

Curriculum Vitae

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Associate Professor

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Educational Background

Ph. D.	Allied Health Sciences	National Cheng Kung University	2013
M.S.	Behavior Sciences	Kaohsiung Medical University (KMU)	2000
B.S.	Physical Therapy	Kaohsiung Medical University (KMU)	1993

Experiences

Associate Professor, Department of Physical Therapy, KMU	2013 – Now
Assistant Professor, Department of Physical Therapy, KMU	2007 – 2013
Lecturer, Department of Physical Therapy, KMU	2000 – 2007
Teaching Assistant, Department of Rehabilitation Medicine, KMU	1993 – 2000
Part time --	
Senior Physical Therapist, Department of Phys Med & Rehabil, KMUH	2000 – 2015
Junior Physical Therapist, Department of Phys Med & Rehabil, KMUH	1993 – 2000

Clinical Interests

Physical Therapy for Neurological Disease

Women's Health and Physical Therapy

Core strengthening exercises

Research Interests

My research interests are focusing on two major areas:

- 1) Neurological physical therapy
- 2) Evaluation of trunk muscle functions
- 3) Evaluation of core stability

- 4) Evaluation of balance or mobility in stroke patients
- 5) Rehabilitative ultrasound imaging for abdominal muscles
- 6) Physical therapy for pregnant-related pelvic pain
- 7) Core strengthening exercises for postpartum women
- 8) Evaluation and training of abdominal muscle function for women after breast reconstruction with a transverse rectus abdominis myocutaneous flap

Courses

- Applied neuroscience (Fundamentals for physical therapy)
- Neurological physical therapy
- Functional training of activities of daily living
- Women's health and physical therapy
- Principles and application of core muscle training
- Fieldwork

Research Projects

- 2013.8.1-2014.7.31(extend to 12.31), National Science Council, The comparisons of effects of core stability exercise and Tai Chi on core muscle performances, core stability and balance in community-living elderly, NSC 102-2314-B-037 -018, \$ 833,000
- 2012.6.1-2013.5.31, National Science Council, Development of pressure feedback system for lumbar stabilization and software for real-time visual and auditory feedback on pressure, NSC 101-2622-B-037 -003 -CC3, \$ 450,000
- 2011.6.1-2012.5.31, National Science Council, Development of the isometric dynamometer system for trunk muscles and software for real-time visual feedback on muscle strength, NSC 100-2622-B-037 -001 -CC3, \$ 790,000
- 4. 2009.8.1~2011.7.31, National Science Council, Post-mastectomy Women underwent Transverse Rectus Abdominis Musculocutaneous Flap (TRAM) Surgery: Its Influence on Abdominal Muscle Function and the Effects of Therapeutic Exercises, NSC 98-2314-B-037 -008 -MY2, \$ 1,628,000

Patents

- **Liaw, Lih-Jiun;** Hou, Yi-Yu; Guo, Lan-Yuen; Tsai, Te-Shin/The pressure feedback system of human muscles stability/M453139/R.O.C./NSC 101-2622-B-037 -003 -CC3 2013~2022
- **Liaw, Lih-Jiun;** Tsai, Yung-Shen Hsu, Ar-Tyan; Guo, Lan-Yuen; Liao, Chien-Fen; Chen, Cheng-Chun /Isometric Dynamometer Device for Trunk Muscles/I 468151/R.O.C./NSC 100-2622-B-037 -001 -CC3, 2015~2032

Publication (Articles in Peer-Reviewed Journals)

- Liao CF, **Liaw LJ**, Wang RY, Su FC, Hsu AT. Relationship between trunk stability during voluntary limb and trunk movements and clinical measurements of patients with chronic stroke. *J Phys Ther Sci*. 2015 ;27(7):2201-6. (SCI)
- You YL, Su TK, **Liaw LJ**, Wu WL, Chu IH, Guo LY. The effect of six weeks of sling exercise training on trunk muscular strength and endurance for clients with low back pain. *J Phys Ther Sci*. 2015;27(8):2591-6. (SCI)
- Wu WL*, Chen YY, Wang CC, Chen CH, Guo LY, **Liaw LJ**. Influence of working memory task and time on postural control of children with attention deficit hyperactivity disorder. *J Phys Ther Sci* 2014;26(3):345-347. (SCI)
- **Liaw LJ**, Lin SD, Guo LY, Hou YY, Hou MF, Hsu AT*. An ultrasound imaging evaluation of the abdominal wall muscles following breast reconstruction with unilateral pedicled transverse rectus abdominis myocutaneous (TRAM) flap. *Phys Ther* 2013;93(3):356-368. (SCI)
- Chen YY, **Liaw LJ**, Liang JM, Hung WT, Guo LY, Wu WL* .Timing perception and motor coordination on rope jumping in children with attention deficit hyperactivity disorder. *Phys Ther Sport* 2013;14(2):105-109. (SCI)
- **Liaw LJ***, Wu WL, Guo LY. Stabilizing Ability of Abdominal Muscles as Measured by Two Leg Loading Tests in Healthy Female. *FJPT* 2012;37(4):297-308.
- Hsu MJ*, **Liaw LJ**, Chang YJ .Metabolic Syndrome and Stroke. *FJPT* 2012;37(2):136-145.
- **Liaw LJ***, Liu MF, Guo LY, Liao CF, Tung YC, Wu YT. Abdominal Muscle Thickness Measured by Ultrasound Imaging at Different Regions in Healthy Young Females and Inter- rater Reliability. *FJPT* 2011;36(2):100-111.
- **Liaw LJ***, Hsu MJ, Liao CF, Liu MF, Hsu AT*. The Relationships between Inter-recti Distance Measured by Ultrasound Imaging and Abdominal Muscle Function in Postpartum Women: a 6-month Follow-up Study. *JOSPT* 2011;41(6):435-443. (SCI)
- Liu MF, Chou PH, **Liaw LJ**, Su FC* .Lower-limb adaptation during squatting after isolated posterior cruciate ligament injuries. *Clinical Biomechanics*. *Clinical Biomechanics* 2010;25:909-913. (SCI)
- Chen SS, Lin YC, **Liaw LJ**, Ou YL, Yang YS, Chang JJ*. Comparison of Two Resistive Arm Movement Trainings on Functional Recovery of Upper Extremity in Patients With Chronic Stroke. *Journal of Taiwan Occupational Therapy Association* 2010;28(2):16-30.
- **Liaw LJ**, Hsieh CL, Lo SK, Chen HM, Lee S, Lin JH*. The relative and absolute reliability of two balance performance measures in chronic stroke patients. *Disability and Rehabilitation* 2008;30(9):656-661. (SSCI)
- **Lih-Jiun Liaw**, Chien-Fen Liao, Mei-Chih Huang*. Appraisal of the Professional Code of Ethics for Physical Therapy. *Formosan Journal of Physical Therapy (FJPT)* 2008;33(3):197-202.
- Chien-Fen Liao, **Lih-Jiun Liaw**, Mei-Chih Huang*. Ethical and Legal Issues of Medical Negligent Caused by Physical Therapy Intern. *Formosan Journal of Physical Therapy* 2008;33(3):203-208.
- Chen HM, Hsieh CL, Lo SK, **Liaw LJ***, Chen SM, Lin JH*. The test-retest reliability of two mobility performance tests in patients with chronic stroke. *Neurorehabilitation and Neural Repair* 2007;21:347-352. (SCI)
- **Liaw LJ**, Hsieh CL, Lo SK, Lee S, Huang MH, Lin JH*. Psychometric properties of the modified Emory Functional Ambulation Profile in stroke patients. *Clinical*

Rehabilitation 2006;20:429-437. (SCI)

- **Lih-Jiun Liaw***, Sin-Mei Liu, Shih-Fen Hsiao*. The reliability of measuring of inter-recti distance using real-time ultrasonography. Formosan Journal of Physical Therapy 2005;31:213-218.