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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : PROSIDING**

Judul Karya Ilmiah : Comparison of ratio loaded and unloaded foot area of flat foot and healthy foot in younger adults

Jumlah Penulis : 4 Orang

Status Pengusul : Penulis Pertama/ ~~Penulis Utama~~

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d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	8,50	8,00	8,25
Total = (100%)	27,50	27,00	27,25
Nilai Pengusul = (60% x 27,25) = 16,35			

Semarang, 14 Mei 2019

Reviewer 2



Rusnaldy, S.T., M.T., Ph.D.
NIP. 197005201999031002
Unit Kerja : T. Mesin FT UNDIP

Reviewer 1



Dr. Ojo Kurdi, S.T., M.T.
NIP. 197303171999031001
Unit kerja : Teknik Mesin FT UNDIP

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d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00		8,50
Total = (100%)	30,00		27,50
Nilai Pengusul = (60% x 27,50) = 16.50			

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3. Kelengkapan unsur dan kualitas terbitan:

Terindeks Scopus. SJR: 0,2 (2017). (nilai: 8,50).

Semarang, 14 Mei 2019

Reviewer 1



Dr. Ojo Kurdi, S.T., M.T.

NIP. 197303171999031001

Unit kerja : Teknik Mesin FT UNDIP

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Total = (100%)	30,00		27,00
Nilai Pengusul = (60% x 27,00) = 16.20			

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Rusnaldy, S.T., M.T., Ph.D.

NIP. 197005201999031002

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
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Volume 159, 30 March 2018, Article number 02019

2nd International Joint Conference on Advanced Engineering and Technology, IJCAET 2017 and International Symposium on Advanced Mechanical and Power Engineering, ISAMPE 2017; Bali; Indonesia; 24 August 2017 through 26 August 2017; Code 135617

Comparison of ratio loaded and unloaded foot area of flat foot and healthy foot in younger adults (Conference Paper) (Open Access)

Haryadi, G.D.^a  Wibowo, D.B.^a  Widodo, A.^a  Suprihanto, A.^b 

^aCenter for Biomechanics, Central Laboratory of Research and Services, Diponegoro University, Indonesia

^bCenter for Biomaterials, Central Laboratory of Research and Services, Diponegoro University, Indonesia

Abstract

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This study is aimed to investigate loaded and unloaded foot area ratio (RFA, ratio of foot area) as special tests for the basis of clinical examination of flat foot and healthy foot. Type of foot is determined by Cavanagh's arch indexes (AI) which is the ratio between mid foot area to entire footprint area excluding the toes. Type of foot is called high arch when $AI > 0.21$, normal/healthy foot when $0.26 < AI < 0.21$ and flat foot when $AI < 0.26$. The entire loaded foot and footprint area for evaluating AI derived from a digital footprint is modified from document scanner, while the entire unloaded foot area derived from a 3D scanner. One hundred and two healthy students (87 males and 15 females, average aged 20 years and average BMI 22.51 kg/m²) is asked voluntarily for doing footprint and scan. From 102 subjects found 63 participants identified as flat foot and 31 subjects are healthy feet. This study proves that the higher the value of AI the higher the value of RFA and foot type can be predicted by the value of RFA. For type of foot is high arch $RFA < 0.49$, for healthy foot $0.55 > RFA > 0.49$ and for flat foot $RFA > 0.55$. © The Authors, published by EDP Sciences, 2018.

SciVal Topic Prominence ⓘ

Topic: Foot | Flatfoot | Flat feet

Prominence percentile: 91.653 ⓘ

Indexed keywords

Engineering controlled terms: Scanning

Engineering uncontrolled terms: 3-D scanner Area ratios Clinical examination Healthy students High-arch Mid-foot

Engineering main heading: Arches

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August 24-26, 2017
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Bali, Indonesia, August 24-26, 2017

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