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-
- [A-Z Journals](#)

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- [Home](#)
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- [Articles & Issues](#)
[Articles In press](#) [Current Issue](#) [Archive](#)
- [Guidelines](#)
- [Submit Manuscript](#)
- [Citations](#)
- [Open Access Policy](#)
- [Contact](#)

Annals of Biological Research

Abstract

[An Innovative Software Method for Measuring Lumbar Lordosis](#)

The aim of the present study was to determine the reliability and validity of software method (Auto CAD) in lumbar lordosis measurement. For this purpose, thirty healthy volunteers (mean age 22) participated in the present study. From all the participants, according to Cobb method, lumbar lateral radiography image (L1-L5) was taken and lumbar lordosis angle was measured on X-ray photographs by a physiotherapist. Afterward, their lumbar lordosis angles were measured, according to software and flexible ruler methods. The current study is accomplished in two parts: intra-tester and Inter-tester evaluation of reliability as well as validity of flexible ruler and Software Methods. Based on the Intraclass Correlation Coefficient (ICC) test, software Method (Auto CAD) reliability and Validity in measurement of lumbar lordosis was obtained 0.984 and 0.962 respectively. The present study indicated that Software Method (Auto CAD) was an innovative, precise, valid, and easy to employ method can be supplanted with costly and invasive methods such as radiology in evaluating lumbar lordosis.

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