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Perceptual-auditory and acoustic characteristics of speech of individuals with dentofacial deformities

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Speech is one of the ways human beings use to communicate. It is a complex task and needs to be carried out in a coordinated, organized and planned manner. Some factors may impair speech, such as maxillomandibular disproportions, found in individuals with dentofacial deformities (FDD). The speech changes found in individuals with FDD are related to the production of sounds that move the lips and tongue, such as fricative sounds. For a comprehensive evaluation of these changes or modifications, perceptual-auditory analysis evaluations and acoustic analysis were used to identify and understand the speech patterns of individuals with FDD. The analysis was performed in 28 subjects aged 16 to 50 years. It was verified that there are specific characteristics in the speech of individuals with FDD, which are associated to the structural variation of the vocal tract. The details of perceptual-auditory assessment along with acoustic analysis will be shown in selected cases. Also, the results regarding the peculiar speech characteristics of these individuals with FDD.