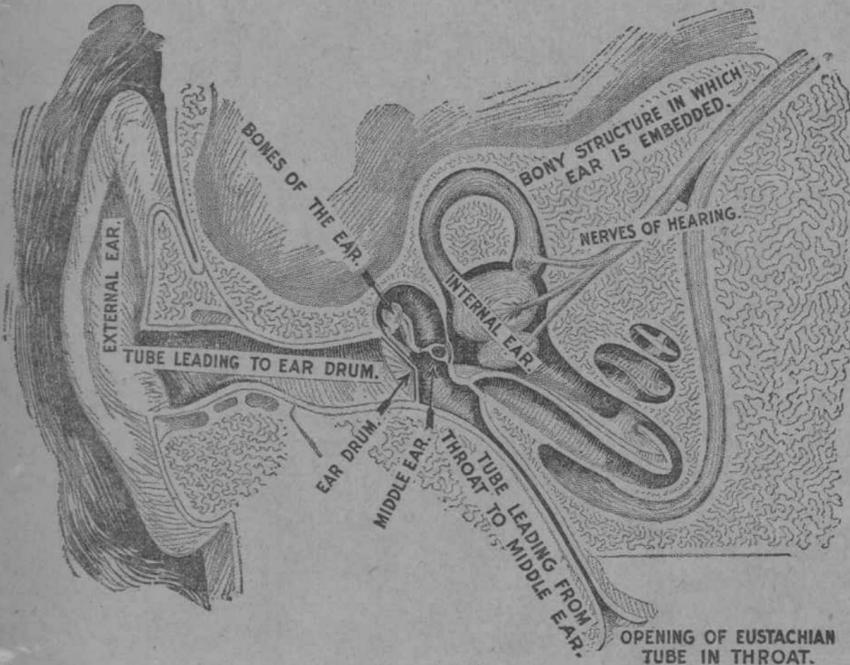


RINGING NOISES ARE TO DEAFNESS AS THE CRIES OF SEA BIRDS TO THE STORM.

They Warn the Patient of Danger Threatening the Hearing.

Doctor Copeland Describes More Minutely the Occurrences in the Eustachian Tubes That Cause Tinnitus Aurium--He Also Shows That as the Presence of Ringing Noises Threatens Deafness, So Their Disappearance Under Proper Treatment Is Promise of the Returning Sense of Sound.



It was shown in a former article entitled "Those Ringing Noises Explained" how head noises, buzzing, ringing and hissing sounds heard as though they were created within the ear passages, were actually due to the imprisonment of sounds within the ear tubes themselves, sounds that had entered the ear channel and after having performed their part by making their impression on the nerves could not escape; sounds that coming one on top of another all finally became mixed and jumbled into a confused roar, or else settled down to a constant hiss or ringing, or some other form of annoying sound.

The Passages to the Ear.

It has been shown that to have perfect hearing there must be a free passage containing air leading from the outside of the head down to the ear drum, and also another free passage containing air to conduct the waves of sound away from the ear. The tubes which conduct sounds from the ear, I have shown to be the eustachian tubes, leading as they do from behind the ear drum down to the throat. Now, I want to make it very clear that nearly all cases of ringing noises are due to some interference with these channels or tubes leading from the drum to the throat. I want to impress upon you that any stoppage or closing up or swelling or disease of any sort that results in partial or complete closing of these tubes is the great cause of ringing in the ears.

Noises Without Deafness.

I am also desirous of having you understand that even a slight blocking of these tubes frequently brings on head noises, and that such a blocking or stoppage of the tubes is sure in the end to result in loss of hearing. Still I have known a moderate degree of closure of these tubes to produce head noises without any marked loss of hearing. I know that where only one tube is choked up that the head noises will frequently be noticed a long time before there is any loss of hearing observed. The reason this is so is because the ear that is not impaired does its work so well that persons often overlook the loss of hearing in the affected ear. I want to say that ringing noises, or sounds imprisoned within the head, indicate a condition that has already resulted in impaired hearing or they show that the hearing is going to fall within a short time. In other words, ringing noises are forerunners of lost hearing, harbingers often of total deafness.

Signs of the Sea Bird.

Head noises stand in relation to lost hearing fortelling impairment of the functions of the ear, as the cries of sea birds stand in relation to an impending storm.

When head noises are present, their increase or decrease tells the trained doctor the condition of the ear and whether his treatment is working as it should, or whether a change must be made.

As the presence of ringing in the ears ushers in deafness, so its disappearance often indicates the passing away of the condition that causes the deafness.

What Cure of Noises Promises.

Many persons under treatment have noticed that the sounds in their heads cease a little time before the sense of hearing returns. One thing I have learned to have absolute confidence in during the treatment of ear troubles, namely, that whenever the treatment has gained an influence over the head noises, be that influence ever so small, if it but diminishes the sounds a trifle, if it changes the character of the sounds in any way, it gives me hope, for I have found it to be almost a certain sign that the restoration of the hearing or at least a marked improvement in the hearing will take place within a reasonable length of time.

Signs of the Frozen Pipe.

In getting rid of head noises the process resembles the thawing of a frozen water pipe; a pipe with an icy plug in it having heat applied to it causes the ice to relax and the plug to loosen, and while the current of water may not pass freely at first it is shown that the proper course has been pursued, for now a few drops will escape at the stopcock, and the heat need only be applied more thoroughly when the plug will disappear entirely and the water flow freely once more. So it is in the treatment of head noises. First the sounds will change in character; next they will disappear, and after this when the treatment has been more thoroughly applied the restoration of the hearing will take place.

W. H. COPELAND.

TOTALLY DEAF FROM INFANCY.
John F. Gleason, 235 Center street, Trenton, N. J.: "I had been totally deaf from infancy. I can hear again clearly and distinctly."

VERY DEAF SIX YEARS.
Nathaniel Roe, 401 South 2nd street, Brooklyn, E. D.: "For about six years I was practically stone deaf. Now I can hear a whisper distinctly."

DEAF TWENTY YEARS.
P. J. Clancy, 228 East 80th street, city: "I had been deaf for twenty years. My hearing has been perfectly restored."

COULDN'T HEAR A WATCH.
William H. Ball, 48 Central ave., East Newark, N. J.: "I could not hear a watch tick when pressed against either ear. My hearing is restored."

DEAF THIRTY YEARS.
Richard Rusk, Westchester, N. Y.: "My right ear was totally deaf. I could hear little with my left ear. I had been deaf thirty years. My hearing has been completely restored."

DEAF FOR TWENTY-THREE YEARS.
Christian Heinrich, 1655 Broadway,oklyn: "I was totally deaf in my left ear for twenty-three years. My right ear had become nearly as bad. I hear again perfectly."

COULDN'T HEAR A WATCH TICK.
B. E. Ward, 439 Canal street, city: "I could not hear a clock tick in the same room or a watch held close to my ear. Now I can hear both distinctly."

HAD TO READ THE LIPS.
Miss Emily Harrington, 305 East 7th street, city, aged 60 years: "I could understand conversation only by lip reading. Now I can clearly hear ordinary conversation."

FATHER AND SON HEAR AGAIN.
Matthias Klein, 524 Fulton street, Jamaica, L. I., aged 56 years: "My son, Peter J. Klein, has been cured of deafness, caused by scarlet fever, of eighteen years' standing. I also was very deaf and my hearing has been as completely restored as that of my son."

DEAF TWENTY YEARS.
John Richter, 150 Saratoga ave., Brooklyn, aged 66 years: "I had been almost totally deaf for twenty years. I hear again distinctly."

COULDN'T HEAR CONVERSATION.
Alva Jameson, 343 13th street, South Brooklyn. His mother says: "Alva was so deaf that he could not understand conversation. His hearing is now perfect."

DEAF FOR TEN YEARS.
Mrs. Elizabeth Jansen, 2108 Fulton street, Brooklyn: "I was deaf in both ears for ten years, much of the time totally deaf. My hearing has been restored."

DEAF FROM SCARLET FEVER.
Mrs. Mary Metzger, 155 Harman street, Brooklyn, E. D.: "My right ear had been totally deaf for twenty-three years. My deafness was caused by scarlet fever. My left ear at times was very deaf also. I hear again distinctly."

DEAF FROM MENINGITIS.
Miss Lena Keller, 197 East 4th street, city: "I was almost totally deaf for six years from meningitis. I hear again clearly."

HEARING RESTORED AT 73.
Hermann Von Dreile, 208 9th street, Hoboken, N. J., aged 73: "I had been deaf ten years. My hearing is now perfect."

COULDN'T HEAR A WORD NOT SHOUTED.
John E. Murphy, Haverstraw, N. Y.: "People had to shout at me to make me hear anything. I had been deaf for four years. I hear perfectly now."

DEAF EIGHTEEN YEARS.
W. C. Peck, 122 Washington place, city: "I was very deaf for eighteen years. I hear again perfectly."

VERY DEAF THIRTY YEARS.
Robert K. Hardenastle, 59 Ralph Avenue, Brooklyn: "I had been very deaf for thirty years. I hear again perfectly."

A SEXTON'S HEARING RESTORED.
Chas. W. Clark, 903 Myrtle avenue, Brooklyn, sexton of the East Congregational Church: "I had been deaf twenty years. I was totally deaf in my left ear. My hearing is perfect."

HE WAS STONE DEAF.
William Fox, 190 Spring Street, City: "I was practically stone deaf. I can hear again distinctly."

AN EAR TOTALLY DEAF CURED.
George H. Rymers, 131 Varick Street, City: "I was totally deaf in my left ear. It hears again distinctly."

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