

# CURRICULUM VITAE

## MS. APIWAN MANIMMANAKORN

### PERSONAL DATA

Date of birth     April 16, 1966  
Nationality       Thai  
Religion           Buddhist  
Marital status    Married

### EDUCATION

**B.Sc.** Physical therapy, Khon Kaen University, Khon Kaen, Thailand, 1988  
Title of term paper; Tennis elbow: Pathophysiology and treatment.

**M.Sc.** Medical Physiology, Chiang Mai University, Chiang Mai, Thailand, 1993  
Thesis title; Prevention of glucocorticoid induced muscle atrophy by exercise in rats

**Ph.D.** Exercise Science, Lincoln University, Christchurch, New Zealand, 2012  
Thesis title; Real and simulated altitude training: physiological and performance effect

### VISITING FELLOW

The University of Melbourne, Victoria, Australia (November 2004- October 2005)

### PRESENT EMPLOYMENT

Assistant Professor; Department of Physiology, Faculty of Medicine, Khon Kaen University, Khon Kaen, 40002, Thailand

### AREA OF TEACHING COMPLETENCY

1. Exercise physiology and physiology of muscular system, respiratory system, body temperature, and energy metabolism for medical, paramedical and postgraduate students in faculty of medicine.
2. Exercise physiology for postgraduate students in graduate school

## RESEARCH INTEREST

1. Exercise and sport science; physiological and performance effects in real and simulated altitude training and hypoxia
2. Muscular and respiratory physiology
3. Whole body vibration therapy
4. Vitamin D supplementation

## PUBLICATION

1. **Manimmanakorn A**, Manimmanakorn N, Tunkamnerdthai O, Sangpongsanon S. Effects of Modified Thai Esan Folk Dance on VO<sub>2</sub> Max and Satisfaction among Elderly People. *KKU Res J* 2001; 6 (1):84-91.
2. Manimmanakorn N, **Manimmanakorn A**, Boukamtuem T. Algometer : Simple Design. *J Thai Rehabil* 1999; 9 (2):72-75.
3. Manimmanakorn N. **Manimmanakorn A**, Boukamtuem T. Reliability and validity of simple algometer. *J Thai Rehabil* 2005; 15 (2): 79-87.
4. McConell G K, **Manimmanakorn A**, Lee-Yong R S, Kemp B E, Linden K C, Wadley G D. Differential attenuation of AMPK activation during acute exercise following exercise training or AICAR treatment. *J Appl Physiol* 2008; 105: 1422-1427.
5. Leelayuwat N, Tunkumnerdthai O, Donsom M, Punyaek N, **Manimmanakorn A**, Kukongviriyapan U, Kukongviriyapan V. An alternative exercise and its beneficial effects on glycaemic control and oxidative stress in subjects with type 2 diabetes. *Diabetes Res Clin Pract* 2008; 82(2): e5-8.
6. **Manimmanakorn A**, Hamlin M J, Ross J J, Creasy R H, Manimmanakorn N. Live high-train low (LHTL) altitude training: Responders vs. Non-responders. Proceedings of the New Zealand Conference of Sports Science and Medicine, Rotorua, New Zealand, 2009; 92.
7. Hamlin M J, **Manimmanakorn A**, Sandercock G R, Ross J J, Creasy R H, Hellemans J. Heart rate variability in responders and non-responders to live-moderate train-low altitude training. *World Academy of Science, Engineering and Technology*. 2011; 77, 1704-1709.

8. **Manimmanakorn A**, Hamlin M J, Ross J J, Manimmanakorn N. Effect of resistance training combined with hypoxia on muscular strength and endurance. Proceedings of American College of Sports Medicine Conference, World Congress on Exercise is Medicine, Baltimore, Maryland USA. 2010, 42(5), S331.
9. Leelayuwat, N, Eungpinichpong, W, **Manimmanakorn A**. The effects of Thai massage on resistance to fatigue of back muscles in chronic low back pain patients. J Med Tech Physical Therapy, 2011; 13, 13-19.
10. **Manimmanakorn A**, Hamlin M J, Ross J J, Taylor R, Manimmanakorn N. Effect of low-load resistance training combined with blood flow restriction or hypoxia on muscle function and performance in athletes. J Sport Med Sci, 2013; 16(4):337-342.
11. **Manimmanakorn A**, Manimmanakorn N, Taylor R, Draper N, Billaut F, Shearman JP, Hamlin M J. Effect of low-load resistance training combined with vascular occlusion or hypoxia on neuromuscular function in athletes. Eur J Appl Physiol, 2013; 113(7):1767-1774.
12. Manimmanakorn N, Hamlin MJ, Ross JJ, **Manimmanakorn A**. Long term effect of whole body vibration training on jump height: Meta-analysis. The Journal of Strength and conditioning Research, 2013, 28(6):1739-50.
13. Manimmanakorn N, Ross JJ, **Manimmanakorn A**, Lucas SJ, Hamlin MJ. Effect of whole body vibration therapy on performance recovery. International Journal of sports physiology and performance, 2014: September
14. Manimmanakorn N, **Manimmanakorn A**, Hamlin MJ. Effect of whole body vibration improve glycaemic indices in type II diabetic patients, 2014: September

## PRESENT RESEARCH

1. **Manimmanakorn A**, Hamlin M J, Billaut F, Manimmanakorn N. Effect of low-load resistance training combined with blood flow restriction or hypoxia on muscle activity and blood growth hormone and lactate in Netball athletes.
2. **Manimmanakorn A**, Thuwakum W, Wannabusprawich P, Manimmanakorn N, Hamlin MJ. Exploring alternative way to improve muscular strength by varying low to moderate resistance exercise combined with simulated altitude training in athletes.
3. **Manimmanakorn A**, Thuwakum W, Wannabusprawich P, Manimmanakorn N, Hamlin MJ. Effect of real plus simulated altitude on blood parameters and physical performance in athletes.
4. **Manimmanakorn A**, Hamlin M, Ross J, Manimmanakorn N. Effect of real and simulated altitude on blood parameters and physical performance of responders and non-responders in soccer players.
5. **Manimmanakorn A**, Hamlin M, Ross J, Manimmanakorn N. Does vibration therapy combined with load improve muscular and physical performance in healthy subjects?

## Referees

1. Associate Prof. Wanapa Ishida; Department of physiology, Faculty of Medicine, KhonKaen University, Thailand 40002 Tel. 66 43 363263, E-mail [wannapa@kku.ac.th](mailto:wannapa@kku.ac.th)
2. Assistant Prof. Supaporn Muchimapura; Department of physiology, Faculty of Medicine, KhonKaen University, Thailand 40002 Tel. 66 43 363263, E-mail [supmuc@kku.ac.th](mailto:supmuc@kku.ac.th)