

Sample Report

Barre-Lieou syndrome (M53.0)

- **FACIAL & PERIPHERAL SYMPATHETIC SKIN RESPONSE**

Autonomic reflex testing can be accomplished through sympathetic galvanic skin response studies. Skin galvanic impedance can be measured with infrared detectors and then mapped upon the skin. Results are both recorded and stored in digital format.

The patient was allowed to equilibrate for 15 minutes in a temperature and draft-controlled environment prior to the study. The study was performed three times. The patient was allowed to re-equilibrate for 15 minutes prior to repeating the study each time. All studies performed were resting and under cold stress.

While galvanic impedance asymmetries correlate to skin temperature, they do not necessarily describe dermatomes, myotomes or scleratomes. Localized pathology may represent either peripheral nerve irritation, sympathetic dysfunction syndromes, vasomotor headaches (Barre Lieou), inflammatory sinus conditions, peripheral vascular abnormalities, and myofascial conditions. Clinical correlation is necessary to make this determination.

This infrared sympathetic galvanic skin response study included evaluation of the anterior and lateral aspects of the face, the anterior neck strap muscles, the posterior shoulder girdle, medial aspects of the arm and forearm, and cervical paraspinals.

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Sympathetic Skin Response Findings: There is a sympathetic skin response asymmetry pattern over the platysma and nuchal ligament. The rest of the areas studied showed a symmetric profile.

Sympathetic Skin Response Impression: Compared to the surrounding areas localized SSR findings are present over the nuchal lig and platysma .

Clinical Impression: Sympathetic dysfunction should be considered. The right is warm compared to the contralateral side.