



คณะสัตวแพทยศาสตร์ มหาวิทยาลัยมหาสารคาม

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ผู้ช่วยศาสตราจารย์ น.สพ.ดร.วิชามกรณ์ เลิศวีรพล

**Institution :** Applied Animal Physiology Research Unit,  
Faculty of Veterinary Science, Mahasarakham University

**Education :**

D.V.M., Khonkaen University, Khonkaen, Thailand

M.S. (Medical Physiology), Khonkaen University, Khonkaen, Thailand

Ph.D. (Medical Physiology), Khonkaen University, Khonkaen, Thailand

**Work Experiences :**

Heart rate variability (HRV) in companion animals

Electrocardiography (ECG) in companion animals

Echocardiography in companion animals

Cardiovascular diseases in small animals

**Expertise :** Cardiology, Animal Physiology, Renal Physiology

**Publicatons :**

1. Chompoosan, C., Pongthaisong, P., Kenchaiwong, W., 246 Pontaema, T. and **Lerdweeraphon, W.** 247 (2023)  
Effects of pregnancy on electrocardiographic, vasovagal tonus index, and 248 echocardiographic variables in horses.  
Vet. World, 16(8):1765-1771.
2. Kenchaiwong, W., Sangpo, P., Kusol, A., Pontaema, T. and **Lerdweeraphon, W.** (2022)  
The position of ground electrode affects electrocardiographic parameters in horses.  
Veterinary World 15 (4) : 1107-1112
3. **Lerdweeraphon, W.**, Thanwongsa, S., Youyod, S., Imsopa, S. and W Kenchaiwong. (2020) The effects of breed, age, sex,  
and body weight on electrocardiographic parameters in military working dogs. Veterinary World13 (5): 1001-1004
4. **Lerdweeraphon, W.**, Michael Wyss, J., Roysommuti, S., (2017) Perinatal Taurine Supplementation Alters Renal  
Function via Renin-Angiotensin System Overactivity in Adult Female Rats. Adv Exp Med Biol 975, 757-768.

5. Roysommuti, S., **Lerdweeraphon, W.**, Michael Wyss, J., (2017) Perinatal Taurine Imbalance Followed by High Sugar Intake Alters the Effects of Estrogen on Renal Excretory Function in Adult Female Rats. *Adv Exp Med Biol* 975, 769-787.
6. **Lerdweeraphon. W.**, Wyss. JM, Boonmars. T, Roysommuti. S, (2015) Perinatal taurine depletion alters the renal excretory effect of the Renin-Angiotensin system in adult female rats. *Adv Exp Med Biol.* 803:679-91.

**International Databases :** Scopus Q1

**Research Projects :**

1. Effect of exercise training on heart rate variability (HRV) and echocardiography in horses.
2. Heart rate variability (HRV) in MMVD in dogs.