

Aerodynamics of Voice of Hearing Impaired

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The present study was conducted to find out the difference among the aerodynamic features in normal hearing subjects and that of the hearing-impaired subject. The parameter selected for this study were, (a) vital capacity, (b) peakflow, (c) maximum sustain duration, (d) vocal efficiency. In total there were 80 subjects taken for the study of which 40 were adult hearing-impaired 20 male and 20 female. The second set of population ie. next 40 subjects were normal hearing subjects, 20 males and 20 females.

Aerophone II vocal function analyser was used for the data collection and analysis. Aerophone II is computer based instrument which evaluates the aerodynamic features.

The conclusion drawn following the study are:

The hearing-impaired subjects aerodynamic features were found to be significantly different from the normal subjects. Thus, this study implies that auditory feedback plays a role in self monitoring of aerodynamic features of individual. Attempts should be made by the speech language pathologist to correct the aerodynamic feature which will help in better intelligible speech of hearing-impaired population.