



FUENGFA KHOBKHUN

LECTURER, DOCTOR OF PHILOSOPHY

ABOUT ME

I am a lecturer of Physiotherapy. Applying knowledge to the development of novel technologies, rehabilitation and preventing falls in older adults and movement disorders population, especially in Parkinson's disease

EDUCATION

2006 - 2009

Thammasat University, Thailand

Bachelor of Science (Physical Therapy)

2009 - 2011

Mahidol University, Thailand

Master of Science (Physical Therapy)

2015 - 2019

**Liverpool John Moores University, UK
and Mahidol University, Thailand**

Dual Doctor of Philosophy

CONTACT ME

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RESEARCH INTEREST

- Gait and turning rehabilitation in neurological disorders, especially in Parkinson's disease
- Neural plasticity in Parkinson's disease
- Exercise in neurological disorders especially in Parkinson's disease
- Motor neuron and motor control research

CURRENTLY GRANT

- "Effects of turning speed, axial rigidity and bradykinesia on whole-body coordination during standing turns and home-based exercise to improve turning characteristics in individuals with Parkinson's disease." Research Grant for new researchs of Mahidol University, Mahidol University ฿250,000 01/08/2020-31/07/21

WORKING EXPERIENCES

- 2010: Research assistance in "The first three steps of gait initiation in patients with Parkinson's disease," by Sunee Bovonsunthonchai
- June 2010 – Present Lecturer of Faculty of Physical Therapy, Mahidol University
- University Instructor, Acute Stroke Unit, Siriraj Hospital, Mahidol University

TEACHING COURSE

- Undergraduate Program in Physical Therapy
- Graduate Program in Physical Therapy
- Graduate Diploma Program in Clinical Physical Therapy

PUBLICATIONS

1. **Khobkhun F**, Suwannarat J, Pheungphrarattana-trai A, Niemrungruang K, Techataweesub S, Khacharoen S, Ajjimaporn A, Srivanitchapoom P, Richards J. The Effects of a 10-Week Home-Based Exercise Programme in Individuals with Parkinson's Disease during the COVID-19 Pandemic: A Pilot Study. *Applied Sciences*. 2021; 11(10):4518.
2. **Khobkhun F**, Hollands M, Richards, J. The effect of different turn speeds on whole-body coordination in younger and older healthy adults. *Sensors* 2021;21(8); 2827:1-15.
3. **Khobkhun F**, Khacharoen S, Tretriluxana J, Richards J. The effectiveness of exercise on gait, turning and falls in individuals with Parkinson's disease: A Scoping Review. *International Journal of Pharmaceutical Research* 2021;13(2):1189-1207.
4. **Khobkhun F**, Ratchatapokin N, Kitjao S, Maenpaen T, Bovonsunthonchai S, and Richards J. Does the global rating scale correlate with standard clinical outcomes in chronic individuals with stroke? Proceeding in RSU International Research Conference, April 30, 2021; 407-415. Pathum Thani, Thailand. (Full manuscripts with Oral presentation).
5. **Khobkhun F**, Bovonsunthonchai S. The effect of visual and auditory cueing on obstacle crossing characteristics in healthy young females. National and International Research Conference on Science and Technology, Social Science, and Humanities 2020 (RSUSSH 2020) Rangsit University, Pathum Thani, Thailand. (Full manuscripts with Oral presentation).
6. **Khobkhun F**, Hollands, MA, Richards, J, Ajjimaporn, A. Can We Accurately Measure Axial Segment Coordination during Turning Using Inertial Measurement Units (IMUs)? *Sensors* 2020, 20, 2518. (Ph.D.)
7. **Khobkhun F**, Hollands MA, Ajjimaporn A. and Kristen, A. (2018b) Effectiveness of exercise-based rehabilitation for the treatment of axial rigidity in people with Parkinson's disease: A scoping review. *Physical Therapy Reviews* 2020. 1-9. (Ph.D.)
8. World Confederation for Physical Therapy Congress 2019 Geneva, Switzerland, 10-13 May 2019. "Effectiveness of exercise-based rehabilitation for the treatment of axial rigidity in people with Parkinson's disease: A Scoping Review". (Ph.D.)
9. The 2017 International Society of Posture & Research World Congress. Fort Lauderdale, Florida, US, 25-29 June 2017. "Why are Parkinson's disease patients prone to falls during turning? Can we model dysfunction in healthy young participants?" (Ph.D.)
10. **Khobkhun F**, Bovonsunthonchai S, Vachalathiti R, Pisarnpong A. Improvement of gait initiation after physical therapy treatment in patients with Parkinson's disease. *Chiang Mai Univ J Nat Sci*.2014; 13(1):43-49.
11. Bovonsunthonchai S, Vachalathiti R, Pisarnpong A, **Khobkhun F**, Hiengkaew V. Spatiotemporal gait variability in the first three steps of patients with Parkinson's disease. *Physiother Res Int*. 2013; 19: 158-165.
12. **Khobkhun F**, Bovonsunthonchai S, Vachalathiti R, Pisarnpong A. Effects of the TrainingBIGTM and Task specific concepts on turning over 180 degrees in patients with Parkinson's disease. *KKU Res J*. 2012; 17(6):1003-1011.

SPEAKERS

1. Speaker for Management in Parkinson's Disease Conference at 9th August 2013, Faculty of Physical Therapy, Mahidol University.
2. Speaker for How to effectively implement therapeutic exercise for individuals with stroke? Conference on 26-28th March 2014, Faculty of Physical Therapy, Mahidol University.
3. Speaker for Clinical instructor improvement of Physical Therapy Management in Parkinson's Disease Conference on 9th May 2014, Faculty of Physical Therapy, Mahidol University.
4. Speaker for Neurological Update in Physiotherapy, International Physiotherapy Webinar in Indonesia on 1st-3rd August 2020.
5. Speaker for Physiotherapy Department, Universitas 'Aisyiyah Yogyakarta (UNISA), Indonesia on 3rd August 2021. "International Technical Assistant Experts in Preparing Digital-English Neuromuscular Modules for Core Competencies Physiotherapy in session; "Physiotherapy management in Parkinson's disease: perspective for exercise-based treatment".
6. Speaker for Clinical instructor improvement of Physical Therapy Management in Parkinson's Disease Online Conference on 10 September 2021, Faculty of Physical Therapy, Mahidol University