

Variability of Cervical Range of Motion Measurements in Normal Subjects/ Nabil Mahmoud Ismail. Supervisors; Prof. Dr. Mohsen El-Sayyad, Dr. Neveen Abd El-Latife: Basic Science department, Fac. of Phys. Ther., Cairo univ. (Egypt); Doctoral Thesis;2007. 146 pages

Abstract

The purposes of this study was to examine the intra-examiner and inter-examiner reproducibility of range of motion measurements, to obtain norm-referencing values of active ROM of cervical spine of Egyptian population in different age groups measured by CROM instrument, and to study the effect of age and gender on cervical ROM values. Three hundred and thirty normal subjects participated in this study. Thirty normal subjects participated in testing the inter-rater and intra-rater reliability of measurements. The remaining three hundred normal subjects were assigned into five equal groups according their ages The study revealed there was good to high reliability for all motions of cervical spine except left rotation, normal range of motion of cervical spine in healthy Egyptian population are different from those reported previously in other population, males have a greater cervical range of motion than females and normal cervical range of motion decrease with age. The level of significance for all tests was set as ($P \leq 0.05$).

Key Words: AROM, Anthropometry, Ergonomics, Cervical spine, Age, Gender, CROM