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COMMUNICATION ABILITIES IN JORDANIAN SUBJECTS WITH MULTIPLE SCLEROSIS

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The subjects of the study were 19 female patients and 20 male patients with MS. The aim of this study was to evaluate the effect of : 1) perception of voice handicap and 2) the maximum expiratory and inspiratory pressure (MEP and MIP, respectively) on patients with multiple sclerosis (MS). The effect of voice on the patient's life was measured by Arabic version of Voice Handicap Index (VHI-Arab), and the maximum expiratory and inspiratory pressures were measured by a manometer (Fluke 717 30G, Germany). Descriptive results revealed that female VHI-Arab scores were as follows: (functional=6.74, physical= 7.26, emotional= 5, total= 19). As for males VHI-Arab scores were as follows: (functional= 9.75, physical= 8.35, emotional= 9.55, total= 27.65). MEP/MIP results were as follows: MEP (female= 37.73, male= 80.94), MIP (female= 53.53, male= 88.59).

The Multivariate Analysis of Variance revealed no significant differences between males and females in the VHI-Arab Scores. However, there was a significant difference between males and females in all MEP/MIP scores. On the Other hand, for both males and females the mean score was below the normal cutoff score (functional= 7.6, physical= 7.34, emotional= 3.71 total= 16.55) and below than normal cutoff score (female MEP= 111 ± 25 , female MIP = 79 ± 19 , male MEP= 192 ± 42 , male MIP= 117 ± 25). In the current study 42% female patients and 55% male patients had higher than normal VHI score, 100% female patients had below than normal MEP score and 73.6 below than normal MIP score, 100% male patients had below than normal MEP score and 50% below than normal MIP score . Female MS tend to have lower maximum expiratory and inspiratory pressure. The study concluded that MS patients, particularly females, need to undergo a rehabilitation program to increase their MEP/MIP scores and decrease their perception of voice handicap. The ultimate goal would be improving their communication abilities and improving their quality of life.