Clinical Subsets of Inclusion Body Myositis (P9-8.004)

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Info & Disclosures

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Abstract

Objective: To show clinical subsets of patients with IBM by an unsupervised hierarchical analysis using clinical variables.

Background: The predominance of dysphagia as well as the infrequent muscle involvement in patients with IBM caused us to guestion the homogeneity of the disease.

Design/Methods: Forty-five clinico-pathological defined IBM patients were included. Standard 3-T MRI examinations for the thigh or upper arms were conducted during diagnosis. The intramuscular adipose tissue (IntraMAT) of fatty infiltration on T1-weighted MR images and intramuscular edema-like changes (IntraMEC) on STIR images were evaluated.

Results: The unsupervised hierarchical analysis showed three clusters within the patients. One subgroup (n = 18; proximal arm type) corresponded to patients with higher IntraMAT content of proximal arm muscles; supraspinatus (32.7 ± 4.3%, p < 0.01), deltoid (28.5 ± 4.4%, p < 0.01), infraspinatus (28.6 \pm 3.9%, p < 0.001), subscapularis (37.4 \pm 4.7%, p < 0.01), biceps (31.0 \pm 3.5%, p < 0.001), and triceps (47.8 \pm 5.1%, p < 0.001). The second subgroup (n = 11; upper leg type) corresponded to patients involving IntraMAT content mainly in quadriceps muscles. The third subgroup (n = 16; dysphagic type) corresponded to patients with dysphagia having cricopharyngeal bar (100%, p < 0.001), high SDQ scores $(16.8 \pm 2.3, p < 0.001)$, less IntraMAT content of rectus femoris $(1.4 \pm 0.7\%, p < 0.01)$, vastus lateralis (23.5 \pm 6.6%, p < 0.05), vastus intermedius (13.9 \pm 4.7%, p < 0.05), vastus medialis

 $(9.5 \pm 3.7\%, p < 0.01)$, supraspinatus $(12.4 \pm 3.5\%, p < 0.01)$, deltoid $(5.5 \pm 1.4\%, p < 0.001)$, infraspinatus $(7.6 \pm 2.1\%, p < 0.001)$, subscapularis $(11.6 \pm 3.9\%, p < 0.01)$, biceps $(6.6 \pm 1.8\%, p < 0.001)$, and triceps $(13.1 \pm 3.0\%, p < 0.001)$.

Conclusions: This study indicates the clinical subsets of IBM to expand the knowledge of the heterogeneity of the patients.

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No comments have been published for this article.

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