EXPERIMENTAL STUDY ON THE SURFACE ANESTHETIC FOR DRUM MEMBRANE DISSOLVED IN PROPYLENE GLYCOL

The 4th. Report: Clinical Experimental Study on New
Anesthetic Solutions of Drum Membrane

By

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The anesthetic action on the drum membranes of Tymkol-H and Tymkol-S prepared according to the results of experimental study on external auditory canals was examined in 100 patients.

The results obtained were as follows.

1. Anesthesia was found always sufficient in paracentesis done in infants and children, but not always so in adults. The anesthetic action of Tymkol-H for the drum membrane, however, was much stronger than other anesthetics conventionally in use in the past.

2. After anesthetizing the tympanic membrane, with Tymkol-H, Tymkol-S was applied intratympanally without pain and then paracentesis was carried out painless in one hundred cases excepting a few.

3. It seemed that the intratympanic application of Tymkol-S showed not only a powerful anesthesia of drum membrane but a curative significance to otitis and tympanogenous tinnitus.

4. It was macroscopically observed that the tissues of the drum membrane was not injured by Tymkol-H as well as Tymkol-S in any of the 100 cases.

FUNDAMENTAL STUDIES ON THE PENICILLIN TREATMENT OF OTITIS MEDIA

By

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By observing collectively the relations among the Concentration of penicillin in blood, that in otorrhoea and the number of bacteria in it, when various kinds of penicillins were dosed by intramuscular injection to cases of otitis media, the following results were obtained.