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Posturography



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Synonyms

[Electronystagmography](#)

Definition

This is the clinical testing available to quantify postural control in the upright stance in the presence or absence of perturbations of conditions. Computerized dynamic posturography is a noninvasive assessment tool to quantify somatosensory, visual, and vestibular contributions to maintenance of posture and balance.

Current Knowledge

During computerized posturography, balance is challenged with visual and support surface stimuli. The response to these challenges can assist in identifying the pathway that is dysfunctional. During static posturography, the subject stands in the upright posture on a force plate. Sensors on the plate and subject record small changes in

position which are then downloaded to a computer. During the dynamic portion of evaluation, the computer causes the force plate to make horizontal and rotational perturbations and also provides visual simulation of movement. The addition of foam pads, both on and off force plates, allows a clinician to provide perturbations without movement of the force plate. Posturography is unique in that it measures balance directly, rather than just the somatosensory or visual components of postural responses.

Further Readings

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