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Effect of adenoidectomy in children in the management of paediatric Rhinosinusitis and associated diseases**Rohan Malla Baruah**

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Objectives: The effectiveness of adenoidectomy in the management of pediatric sinusitis is still a controversial issue. The size of the adenoid and associated diseases are the factors for consideration. The adenoid has been studied and is proved to be a probable source of infection for the paranasal sinus. The purpose of this study is to evaluate the efficacy of adenoidectomy in reducing the frequency of sinusitis in children.

Methods: A prospective study was done in pediatric patients with rhinosinusitis admitted in Dr.N.M.B.Baruah Nursing Home for adenoidectomy from June 2017 to June 2018. Pre-operative frequency of rhinosinusitis, underlying diseases and the diseases caused by the adenoid were recorded. The adenoid size was evaluated by lateral skull X-ray. The patients were followed after surgery and frequency of rhinosinusitis and associated diseases were compared with the pre-operative period.

Results: There were 50 patients with mean age of 5+/-2.8 years. 92% of the patients had obstructive sleep disorder and 88.2% had adenoid-nasopharyngeal ratio >0.7. There was a statistically significant reduction of episodes per year of rhinosinusitis and obstructive sleep disorder after surgery

Conclusions: Adenoidectomy was proved to be effective in the management of pediatric rhinosinusitis in this series. Adenoidectomy should be most beneficial as a surgical option before endoscopic sinus surgery (ESS), especially in younger children with obstructive symptoms.