

## Curriculum Vitae

**Name** Roongtiwa Vachalathiti

**Position** Associate Professor  
Former Dean, Faculty of Physical Therapy, Mahidol University  
19 November 2007 - 18 January 2020

**Work place** Faculty of Physical Therapy, Mahidol University  
999 Phuttamonthon 4 Road, Salaya, Nakhon Pathom 73170, THAILAND

**Telephone (work)** (66) 2-441-5450 ext 21702

**Telephone (mobile)** (66) 85-151-5198

**Fax** (66) 2-441-5454

**e-mail address** roongtiwa.vac@mahidol.ac.th, roongtiwa.vac@mahidol.edu

**ORCID id** <https://orcid.org/0000-0003-1044-3174>

### Education

2003-2004	Research Scholar, Biomechanics Laboratory, Department of Kinesiology, University of Southern California, USA
1990-1994	Ph.D. (Physiotherapy), The University of Sydney, Australia
1985-1989	M.Sc. (Physiotherapy), Mahidol University
1979-1983	B.Sc. (Physiotherapy), Mahidol University

### Research Interests

Biomechanical analysis of human movements and sports  
Physical therapy in musculoskeletal and neurological conditions

### Research Mentorship

2005	Mentor for TRF Grant for New Research, Dr. Adit Chiradejnant and Asst. Prof. Dr. Rotsalai Kanlayanaphotporn, Faculty of Allied Health Science Chulalongkorn University
------	---

### **Professional Activities**

1984-Present	Member, The Physical Therapy Association of Thailand
1986	Delegate of Thailand in the World Confederation for Physical Therapy, Sydney, Australia
1996	Delegate of Thailand in the 6 <sup>th</sup> Asian Confederation for Physical Therapy, Kuala Lumpur, Malaysia
1997-1999	Member, Committee of the Practice of the Art of Healing Commission, Ministry of Public Health, Thailand
1996-2000	Member, Committee of Internal Examiner, Faculty of Physical Therapy and Sport Technology, Rungsit University
1994-2006	Editorial Board of Thai Journal of Physical Therapy; an official publication of the Physical Therapy Association of Thailand
1996-2002	Vice President, The Physical Therapy Association of Thailand
1999-2002	Member, Committee of the Professional Commission in the Branch of Physical Therapy, Ministry of Public Health, Thailand
2002	Chairman, The Scientific Committee of the 8 <sup>th</sup> Asian Confederation for Physical Therapy, 2002
2005-2008	Vice President, Physical Therapy Council, Thailand
2013-2015	Executive Editorial Board, The International Journal of Nursing and Health Science
2010-2016	Committee, Physical Therapy Council, Thailand
2010-Present	Editorial Board of Thai Journal of Physical Therapy; an official publication of the Physical Therapy Association of Thailand
2011-2020	Chairman, The Physical Therapy Education Consortium of Thailand
2015-2020	Committee, Medical Device Control Division, Ministry of Public Health
2017-2020	Committee, Physical Therapy Council, Thailand

2021-Present            Consultant, National Physical Therapy Licensing  
Examination Subcommittee, Physical Therapy Council, Thailand

### **Professional Awards**

1999                      Outstanding Alumni, School of Physiotherapy  
Faculty of Medicine Siriraj Hospital, Mahidol University

2010                      Outstanding Physical Therapist  
The Physical Therapy Association of Thailand

### **Publications**

#### **International Publications**

1. **Vachalathiti R**, Crosbie J, Smith R. Effects of age, gender and speed on three dimensional lumbar spine kinematics. *Australian Journal of Physiotherapy* 1995; 41(4): 245-53.
2. Crosbie J, **Vachalathiti R**. Synchrony of pelvic and hip joint motion during walking. *Gait and Posture* 1997; 6: 237-48.
3. Crosbie J, **Vachalathiti R**, Smith R. Age, gender and speed effects on spinal kinematics during walking. *Gait and Posture* 1997; 5: 13-20.
4. Crosbie J, **Vachalathiti R**, Smith R. Patterns of spinal motion during walking. *Gait and Posture* 1997; 5: 6-12.
5. Viriyavejakul A, **Vachalathiti R**, Pongvarin N. Botulinum treatment for post-stroke spasticity: low dose regime. *J Med Assoc Thai* 1998; 81(6): 413-9.
6. Tretriluxana J, **Vachalathiti R**, Pongvarin N. Functional activity measure in acute stroke patients by using motor assessment scale: comparing right and left. *Journal of the Neurological Sciences* 2001; 187 (Supplement 1): S207-8.
7. **Vachalathiti R**, Asavavallobh C, Nilanont Y, Pongvarin N. Comparison of physical therapy and physical therapy with Amphetamine in sensorimotor recovery of acute stroke patients: randomized controlled trial. *Journal of the Neurological Sciences* 2001; 187 (Supplement 1): S253.
8. Sakulsriprasert P, **Vachalathiti R**, Vongsirinavarat M, Kantasorn J. Cross-cultural adaptation of modified Oswestry low back pain disability questionnaire to Thai and its reliability. *J Med Assoc Thai* 2006; 89: 1694-701.

9. Beeton K, De Kleijn P, Hilliard P, Funk S, Zourikian N, Bergstrom BM, Engelbert RHH, Van Der Net JJ, Manco-Johnson MJ, Petrini P, Van Den Berg M, Abad A, Feldman BM, Doria AS, Lundin B, Poonnoose PM, John JA, Kavitha ML, Padankatti SM, Devadarasini M, Pazani D, Srivastava A, Van Genderen FR, **Vachalathiti R**. Recent developments in clinimetric instruments. *Haemophilia* 2006; 12 (Supplement 3): 102-7.
10. Kanlayanaphotporn R, Chiradejnant A, **Vachalathiti R**. The immediate effects of mobilization technique on pain and range of motion in patients presenting with unilateral neck pain: a randomized controlled trial. *Arch Phys Med Rehabil* 2009; 90:187-92.
11. Kanlayanaphotporn R, Chiradejnant A, **Vachalathiti R**. Immediate effects of the central posteroanterior mobilization technique on pain and range of motion in patients with mechanical neck pain. *Disability & Rehabilitation* 2010; 32: 622-8.
12. Woravutrangkul S, Jarungjitaree S, Sritara C, **Vachalathiti R**, Chuaychoo B. Efficacy of pursed lips breathing with forced expiration techniques and active cycle of breathing technique on pulmonary mucus clearances in healthy subjects. *J Phys Ther Sci*. 2010; 22: 247-54.
13. Khruakhorn S, Sritipsukho P, Siripakarn Y, **Vachalathiti R**. Prevalence and risk factors of low back pain among the university staff. *J Med Assoc* 2010. 93 (Suppl.7); S142-S148.
14. Sakulsriprasert P, **Vachalathiti R**, Vongsirinavarat M, Kantasorn J. Effect of physical therapy treatments with and without spinal mobilization in individual with acute nonspecific low back pain: a randomized trial. *Indian Journal of Physiotherapy and Occupational Therapy* 2010; 4: 107-11.
15. Bovonsunthonchai S, Hiengkaew V, **Vachalathiti R**, Vongsirinavarat M. Gait symmetrical indexes and their relationships to muscle tone, lower extremity function, and postural balance in stroke population. *J Med Assoc* 2011; 94: 476-84.
16. Tantisuwat A, **Vachalathiti R**, Hiengkaew V, Assantachai P. Stepping responses during forward and backward fall recovery between Thai elderly fallers and non- fallers. *J Phys Ther Sci*. 2011; 23: 373-9.
17. Sakulsriprasert P, **Vachalathiti R**, Vongsirinavarat M, Pichaisak W. Responsiveness of pain, active range of motion, and disability in patients with acute nonspecific low back pain. *Hong Kong Physiotherapy Journal*. 2011;29: 20-4.
18. Chinkulprasert C, **Vachalathiti R**, Powers CM. Patellofemoral joint forces and stress during forward step-up, lateral step-up, and forward step-down exercises. *JOSPT* 2011; 41: 241-8
19. Taveetanalarp S, Prasertsukdee S, **Vachalathiti R**, Kaewkungwal J. Comparison of center of pressure and center of mass of gait initiation between children with typical development and children with diplegia. *J Phys Ther Sci*. 2011; 23: 469-75.
20. Jorrakate C, **Vachalathiti R**, Vongsirinavarat M, Sasimontonkul S. Lower extremity joint posture and peak knee valgus moment during side-step cutting in males and females. *J Phys Ther Sci*. 2011; 23: 585-9.

21. Somprasong S, Mekhora K, **Vachalathiti R**, Pichaiyongwongdee S. Effects of strain counter-strain and stretching techniques in active myofascial pain syndrome. *J Phys Ther Sci*. 2011; 23: 889-93.
22. Bovonsunthonchai S, Hiengkaew V, **Vachalathiti R**, Vongsirinavarat M. Gait symmetrical indexes and their relationships to muscle tone, lower extremity function, and postural balance in stroke population. *J Med Assoc Thai* 2011;94:476-84.
23. Bovonsunthonchai S, Hiengkaew V, **Vachalathiti R**. Obstacle crossing characteristics in the healthy young female and elderly female subjects *Siriraj Med J* 2012;64(2): 52-56.
24. Bovonsunthonchai S, Hiengkaew V, **Vachalathiti R**, Vongsirinavarat M, Tritriluxana J. Effect of speed on the upper and lower limb coordination during gait in individuals with stroke. *Kaohsiung J Med Sci* 2012;28(12): 667-672.
25. Tretriluxana J, Runnarong N, Tretriluxana S, Prayoonwiwat N, **Vachalathiti R**, Winstein C. Feasibility investigation of the Accelerated Skill Acquisition Program (ASAP): insights into reach-to-grasp coordination of individuals with post-acute stroke. *Topics in Stroke Rehabilitation* 2013;20(2):151-160.
26. Panichaporn W, Hiengkaew V, Thanungkul S, **Vachalathiti R**, Emasithi A. Postural stability and visual vertically perception of neck disturbance of the middle-aged during quiet standing. *J Phys Ther Sci*. 2013; 25: 281-285.
27. Sinsurin K, **Vachalathiti R**, Jalayondeja W, Limroongreungrat W. Altered peak knee valgus during jump-landing among various directions in basketball and volleyball athletes. *Asian Journal of Sports Medicine*. 2013, Sep; 4(3): 195-200.
28. Sinsurin K, **Vachalathiti R**, Jalayondeja W, Limroongreungrat W. How to control ankle joint in various directions of one leg jump-landing: frontal plane moment and EMG study. *Chinese Journal of Sports Biomechanics*. Volume 5, Supplement 1. 2013: 185-188
29. Borisut S, Vongsirinavarat M, **Vachalathiti R**, Sakulsriprasert P. Effects of strength and endurance training of superficial and deep neck muscles on muscle activities and pain levels of females with chronic neck pain. *J Phys Ther Sci*. 2013; 25: 1157-62.
30. Sinsurin K, **Vachalathiti R**, Jalayondeja W, Limroongreungrat W. Different sagittal angles and moments of lower extremity joints during single leg jump- landing among various directions in basketball and volleyball athletes. *J Phys Ther Sci*. 2013; 25: 1109-13.
31. Bovonsunthonchai S, **Vachalathiti R**, Pisarnpong A, Khobkhun F, Hiengkaew V. Spatiotemporal gait parameters for patients with Parkinson's disease compared with normal individuals. *Physiother Res Int* 2014; 19: 158-165.
32. Bovonsunthonchai S, Hiengkaew V, **Vachalathiti R**. Temporospacial analysis: Gait characteristics of young adults and the elderly in turning while walking. *Inter J Ther Rehabil*. 2015; 22: 129-134.

33. Bovonsunthonchai S, Khobkhun F, **Vachalathiti R**. Ground reaction forces of the lead and trail limbs during stepping over the obstacle. *Med Sci Monit*. 2015; 21: 2041-9.
34. Panichvit C, Bovonsunthonchai S, **Vachalathiti R**, Limpasutirachata K. Effect of foot muscles training on plantar pressure distribution during gait, foot muscle strength, and foot function in persons with flexible flatfoot. *J Med Assoc Thai* 2015; 98 (Suppl 5): S12-7.
35. Jalayondeja C, Jalayondeja W, **Vachalathiti R**, Bovonsunthonchai S, Sakulsriprasert P, Kaewkhuntee W, Bunprajun T, Upiriyasakul R. Cross-cultural adaptation of the compendium of physical activity: Thai translation and content validity. *J Med Assoc Thai*. 2015; 98 (Suppl 5): S48-52.
36. Anukoolkarn K, Vongsirinavarat M, Bovonsunthonchai S, **Vachalathiti R**. Plantar pressure distribution pattern during mid-stance phase of the gait in patients with chronic non-specific low back pain. *J Med Assoc Thai*. 2015; 98 (9):896-901.
37. Sinsurin K, Pluemjai S, Srisangboriboon S, Suanshan S, **Vachalathiti R**. Gluteus medius muscle activities during standing hip abduction exercises in the transverse plane at different angles. *J Med Assoc Thai*. 2015; 98 (Suppl 5): S48-S53.
38. Srisangaboriboon S, Sinsurin K, **Vachalathiti R**. Knee joint kinetics during single-leg landing in female athletes. *Journal of Sports Science and Technology*. 2015, Vol 15 (2), 11-18.
39. Sinsurin K, **Vachalathiti R**, Jalayondeja W, Limroongreungrat W. Knee muscular control during jump landing in multidirections. *Asian Journal of Sports Medicine*. 2016, May 11 (DOI: 10.5812/asjasm.31248)
40. Sinsurin K, Srisangaboriboon S, **Vachalathiti R**. Side-to-side differences in lower extremity biomechanics during multi-directional jump landing in volleyball athletes. *European Journal of Sport Science*. 2017; 17(6): 699-709. (DOI: 10.1080/17461391.2017.1308560)
41. Bovonsunthonchai S, Witthiwej T, Ngamsombat C, Sathornsumetee S, **Vachalathiti R**, Muangpaisan W, et al. Effect of spinal tap test on the performance of sit-to-stand, walking, and turning in patients with idiopathic normal pressure hydrocephalus. *Nagoya J Med Sci* 2018; 80: 53-60.
42. Sinsurin K, **Vachalathiti R**, Srisangboriboon S, Richards J. Knee joint coordination during single-leg landing in different directions. *Sports Biomech*. 2018; 1-13.  
<http://doi.org/10.1080/14763141.2018.1510024>
43. Bovonsunthonchai S, Witthiwej T, Ngamsombat C, Sathornsumetee S, **Vachalathiti R**, Muangpaisan W, Hengsomboon P, Thong-On S, Jankhum S, Yangyoo P. Effect of spinal tap test on the performance of sit-to-stand, walking, and turning in patients with idiopathic normal pressure hydrocephalus. *Nagoya J Med Sci* 2018; 80: 53-60.
44. Thong-On S, Bovonsunthonchai S, **Vachalathiti R**, Intiravoranont W, Suwannarat S, Smith R. Effects of strengthening and stretching exercises on the temporospatial gait parameters in patients with plantar fasciitis: a randomized controlled trial. *Ann Rehabil Med* 2019;43(6):662-676.

45. Bovonsunthonchai S, Thong-On S, **Vachalathiti R**, Intiravoranont W, Suwannarat S, Smith R. Alteration of the multi-segment foot motion during gait in individuals with plantar fasciitis: a matched case-control study. *Acta of Bioengineering and Biomechanics* 2019;21(4):73-82.
46. Sakulsriprasert P, **Vachalathiti R**, Kingcha P. Responsiveness of pain, functional capacity tests, and disability level in individuals with chronic nonspecific low back pain. *Hong Kong Physiotherapy Journal* 2020;40(1):1–7.
47. **Vachalathiti R**, Sakulsriprasert P, Kingcha P. Decreased functional capacity in individuals with chronic non-specific low back pain: a cross-sectional comparative study. *Journal of Pain Research* 2020;13;1979-1986.
48. Surakhamhaeng A, Bovonsunthonchai S, **Vachalathiti R**. Effects of balance and plyometric training on balance control among individuals with functional ankle instability. *Physiother Quart* 2020; 28 (2): 38-45. DOI 10.5114/pq.2020.92474.
49. Bovonsunthonchai S, Thong-On S, **Vachalathiti R**, Intiravoranont W, Suwannarat S, Smith R. Thai version of the foot function index: a cross-cultural adaptation with reliability and validity evaluation. *BMC Sports Science, Medicine and Rehabilitation* 2020;12(56):1-11.
50. Sakulsriprasert S, **Vachalathiti R**, Kingcha P. Association among pain, disability level, and functional capacity in individuals with chronic non-specific low back pain. *J Back and Musculoskeletal Rehabilitation* 2021;34;149-157.
51. Hnin HH, Bovonsunthonchai S, Witthiwej T, **Vachalathiti R**, Ariyaudomkit R. Feasibility of action observation effect on gait and mobility in idiopathic normal pressure hydrocephalus patients. *Dement Neuropsychol* 2021;15(1):79-87.
52. Bovonsunthonchai S, Witthiwej T, **Vachalathiti R**, Sathornsumetee S, Ngamsombat C, Chawalparit O, Muangpaisan W. Validity of self-reporting of gait alteration after tap-test among patients with idiopathic Normal Pressure Hydrocephalus. *Hum Mov* 2021 (Accepted)

### **National Publications**

1. Boonsinsukh P, **Chanpitayanukulij R**, Jarungjitare S. A study of ultrasonic treatment using stationary technique. *Thai Journal Physical Therapy* 1988; 11: 5-13. (in Thai)
2. Boonsinsukh P, **Chanpitayanukulij R**. A comparative study of spinal goniometry between standard goniometer and new invented goniometers. *Thai Journal of Physical Therapy* 1988; 11: 14-25. (in Thai)
3. **Chanpitayanukulij R**, Muangsombut S, Boonsinsukh P. Rehabilitation of hand injuries after reconstructive surgery. *Thai Journal of Physical Therapy* 1989; 12: 5-17. (in Thai)
4. **Vachalathiti R**, Boonsinsukh P, Pongvarin N, Vajirapornitip A. The rotatory manipulation during cervical traction for painful neck rotatory manipulation during cervical traction for painful neck movement. *Siriraj Hospital Gazette* 1991; 43: 166-71.

5. **Vachalathiti R**, Srisuk S, Weerachatanukul W, et al. The study of thoracic and lumbar curvature during standing, erect sitting and relax sitting in Thai males and females aged 18-24 years. *Thai Journal of Physical Therapy* 1995; 17(2): 5-16. (in Thai)
6. Suteerawattananon M, **Vachalathiti R**. The prevalence study of therapeutic techniques used in physical therapy. *Thai Journal of Physical Therapy* 1996; 18(1): 38-48. (in Thai)
7. Thontong P, Suteerawattananon M, **Vachalathiti R**. The study of ankle-foot position and weight distribution in hemiplegic patients. *Thai Journal of Physical Therapy* 1996; 18(2): 23-36. (in Thai)
8. Wongjitrat C, **Vachalathiti R**, Chaisevikul R, Pongvarin N. The pilot study of the effect of physical therapy with amphetamine in sensorimotor recovery of acute stroke patients. *Siriraj Hospital Gazette* 1996; 48: 577-84.
9. Chantopas J, Chaisilwattana P, **Vachalathiti R**, Vajiraporn tip A. The relationships between spinal curvature changes and backache during pregnancy in full term primipara. *Thai Journal of Physical Therapy* 1997; 19: 79-101.
10. **Vachalathiti R**, Weerachatanukul W. The injury and physiotherapy in Thai National long distance runners during training at Doi-inthanon. *Thai Journal of Physical Therapy* 1997; 19: 188-99. (in Thai)
11. **Vachalathiti R**. Effects of age, gender and body mass index on spinal curvature in standing. *Thai Journal of Physical Therapy* 1998; 20: 31-41.
12. **Vachalathiti R**, Impoolsup A. Three-dimensional kinematic and kinetic gait analysis in young Thai adults, using the Motion Analysis<sup>TM</sup> system. *Siriraj Hospital Gazette* 1998; 50: 387-96.
13. Chewachutirungruang D, **Vachalathiti R**, Aranyavalai T, Bua-son W. Chest expansion and peak expiratory flow rate in young Thai adult. *Thai Journal of Physical Therapy* 1998; 20: 79-89. (in Thai)
14. Narongrach P, **Vachalathiti R**, Impoolsup A. Concentric isokinetic strength for knee flexor and extensor in female subjects with and without symptomatic knee osteoarthritis. *Thai Journal of Physical Therapy* 1999; 21: 1-17.
15. Boonyong S, Impoolsup A, **Vachalathiti R**. Effects of medial longitudinal arch support on plantar pressure distribution in asymptomatic flexible flatfoot. *Thai Journal of Physical Therapy* 1999; 21: 144-51.
16. Boonyong S, Impoolsup A, **Vachalathiti R**. Plantar pressure distribution pattern in normal Thai female. *Thai Journal of Physical Therapy* 1999; 21: 225-33.
17. Manorangsang S, Impoolsup A, **Vachalathiti R**. Comparison of three dimensional gait characteristics between knee osteoarthritic female subjects with and without pain. *Thai Journal of Physical Therapy* 1999; 21: 234-50.



18. Akamanon C, **Vachalathiti R**, Khemthong S. Physical therapy, occupational therapy and recreational therapy in elderly. Thai Journal of Physical Therapy 2000; 22: 60-62. (in Thai)
19. Prachasilchai S, **Vachalathiti R**, Pichaiyongwongdee S. Use of Berg balance test to identify falls in Thai elderly. Thai Journal of Physical Therapy 2000; 22: 115-32.
20. Sitthikongsak S, **Vachalathiti R**, Vichitvejpaisal P. The efficacy of computer- assisted instruction on gait in physical therapy students as compare to gait sheet. Thai Journal of Physical Therapy 2000; 22: 182-9. (in Thai)
21. Srimongkolchai P, Mekhora K, **Vachalathiti R**. Effects of hip flexion angle and duration of lumbar traction on lumbar elongation in sedentary healthy females. Thai Journal of Physical Therapy 2001; 23: 24-36.
22. SrungBoonmee K, **Vachalathiti R**, Charoensuk W. Estimated center of pressure (COP) in joint moment calculation. NECTEC Technical Journal 2003; 4: 424-6.
23. Piriyaprasart P, **Vachalathiti R**, Impoolsup A. Comparison of concentric isokinetic of trunk muscles performance between female subjects with and without low back pain. Thai Journal of Physical Therapy 2003; 25: 63-77.
24. Chewwasung W, Hiengkaew V, **Vachalathiti R**. Postural balance in elderly Thai women with different ages and lifestyle activities. Thai Journal of Physical Therapy 2004; 26: 1-9. (in Thai)
25. Hiengkaew V, **Vachalathiti R**, Chewwasung W. Difference in visual reaction time responded by the dominant leg between fallers and non-fallers. Thai Journal of Physical Therapy 2005; 27: 41-49.
26. Thongjunjua S, Jalayondeja W, **Vachalathiti R**, Suwanasri C. Effects of lumbar stabilization exercises on exercise level attained in healthy subjects. Thai Journal of Physical Therapy 2007; 29: 1-13.
27. Boonyoung C, Pichaiyongwongdee S, **Vachalathiti R**. Effect of cross training by by eccentric isotonic knee extensor training at fast velocity on muscle performance of untrained leg in Thai male. Thai Journal of Physical Therapy 2010; 32: 90-96.
28. Puanglumyai M, Pichaiyongwongdee S, **Vachalathiti R**. Comparison of ankle joint position sense, hip muscle performance, and hop performance between legs in athletes with unilateral chronic ankle instability. Journal of Sports Science and Technology 2011; 11: 295-316
29. Varusuvan N, Sakulsriparsert P, **Vachalathiti R**, Arteerapun J, Natehin P. Effect of physical therapy treatment with and without lumbar stabilization exercise in patients with chronic low back pain Journal of Health Science 2011; 20: 425-33.
30. Khobkhun F, Bovonsunthonchai S, **Vachalathiti R**, Pisarnpong A. Effects of the TrainingBIG<sup>TM</sup> and Task specific concepts on turning over 180 degrees in patients with Parkinson's disease. KGU Res J. 2012; 17(6):1003-1011.

31. Intolo P, **Vachalathiti R**, Pichaisak V, Prapisin S. Correlation of spinal curvature and conicity index in Thai women. *Journal of Medicine and Health Science* 2013; 20: 10-16.
32. 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.
33. Srisangaboriboon S, Sinsurin K, **Vachalathiti R**. Knee joint kinetics during single-leg jump landing in female athletes. *Journal of Sports Science and Technology* 2015; 15(2): 11-17.

### **International Proceedings**

1. Boonsinsukh P, **Chanpitayanukulkij R**. Quantitative assessment in vertebral manipulation. In the Proceedings of Tenth International Congress of the World Confederation for Physical Therapy. Sydney, Australia. 1987: 217-21.
2. Boonsinsukh P, Charmonnarumit C, **Chanpitayanukulkij R**. Comparison of S-D curve in motor and sensory nerve. In the Proceeding of Tenth International Congress of the World Confederation for Physical Therapy. Sydney, Australia. 87: 308-11.
3. Boonsinsukh P, Petrakard P, **Chanpitayanukulkij R**. Treatment of muscular and joint pain by using Thai traditional massage. In the proceedings of 3<sup>rd</sup> International Physiotherapy Congress. Hong Kong, 1990: 196-201.
4. **Vachalathiti R**, Crosbie J, Smith R. Age and speed effects on 3 dimensional lumbar spine kinematics. In the Proceeding of 7<sup>th</sup> International Conference on Biomedical Engineering. Singapore, 1992: 462-4.
5. **Vachalathiti R**, Crosbie J, Smith R. Effects of age and gender on spinal motion. International Society of Biomechanics XIVth Congress. France, July, 1993: 1370-1.
6. Tretriluxana J, **Vachalathiti R**. Femoral bone mineral density in acute and chronic stroke patients. Proceeding in the Second Pan-Pacific Conference on Rehabilitation: Neurological Rehabilitation, 2000: 33.
7. **Vachalathiti R**, McNitt-Gray J, Mathiyakom W, Boni H. Dynamics and multijoint control during single leg squat with and without activation of abdominal oblique muscles. American Society of Biomechanics Annual Meeting. Portland, Oregon September 8-11, 2004..
8. Sinsurin K, **Vachalathiti R**, Srisuk S. Effects of knee sleeves on ground reaction force in vertical jumping. Joint Congress 2007 SEA Games & ASEAN Para Games Scientific Congress and 5th Bangkok ASPASP International Congress on Sport Psychology. Thailand 2007.
9. Sinsurin K, **Vachalathiti R**, Surasak S. The effects of neoprene knee sleeves on knee mechanic in vertical jumping. International Sport Medicine Conference, Canada, June 3-7 2009.

10. Chinkulprasert C, **Vachalathiti R**, Powers CM. Patellofemoral joint kinetics during forward step-up, lateral step-up and forward step-down exercises. American Society of Biomechanics, Penn State University, August 26-29, 2009.
11. Chinkulprasert C, **Vachalathiti R**, Powers CM. Lower-extremity joint contributions during forward step-up, lateral step-up and forward step-down exercises. The Combined Sections Meeting for the American Physical Therapy Association (APTA) (CSM 2010), San Diego, California, USA, 17-20 February 2010, USA.
12. Jorrakate C, **Vachalathiti R**, Vongsirinavarat M, Sasimontonkul S. Associations between lower extremity posture and peak knee valgus moment during side-step cutting. The 17th Congress of the European Society of Biomechanics, 5 - 8 July 2010, United Kingdom.
13. Woravutrangkul S, Jarungjitaree S, **Vachalathiti R**, Sritara C, Chuaychoo B. Effects of pursed lips breathing with forced expiration techniques and breathing technique on airway clearance in chronic obstructive pulmonary disease patients. The 11<sup>th</sup> International Congress of the Asian Confederation for Physical Therapy, 10-13 October 2010, Indonesia.
14. Bovonsunthonchai S, Hiengkaew V, **Vachalathiti R**, Vongsirinavarat M. Joint velocity during gait in patients with stroke. The 2010 Asian Congress of Neurorehabilitation; 5-8 December 2010; Pattaya, Thailand.
15. Sinsurin K, **Vachalathiti R**, Jalayondeja W, Limroongreungrat W. How to control ankle joint in various directions of one leg jump-landing: frontal plane moment and EMG study. The 31<sup>st</sup> Conference of the International Society of Biomechanics in Sports, 7-11 July 2013, Taipei, Taiwan.
16. Bovonsunthonchai S, Khobkhun F, **Vachalathiti R**. Effects of visual and auditory on obstacle crossing characteristics. The 6<sup>th</sup> Asia Western Pacific Region (AWP) of World Confederation for Physical Therapy (WCPT) and The 12<sup>th</sup> International Congress of Asian Confederation for Physical Therapy (ACPT), 5-9 September 2013, Taichung, Taiwan.
17. Bovonsunthonchai S, **Vachalathiti R**, Liphatcharaporn T. Upper limb restraints on the hip and knee motions during gait in healthy adolescents. The 6<sup>th</sup> Asia Western Pacific Region (AWP) of World Confederation for Physical Therapy (WCPT) and The 12<sup>th</sup> International Congress of Asian Confederation for Physical Therapy (ACPT), 5-9 September 2013, Taichung, Taiwan.
18. Earde P, Vongsirinavarat M, Sakulsriprasert P, **Vachalathiti R**. Immediate effects of trunk stabilizer muscles training on postural control in patients with non-specific chronic low back pain. The 6<sup>th</sup> Asia Western Pacific Region (AWP) of World Confederation for Physical Therapy (WCPT) and The 12<sup>th</sup> International Congress of Asian Confederation for Physical Therapy (ACPT), 5-9 September 2013, Taichung, Taiwan..
19. Bovonsunthonchai S, **Vachalathiti R**, Laddawong T, Sakunkaruna Y. Ground reaction forces after taping during single drop landing in persons with functional ankle instability. The 11<sup>th</sup> International Association of Science and Technology for Development (IASTED). International Conference: Biomedical Engineering, 23-25 June 2014, Zurich, Switzerland.

20. **Vachalathiti R**, Bovonsunthonchai S, Thong-on S, Intawachirarat N. Intra-limb coordination during obstacle crossing over different obstacle heights. The 11<sup>th</sup> International Association of Science and Technology for Development (IASTED). International Conference: Biomedical Engineering, 23-25 June 2014, Zurich, Switzerland.
21. Sinsurin K, Srisangboriboon S, **Vachalathiti R**, Pluemjai S. Lower extremity flexion and vertical ground reaction force during landing in multidirections: A pilot study in female athletes. The 33<sup>rd</sup> International Conference of Biomechanics in Sports, 29 June–3 July 2015, Poitiers, France.
22. Suanchan S, **Vachalathiti R**, Sinsurin K, Bovonsunthonchai S. Effect of core stabilization on vertical jumping performance collegiate volleyball athletes. The 3<sup>rd</sup> International Conference on Hospitality, Leisure, Sports, and Tourism, 22-24 July 2015, Tokyo, Japan.
23. Bovonsunthonchai S, Witthiwej T, Ngamsombat C, Sathornsumetee S, **Vachalathiti R**. Gait alteration in patients with Idiopathic Normal Pressure Hydrocephalus after cerebral spinal fluid removal. *Gait & Posture* 2017;57(1):256-7.

### **National Proceedings**

1. **Chanpitayanukulki R**, Boonsinsukh P, Wongcharoenchai S. Treatment of low back pain using traditional Thai massage. The 26<sup>th</sup> Annual Conference. Faculty of Medicine Siriraj Hospital, Mahidol University, 1984: 111-21.
2. Jarungjitare S, **Chanpitayanukulki R**, Boonsinsukh P. Treatment of painful conditions with diadynamic current (abstract). The 20<sup>th</sup> Anniversary Celebration, School of Physiotherapy, Faculty of Medicine Siriraj Hospital, 1984: 90.
3. **Chanpitayanukulki R**, Boonsinsukh P, Stiller A, Van Der Heide B, Charmonnarumit C. Effects of traditional Thai massage pressure on the femoral artery in normal subjects. The 27<sup>th</sup> Annual Conference, Faculty of Medicine Siriraj Hospital Mahidol University, 1985.
4. Tretriluxana J, **Vachalathiti R**. The preliminary study of functional activity measure in acute stroke patients. Proceeding in 3<sup>rd</sup> Biennial Convention of the ASEAN Neurological Association (ASNA) & 39<sup>th</sup> Annual Meeting of the Neurological Society of Thailand, February 3-5, 1999.
5. Tretriluxana J, **Vachalathiti R**. Functional activity measure in acute stroke patients. Proceeding in Siriraj Scientific Congress “The Centenary Celebrations of Her Royal Highness Princess Mother”. 2000: 285.
6. Boonyoung C, Pichaiyongwongdee S, Vachalathiti R. Effect of cross training by eccentric isotonic knee extensor training at fast velocity on muscle performance of untrained leg in Thai male. The 2nd National Physical Therapy Conference, 26-28 April 2010, Thailand.
7. Chinkulprasert C, Vachalathiti R, Powers CM. Lower-extremity joint contributions during forward step-up, lateral step-up and forward step-down exercises. Faculty of Physical Therapy, Mahidol University Annual Conference 2010, 14 July 2010, Thailand.

8. Jorrakate C, **Vachalathiti R**, Vongsirinavarat M. Associations between lower extremity posture and peak knee valgus moment during side-step cutting. Faculty of Physical therapy, Mahidol University Annual Conference 2010, 14 July 2010, Thailand.
9. Tretriluxana J, Runnarong N, Tretriluxana S, Prayoonwiwat N, **Vachalathiti R**, Winstein C. A proof-of-principle and feasibility investigation of the Accelerated Skill Acquisition program (ASAP) for upper extremity recovery in individuals with post-acute stroke: a case report. The 2<sup>nd</sup> National Conference of Physical Therapy, 26-28 April 2010, Thailand.
10. Bovonsunthonchai S, **Vachalathiti R**, Laddawong T, Itthichaithanya N, Dutsadeephun R. Effect of ankle joint restraints on hip and knee angular displacements during walking in healthy adolescent. The 3<sup>rd</sup> National Conference of Physical Therapy, 2-4 May 2011, Bangkok Thailand.
11. Khobkhun F, Bovonsunthonchai S, **Vachalathiti R**, Pisarnpong A. Improvement of gait initiation after physical therapy treatment in patients with Parkinson's disease. The 1st ASEAN Plus Three Graduate Research Congress; 1-2 March 2012; Chiangmai, Thailand.
12. Suanchan S, **Vachalathiti R**, Sinsurin K, Bovonsunthonchai S. Effect of Intentional core stabilization on jump height, take-off velocity and flight time during countermovement jump in collegiate volleyball athletes. The 7<sup>th</sup> National Conference of Physical Therapy, 23-26 June 2015, Bangkok, Thailand.
13. Pluemjai S, Sinsurin K, **Vachalathiti R**, Lamsam C. Hip joint kinetics and gluteus medius muscle activity while performing step tasks in Thai females with and without knee osteoarthritis: A pilot study. The 3rd International Physical Therapy Conference and the 4th Physical Therapy Mahidol University Research Symposium, 14-16 December 2016, Bangkok, Thailand.
14. Kingcha P, **Vachalathiti R**, Sakulsriprasert P. Comparison of functional performance and functional capacity between mild and moderate pain intensity in individuals with chronic non-specific low back pain. The 2<sup>nd</sup> International and 4<sup>th</sup> Nation Academic Conference: Research and Innovation in Health; 29-30 November 2018; Asia Hotel, Bangkok, Thailand.