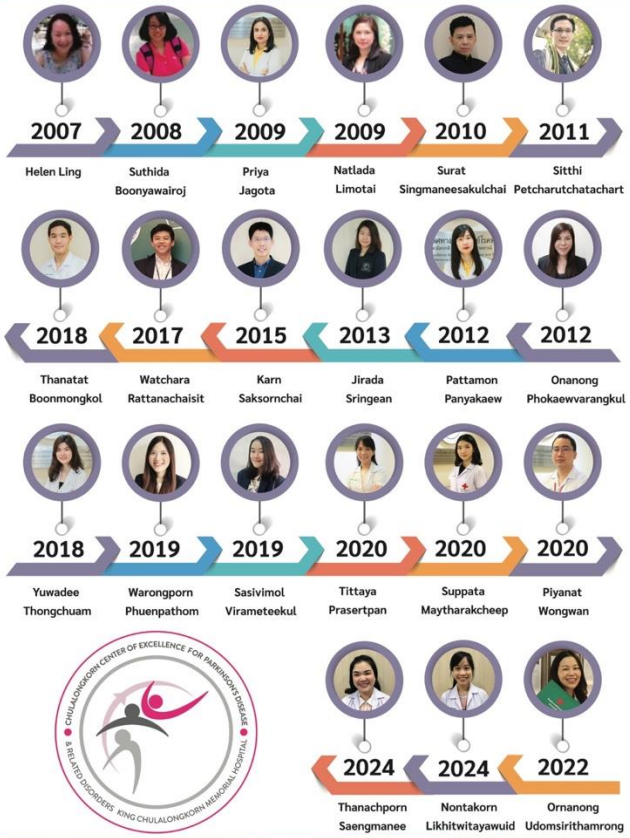
Thai Movement Disorders Fellow



International Movement Disorders Fellow

Movement Disorders Fellowship Program

Our Educational Program

Movement Disorders Training Program

- 6 months to 1 year with certificate
- 2 years with MSc/PhD program

	8.00-9.00	9.00.10.00	10.00-11.00	11.00-12.00	13.00-16.00
Mon	Morning movement round (IPD)	Research Time/Self-study	Research Time/Self-study	Center Meeting	Botulinum toxin clinic
Tue	Morning movement round (IPD)	Research Time/Self-study	Research Time/Self-study	Research Meeting	PD and other parkinsonism Clinic
Wed	Teaching round (IPD)	Hyperkinetic clinic Genetic clinic Nocturnal PD clinic			Movement disorder conference and journal club
Thurs	Morning movement round (IPD)	PD Advance Clinic DBS surgery (week 4)			RESEARCH TIME
Fri	Morning movement round (IPD)	Gait Clinic (week 1) Neuropsychiatry clinic (week 2) Home adaptation clinic (week 3) Neurophysilogy clinic (week 2,4)			RESEARCH TIME

Our education commitment includes a comprehensive fellowship program, movement disorders education for physicians, residents, medical and PhD students, and other healthcare providers, as well as educational and outreach programs for patients, caregivers, and the general public. We hold at least a few seminars and educational camps each year.

Our goal is to integrate multidisciplinary team approach and produce outstanding movement disorders neurologists who will be in a position to become leaders and make significant contributions to the academic field of movement disorders.

Our Training


Parkinson's disease clinic


Device-Aided clinic


Movement Disorders clinic


Sleep related movement disorders and Nocturnal PD Clinic


Neurophysiology clinic


Gait in movement disorders clinic


Neuropsychiatric clinic

International Conference and Poster Presentation

Asian and Oceanian Parkinson's Disease and Movement Disorders Congress (AOPMC)

International Congress of Parkinson's Disease and Movement Disorders

8th Movement Disorders Camp
First International Movement Disorders Camp

Botulinum Toxin Workshop

PhD graduation day

MsC graduation day

Warongporn Phuenpathom (MD, PhD)

Doctor of Philosophy Degree
Internal Medicine (Neurology, Movement disorders)
Faculty of Medicine, Chulalongkorn University

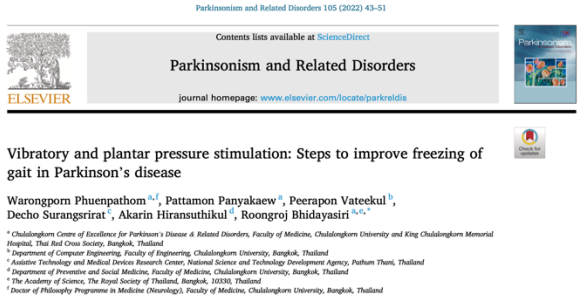
Dissertation topic: Development and validation of the Parkinson's sensory stimulator shoe for improvement of freezing of gait among Parkinson's disease patients with unresponsive freezing of gait

Advisor: Roongroj Bhidayasiri, Pattamon Panyakaew

The first publication

Warongporn Phuenpathom, Pattamon Panyakaew, Peerapon Vateekul, Decho Surangsrirat, Akarin Hiransuthikul, Roongroj Bhidayasiri. Vibratory and plantar pressure stimulation: Steps to improve freezing of gait in Parkinson's disease. Parkinsonism Relat Disord. 2022 Dec;105:43-51.

Conclusion: Our study demonstrated the benefit of combined vibratory and pressure stimulation on FOG suggesting that this strategy might be developed as a novel treatment modality for PD patients with FOG.


Parkinsonism and Related Disorders 105 (2022) 43–51

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Parkinsonism and Related Disorders

journal homepage: www.elsevier.com/locate/parkreldis

Vibratory and plantar pressure stimulation: Steps to improve freezing of gait in Parkinson's disease

Warongporn Phuenpathom [a,f], Pattamon Panyakaew [a], Peerapon Vateekul [b], Decho Surangsrirat [c], Akarin Hiransuthikul [d], Roongroj Bhidayasiri [a,e,*]

[a] Chulalongkorn Centre of Excellence for Parkinson's Disease & Related Disorders, Faculty of Medicine, Chulalongkorn University and King Chulalongkorn Memorial Hospital, Thai Red Cross Society, Bangkok, Thailand
[b] Department of Computer Engineering, Faculty of Engineering, Chulalongkorn University, Bangkok, Thailand
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[d] Department of Preventive and Social Medicine, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand
[e] The Academy of Science, The Royal Society of Thailand, Bangkok, 10330, Thailand
[f] Doctor of Philosophy Programme in Medicine (Neurology), Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

AWARDS

- **Best Abstract of the Year Award** : Annual Meeting of the Royal College of Physicians of Thailand 2023
- **Junior Award** : The 7th Asian and Oceanian Parkinson's Disease and Movement Disorders Congress
- **Distinguished Oral Award**: Annual Meeting of the Royal College of Physicians of Thailand 2021

The second publication

Warongporn Phuenpathom, Pattamon Panyakaew, Peerapon Vateekul, Decho Surangsrirat, Roongroj Bhidayasiri. Residual effects of combined vibratory and plantar stimulation while seated influences plantar pressure and spatiotemporal gait measures in individuals with Parkinson's disease exhibiting freezing of gait. Front Aging Neurosci. 2024 Jan 9;15:1280324.

Conclusion: Our study demonstrated that the FOG shoe could decrease FOG episodes by improving the heel-strike pressure, toe push-off and normalized heel-to-toe plantar pressure, suggesting that modification inputs from the peripheral sensory systems might significant improvement in FOG in PD.


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OPEN ACCESS

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Phuenpathom W, Panyakaew P, Vateekul P, Surangsrirat D and Bhidayasiri R (2024) Residual effects of combined vibratory and plantar stimulation while seated influences plantar pressure and spatiotemporal gait measures in individuals with Parkinson's disease exhibiting freezing of gait. *Front. Aging Neurosci.* 15:1280324. doi: 10.3389/fnagi.2023.1280324

Residual effects of combined vibratory and plantar stimulation while seated influences plantar pressure and spatiotemporal gait measures in individuals with Parkinson's disease exhibiting freezing of gait

Warongporn Phuenpathom [1], Pattamon Panyakaew [1], Peerapon Vateekul [2], Decho Surangsrirat [3] and Roongroj Bhidayasiri [1,4*]

[1]Chulalongkorn Centre of Excellence for Parkinson's Disease and Related Disorders, Faculty of Medicine, Chulalongkorn University and King Chulalongkorn Memorial Hospital, Thai Red Cross Society, Bangkok, Thailand, [2]Department of Computer Engineering, Faculty of Engineering, Chulalongkorn University, Bangkok, Thailand, [3]Assistive Technology and Medical Devices Research Center, National Science and Technology Development Agency, Pathum Thani, Thailand, [4]The Academy of Science, The Royal Society of Thailand, Bangkok, Thailand

Yuka Miyahara (B.Ed., MPH, PhD)

Doctor of Philosophy Degree

Medical Sciences: Neuroscience (International Program)
Faculty of Medicine, Chulalongkorn University

Dissertation topic:

The acute effect of therapeutic Thai acupressure on foot on freezing of gait in Parkinson's disease patients during "on" medication time. a randomized non-inferiority trial.

Advisor: Roongroj Bhidayasiri, Onanong Phokaewvarangkul

The first publication

Yuka Miyahara, Onanong Phokaewvarangkul, Stephen J. Kerr, Chanawat Anan, Haruki Toriumi, Roongroj Bhidayasiri, **Comparing the efficacy of therapeutic Thai acupressure on plantar acupoints and laser cane therapy on freezing of gait in Parkinson's disease: a randomized non-inferiority trial,** Front. Neurol. 15 (2024) 1327448.


frontiers | Frontiers in Neurology

Comparing the efficacy of therapeutic Thai acupressure on plantar acupoints and laser cane therapy on freezing of gait in Parkinson's disease: a randomized non-inferiority trial

Conclusion: The efficacy of therapeutic Thai acupressure (TTA), which improves stride length, is non-inferior to that of laser cane (LC) and consequently alleviates FOG comparable to LC. TTA might enhance proprioceptive function and reduce visual dependence. Therefore, TTA, characterized by its non-invasive, simple, and safe techniques, is a potential non-pharmacological alternative for ON-FOG treatment and might enhance overall quality of life. However, further research into the mechanism, efficacy, and utilization of TTA is essential.

AWARDS

- **Good Award for Doctoral program students** : Graduate Research day 2024, Faculty of Medicine, Chulalongkorn University
- **Honorable Mention Award** : oral presentation at MDCU Congress 2024, Faculty of medicine, Chulalongkorn University

The second publication

Yuka Miyahara, Pattamon Panyakaew, Jiradon Tinuan, Onanong Phokaewvarangkul, Chanawat Anan, Haruki Toriumi, Roongroj Bhidayasiri, **Self-treatment of freezing of gait in Parkinson's disease patients using silicone pads to apply Thai acupressure to plantar acupoints: A randomised, controlled trial,** Clin Park Relat Disord 10 (2024) 100254.


Clinical Parkinsonism & Related Disorders

Original Articles

Self-treatment of freezing of gait in Parkinson's disease patients using silicone pads to apply Thai acupressure to plantar acupoints: A randomised, controlled trial

Conclusions: Acupressure using silicone pads to stimulate plantar acupoints for self-treatment is a noninvasive, simple, safe way to improve gait and alleviate FOG in patients with PD.

Jiradon Tinuan (BSc, PhD)

Doctor of Philosophy Degree

Sports and Exercise Sciences: Exercise Physiology
Faculty of Sports Science, Chulalongkorn University.

Dissertation topic:

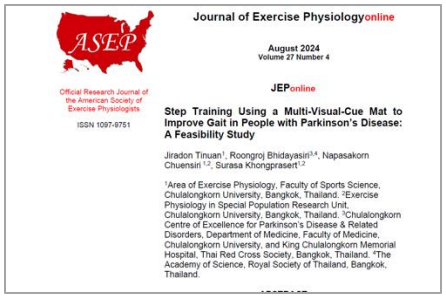
Effects of Home-Based 25-Square Step Training on Functional mobility and Quality of life in people with Parkinson's disease.

Advisor: Surasa Khongprasert
Roongroj Bhidayasiri

The publication

Jiradon Tinuan, Roongroj Bhidayasiri, Napasakorn Chuensiri, Surasa Khongprasert, **Step Training Using a Multi-Visual-Cue Mat to Improve Gait in People with Parkinson's Disease: A Feasibility Study,** JEPonline 2024;27(4):27-42.

Conclusion: Our findings suggest that people with mild-to-moderate stage PD respond to multi-visual-cue cues during step training in multiple directions. People with PD focus their attention on the discrete goal of each foot hitting a visual cue placed on the multi-visual-cue mat and then use each square as exteroceptive information to regulate step length. Moreover, this training can be performed within a small indoor space and is a safe, inexpensive, and feasible alternative to clinic-based training interventions while also improving gait for patients with PD.


Journal of Exercise Physiologyonline

August 2024
Volume 27 Number 4

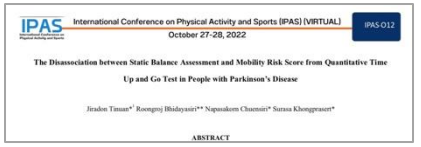
JEPonline

Step Training Using a Multi-Visual-Cue Mat to Improve Gait in People with Parkinson's Disease: A Feasibility Study

The first oral presentation

Jiradon Tinuan, Roongroj Bhidayasiri, Napasakorn Chuensiri, Surasa Khongprasert, **The Disassociation between Static Balance Assessment and Mobility Risk Score from Quantitative Time Up and Go Test in People with Parkinson's Disease,** *The International Conference on Physical Activity and Sports (IPAS) 2022, KKU, Thailand.*

Conclusion: This suggests that the static balance assessment should be separate from the dynamic balance assessment for the benefit of testing and training people with PD.


IPAS International Conference on Physical Activity and Sports (IPAS) (VIRTUAL)
October 27-28, 2022
IPAS-O12

The Disassociation between Static Balance Assessment and Mobility Risk Score from Quantitative Time Up and Go Test in People with Parkinson's Disease

ABSTRACT

The second oral presentation

Jiradon Tinuan, Roongroj Bhidayasiri, Napasakorn Chuensiri, Surasa Khongprasert, **Effect of 25-Square Step Training on Functional Mobility in People with Parkinson's Disease,** Medicine & Science in Sports & Exercise 55(9S):p 2-3, September 2023. *American College of Sports Medicine Annual Meeting 2023, Denver, CO, USA.*

Conclusion: The 25-Square Step training appears to have a good influence on functional mobility for people with Parkinson's disease. In addition, the 25-square step training seem to be new kind of activities for gait and balance training.


ACSM
2023 ANNUAL MEETING
AND WORLD CONGRESSES

Effect Of 25-square Step Training On Functional Mobility In People With Parkinson'S Disease

Suppata Maytharakcheep (MD, MsC)

Movement Disorder Clinical Fellowship and Master's Degree Program
Chulalongkorn Center of Excellence for Parkinson's Disease and Related Disorders
Faculty of Medicine, Chulalongkorn University

Dissertation topic:
A crossover randomized controlled trial of using micro-hypodermic needle injections of botulinum toxin type A in patients with hemifacial spasm.

Advisor: Roongroj Bhidayasiri, Onanong Phokaewvarangkul

The first publication

Suppata Maytharakcheep , Onanong Phokaewvarangkul , Roongroj Bhidayasiri
Does needle size matter? Effects of micro-hypodermic needle injections of botulinum toxin type A in patients with hemifacial spasm. Parkinsonism Relat Disord. 2024 Jan;118:105950.

Conclusion: In HFS patients, botulinum toxin type A injections using micro-hypodermic needles resulted in reduced pain and bruising, compared to standard needles, while maintaining similar botulinum toxin type A benefits.


Parkinsonism and Related Disorders 118 (2024) 105950

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Short communication

Does needle size matter? Effects of micro-hypodermic needle injections of botulinum toxin type A in patients with hemifacial spasm

Suppata Maytharakcheep [a], Onanong Phokaewvarangkul [a], Roongroj Bhidayasiri [a, b, *]

[a] Chulalongkorn Centre of Excellence for Parkinson's Disease and Related Disorders, Department of Medicine, Faculty of Medicine, Chulalongkorn University and King Chulalongkorn Memorial Hospital, Thai Red Cross Society, Bangkok, Thailand
[b] The Academy of Science, The Royal Society of Thailand, Bangkok, Thailand

The second publication

Suppata Maytharakcheep , Roongroj Bhidayasiri. **Botulinum toxin treatment for hemifacial spasm: harmonising neurological and aesthetic outcomes**. J Neural Transm (Vienna). 2024 Aug 23.

Conclusion: This review highlights the culmination of neurological efficacy and facial aesthetics in , botulinum toxin type A treatment for HFS patients. It also proposes a holistic paradigm to achieve balanced symptomatic relief and natural aesthetic expression, ultimately enhancing the quality of life for individuals grappling with HFS.


Journal of Neural Transmission
https://doi.org/10.1007/s00702-024-02821-y

NEUROLOGY AND PRECLINICAL NEUROLOGICAL STUDIES - REVIEW ARTICLE

Botulinum toxin treatment for hemifacial spasm: harmonising neurological and aesthetic outcomes

Suppata Maytharakcheep[1] · Roongroj Bhidayasiri[1,2]

Received: 26 June 2024 / Accepted: 7 August 2024
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Tittaya Prasertpan (MD, MsC)

Movement Disorder Clinical Fellowship and Master's Degree Program
Chulalongkorn Center of Excellence for Parkinson's Disease and Related Disorders
Faculty of Medicine, Chulalongkorn University

Dissertation topic:
What is the appropriate sleep position for Parkinson' s disease patient with orthostatic hypotension in the morning?

Advisor: Roongroj Bhidayasiri, Jirada Sringean

Piyanat Wongwan (MD, MsC)

Movement Disorder Clinical Fellowship and Master's Degree Program
Chulalongkorn Center of Excellence for Parkinson's Disease and Related Disorders
Faculty of Medicine, Chulalongkorn University

Dissertation topic:
Application of goal attainment scale as a patient-centered assessment for cervical dystonia

Advisor: Roongroj Bhidayasiri, Pattamon Panyakaew