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Body Composition Analysis with Bioelectric Impedance Measurement in Neuromuscular Diseases

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BA was assessed in 207 adult patients (110 males, 97 females) with neuromuscular diseases, confirmed by clinical symptoms, electromyography, and muscle biopsy. The results were compared with those of 118 healthy controls (65 males, 53 females). Using multiple regression and correlation analysis for sex, age, height, and weight normal values with standard deviations (SD) were established for the control group. The median value of relative body fat [% of body weight] in male patients lay 3.8 SD (p < 0.001) (Mann-Whitney-U-test), in female patients 1.0 SD (p < 0.01) above that of controls, the median value of relative body water [% of body weight] in male patients 2.5 SD (p < 0.001), and in females 1.1 SD (p < 0.001) below that of the controls. 30.1% of the male and 21.4% of the female patients showed a minimal SD of 3.0 in percent body fat, compared with 7.7% of males and 1.9% of females in the control group. The deviations were highly correlated with the severity of muscle weakness.

In conclusion, BA seems to be a very simple and fast, but not very sensitive method for assessing the degree of muscle lipomatisis in generalized neuromuscular diseases.