Miao-Ju Hsu, PT, PhD

Educational Background

- Ph.D University of Iowa, Iowa, USA
- MS University of Iowa, Iowa, USA
- BS National Taiwan University, Taipei, Taiwan

Expertise

- Cardiopulmonary physical therapy
- Exercise physiology
- Health promotion
- Physical agents

Course Coordinator

- Ethics in Physical Therapy
- Introduction to Paper Reading and Critique
- Level I Fieldwork (I)
- Level II Fieldwork (I)
- Specific Issues in Geriatric Physical Therapy
- Special Topics on Exercise Physiology
- Seminar (III)

Current Research Projects

- The relationship between trunk control ability, respiratory function and diaphragm thickness in patients with stroke
- The application of intermittent pneumatic compression for improving lower extremity edema in heart failure





- Part-time physical therapist: Department of Rehabilitation, KMU, Koahsiung, Taiwan
- Full-time physical therapist: Mackay Memorial Hospital, Taipei Branch, Taipei, Taiwan

Journal Papers (in 5 years)

- Kuo NY, Liu JF, Lu HI, Lo CM, Hsien LC, Chang CL, <u>Hsu MJ</u>*. Home-Based Pulmonary Rehabilitation in Aged Individuals With Lung Tumor After Thoracoscopic Surgery. Topics in Geriatric Rehabilitation, 38(2), 110-119, 2022. (SCI)
- Wei, YY, Koh CL, <u>Hsu MJ</u>, Lo SK, Chen CH, Lin JH*. Effects of transcranial direct current stimulation combined with neuromuscular electrical stimulation on upper extremity motor function in patients with stroke. American Journal of Physical Medicine & Rehabilitation, 101(2), 145-151, 2022. (SCI)
- 3. Lee CT, Chien JY, **Hsu MJ**, Wu HD, Wang LY. Inspiratory muscle activation during inspiratory muscle training in patients with COPD. Respiratory Medicine, 190, 106676, 2021. (SCI)
- Huang CJ, Chan HL, Chang YJ, Chen SM, <u>Hsu MJ*</u>. Validity of the Polar v800 monitor for assessing heart rate variability in elderly adults under mental stress and dual task conditions. International Journal of Environmental Research and Public Health 18, 869, 2021.(SCI)
- Cheng CC, Huang CY, <u>Hsu MJ*</u>. The relationship between six minute walk test, handgrip strength and quality of life in individuals with acute myocardial infarction after percutaneous coronary intervention. Formos J Phys Ther 46(1): 13-24, 2021.
- Hsu MJ, Chan HL, Huang YZ, Lin JH, Hsu HH, Chang YJ*. Mechanism of fatigue induced by different cycling paradigms with equivalent dosage. Frontier Physiology. 11:545 | https://doi.org/10.3389/fphys.2020.00545, May 2020. (SCI)
- Tang WT, <u>Hsu MJ</u>, Huang YM, Hsu YT, Chuang LL, Chang YJ. Low Intensity Electrical Stimulation to Improve the Neurological Aspect of Weakness in Individuals with Chronic Anterior Cruciate Ligament Lesion. Biomed Res Int Volume |Article



ID 7436274 | 8 pages | https://doi.org/10.1155/2020/7436274 (Mar), 2020. (SCI)

- Chen SC, <u>Hsu MJ</u>, Kuo YT, Lin RT, Lo SK, Lin JH. Immediate effects of noxious and innocuous thermal stimulation on brain activation in patients with stroke. Medicine. Feb;99(9):e19386, 2020. doi: 10.1097/MD.000000000019386. (SCI)
- Chen SC, Lin JH, Hsu JS, Shih CM, Lai JJ, <u>Hsu MJ *</u>. Influence of Alternate Hot and Cold Thermal Stimulation in Cortical Excitability in Healthy Adults: an fMRI Study. J. Clin. Med. 9(1): 18, 2020. https://doi.org/10.3390/jcm9010018 (SCI)
- Chuang CY, Lin SY, Li, MH, Chang YJ, <u>Hsu MJ*</u>. Six-Minute Walk Test in Community-Dwelling Older Adults: Treadmill Versus Corridor Walking Distances. Topics in Geriatric Rehabilitation. 35(4):266–272, 2019. (SCI)
- Chuang YF, Chen CC, <u>Hsu MJ</u>, Huang NJ, Huang YZ, Chan HL, Chang YJ. Age related changes of the motor excitabilities and central and peripheral muscle strength. J Electromyogr Kinesiol. 44:132-138, 2019.
- Chou YL, Chen HI, <u>Hsu MJ</u>, Chen CJ, Chen CH, Lin JH*. Effects of cycling training on sensorimotor activation and functional recovery of lower extremity in patients with stroke: a preliminary fMRI study. Formos J Phys Ther 44(1): 9 - 17 Mar, 2018.
- Ye ZY, Hsu MJ, Hsiao SF, Chen CH, Huang MH, Lin RT, Lin JH*. Time dependent and age Effects of transcranial direct current stimulation combined with neuromuscular electrical stimulation on corticomotor excitability in healthy adults. Formos J Phys Ther 44(1): 18 -28 Mar, 2018. (SCI)
- Yeh CP, Huang HC, Chang Y, Chen MD, <u>Hsu MJ*</u>. The Reliability and Validity of a Modified Squat Test to Predict Cardiopulmonary Fitness in Healthy Older Men. Biomed Res Int 2:4863454. doi: 10.1155/2018/4863454. 2018. (SCI)
- 15. Chen CC, Tang YC, **Hsu MJ**, Lo SK, Lin JH*. Effects of the hybrid of neuromuscular electrical stimulation and noxious thermal stimulation on upper extremity motor recovery in patients with stroke: a randomized controlled trial. Top Stroke



Rehabil 27:1-7. doi: 10.1080/10749357. 2018. (SCI)

 Chuang LL, Chuang YF, <u>Hsu MJ</u>, Huang YZ, Wong AMK, Chang YJ*. Validity and reliability of the Traditional Chinese version of the Multidimensional Fatigue Inventory in general population. PloS One 10;13(5):e0189850. doi: 10.1371/journal.pone.0189850. 2018.(SCI)

