Topic of the lecture: chronic purulent inflammation of the middle ear. Sanating ear surgeries. Tympanoplasty.
Significance

- Causes hearing loss. In 18% of patients with hearing impairment, the pathology is a consequence of chronic purulent otitis media.
- Possible intracranial complications, labyrinthitis, facial nerve paresis.
**Specific features of otomycosis**

- Fungi are usually conditional pathogenic.
- Otomycosis – paradiabetic disease.
- Repress bacterial flora in superinfections. Only antifungal therapy must be provided.
- Have tendency to relapse. Treatment course must be repeated.
Essential symptoms:

- Purulent effusion from the ear.
- Permanent perforation of the ear drum.
- Hearing loss, noise in the affected ear.
Forms of the disease

- Mesotympanitis.
- Epitympanitis.
Mesotympanitis
Mesotympanitis
Audiogram
conductive type of hearing loss
Epitympanitis
Epitympanitis
Theories of cholesteatoma formation

- Metaplastic.
- Ingrowth of epidermis.
Mechanism of bone destruction by cholesteatoma

- Pressure.
- Excretion of bone destructing fements (causing bone lysis).
X-ray of mastoid process
X-ray of mastoid process
Audiogram
Mixed type of hearing loss
Audiogram

Perceptive type of hearing loss
I. Examination: x-ray of the mastoid bone, audiometry, consulting neurologist and ophthalmologist.

II. Common treatment.

III. Sanation of the nose and nasopharynx.

IV. Local sanating treatment:

1\textsuperscript{st} stage – mechanical evacuation of pus from the ear;

2\textsuperscript{nd} stage – infusion of medications into tympanic cavity.
Washing epitympanic recess
Indications for radical operation

1. Caries of middle ear cavity walls.
2. Cholesteatoma.
3. Chronic mastoiditis.
4. Paresis of facial nerve.
Radical surgery
5 types of tympanoplasty by Wulstein

- Myringoplasty.
- Large tympanic cavity.
- Small tympanic cavity - columella.
- Reduced tympanic cavity
- Fenestration of horizontal semicircular canal.
I type of tympanoplasty
Il type of tympanoplasty
III type of tympanoplasty
IV type of tympanoplasty
V type of tympanoplasty
Transplants

- Dura mater.
- Buccal mucous membrane.
- Skin.
- Cornea.
- Fascia.
Contraindications for tympanoplasty

- Obturation of auditory tube.
- Significant disfunction of soundperceptive apparatus.