

significantly higher average nasal pressure readings were obtained for all those items except /aaa/. The mean nasal pressure reading of the cleft palate group for vowels /aaa/, /iii/ and /uuu/ were 0.0013, 0.0573 and 0.0720 cm., respective and for syllables /papapa/, /tatata/, /fafafa/, /t^hat^hat^hea/ and /sasasa/ were 0.3820, 0.3093, 0.3520, 0.4200 and 0.7186 cm. . For phrases and sentences, the cleft palate speakers had significantly higher average nasal pressure reading than normal group. The intranasal pressure in test-retest conditions were not significantly different and a high correlation between these two conditions were obtained. When the nasal pressure reading of the vowels in cleft palate group were compared, it was found that /iii/ and /uuu/ were significantly higher than /aaa/. However, the difference between /iii/ and /uuu/ was not statistically significant. For syllable productions, the highest nasal pressure reading was observed on /sasasa/ while the rest of the syllables were not significantly different from each other. The results of this study suggested that nasal manometer could be used as a clinical tool for differentiating patient who had velopharyngeal insufficiency from normal.