exists.

Chronic maxillary abscesses of the second or third molars occasionally discharge into the pharynx and produce catarrhal conditions.

The proper treatment is to extract the tooth and open well into the abscess and keep it open until it granulates from the bottom to the surface.

After all surgical operations the patient is positively forbidden to blow the nose for the first twenty-four hours as a preventative measure against hemorrhage. After that time the nose is freed of clot and mucus by means of the nasal dressing forces and the nasal douche. Then the powder of iodoform and camphor is blown in, covering the entire mucous surface of the nose or antrum when that cavity has been opened.

In cases where an anesthetic is given I always commence with nitrous oxide, and, if the operation is to be prolonged, continue with some other anesthetic. The head of the patient is securely fixed in a head-rest, preventing any motion during the operation.

The following cases were all severely troubled with naso-pharyngeal catarrh. There being stenosis of the nostrils, the discharges were either expectorated or swallowed.

Case I.—G. G. (sent to me by Dr. D. Monro, Ontario, Canada.), aged 29 years, of Ontario, Canada. Single. Has had catarrh for many years. Formerly had much blowing of the nose, but now has so much stenosis of anterior nares that the discharges
are now expectorated; respires through the nose very little; voice in consequence quite nasal in tone; slight curve in the cartilaginous septum to the left; soft tissue over both inferior turbinated bones hypertrophied, the right one the largest as it fills up the curve in the septum.

Rhinoscopic appearance reveals enlargement of tissues on inferior turbinated bones, and also on each side of the septum. Inferior meatus nearly filled up by the hypertrophy.

Uvula very much hypertrophied and elongated; slightly deaf in both ears; pharyngo-eustachian opening much enlarged, with two small scabs over the last places cauterized, some nasal secretion, as the small scabs kept up an irritation in the nose; but as they heal the secretion becomes normal.

**LOSS OF SINGING VOICE FROM HYPERTROPHY OF ERECTILE TISSUE ON INFERIOR TURBINATED BONES.**

CASE II.—The following letter from the family physician gives the history, diagnosis and result of treatment, in the next case, of a prominent singer:


To D. H. Goodwillie, M.D.:

My dear Doctor—On the 26th of October, 1879, I sent you for treatment Mrs. A. B. et al. 26. The following is the history of the case. The patient was one of our best contralto singers; when suddenly she noticed a difficulty in emitting her head notes and little by little lost her singing voice almost completely.

Being the family physician I was consulted and after a laryngoscopic and rhinoscopic ex
amination, I was convinced that all the trouble was in the nasal cavities. I found on each side a thickening of the mucous membrane and hypertrophy of the soft tissues over the turbinate bones. The occlusion was nearly complete, having very little respiration through the nose. Your diagnosis confirmed mine and putting the patient in your hands you began the treatment that terminated so successfully.

Now I am happy to state that the result was very gratifying to my patient.

After the first operation her voice began to return and after the last operation she was able to appear in public on April 22, 1880, and sang four times with encores.

Receive, my dear doctor, with my congratulations, for such a success, the expression of kindest regards.

Yours very truly,
L. DE BREMONT, M.D.

From the shock from the loss of her voice she had become anemic and suffered from indigestion, constipation, headaches and insomnia.

TREATMENT.—Prohibited the use of wine, tea, or coffee, and recommended milk diet with farinaceous food. The milk to be taken warm, a teacupful at a time with a very little lime water. Give also gentian and tinct. of chlo. of iron. The body to be sponged night and morning with salt water and bay rum.

Flannel to be worn next the skin which she had never done before.

The hypertrophy was removed by means of the cautery in three operations under N. O. She now looks hale and hearty; no indigestion or constipation; has gained more than twenty lbs in weight; no insomnia, and voice regaining its strength after having lost it for some three years.

(In the wax model of this case you can see just within the vestibule the passage nearly closed up. It looks very much like a half of a red cherry. The other model exhibits the nostril after the operation for its removal.)

HYPERTROPHY OF TISSUE ON INFERIOR TURBINATED BONES WITH DEVIATION OF CARTILAGINOUS SEPTUM.

CASE III.—S. M. of Alabama, sent me by Dr. L. B. Bangs. In early life was troubled with running from the nose, but in adult age the anterior nares became partially closed, then expectoration increased. Went abroad and in Germany received treatment by cauterizing the enlarged pharyngeal follicles without any benefit. On examination found lungs healthy, a severe naso-pharyngeal catarrh giving him great trouble. Thick mucus running down on each side of the vertebral ridge from the nares. Pharynx granular with patches of a dry smooth surface where the follicles had suppurred or been destroyed by the cautery.

Cartilaginous nasal septum deviated into right nostril with hypertrophy of soft tissue on both inferior turbinate bones; very imperfect respiration. Smelling much impaired.

TREATMENT.—Removed oval section ½ by ½ inch of bend of septum with the excising nasal forceps; this operation opened up right nostril and improved his respiration.

Six months after this first operation removed small pedunculated polypus from right nostril posterior to the section; also by the cautery the hypertrophy on left inferior turbinate bone without an anesthetic.

Two months after his return home he writes that his respiration is good, and catarrhal discharge very little, and gradually decreasing.

DEViated SEPTUM.

CASE IV.—Dr. Herman Knapp sends me I. E. C., a law student with the cartilaginous nasal septum deviated into the left nostril preventing respiration, causing catarrhal trouble, with some defect in his sight.

On Oct. 22d, 1879, in the presence of Drs. Knapp, Farnham, Robinson and Bozeman, removed with the excising nasal forceps the bent part of the septum. This restored respiration and gave him great relief. Fig. 8 & 9.

BEFORE.

Fig. 8.

DISLOCATION OF CARTILAGINOUS SEPTUM.*

CASE V.—E. G. was referred to me by Dr. C. R. Agnew, who has been suffering for many years with catarrh. While it was

AFTER.

Fig. 9.

at first nasal, he was in the habit of placing his right thumb against the right side of his nose when he blew it (the catarrh being in a

* Canada Medical Record, Dec. '79.
great measure from the left nostril, dislocated the septum and nasal spine into the vestibule of the left nostril, and protruded outside, pushing to the right the columnna nasi. Respiration was entirely prevented from the left nostril, and not perfect in the right. Has deafness of left ear.

Treatment consisted in making an incision over the protruding end of the septum and spine, denuding the soft parts, pushing them back and amputating the septum with one of the excising nasal forceps. Soft parts were brought together again and united by sutures. This restored respiration, the good effect of which was seen by great improvement in catarrh and also in the hearing.

HYPERTRROPHY OF ERECTILE TISSUE AND DEVIATION, WITH EXOSTOSIS OF NASAL SEPTUM.

CASE VI.—F. P. from Westchester Co., N. Y., has had nasal catarrh for many years. Now air and the mucous discharge does not pass freely out the anterior nares in consequence of an enlargement on the inferior turbinated bones, and a deviation with exostosis of the septum, into the inferior meatus. Has also chronic follicular pharyngitis. He suffers now from post-nasal trouble. Snores in his sleep from imperfect nasal respiration. Takes cold readily, and has sore throat. Hawks and expectorates to relieve himself of the naso-pharyngeal discharge.

Operated under an anesthetic, and removed hypertrophied erectile tissue with the galvano-cautery. The deviation and exostosis was removed by means of the revolving knives (Fig. 2) and surgical engine. The inferior meatus is now quite free, and he breathes, sleeps and eats well, or, as he expresses it, has a "wonderful amount of comfort now."

The following gentlemen were present at the operation: Drs. F. N. Otis, J. C. Hutchinson, H. P. Farnham, and E. D. Hudson, Jr.

160 West 34th street.
MALTINE.
Maltine in Phthisis.

BY WM. PORTER, A.M., M.D., St. Louis.

Phthisis is pre-eminently a wasting disease, and by exalting failing nutrition, cod-liver oil being little more than a given food, a great advance was made in therapeutics. It has been found, however, that the oil does not in many cases meet the indications; for not only is nourishment needed, but the digestive power is so reduced that but little use is made of the food that is taken. Hence, a demand both for nutritious material and also for something which will aid food suitable for assimilation. The clinical starting-point in the history of the greater number of cases of phthisis is mal-nutrition, and when that is guarded against, much is accomplished.

After full trial of the different oils, and extract of malt preparations in both hospital and private practice, I find Maltine most applicable to the largest number of patients, and superior to any other remedy of its class. Theoretically we would expect this preparation, which has become practically official, to be of great value in chronic conditions of waste and mal-nutrition, especially as exemplified in phthisis. Being rich in diastase, albuminoids and phosphates, according to careful analysis, it aids in digesting farinaceous food, while in itself it is a brain, nerve and muscle producer.

In practice, this hypothesis is sustained. A female patient at St. Luke's Hospital, aged 35, with phthisis, signs of deposit in the left upper lobe, losing flesh for six months, poor appetite and night sweats, began taking Maltine March 13th, 1880. She now weighs 121 lbs., eats well, no night sweats and the evidences of local disease are much less marked.

Another case of phthisis: A gentleman from Alabama, with all the physical signs of phthisis, rapidly losing health and strength. His was the remarkable gain of 10 lbs. from six weeks' use of Maltine.

Seven pounds increase in as many weeks is the record of the third patient, a lady of 41 years, who has had no other medication than the Maltine. In these and other cases the increase in strength and mental vigor is in proportion to the gain in weight.

These instances are sufficient for illustration, and are duplicated many times in the experience of physicians everywhere. There is a universal reluctance always to testify to results from medicinal preparations, but when, as in this case, the composition is fully known, and the profession invited to investigate the manner of preparing it, there is no reason why the remedy should not receive general approbation, provided it be worthy.—Quarterly Epitome of Practical Medicine and Surgery, a supplement to Barthelemy's Retrospect.

LIST OF MALTINE PREPARATIONS.

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<td>MALTINE with Cod Liver Oil and Phosphorus.</td>
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