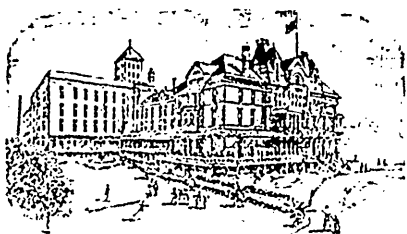


FISTULÆ OF THE FRONTAL SINUS.
 —Raphael Bois (*Arch. Gen. de Med.*) has collected thirty-six cases of this affection, when he deduces the following conclusions: Fistulæ of the frontal sinus are not rare, and can be divided into traumatic, inflammatory, and post-operative. They form the almost inevitable termination of certain lesions of the sinus, especially trauma, empyema, and cysts. The cause of their persistence depends on two factors, the cavity from which they lead having rigid walls, and at the same time communicating with the nasal fossæ. There are a certain number of signs which, taken together, allow us to diagnose that a fistula leads into the frontal sinus, but no one of them is pathognomonic when taken alone. The sign which has been held to be most conclusive, the passage of air by the fistula, must be extremely rare, as it is not re-

corded in one of the accounts mentioned. The diagnosis is not always easy, and the history, together with the results of direct observation, catheterization, and the examination of sequestra, must be taken into account to avoid mistakes, particularly that of confusion with orbital periostitis. Only one treatment, that suggested by the pathology, is efficacious in the cure of these fistulæ, and this consists in the complete scraping out of the walls of the sinus in its whole extent as shown by the operation. Fronto-nasal drainage is also essential to success, and the wound may then be expected to heal by the union of the soft parts by first intention.—*British Medical Journal.*

Doctor—"Are you feeling very ill?
 Let me see your tongue, please."
 Patient—"It's no use, doctor; no
 tongue can tell how bad I feel."

APPROVED SANITARIUM.



HEALTH AND REST THE ALMA ALMA, MICHIGAN.

SOLID BRICK BUILDING.

An admirably equipped institution for the reception of chronic, febrile and convalescent patients sent by their physicians for treatment. Scientific Hydrotherapeutics, Valuable Mineral Waters, Electricity, Massage, Gymnastics, enjoyable surroundings, an unsurpassed cuisine, with constant observation and direction of experienced physicians.
 Treated nurses are furnished. No expense has been spared to make this institution strictly first-class in every particular, and exactly as represented. Air of equable temperature and free from malaria. Special discount to physicians and their families.

Consulting Physicians and Surgeons.

DOCTORS.

GENERAL DISEASE.

WM. E. QUINE	-	Chicago
I. N. DANFORTH	-	Chicago
FRANK BILLINGS	-	Chicago
E. L. SHURLY	-	Detroit
G. H. FUERBRINGER	-	Saginaw
J. B. GRISWOLD	-	Grand Rapids

SURGERY.

JOHN B. HAMILTON	-	Chicago
D. W. GRAHAM	-	Chicago
THEODORE A. MCGRAW	-	Detroit
G. K. JOHNSON	-	Grand Rapids

GYNÆCOLOGY.

JAMES H. ETHERIDGE	-	Chicago
HENRY T. BYFORD	-	Chicago
H. W. LONGYEAR	-	Detroit
EUGENE BOISE	-	Grand Rapids

NERVOUS DISEASE.

H. M. LYMAN	-	Chicago
D. R. BROWER	-	Chicago
RICHARD DEWEY	-	Chicago
W. J. HERDMAN	-	Ann Arbor

EYE AND EAR.

BOERNE BETTMAN	-	Chicago
----------------	---	---------

NOSE AND THROAT.

E. FLETCHER INGALS	-	Chicago
--------------------	---	---------

PATHOLOGY.

HEENEAGE GIBBS	-	Ann Arbor
----------------	---	-----------

ELMORE S. PETTYJOHN, M.D.,

Medical Superintendent.

An illustrated booklet mailed free.

The ALMA SANITARIUM CO., Alma, Mich.