

原著

Spectral Analysis of Surface EMG to Evaluation of Extraocular Muscles (This paper is a tribute to the memory of Professor Jun Tsutsui)

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Abstract

A new designed surface electrode for electromyogram (EMG) of extraocular muscle and spectral analysis is described. Electrode was made of a pair of silver-silver chloride wires which were embedded in both end of sclero-corneal shell which was made by silicone rubber to bring them closer to the medial and lateral rectus muscles. Power spectrum was computed of interference EMG during static and acting conditions. EMG of extraocular muscles demonstrated higher power spectrum than those of facial muscles. These enable us to pick up electrical activity of extraocular muscles and distinguish them from that of facial muscles.
