

CURRICULUM VITAE



PERSONAL INFORMATION:

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Academic Position: Assistant Professor
Qualification: Ph.D. (Biomedical Science)
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EDUCATION:

2011 PhD (Biomedical Science), Chiang Mai University, Thailand
1993 MS. (Physiology of Exercise), Mahidol University, Thailand
1990 B.Sc. (Physical Therapy), Chiang Mai University, Thailand

POSITION:

1993- present Lecturer, Department of Physical Therapy, Faculty of Associated Medical Sciences, Chiang Mai University, Thailand
2000 - present Lecturer, Master of Science Program in Sports Science, The Graduate School, Chiang Mai University, Thailand
2018 - present Team of Physiotherapist for National Thai Cycling Team, Sport Authority of Thailand.
2004 – 2017 Specialist in Sports Science for National Weightlifting Team, Sport Authority of Thailand.
2012 – 2015 Head of Musculoskeletal Physical Therapy Field, Department of Physical Therapy, Faculty of Associated Medical Sciences, Chiang Mai University, Thailand

PROFESSIONAL MEMBERSHIP:

- Thai Physical Therapy Association
- Physiology Society of Thailand
- The Sports Science Society of Thailand

RESEARCH INTERESTS:

- Core Stability Exercise and Assessments
- Rehabilitative Ultrasound Imaging in Musculoskeletal Assessments
- Sport Injury and Prevention
- Physical Fitness and Exercise Prescription

REVEIWER:

- Bulletin of Chiang Mai Associated Medical Sciences
- Thai Physical Therapy Journal
- Journal of Sports Science and Technology
- Journal of Back and Musculoskeletal Rehabilitation

AWARDS:

- Excellent Poster presentation Award in Basic Research. “Comparison of lateral abdominal muscles size between weightlifters and sedentary subjects”. The 31th Annual Scientific Meeting on Mahidol’s Day. Faculty of Medicine, Chiang Mai University; 24 September 2007.
- Excellent Advisory Award in Independent Study. “The Relationship between Lumbopelvic Stability and Low Back Pain in Weightlifters”. Sports Science Program, Graduate School Chiang Mai University, January 2008.

TRAINING:

Rehabilitative Ultrasound Imaging in Musculoskeletal Assessments. 1-20 November 2007. Division of Physiotherapy, School of Health and Rehabilitation Sciences, The University of Queensland and Mater/UQ Back Stability Clinic, Mater Health Services, South Brisbane, Queensland.

RESEARCH GRANTS:

Primary Investigator

2018-2019 Investigation of the prevalence rate, occupational stress and disability in professional bus drivers with musculoskeletal disorders: A pilot feasibility study in Northern Thailand (The Associated Medical Sciences Faculty Research Fund)

2014-2015	The study of scapular muscles stabilizer strength in weightlifters (Sport Authority of Thailand Fund)
2012-2013	Cardiopulmonary response to core stabilizing exercise training in healthy subjects (The Associated Medical Sciences Faculty Research Fund)
2011-2012	Immediate effects of Pilates training on cardiopulmonary physiological response (Graduate School Fund)
2008-2009	Effects of knee and back educational and therapeutic programs in Thai national weightlifters (Sport Authority of Thailand Fund)
2003-2004	Cardiovascular response during aerobic dance in normal subjects (Supporting Research Fund, Faculty of Associated Medical Sciences, ChiangMai University)
1999-2000	Knee extension and flexion isokinetic torque in anterior cruciate ligament injury (Supporting New Researcher Fund, ChiangMai University)

Co-Investigator

2015-2017	Prevalence and correlates of physical activity in Thai children and youth (Thai Health Fund)
2013-2014	Pathways for preparing women and girls towards challenging professional weightlifters (International Cooperation and Development Department: International Olympic Committee Fund)
2010-2012	An investigation of hypoalgesic mechanisms of core stabilizing exercise: a randomized placebo-controlled trial (Thailand Research Fund in conjunction with The Ministry of University Affairs)
2008-2009	Analysis of injuries and core stability training for excellence of Thai weightlifters (Sport Authority of Thailand Fund)
2007-2008	Analysis of injuries and rehabilitation for excellence of Thai national weightlifters (Sport Authority of Thailand)
2005-2006	Effects of Pilates training on flexibility, lumbo-pelvic stability levels and stress in healthy subjects (Thai Health Promotion Foundation)

PUBLICATIONS:

Peer-reviewed

International Publications

1. Mohan V, Paungmali A, Sitilertpisan P, Joseph LH. Improved respiratory characteristics in non-specific low back pain: Comparison of feldenkrais method versus routine physiotherapy. 2020 (in-press). (ISI/Scopus: Q4)
2. Coe-O'Brien R, Joseph LH, Kuisma R, Paungmali A, Sitilertpisan P, Pirunsan U. Outcome measures used in the smartphone applications for the management of low back pain: a systematic scoping review. *Health Information Science and Systems*. 2020; 8(5):1-12. (ISI/Scopus:Q1)
3. Sitilertpisan P, Joseph LH, Paungmali A, Pirunsan U, Chunchai T. Investigation of the contraction ratio of transversus abdominis and internal oblique muscles during lumbopelvic stability test. *Muscles, Ligaments and Tendons Journal*. 2020;10(1):86-91. <https://doi.org/10.32098/mltj.01.2020.10> (ISI/Scopus:Q2)
4. Mohan V, Paungmali A, Sitilertpisan P, Joseph LH, Omar FA, Azhar FZ. Effect of Core stability with Ball and Balloon Exercise on Respiratory Variables among Chronic Non-Specific Low Back Pain: an Experimental Study. *Journal of Bodywork & Movement Therapies*. 2020; 24: 196-202. (ISI/Scopus: Q2)
5. Mohamed WJ, Joseph LH, Canby G, Paungmali A, Sitilertpisan P, Pirunsan U. Are patient expectations associated with treatment outcomes in individuals with chronic low back pain? A systematic review of randomised controlled trials. *Int J Clin Prac*. 2020: doi: 10.1111/ijcp.13680. (ISI/Scopus: Q2)
6. Joseph LH, Standen M, Paungmali A, Kuisma R, Sitilertpisan P, Pirunsan U. Prevalence of musculoskeletal pain among professional drivers: A systematic review. *Journal of occupational health*. 2020: 62(1): e12150. (ISI/Scopus: Q2)
7. Joseph LH, Paungmali A, Sitilertpisan P, Pirunsan U, Chamnongkich S. Effects of Multimodal Intervention Program Among Elite Weightlifters with Knee Pain. *Asian J Sports Med*. 2020; 11(1):e95220. (ISI/Scopus: Q3)
8. Dissanguan D, Sitilertpisan P, Kiatwattanacharoen S, Joseph LH, Puangmali P, Puangmali A. Reliability and validity of the feedback sensor for activating the transversus abdominis muscle. *Open Biomedical Engineering Journal*. 2019;13:67-73.

9. Longlalerng K, Sonsuwan N, Uthaikhup S, Kumsaiyai W, Sitilertpisan P, Traisathit P, Pratanaphon S. Translation, cross-cultural adaptation and psychometric properties of the SRBD-Pediatric Sleep Questionnaire for obese Thai children with obstructive sleep apnea. *Sleep Med.* 2019; 53:45-50.
10. Dissanguan D, Sitilertpisan P, Kiatwattanacharoen S, Joseph LH, Puangmali A. Effectiveness of lumbar support in management of low back pain: A systematic review. *Online Journal of Health and Allied Sciences.* 2018;17(4):1-6.
11. Leonard H. Joseph, Benjamaporn Hancharoenkul, Patraporn Sitilertpisan, Ubon Pirunsan, Aatit Paungmali. Effects of massage as a combination therapy with lumbopelvic stability exercises as compared to standard massage therapy in low back pain: a randomized cross-over study. *The International Journal of Therapeutic Massage & Bodywork: Research, Education, & Practice.* 2018; 11 (4): 16-22.
12. Mohan V, Paungmali A, Sitilertpisan P, Md Dom S, Hashim UF, Daud SNB, Muthiah M. Reliability of diaphragmatic mobility assessment: A systematic review. *Polish Annals of Medicine* 2018;25(2):266–271.
13. Leonard Henry Joseph, Benjamaporn Hancharoenkul, Patraporn Sitilertpisan, Ubon Pirunsan, Aatit Paungmali. Comparison of effects between core stability training and sports massage therapy among elite weightlifters with chronic non-specific low back pain: A randomized cross-over study. *Asian Journal of Sports Medicine.* 2018; 9(1): e58644.
14. Aatit Paungmali, Leonard Henry Joseph, Khanittha Punturee, Patraporn Sitilertpisan, Ubon Pirunsan, Sureeporn Uthaikhup. Immediate effects of core stabilization exercise on beta-endorphin and cortisol levels among patients with chronic non-specific low back pain: A randomized cross over design. *Journal of Manipulative and Physiological Therapeutics* 2018; 41(3): 181-188.
15. Vikram Mohan, Aatit Paungmali, Patraporn Sitilertpisan, Umami Farhana Hashim, Sulaiman Md Dom, Munifa Binti Mazlan, Tuan Nur Nasuha. Respiratory characteristics of individuals with non-specific low back pain: A cross-sectional study. *Nursing & Health Sciences* 2018;20:224-230.
16. Vikram Mohan, Aatit Paungmali, Patraporn Sitilertpisan. 2018. The Science of Respiratory Characteristics in Individuals with Chronic Low Back Pain: Interpreting through Statistical Perspective. *Journal of Bodywork & Movement Therapies* 2018; 22 (1): 11–12.

17. Mohan V, Hashim UF, Md Dom S, Sitilertpisan P, Paungmali A. Reliability of diaphragmatic mobility assessment using a real time ultrasound among non-specific low back pain. *Bangladesh Journal of Medical Science* 2017; 16 (03): 443-447.
18. Joseph LH, Pirunsan U, Sitilertpisan P, Paungmali A. Effect of lumbopelvic myofascial force transmission on glenohumeral kinematics – A myo-fascia biomechanical hypothesis. *Polish Annals of Medicine* 2017;24 (2) 276–282.
19. Vikram Mohan, Aatit Paungmali, Patraporn Sitilertpisan, Leonard J Henry, Norazlin B Mohamad, Nurul Nadiah B Kharami. Feldenkrais method on neck and low back pain into the type of exercises and outcome measurement tools: A systematic review. *Polish Annals of Medicine* 2017; 24(1):77-83.
20. Mohan V, Paungmali A, Sitilertpisan P. Altered breathing pattern valuation relative to dyspnea assessment and treatment for low back pain: Effects of clinical practice. *Manual Therapy (Musculoskeletal Science and Practice)* 2017; 27: e1-e2.
21. Paungmali A, Joseph L, Sitilertpisan P, Pirunsan U, Uthaikhup S. Lumbo-pelvic core stabilization exercise and pain modulation among individuals with chronic nonspecific low back pain. *Pain Practice* 2017; 17(8):1008-1014.
22. Vikram Mohan, Maria Perri , Aatit Paungmali, Patraporn Sitilertpisan, Leonard Henry Joseph, Romizan Jathin, Munirah Bt Mustafa, Siti Hawa Bt Mohd Nasir. Intra-rater and inter-rater reliability of total faulty breathing scale using visual observation and videogrammetry methods. *Journal of Bodywork and Movement Therapies* 2017;21(3):694-698.
23. Mohan V, Paungmali A, Sitilertpisan P. Letter to Editor: Application of neuroplasticity theory through the use of the Feldenkrais Method with a runner with scoliosis and lower quarter pain: Additional respiratory mechanic principle, implication of the Feldenkrais method for clinical practice in neuro-musculoskeletal rehabilitation. *Journal of Bodywork and Movement Therapies* 2017;21(3):470-471.
24. Mohan V, Paungmali A, Sitilertpisan P, Jathin R, Mohamad N, Dom, S.M, Hawa N, Mustsfa M. Investigation of total faulty breathing scale (TFBS) using visual observation and videogrammetry methods. *Technology and Social Sciences* 2016; 593-600. Doi:10.1007/978-981-13-0074-5_57
25. Paungmali A, Joseph L, Sitilertpisan P, Pirunsan U, Uthaikhup S. Improvements in tissue blood flow and lumbopelvic stability after

lumbo-pelvic core stabilization training among patients with chronic non-specific low back pain. *Journal of Physical Therapy Science* 2016; 28(2): 635-640.

26. Areekul Amornsriwatanakul, Kasem Nakornkhet, Piyawat Katewongsa, Chairat Choosakul, Tippawan Kaewmanee, Kurusart Konharn, Atchara Purakom, Anoma Santiworakul, Patraporn Sitalertpisan, Sonthaya Sriramatr, Araya Yankai, Michael Rosenberg, and Fiona C. Bull. Results From Thailand's 2016 Report Card on Physical Activity for Children and Youth. *Journal of Physical Activity and Health (JPAH): The Official Journal of the International Society for Physical Activity and Health*. 2016, 13 (11), S291 -S298.
27. Leonard Joseph, Aatit Paungmali, Patraporn Sitalertpisan, Ubon Pirunsan, Sureporn Uthaikhup. Changes in transversus abdominis muscle thickness after lumbo-pelvic core stabilization training among chronic low back pain individuals. *Clinical Therapeutics*. 2015; 166(5):e312-316.
28. Aatit Paungmali, Patraporn Sitalertpisan, Khanittha Taneyhill, Ubon Pirunsan, Sureporn Uthaikhup. Reliability of pain intensity, tissue blood Flow, thermal pain threshold, pressure pain threshold and lumbo-pelvic stability tests in subjects with low back pain. *Asian Journal of Sports Medicine* 2012; 3(1): 8-14.
29. Patraporn Sitalertpisan, Julie Hides, Warren Stanton, Aatit Paungmali, Ubon Pirunsan. Multifidus muscle size and symmetry among elite weightlifters. *Physical Therapy in Sport*. 2012,13: 11-15.
30. Sureporn Phrompaet, Aatit Paungmali, Ubon Pirunsan, Patraporn Sitalertpisan. Effect of pilates training on lumbo-pelvic stability and flexibility. *Asian Journal of Sports Medicine*. 2011,2:16-22.
31. Patraporn Sitalertpisan, Ubon Pirunsan, Aatit Paungmali, Jonjin Ratanapinunchai, Suchart Kiatwattanacharoen, Hudsaleark Neamin, James J. Laskin. Comparison of lateral abdominal muscle thickness between weightlifters and matched controls. *Physical Therapy in Sport*. 2011,12:171-174.

National Publications

1. Khamwong P, Sitalertpisan P, Boripuntakul S, Pinkaew D, Tuanwaena P, Tadchana P, Pantueng S. The relationship of arm curl test and strength and endurance tests of elbow flexors with hand-held dynamometer in older adults. *J Med Tech Phy Ther*. 2019; 31(3):412-418.
2. Pongson Yaicharoen, Patraporn Sitalertpisan, Ubon Pirunsan, Rungthiwa Kanta-in, Satha Ratananusornsakul, Aatit Paungmali.

- Sport injuries of Chiang Mai University athletes and sport medicine management in The 44th University Sports of Thailand, academic year 2017. Chiang Mai Medical Journal 2019;58(2):87-97.
3. Jankaew A, Sitilertpisan P, Chamnongkich S. Effect of knee orthosis on walking performance in individuals with knee osteoarthritis. Journal of Associated Medical Sciences 2017; 50: 479-89.
 4. Natthawat Samokham, Patraporn Sitilertpisan. Effect of dynamic core stability exercise on physical performance in male dragon boat paddlers. Bulletin of Chiang Mai Associated Medical Sciences.2016; 49(1):153-161.
 5. Wilawan Chaiut, Aatit Paungmali, Patraporn Sitilertpisan. Effects of aerobic exercise with core muscle training on cardiopulmonary system in healthy individuals. Journal of sports Science and Technology 2014; 14 (2): 91-103.
 6. Boossaba Yodbangtoey, Aphinya Dattutawat, Naruepon Vongjaturapat, Wichai Julvanichpong, Patraporn Sitilertpisan. Development of sport motivation scale: SMS-II Thai version. Journal of sports Science and Technology 2014; 14 (2): 163-175.
 7. Wilawan Chaiut, Aatit Paungmali, Patraporn Sitilertpisan. Effects of aerobic exercise in combination with core muscle training on minute ventilation in healthy individuals. Bulletin of Chiang Mai Associated Medical Sciences 2014; 47 (3): 177-184.
 8. Hassadin Choeibal, Patraporn Sitilertpisan, Peanchai Khamwong. Effects of core muscle strength training to skill-related fitness. Journal of Sports Science and Technology 2012; 12(2):17-26.
 9. Apaporn Chankaew, Patraporn Sitilertpisan, Aatit Paungmali. Acute effects of pilates exercise on physiological responses of the cardiopulmonary system. Journal of Sports Science and Technology 2012; 12(2):39-49.
 10. Patcharin Tanmakul, Patraporn Sitilertpisan. Comparison of Treatment effect in Trigger Point of Upper Trapezius Muscle between Deep Friction Massage and Self – Stretching Technique. Journal of Preventive Medicine Association of Thailand. 2012; 2(2):158-165.
 11. Patraporn Sitilertpisan, Ubon Pirunsan, Aatit Paungmali, Jongjin Ratanapinunchai. Characteristics of lateral abdominal muscles in elite female Thai weightlifters. Journal of Sports Science and Technology. 2011, 11:327-336.
 12. Irun D, Paungmali A, Sitilertpisan P, Pirunsan U, Chamnongkich S, Keawyot W, Avirutdhakarn P. Effects of knee educational program in Thai national weightlifters. Journal of Sports Science and Technology. 2009; 9(1): 205-218

13. Narongrat Sawattikanon, Patraporn Sitolertpisan, Pattra Wattanapan, Jakkrit Klaphajone. Burst TENS for peroneal nerve stimulation in stroke patients: Effects on spasticity and ankle dorsiflexor strength. *Thai Physical Therapy*. 2008; 29(3): 104-114.
14. Patraporn Sitolertpisan, Sureeporn Phrompaet. Knee extension and flexion isokinetic torque in anterior cruciate ligament injury. *Thai Physical Therapy*. 2545. 24 (2): 35-44.

Proceeding conference

1. Patraporn Sitolertpisan, Jutarat Meesungnoen, Titikorn Chunchai. Size symmetry of Transversus abdominis muscle between passed and failed groups in lumbopelvic stability test. The 30th Physical Therapy Department and the 50th CMU anniversary International Conference. “Bridging the Gaps: From clinical reasoning to clinical practice for upper and lower quadrants & Physical Therapist functional Examination and Exercise Prescription for Aging Adults” The Holliday Inn Hotel, Chiang Mai, Thailand. 23-27 June 2014.
2. Titikorn Chunchai, Jutarat Meesungnoen, Patraporn Sitolertpisan. Contraction ratio of Transversus abdominis and internal oblique muscles during lumbopelvic stability test in healthy persons. The 30th Physical Therapy Department and the 50th CMU anniversary International Conference. “Bridging the Gaps: From clinical reasoning to clinical practice for upper and lower quadrants & Physical Therapist functional Examination and Exercise Prescription for Aging Adults” The Holliday Inn Hotel, Chiang Mai, Thailand. 23-27 June 2014.
3. Paungmali A, Taneyhill K, Sitolertpisan P, Pirunsan U, Uthaikhup S, Kasinrerak W, Vicenzino B. An Investigation of Hypoalgesic Mechanisms of Core Stabilizing Exercise: A Randomized Placebo-Controlled Trial. The Thailand Research Fund Conference. “*The 12th TRF Symposium*” The Holliday Inn Resort Regent Beach Cha-Am, Petchburi, Thailand. 10-12 October 2012.
4. Puntip Ngamchuang, Patraporn Sitolertpisan, Samatchai Chamnongkich. Effects of Pilates -Based Exercise on Balance. SAT 4th National Sports Science Research Conference: NSSRC). Oral presentation. Centrara and Conventional Khon Khan Hotel. Thailand. 13 September 2012.
5. Paungmali A, Sitolertpisan P, Pirunsan U, Taneyhill K, Uthaikhup S. Lumbo-pelvic core stabilization affects pain perception, tissue blood circulation and motor function in subjects with chronic nonspecific low back pain. Proceeding of The APTRS International Conference, Asian Physical Therapy Research Symposium. “*The first APTRS*”.

- The Tawana Hotel, Sirsuriwongse Ballroom, Bangkok, Thailand. 6-7 September 2012, pp. 1-7.
6. Aatit Paungmali, Khanittha Taneyhill, Patraporn Sitolertpisan, Ubon Pirunsan, Sureporn Uthaikhup. Therapeutic effects of lumbo-pelvic core stabilization among individuals with chronic low back pain. The 5th ISN international Sports Medicine and Sports Science Conference (SMSS2011). "Medicine, Science and Technology: Powering High Performance". Oral presentation. The Marriott Hotel, Kuala Lumpur. Malaysia. 27-30 September 2011.
 7. Paungmali A, Taneyhill K, Sitolertpisan P, Pirunsan U, Uthaikhup S. Reliability of measurement variables for the study of chronic low back pain. The Annual Conference of the Faculty of Associated Medical Sciences, Chiang Mai University, Oral presentation, Lotus Pang Suan Kaew Hotel, Chiang Mai. 30 November-3 December, 2010.
 8. Paungmali A, Hancharoenkul B, Sitolertpisan P, Pirunsan U, Chamnongkich S. Hypoalgesic effects of sport massage and lumbo-pelvic core stabilization on female elite nation weightlifters. Poster presentation, The Annual British Pain Society Scientific Conference, Manchester, United Kingdom, 13th – 16th April, 2010.
 9. Paungmali A, Irun D, Sitolertpisan P, Pirunsan U, Chamnongkich S, Keawyod W, Avirutdhakarn P. Therapeutic effects of knee educational and exercise programs in treatment of anterior knee pain on elite nation weightlifters. Poster presentation, The Annual British Pain Society Scientific Conference, Manchester, United Kingdom, 13th – 16th April, 2010.
 10. Dechatorn Irun, Aatit Paungmali, Patraporn Sitolertpisan, Ubon Pirunsan, Samatchai Chamnongkich, Wannipa Keawyod, Panik Avirutdhakarn. Effects of knee educational and exercise programs in Thai national weightlifters. The 50th years for excellence: Research Path 5th, 26-27 November 2009, Chiang Mai University, Thailand.
 11. Paungmali A, Sitolertpisan P, Pirunsan U, Chamnongkich S, Thonglorm, Jalernchai K. Effect of core stability exercise on level of lumbopelvic stability and pain in lower back among junior Thai weightlifters. Academic Celebration on the 45th Years in Establishment of Chiang Mai University & 30th Years for Occupational Therapy Department: Faculty of Associated Medical Sciences: Annual Academic Meeting 2009, Holiday Inn Hotel, Chiang Mai, Thailand. 2-4 December 2009.
 12. Patraporn Sitolertpisan, Aatit Pungmali, Jonjin Rattanapinunchai, Suchart Kiatwattanacharoen, Hudsaleark Neamin, Julie Hides, Warren Staton, Ubon Pirunsan. Reliability of trunk muscles size measurement using ultrasound imaging. The Annual Conference of the Faculty of

Associated Medical Sciences, Chiang Mai University, Oral presentation, Lotus Pang Suan Kaew Hotel, Chiang Mai. 2-4 December, 2008.

13. Patraporn Sitalertpisan, Aatit Pungmali, Jonjin Rattanapinunchai, Suchart Kiatwattanacharoen, Hudsaleark Neamin, Ubon Pirunsan. Intra and interrater reliability of lateral abdominal muscles thickness measurement using B-mode ultrasound imaging. 10th Mae Fah Luang Symposium and International Conference on Tea Production and Tea Products. 26-28 November 2008.
14. Patraporn Sitalertpisan, Aatit Pungmali, Jonjin Rattanapinunchai, Suchart Kiatwattanacharoen, Hudsaleark Neamin, Ubon Pirunsan. Comparison of lateral abdominal muscular size between weightlifters and sedentary subjects. Poster presentation (best poster presentation award). Mahidol conference, Faculty of Medicine, Chiang Mai University, 21-24 September 2007.
15. Patraporn Sitalertpisan, Ubon Pirunsan. Comparison of heart rate response during aerobic dance on land and aquatic aerobic dance. Asian confederation for Physical Therapy: the 8th General Assembly, 17 - 20 November 2002, Sofitel Central Plaza Bangkok Hotel, Bangkok, Thailand. p 89.
16. Patraporn Sitalertpisan, Prathomrat Saksri, Sriwan Panti. Cardiovascular response to 3 levels of intensity of aerobic exercise program in healthy age 30-69 years. The Annual Conference of the Faculty of Associated Medical Sciences, Chiang Mai University, Poster presentation, Chiang Mai. December 2006. p82.
17. Kanya Intaphong, Patraporn Sitalertpisan. Heart rate response during aerobic dance in normal subjects. Poster presentation. The 27th Mahidol conference, Faculty of Medicine, Chiang Mai University, 24 September 2003. p 44.
18. Patraporn Sitalertpisan, Patcharin Saungsong. Effect of walking speed on treadmill to heart rate, systolic blood pressure and RPP. Poster presentation. The 25th Mahidol conference, Faculty of Medicine, Chiang Mai University, 24 September 2001. p 14.