CURRICULUM VITAE

PERSONAL DATA:
First Name: **Siriphan**
Last Name: **Kongswasdi**
Institute: Department of Physical Therapy, Faculty of Associated Medical Sciences, Chiang Mai University Thailand
Current Position: Lecturer, Assist/ Prof. in Neurological Physical Therapy
Assistant Dean in Public Relation Affairs
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EDUCATION:
PhD (Clinical Epidemiology), *Faculty of Medicine, Chiang Mai University, Thailand*
MSc (Physiology), *Faculty of Medicine, Mahidol University, Thailand*
BSc (Physical Therapy), *Faculty of Associated Medical Sciences, Chiang Mai University, Thailand*

WORK:
Lecturer in Neurological Physical Therapy, Department of Physical Therapy, Faculty of Associated Medical Sciences, Chiang Mai University (Since 1994 – Present)
Deputy Head of Department, Department of Physical Therapy, Faculty of Associated Medical Sciences, Chiang Mai University (2002-2005)
Assistant Dean, Faculty of Associated Medical Sciences, Chiang Mai University (2006-2010, 2014-2018, 2018-2022, 2022-Present)

PUBLICATIONS:

1. Kongsawasdi S, Wiboonsuntharangkoon C, Tajarernmuang P, Wantanajittikul K. **Feasibility Study of a Prototype Wearable Inertial Measurement Unit for Elderly Postural Sway Assessment**. J Clin Med Res. 2024 Apr;16(4):174-181. doi: 10.14740/jocmr5125. Epub 2024 Apr 30. PMID: 38715558; PMCID: PMC11073388
2. Chinchai, P., Kongsawasdi, S., Sirisatayawong, P., Apichai, S., Chuatrakoon, B., & Thonglorm, N. (2024). **Community rehabilitation by the trained village health volunteers on activities of daily living and quality of life in stroke survivors.** J Assoc Med Sci [Internet]. 2024 Apr. 24 [cited 2024 Jun. 3];57(2):157-65. Available from: https://he01.tci-thaijo.org/index.php/bulletinAMS/article/view/268797
3. Siriphan Kongsawasdi, Busaba Chuatrakoon, Taweepoke Angkawanish, Chatchote Thitaram, Warangkhana Langkaphin, Kittikul Namwongprom, Paphawee Prupetkaew, Kittichai Wantanajittikul. **Variability of gait characteristics in lameness elephant**. J Vet Med Sci. 2023 Feb 10;85(2):226-231. doi: 10.1292/jvms.22-0357. Epub 2022 Dec 13.
4. Wantanajittikul, K.; Thitaram, C.; Khammesri, S.; Kongsawasdi, S. **Development of a Protocol for Biomechanical Gait Analysis in Asian Elephants Using the Triaxial Inertial Measurement Unit (IMU).** Veterinary Sciences. 2022, *9*, 432. doi.org/10.3390/vetsci9080432
5. Wantanajittikul K, Wiboonsuntharangkoon C, Chuatrakoon B, Kongsawasdi S. **Application of Machine Learning to Predict Trajectory of the Center of Pressure (COP) Path of Postural Sway Using a Triaxial Inertial Sensor.** The Scientific World Journal. 2022 Jun 22;2022:9483665.
6. Siriphan Kongsawasdi, Janine L. Brown, Khajohnpat Boonprasert, Pornsawan Pongsopawijit, Kittichai Wantanajittikul , Siripat Khammesri, Tanapong Tajarernmuang, Nipaporn Thonglorm,

Rungtiwa Kanta-In, Chatchote Thitaram. **Impact of weight carriage on joint kinematics in Asian elephants used for riding.** Animals, 17;11(8):2423, 2021. doi: 10.3390/ani11082423.

7. Siriphan KONGSAWASDI, Kittichai WANTANAJITTIKUL, Warangkhana LANGKAPHIN, Busaba CHUATRAKOON, Kittikul NAMWONGPROM, Paphawee PRUPETKAEW, Taweepoke ANGKAWANISH. **Optimal management to improve quality of life for an injured baby elephant: Thailand multidisciplinary care team**. Kafkas Universitesi Veteriner Fakultesi Dergisi, 27(5):655-659, 2021. DOI: 10.9775/kvfd.2021.25927.
8. Kittichai Wantanajittikul, Siriphan Kongsawasdi. **Utilization of embedded smartphone application for testing balance in adult to elderly: the study of concurrent validity.** Chiang Mai Medical Bulletin, 61(2), 2022.
9. Pisak Chinchai, Siriphan Kongsawasdi. **Activities of Daily Living Performance in Stroke Survivors Receiving Services from the Trained Village Health Volunteers at Doi Lor Community Rehabilitation Center, Doi Lor District, Chiang Mai Province, Thailand.** Journal of Associated Medical Sciences 54 (3):11-17, 2021.
10. Siriphan Kongsawasdi, Premika Machareonsap, Noppariht Thrawat. **Range of motion and joint angle in small breed dog during walking and swimming with and without life jacket**. Veterinary Integrative Sciences, 18(2), 133-140, 2020.
11. Siriphan Kongsawasdi, Jakkrit Klaphajone, Pakorn Wivatvongvana, Kanokwan Watcharasaksilp. **Prognostic Factors of Functional Outcome Assessed by Using the Modified Rankin Scale in Subacute Ischemic Stroke**. Journal of Clinical Medicine Research, 11(5), 375‐382, 2019.
12. Siriphan Kongsawasdi, Jakkrit Klaphajone, Kanokwan Watcharasaksilp, Pakorn Wivatvongvana. **Prognostic Factors of Functional Recovery from Left Hemispheric Stroke**. The Scientific World Journal, vol. 2018, Article ID 4708230, 7 pages, 2018.
13. Siriphan KONGSAWASDI, Sittidej MAHASAWANGKUL, Pornsawan PONGSOPAWIJIT, Kajornphat BOONPRASERT, Korakot NGANVONGPANIT. B**iomechanical Parameters of Asian Elephant (Elephas maximus) Walking Gait.** Kafkas Universitesi Veteriner Fakultesi Dergisi, vol. 23, no. 3, pp.357–362, 2017.
14. Siriphan Kongsawasdi, Jakkrit Klaphajone, Kanokwan Watcharasaksilp, Pakorn Wivatvongvana. **Clinical predictors for walking recovery within six months post stroke: A retrospective cohort study in Thailand.** Physiotherapy Practice and Research. Vol 38, no.2, pp.87-92, 2017.
15. Korakot Nganvongpanit, Napat Ruamrungsri, Boonyapawn Tepsoontorn, Terdsak Yano, Siriphun Kongsawasdi. **Effects of swimming frequency on body weight and serum lipid profile in small-breed dogs during a four-month period.** Thai Journal of Veterinary Medicine, vol. 46, no.4, pp.655–661, 2016.
16. Korakot Nganvongpanit, Parptawan Deein, Sajika See-Ngam, Terdsak Yano, Siriphun Kongsawasdi. **Determination of Serum Lactate and Glucose in Dogs during Swimming Exercise.** Thai Journal of Veterinary Medicine, vol. 45, no. 3, 455–461, 2015.
17. Kaweesak Chittawatanarat, Sakda Pruenglampoo, Siriphan Kongsawasdi, Busaba Chuatrakoon, Jayanton Patumanond. **The variations of body mass index and body fat in adult Thai people across the age spectrum measured by bioelectrical impedance analysis.** Clinical interventions in aging, vol. 6, pp. 285–294, 2011.
18. Korakot Nganvongpanit, Parptawan Deein, Sajika See-Ngam, Terdsak Yano, Siriphun Kongsawasdi. **Heart rate change during aquatic exercise in small, medium and large healthy dogs.** Thai Journal of Veterinary Medicine, vol. 41, no. 4, pp. 455–461, 2011.

RESEARCH INTEREST

- Wearable sensor for postural sway and animal gait analysis
- Neurorehabilitaion (focused on post-acute stoke rehabilitation)
- Animal rehabilitation (applied physical therapy intervention to animal)
- Elephant gait analysis
- Mobile body weight support for gait training

CURRENT RESEARCH (2022-2024)

- Evaluation of balance and motion using wearable sensor technology. Granted by Northen Science Park, Chiang Mai University, 2024.
- Telerehabilitation for stroke survivors in community, Granted by Faculty of Associated Medical Sciences Research Chiang Mai University, 2023.
- Kinematic gait analysis in lameness elephants**,** Granted by Faculty of Associated Medical Sciences Research Chiang Mai University, 2023.
- Respiratory and pulmonary care advice material for ethic group in Northern area of Thailand, Granted by Faculty of Associated Medical Sciences Research Chiang Mai University, 2021.
- Development of machine learning for risk of obstructive pulmonary disease evaluation, Granted by Faculty of Associated Medical Sciences Research Chiang Mai University, 2021.
- Development of portable postural control assessment device, Granted by Faculty of Associated Medical Sciences Research Chiang Mai University, 2022.
- Community-based rehabilitation for disabled at Doylor district, Chiang Mai, Granted by Faculty of Associated Medical Sciences Research Chiang Mai University, 2022.
- Development of physical therapy service using a mobile body weight support for gait training prototype

Award

Balance-D: Smart Fall Prevention System with Sensor and Personalized Training Program

- Gold Medal Award and Best Internation Innovation Special Prize from Korea Invention Promotion Association, Indonesia Inventor Day 2024, Bali Indonesia
- The Best Healthy Living Innovation Awards 2024 for Healthy Living Innovation, Innovation Driven Enterprise for Sustainability in Chiang Mai. Hosted by The Hylife Group
- First-runner up Prime Minister's Award for Health Promotion Innovation 2023, Thai Health Organization (ThaiHealth)
- CMU: Research to Market (R2M) 2023 by CMU Science and Technology Park, Chiang Mai University (STeP)
- High market potential award: MEDCHIC Health Hackathon 2024, Suandok Medical Innovation District (SMID)

Biocybermetric: Rehab Innovation; Recovery life through rehabilitation devices and robotics

- Second-runner up MEDCHIC Health Hackathon 2023, Suandok Medical Innovation District (SMID)