

Curriculum vitae

Name : RUKMANIKANTHAN A/L SHANMUGAM

Nationality : Malaysian

Date of Birth : 13th August 1975

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Current Address : Department of Orthopaedic Surgery,
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Marital Status : Married

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Educational Background:

Undergraduate degree : University Science Malaysia with degree in medicine (MD)
Graduated year 2001.

Postgraduate degree : University of Malaya with masters in orthopaedic surgery
Graduated year 2009.

Fellowships : AO research fellowship, AO institute Davos (2012) - Biomechanics.
: Advanced trauma life support for doctors (May 2012)
: Fellowship in Deformity correction and Ilizarov surgery, University of Malaya.
: Fellowship in Foot and Ankle surgery, University of Malaya.
: Attachement for Foot and Ankle and Deformity correction in UK (February
to October 2016)

Awards : Sijil Perkhidmatan Cemerlang 2011. (Excellent service award 2011)

Special Interest / Subspeciality:

- : Foot and Ankle surgery
- : Deformity Correction (Ilizarov, TSF, Monolateral fixators)
- : Biomechanics

Employment Background:

- Joined Public services department of Malaysia under Ministry of Health in the year 2001 (June 25th).
- University Hospital (University of Malaya) for the purpose of completing masters in Orthopaedic surgery. * **Served as chief resident of orthopaedic trauma team** (1st Jan to 31st Dec 2008)
- University of Malaya joined as senior lecturer in the department of orthopaedic surgery (18th January onwards)

Publications and Research:

Major surgery in an osteosarcoma patient refusing blood transfusion: case report.

Dhanao A, Singh VA, Shanmugam R, Rajendram R. World J Surg Oncol. 2010 Nov 8;8:96. doi: 10.1186/1477-7819-8-96.

Platelet-rich plasma (PRP) enhances bone healing in non-united critical-sized defects: a preliminary study involving rabbit models. Kanthan SR, Kavitha G, Addi S, Choon DS, Kamarul T.

Injury. 2011 Aug;42(8):782-9. doi: 10.1016/j.injury.2011.01.015. Epub 2011 Feb 16.

A biomechanical study comparing plate fixation using unicortical and bicortical screws in transverse metacarpal fracture models subjected to cyclic loading. Afshar R, Fong TS, Latifi MH, Kanthan SR, Kamarul T. J Hand Surg Eur Vol. 2012 Jun;37(5):396-401. doi: 10.1177/1753193411424557. Epub 2011 Oct 21.

Prospects of implant with locking plate in fixation of subtrochanteric fracture: experimental demonstration of its potential benefits on synthetic femur model with supportive hierarchical nonlinear hyperelastic finite element analysis. Latifi MH, Gantheel K, Rukmanikanthan S, Mansor A, Kamarul T, Bilgen M. Biomed Eng Online. 2012 Apr 30;11:23. doi: 10.1186/1475-925X-11-23.

The Safety and Strength of a Novel Medial, Partial Non-Threaded Pedicle Screw: A Cadaveric and Biomechanical Investigation. Kwan MK, Chan CY, Saw LB, Shanmugam R, Lenke LG. J Spinal Disord Tech. 2013 Sep 27. [Epub ahead of print]

Histology, glycosaminoglycan level and cartilage stiffness in monoiodoacetate-induced osteoarthritis: comparative analysis with anterior cruciate ligament transection in rat model and human osteoarthritis. Naveen SV, Ahmad RE, Hui WJ, Suhaeb AM, Murali MR, Shanmugam R, Kamarul T. Int J Med Sci. 2013 Dec 21;11(1):97-105. doi: 10.7150/ijms.6964. eCollection 2014.

A Biomechanical Comparison between Taylor's Spatial Frame and Ilizarov External Fixator.

Tan B, Shanmugam R, Gunalan R, Chua Y, Hossain G, Saw A. Malays Orthop J. 2014 Jul;8(2):35-9. doi: 10.5704/MOJ.1407.012.

Accuracy, Consistency, and Reproducibility of the Triaxial Accelerometer in the iPod Touch: A Pilot Study.

Khoo Chee Han C, Shanmugam RA, Choon Siew Kit D. JMIR Mhealth Uhealth. 2014 Nov 24;2(4):e39. doi: 10.2196/mhealth.3008.

Angular stable lateral plating is a valid alternative to conventional plate fixation in the proximal phalanx. A biomechanical study. Shanmugam R, Ernst M, Stoffel K, Fischer MF, Wahl D, Richards RG, Gueorguiev B. Clin Biomech (Bristol, Avon). 2015 Jun;30(5):405-10. doi: 10.1016/j.clinbiomech.2015.03.019. Epub 2015 Mar 27.

Predictive Factors for Osteomyelitis in Open Tibia Fracture.

Kamarul, T ; Mansor A; Hossain, MG; Syima, NN; Kanthan, SR

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