

Results: Post-operatively, both patients recovered well with no complications and audiometry showed no conductive hearing loss and no worsening of bone conduction. Both patients remain under long-term follow-up.

Conclusion: EECC can present with minimal clinical findings and hearing loss but can be very extensive which could lead to serious complications if left undetected for a long time. CT scanning is extremely helpful in assessing the extent of the disease and for assisting in pre-operative planning.

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Role of mastoid pneumatisation in paediatric cholesteatoma

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Learning Objectives: Study evaluates the factor of mastoid pneumatisation w.r.t paediatric cholesteatoma in accordance with "Evidence based medicine". Pneumatisation of mastoid in children was found to be associated with extensive and recurrent cholesteatoma in our study.

Objectives: To study the correlation between mastoid pneumatisation and cholesteatoma in paediatric patients.

Materials & Methods: In a retrospective study design, the medical records of all the paediatric patients which underwent mastoid surgery for chronic suppurative otitis media-cholesteatoma disease were examined in the specific time period of: Jan 2010 to Jan 2016. The surgical pathology was correlated with the CT scan of the mastoid. Further, recurrence of cholesteatoma was also studied. Data was tabulated and statistically analysed.

Results: A total of 56 paediatric patients were evaluated, out of which 6 had sclerotic mastoid, 17 had diploic mastoid and 33 had pneumatic mastoid. Statistical evaluation of this data was found to be significant thereby implying that cholesteatoma development is more in pneumatic mastoid. Further sinus tympani and facial recess involvement was also significantly more in a pneumatised mastoid. Evaluation of our records further revealed that recurrence of paediatric cholesteatoma is also more in pneumatic mastoid.

Conclusions: It is thus hypothesised that a well pneumatised mastoid may lead to cholesteatoma. In addition, cholesteatoma is more extensive and might recur in a pneumatised mastoid in children.

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Role of "Paediatric Tympanoplasty" in modern otology

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Learning Objectives: Paediatric tympanoplasty is a controversial subject with no consensus among otologists regarding the minimum age for the surgery. Moreover the subject does not find mention in standard text. There is a general tendency across the world to delay the said surgery on account of various factors like: eustachian tube maturity, size and site of perforation & age etc. I would be examining the concept of "Paediatric Tympanoplasty" in accordance with evidence based medicine: two prospective studies carried out at LHMC & Associated Hospitals, New Delhi. Our results indicate that the graft uptake in children is equal to adults and addresses the issue of deafness in children.

Objective: To evaluate the success rate of tympanoplasty type I in a select pediatric age group of 5 to 8 years, and thereby analyse the factors suggested to influence the outcome of the said surgery.

Study Design: A prospective study with control. 60 patients of chronic suppurative otitis media-inactive mucosal disease of either sex were divided into two groups of 30 each; Group A [paediatrics, 5–8years] and Group B [adults, >14 years]. All the patients underwent tympanoplasty type I by underlay technique using temporalis fascia graft. Pre-operative tympanometric volume was recorded in all the cases and analysed with the graft uptake results post-operatively. The data pertaining to surgical and audiological success was tabulated and statistically analysed.

Results: We recorded an impressive surgical success rate of 87% in Group A compared to a 90% success rate for group B. Also, an audiological success of 69% and 78% was recorded in the pediatric and adult group, respectively. Statistical analysis of the data revealed that age, status of the contralateral ear (taken as a measure of function of the Eustachian tube) and size of the perforation are not significant factors which might influence the outcome of paediatric tympanoplasty, but the site of the perforation was found to be a significant factor for the said surgery with anterior perforations recording a poor success rate. On the basis of mean tympanometric volume of 1.6cm³ the patients were divided into two groups: in Group A (tympanometric volume <1.6cm³), and group B (tympanometric volume >1.6cm³). A graft uptake of 95% and 77% was recorded in Group A & B