

Shiek Abdullah Bin Ismail

Head of Department and Principal Physiotherapist Rehabilitation Services
KTPH & YCH Clinical Research Committee Member
NHG Allied Health Career Framework Committee Member

Research Interests:

Gait Biomechanics
Anterior Cruciate Ligament Deficiency
Neural Networks in Gait Analysis
Gamification of Physiotherapy Training

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Biography

Dr Shiek Abdullah Bin Ismail completed his initial training in Physiotherapy at Nanyang Polytechnic, Singapore. He pursued further education in Australia, obtaining his Bachelor of Health Science (Physiotherapy) and PhD from The University of Sydney, and Masters in Manual Therapy from The University of Western Australia. His doctoral research focused on gait biomechanics among chronic ACL deficient individuals, contributing significantly to the field of biomechanical analysis. His professional experience includes academic appointments in both Singapore and Australia, alongside extensive clinical practice. Currently, he holds multiple leadership positions at Khoo Teck Puat Hospital and Yishun Community Hospital, where he oversees the rehabilitation services department and leads several key initiatives in clinical research and service development.

Selected Publications

Fang, B. K., Jiang, J. J., Loh, J. K. S., & Ismail, S. A. B. (2022). Telerehabilitation acceptance among patients during Circuit Breaker period: A retrospective study. *Dialogues in Health*, 1, 100049.

Zeng, W., Ismail, S. A., & Pappas, E. (2021). The impact of feature extraction and selection for the classification of gait patterns between ACL deficient and intact knees based on different classification models. *EURASIP Journal on Advances in Signal Processing*, 2021(1), 1-23.

Ismail SA, Simic M, Salmon LJ, Roe JP, Pinczewski LA, Smith R, Pappas E. (2019). Side-to-Side Differences in Varus Thrust and Knee Abduction Moment in High-Functioning Individuals with Chronic Anterior Cruciate Ligament Deficiency. *The American journal of sports medicine*. 47(3):590-7.

Ismail SA, Simic M, Clarke JL, Lopes TJ, Pappas E. The development and validation of a custom-built device for assessing frontal knee joint laxity. *The Knee*. 2017 Dec 1;24(6):1307-16.

Ismail SA, Button K, Simic M, Van Deursen R, Pappas E. (2016). Three-dimensional kinematic and kinetic gait deviations in individuals with chronic anterior cruciate ligament deficient knee: A systematic review and meta-analysis. *Clinical Biomechanics*. 35:68-80.

Conference Presentations

Haron MJ, Ismail SA, Yeo GT. Gaming for Health: Investigating the Physiological Responses of Ring Fit Adventure. Poster presented at: World Confederation for Physical Therapy Congress; 2025; Tokyo, Japan.