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Volume 10, October 2017, Pages 8-11[Open Access](#)**Construct and criterion validity of the Malaysia version of Lower Extremity Functional Scale (LEFS)**

(Article)

Mohd Yunus, M.A.^a, Musa, R.^b, Nazri, M.Y.^a^aDepartment of Orthopedic & Rehabilitation, Kulliyah of Medicine, International Islamic University Malaysia, Jalan Hospital, Kuantan, Pahang, Malaysia^bDepartment of Psychiatry, Kulliyah of Medicine, International Islamic University Malaysia, Jalan Hospital, Kuantan, Pahang, Malaysia**Abstract**

Objective The objective of this study is to translate the Lower Extremity Functional Scale (LEFS) into the Malay language and to validate the resulting version. **Methods** A two-stage observational study was conducted. The LEFS was initially cross-culturally adapted to Malay language through double forward and backward translation. The finalized version of Malay LEFS (M-LEFS) was subsequently validated for both construct validity and criterion validity. **Participants** (n = 208) with normal lower limb condition and various lower limb conditions completed the M-LEFS. **Results** Reliability of M-LEFS revealed excellent Cronbach's alpha value of 0.98. **Construct validity**, evaluated using exploratory factor analysis, exhibited good factor loadings (>0.6) of all 20 items. Interestingly, we extracted 2 components which was not reported elsewhere. With a cut-off point of 60, the sensitivity of the scale was 99% and the specificity was 81%. **Conclusions** The M-LEFS had very good psychometric properties among the studied population. Further studies are needed to enhance these preliminary outcomes in Malaysia. © 2017 Asia Pacific Knee, Arthroscopy and Sports Medicine Society

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- 1 Binkley, J.M., Stratford, P.W., Lott, S.A., Riddle, D.L.
The Lower Extremity Functional Scale (LEFS): Scale development, measurement properties, and clinical application
(1999) *Physical Therapy*, 79 (4), pp. 371-383. Cited 559 times.
- 2 Naal, F.D., Impellizzeri, F.M., Torka, S., Wellauer, V., Leunig, M., von Eisenhart-Rothe, R.
The German Lower Extremity Functional Scale (LEFS) is reliable, valid and responsive in patients undergoing hip or knee replacement
(2014) *Quality of Life Research*, 24 (2), pp. 405-410. Cited 12 times.
www.wkap.nl/journalhome.htm/0962-9343
doi: 10.1007/s11136-014-0777-6
[View at Publisher](#)
- 3 Cacchio, A., De Blasis, E., Necozone, S., Rosa, F., Riddle, D.L., di Orio, F., De Blasis, D., (...), Santilli, V.
The Italian version of the Lower Extremity Functional Scale was reliable, valid, and responsive
(2010) *Journal of Clinical Epidemiology*, 63 (5), pp. 550-557. Cited 30 times.
doi: 10.1016/j.jclinepi.2009.08.001
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