Conclusions
Paediatric immature immune system plays a major role in disease implication and modality.
ICW technique was preferred as in this way, approximately normal long-term otologic conditions can be established.
The usage of multiple antibiotics in treatment proves the reality of pathogen drug-resistance.
Patients vaccinated against *St. pneumoniae* were reported free of this antigen.
The standardization of CT imaging with contrast medium has helped in revealing the occurrence of other concomitant complications like sigmoid sinus thrombosis, leading to its effective treatment (antithrombotic medication with a minimum of 3mg usage).

Aim of study
The aim of our study review the medical records of 22 operated patients, regarding age, gender, history of pre-admission middle ear infection, vaccination, clinical diagnosis, surgical, microbiological and radiological findings as well as final outcome.

Material
Retrospective chart review study of 22 patients admitted to Pediatric ENT Department of MFCU/NICD. The period comprises of January 2011 to January 2016.

Results
The ratio of extracranial (ECC) to intracranial complications (ICC) was 12:1. Multiple complications may present in the same patient upon admission.
68% of patients were admitted with the diagnosis of AOM while 27% presented with AOM as an exacerbation of COM.
There were no mortalities and only one patient presented with post surgical infection.
Male to female ratio was 3:1 and the most frequently encountered microorganism was *St. aureus* and *Str. pneumoniae* 5 phase.
The vast majority of children followed the issued guidelines for vaccination. Children vacc. against *Str. pneu* where not infected with the bacterium.
91% of surgeries were according to Intact Canal Wall Mastoidectomy technique.
CT and MRI with contrast where standardly used.

Our future goals:
- the education of general practitioners and paediatricians so as they can more effectively recognise signs and sy. of ICC and ECC of AOM as first contact doctors.
- establish a strong belief of the society on vaccine’s effectiveness.