



Impact of Pervasive Utilization of Portable Electronic Personal Digital Devices on Cervicothoracic Malalignment Syndrome

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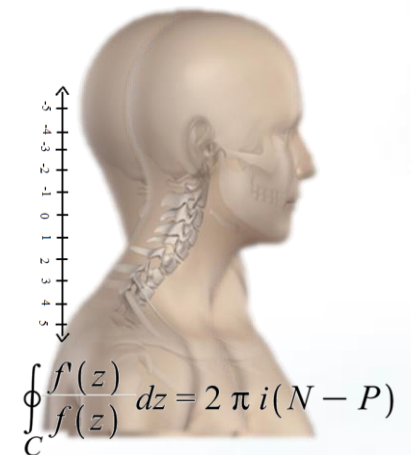
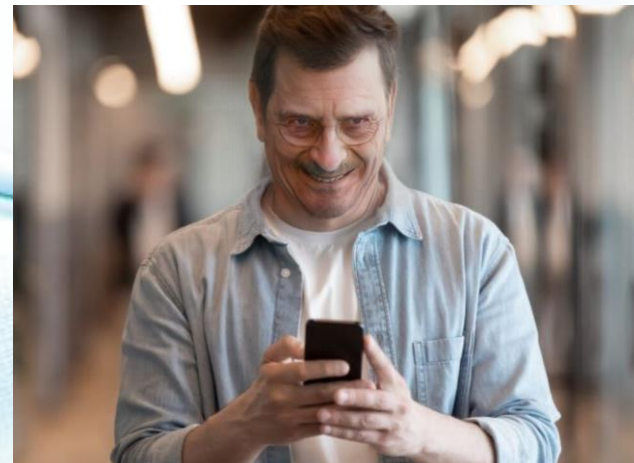
Introduction



This research explores the intricate biomechanical repercussions linked to the pervasive utilization of portable electronic personal digital devices (PEPDDs) in the context of cervicothoracic malalignment syndrome (CTMS).

Engagement with PEPDDs necessitates a sustained state of anterior craniovertebral malalignment, imposing notable adaptive changes upon the cervical spine. This chronic craniovertebral flexion sets in motion a complex cascade of mechanical adjustments throughout the musculoskeletal system. The resulting strain imposed upon the cervical region engenders a myriad of pathophysiological processes, encompassing heightened loading on intervertebral discs, alterations in spinal curvature, and perturbed patterns of muscular activation.

$$S(\omega) = \frac{\alpha g^2}{\omega^5} e^{[-0.74 \left\{ \frac{\omega U \omega^{19.5}}{g} \right\}^{-4}]} \\ = \frac{\alpha g^2}{\omega^5} \exp \left[-0.74 \left\{ \frac{\omega U \omega^{19.5}}{g} \right\}^{-4} \right]$$



Convince

Collaborate

Common Goal

Protecting our People: Addressing Challenges in the Field of Occupational Hygiene

Thank You

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