

ABSTRAK

Latar belakang : Arcus longitudinal medial (ALM) merupakan lengkung kaki terbesar dan memiliki peranan penting secara klinis. Berbagai metode pengukuran yang telah digunakan oleh para ahli dalam penentuan bentuk lengkung longitudinal, diantaranya *Arch index* dan *Brody Brody Navicular drop test* telah terbukti valid dan dapat diandalkan dalam penentuan tinggi lengkung longitudinal medial.

Tujuan : Mengetahui perbedaan tinggi lengkung longitudinal medial yang diukur dengan *Arch index* dan *Brody Navicular drop test*?

Metode : Penelitian ini menggunakan jenis penelitian Analitik dengan desain *cross sectional*. Sampel penelitian ini berjumlah 54 responden, pengambilan sampel dengan tehnik *Simple Random Sampling*. Penelitian *Arch index* dengan menggunakan *Footprint* yang dikemukakan oleh Cavanagh dan Rodgers, *Brody Navicular drop test* mengukur secara langsung tinggi *os naviculare* dari permukaan lantai.

Hasil : Pada Penelitian ini digunakan uji statistika *Kolmogorov-Smirnov Z* dengan hasil nilai *p value*= 0,59 (>0,05) yang menunjukkan tidak terdapat perbedaan tinggi longitudinal medial yang diukur dengan *Arch index* dan *Brody Navicular drop test*.

Kesimpulan : Tidak Terdapat perbedaan tinggi longitudinal medial yang diukur dengan *Arch index* dan *Brody Navicular drop test*.

Kata Kunci : Lengkung Longitudinal medial, *Arch index*, *Brody Navicular drop test*.

ABSTRACT

Background : *The medial longitudinal arch (ALM) is the largest arch of the foot and has a clinically important role. Various measurement methods that have been used by experts in determining the shape of the longitudinal arch, including the Arch index and Brody Navicular drop test have proven valid and reliable in determining the height of the medial longitudinal arch.*

Objective: *To determine the difference in medial longitudinal arch height measured by Arch index and Brody Navicular drop test?*

Methods : *This study used Analytical research type with cross sectional design. The sample of this study amounted to 54 respondents, sampling with Simple Random Sampling technique. Assessment of the Arch index using the Footprint found by Cavanagh and Rodgers, the Brody Navicular drop test measures directly the height of the os naviculare from the floor surface.*

Results : *In this study, the Kolmogorov-Smirnov Z statistical test was used with the results of the p value = 0.59 (>0.05) which showed that there was no difference in medial longitudinal height as measured by the Arch index and Brody Navicular drop test.*

Conclusion : *There is no difference in medial longitudinal height measured by Arch index and Brody Navicular drop test.*

Keyword : *Medial Longitudinal Arch, Arch index, Brody Navicular drop test.*