

Research on Chronic Diseases

A comparative study of sagittal spinalpelvic parameters between patients with adolescent idiopathic scoliosis and healthy controls

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Biography

Li xiaohe: Ph.D., professor, supervisor Inner Mongolia medical university.



of master's degree.Vice chairman and secretary general of Inner Mongolia anatomical society, standing director of Inner Mongolia digital translational medicine society, member of clinical anatomy branch of Chinese anatomical society, member of professional



Abstract

Statement of the Problem: This study aimed to investigate the sagittal spinal-pelvic morphological changes, as well as the relationship between pelvic anatomical changes and the spinal-pelvic plane in patients with adolescent idiopathic scoliosis (AIS), in order to provide guidelines for orthopedic surgery

Methods: X-ray data were collected for retrospective analysis from 30 patients diagnosed as AIS from April 2014 to November 2018, along with 30 normal adolescents as control. Pelvic parameters, including pelvic incidence (PI), pelvic tilt (PT), and sacral slope (SS), a spinal parameter, lumbar lordosis (LL), and anatomical parameters, including sacral width (SW) and femoral head- sacrum distance (FH-S), were measured.AIS affects some of the sagittal spinal-pelvic parameters and anatomical parameters. In AIS, there is a significant correlation between the spinal-pelvic parameters, and the anatomical parameter is significantly correlated with multiple spinal-pelvic parameters.

Publications

Computed tomography measurement of the bone matrix of vertebral pedicle and its clinical significance An anatomical study in a Chinese population of the position of the rib head for placing anterior vertebral

Digital Anatomical Measurement for Anterolateral Fixation of Middle and Lower Thoracic Vertebrae

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