

reflecting the singularity of each child, their families and the social context they come from. Many variables have been previously explored to try to determine the role of each of them in language outcomes. Nevertheless, most of the research performed on these topics is carried out in developed countries. Considering that sociodemographic and sociocultural aspects seem to play an important role in child development, it is important that more studies are conducted in developing countries.

**Objective:** To explore the characteristics related to better language outcomes in a sample of pediatric patients with prelingual deafness from a public cochlear implant program in southern Brazil.

**Methods:** Retrospective cohort study with children who underwent CI surgery between 2010 and 2020. Data was collected through of interviews and review of medical records. The language development assessment was performed using the MUSS, MAIS and IT-MAIS scales and its results were compared with the ones from a previous study so a Z-score could be calculated to determine if language outcomes were as expected for the time of experience with the CI. To explore association between Z-scores and patients characteristics (clinical, sociodemographic and sociocultural) we initially we used Pearson's correlations coefficient. This approach was followed by multivariable linear regression with stepwise forward selection.

**Results:** Of the 189 children implanted between 2010 and 2020, 129 were included in this study. The rate of loss to follow-up in the program was 31.7%. The mean age at first CI surgery was 40.5 ( $\pm 16.9$ ) months. Characteristics associated to better language outcomes such as reading habit, exposure to bilingualism and speech therapy were found for this sample.

**Conclusion:** Further analysis should be conducted to evaluate if the variables that were found in this study confirm their importance for language development in this population.

**Keywords:** Cochlear implant; Prelingual deafness; Language development disorders.

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### Relationship between unrehabilitated hearing impairment and the impact on speech recognition index

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**Objective:** Analyze the relationship among the inadequate rehabilitation of hearing loss and the influence over the word recognition score.

**Methods:** Evaluation of 102 patients separated into two groups – a group with regular use of hearing aids and a group with irregular use of them – to correlate the word recognition score between both groups.

**Results:** First group (regular use of hearing aids) showed a improve tendency of the score ( $p < 0.001$ ) when compared

to the audiometry of the moment of the rehabilitation and the last audiometry. In contrast, the second group showed a deterioration of the word recognition ( $p = 0.012$ ) between the audiometries.

**Conclusion:** There is an association between the inadequate use of hearing aids and the worsening of the word recognition score, influencing the speech comprehension. This could lead to social impairment and, consequently, social isolation, depressive symptoms and dementia.

**Keywords:** Hearing loss; Rehabilitation of the hearing loss; Dementia.

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### Impact of xylitol solution use after septoplasty associated with inferior turbinectomy

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Nasal septum deviation correction surgery (septoplasty) associated with reduced size of lower nasal conchas (inferior turbinectomy) are very common procedures due to the high number of patients suffering from nasal obstruction due to mechanical component by nasal septum deviation and hypertrophy of lower nasal conchas. Despite being a safe procedure, it generates a series of postoperative discomforts, with potential for complications, which can be minimized by the proper visualization of structures during surgery and by the commitment to therapeutic measures in the postoperative period. There are several medications available to try to minimize such discomforts, with nasal washing with well-established saline solution and always indicated for reduction of the factors mentioned above, since it leads to the cleansing of mucus, crusts and cellular debris, reducing the probability of formation of synechia and accelerating the healing of the nasal mucosa. Other measures and medications are indicated according to the own experience of each surgeon. The present study aims to evaluate the impact of the use of the increased xylitol solution for patients undergoing septoplasty and inferior turbinectomy, since there are few studies in the literature that directly assess the action of xylitol on the nasal mucosa as well as on the quality of life of the patient during postoperative recovery.

**Keywords:** Septoplasty; Turbinectomy; Xylitol; Postoperative; Complications

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