

NUTTHA LUMLERTGUL, MD, PhD

Excellence Center for Critical Care Nephrology
 Division of Nephrology
 King Chulalongkorn Memorial Hospital
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Interests

Acute kidney injury in critically ill patients, Renal replacement therapy, Organ crosstalk, Acute kidney injury in systemic diseases

Education and training

Clinical and research fellow Guy's and St Thomas' Hospital, London, UK	2020 - present
Chulalongkorn University Doctor of Philosophy	2015 - 2019
Critical Care Nephrology Fellow King Chulalongkorn Memorial Hospital	2017 - 2018
Fellowship in Nephrology King Chulalongkorn Memorial Hospital	2015 - 2017
Chief Resident Internal Medicine Resident, Chiang Mai University	2014 – 2015 2012 - 2015
Intern, Chiang Mai University	2011 - 2012
Chulalongkorn University Magna Cum Laude, MD	2006 - 2011

Work Experience

Attending physician King Chulalongkorn Memorial Hospital	2018 - present
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License and Certifications

General Medical Council, UK 7653426	2019
Thai Board of Nephrology	2017
Thai Board of Internal Medicine	2015

Professional Experience

Speaker

When to Start and Stop RRT ESICM LIVES Panel Discussion	2020
Personalised fluid management with CRRT The 4 th Asia-Pacific AKI CRRT Conference	2020
AKI Prevention and Management in COVID-19 The 26 th AKI CRRT Conference, San Diego, USA	2021

Awards

Short communication awards Categories: “Student issues” and “Teaching and Learning” Association of Medical Education in Europe Conference, Norway	2007
Essay Selected for 200 th year Anniversary Program New England Journal of Medicine, Massachusetts, USA	2012
First Rank in leading CPR team, Maharaj Nakorn Chiang Mai Hospital	2012
Resident of the Year Award, Maharaj Nakorn Chiang Mai Hospital	2014
First Rank in Medical Tournament The 31 st Annual Meeting Royal College of Physicians of Thailand	2015
Selected for ‘Rapid Fire Oral Session’, Resident Research Award The 31 st Annual Meeting Royal College of Physicians of Thailand	2015
Voted Favorite Fellow by Internal Medicine Residents	2016
First Place Best Fellow Research Award The 33 rd Annual Meeting Royal College of Physicians of Thailand	2017
Best Paper Award The 1 st Asia-Pacific AKI-CRRT Conference, Kuala Lumpur, Malaysia	2017
Best Mini Oral Award The 2 nd Asia-Pacific AKI-CRRT Conference, Taipei, Taiwan	2018
Oral consolation prizes (2 awards) The 3 rd Asia-Pacific AKI-CRRT Conference, Kuala Lumpur, Malaysia	2019

Publications

1. **Lumlertgul N**, Murugan R, Seylanova N, McCreedy P, Ostermann M. *Net ultrafiltration prescription survey in Europe*. BMC Nephrol. 2020 Dec 1;21(1):522.
2. **Lumlertgul N**, Tunstall P, Watt C, Hanks F, Cameron L, Tovey L, et al. *In-house Production of Dialysis Solutions to Overcome Challenges during the COVID-19 Pandemic*. Kidney Int Rep 2020 Nov 7.
3. **Lumlertgul N**, Bear DE, Ostermann M. *Clearance of micronutrients during continuous renal replacement therapy*. Crit Care. 2020 Oct 19;24(1):616.
4. Nadim MK, Forni LG, Mehta RL, Connor MJ Jr, Liu KD, Ostermann M, Rimmelé T, Zarbock A, Bell S, Bihorac A, Cantaluppi V, Hoste E, Husain-Syed F, Germain MJ, Goldstein SL, Gupta S, Joannidis M, Kashani K, Koyner JL, Legrand M, **Lumlertgul N**, Mohan S, Pannu N, Peng Z, Perez-Fernandez XL, Pickkers P, Prowle J, Reis T, Srisawat N, Tolwani A, Vijayan A, Villa G, Yang L, Ronco C, Kellum JA. *COVID-19-associated acute kidney injury: consensus report of the 25th Acute Disease Quality Initiative (ADQI) Workgroup*. Nat Rev Nephrol. 2020 Oct 15:1–18.
5. Ricci Z, Tolwani A, **Lumlertgul N**. *Precision renal replacement therapy*. Curr Opin Crit Care. 2020 Dec;26(6):574-580.
6. Ostermann M, **Lumlertgul N**, Forni LG, Hoste E. *What every Intensivist should know about COVID-19 associated acute kidney injury*. J Crit Care. 2020 Jul 28; 60:91-95.

7. Eiamcharoenying J, Kulvichit W, **Lumlertgul N**, Chaiwatanarat T, Peerapornratana S, Srisawat N. *The role of serum cystatin C in estimation of renal function in survivors of critical illness*. J Crit Care. 2020 Oct; 59:201-206.
8. Sengthavisouk N, **Lumlertgul N**, Keomany C, Banouvong P, Senavong P, Sayyaphet S, Binbundith S, Kulvichit W, Peerapornratana S, Praditpornsilpa K, Tungsanga K, Eiam-Ong S, Srisawat N. *Epidemiology and short-term outcomes of acute kidney injury among patients in the intensive care unit in Laos: a nationwide multicenter, prospective, and observational study*. BMC Med. 2020 Jul 14;18(1):180.
9. **Lumlertgul N** and Ostermann M. *Roles of Angiotensin II as Vasopressor in Vasodilatory Shock*. Future Cardiology 2020. May 28
10. **Lumlertgul N**, Amprai M, Tachaboon S, Dinhuizen J, Peerapornratana S, Kerr SJ, et al. *Urine Neutrophil Gelatinase-associated Lipocalin (NGAL) for Prediction of Persistent Aki and Major Adverse Kidney Events*. Scientific Reports 2020.
11. **Lumlertgul N**, Srisawat N. *The Haemodynamic Effects of Oxiris Haemofilter in Septic Shock Patients Requiring Renal Support: a Single-centre Experience*. Int J Art Organs. 2020.
12. Gaudry S, Hajage D, Benichou N, Chaibi K, Barbar S, Zarbock A, **Lumlertgul N**, et al. *Delayed versus Early Initiation of Renal Replacement Therapy for Severe Acute Kidney Injury: a Systematic Review and Individual Patient Data Meta-analysis of Randomised Clinical Trials*. Lancet. 2020 May 9;395(10235):1506-1515.
13. **Lumlertgul N**, Siribumrungwong M, Jaber BL, Susantitaphong P. *Secondary Oxalate Nephropathy: A Systematic Review*. Kidney Int Rep. 2018. Jul 29;3(6):1363-1372.
14. **Lumlertgul N**, Peerapornratana S, Trakarnvanich T, Surasit K, Pongsittisak W, Chuasuwan A, Tankee P, Tiranathanakul K, Praditpornsilpa K, Tungsanka K, Eiam-Ong S, Srisawat N. *The effect of furosemide stress test guiding initiation of renal replacement therapy on clinical outcomes: A multicenter randomized controlled trial (The FST trial)*. Critical Care. 2018. Apr 19;22(1):101
15. Srisawat N and **Lumlertgul N**. *Critical Care in Dengue management*. Southeast Asian Trop Med Hyg. 2017
16. **Lumlertgul N**, Puapatanakul P, Srisawat N. *Renal dysfunction in Dengue virus infection*. Southeast Asian Trop Med Hyg. 2017
17. Srisawat N, Pongpirul K, Choonchuachan T, Peerapornratana S, **Lumlertgul N**, Leuruenngthana A, Phahonthep R, Tantawichien T, Thisyakorn U. *The role of tourniquet in dengue patients*. Southeast Asian Trop Med Hyg. 2017
18. Srisawat N, Laoveeravat P, Limphunudom P, **Lumlertgul N**, Peerapornratana S, Tiranathanagul K, Susantitaphong P, Praditpornsilpa K, Tungsanga K, Eiam-ong S. *The Effect of early renal replacement therapy guided by plasma neutrophil gelatinase associated lipocalin on outcomes of acute kidney injury: a feasibility study*. J Crit Care. 2018 Feb;43:36-41
19. Kanjanabuch T, **Lumlertgul N**, Pearson LJ, Chatsuwana T, Pongpirul P, Leelahavanichkul A, et al. *PD-related peritonitis due to melioidosis: a potentially devastating condition*. Perit Dial Int 2017 Mar-Apr;37(2):183-190.
20. Schrier RW and **Lumlertgul N**. *Blood pressure target in chronic kidney disease and proteinuria as an effect modifier*. Ann Intern Med 2012;155(3):207-8.
21. Teowchitcharoen Y and **Lumlertgul N**. *Painless thyroiditis complicating with hypercalcemic encephalopathy*. J Med Assoc Thai 2012;95(1):119-123.
22. **Lumlertgul N**, Kijpaisalratana N, Pitayaratstian N, and Wangsaturaka D. *Cinemeducation: A pilot student project using movies to help students learn medical professionalism*. Medical Teacher 2009;31(7):e327-e332.

Textbooks

1. **Lumlertgul N**, Ostermann M. *Acute Kidney Injury*. Intensive Care Medicine-the Essential Guide. 2020
2. **Lumlertgul N**, Ostermann M. *Renal replacement therapy*. Intensive Care Medicine-the Essential Guide. 2020
3. **Lumlertgul N**, Peerapornratana S, and Srisawat T. *Advanced Blood Purification in Sepsis*. 2019
4. **Lumlertgul N** and Srisawat T. *Fatal Dengue Shock Syndrome with Multiple Organ Dysfunction in an Elderly Patient: a Case Report*. Dengue. 2018.
5. **Lumlertgul N** and Srisawat T. *Timing of renal replacement therapy initiation*. The Best ICU. The Thai Society of Critical Care Medicine. 2017.
6. **Lumlertgul N**. *Acute tubular necrosis: Basics and Advances*. Update in Clinical Nephrology. 2017.
7. **Lumlertgul N**. *Pregnancy in women with underlying renal disease*. Update in Clinical Nephrology. 2017
8. **Lumlertgul N**. *Thrombotic microangiopathies*. Update in Clinical Nephrology. 2017
9. **Lumlertgul N**. *Acute kidney injury and diagnostic approach*. Update in Clinical Nephrology. 2017
10. **Lumlertgul N**, Peerapornratana S, and Srisawat N. *Electrolytes, minerals, and fluid disturbances in Tropical Diseases*. Electrolyte Textbook. Thai Society of Nephrology 2017.
11. **Lumlertgul N** and Srisawat N. *When to start and stop renal replacement therapy*. Textbook of continuous renal replacement therapy. Excellence Center for Critical Care Nephrology of KCMH 2017.
12. **Lumlertgul N** and Srisawat N. *Vascular access*. Textbook of continuous renal replacement therapy. Excellence Center for Critical Care Nephrology of KCMH 2017.
13. **Lumlertgul N** and Srisawat N. *Filtration fraction*. Textbook of continuous renal replacement therapy. Excellence Center for Critical Care Nephrology of KCMH 2017.
14. **Lumlertgul N**, Puapatanakul, Srisawat N. *Renal dysfunction in Dengue virus infection*. Dengue textbook. 2017
15. **Lumlertgul N**, Peerapornratana S, and Srisawat N. *How to run CRRT smoothly*. The acute care. The Thai Society of Critical Care Medicine 2015.

Presentations

1. **Lumlertgul N**, van Dellen J, Ostermann M, McCorkell S, Williams AB. Association of Plasma and Urine Neutrophil Gelatinase-Associated Lipocalin with Acute Kidney Injury and Long-term Mortality in Patients Undergoing Elective Colorectal Surgery per Enhanced Recovery After Surgery Protocols. ESICM LIVES 2020. (e-Poster)
2. **Lumlertgul N**, Kok W, Ficial B, Camporota L, Barrett NA, Agarwal S, Lams B, Hanks F, Ostermann M. Anakinra for treatment of critically ill patients with COVID-19: a retrospective study. ESICM LIVES 2020. (e-Poster)
3. **Lumlertgul N**, Peerapornratana P, Khanittha Y, Sripeng S, Srisawat N. Assessment of Hydration Status Using Bioelectrical Impedance Vector Analysis in Critical Patients with Acute Kidney Injury during Continuous Renal Replacement Therapy. The 3rd Asia Pacific AKI-CRRT Conference 2019. Kuala Lumpur, **Malaysia**, October 2019. (Oral Presentation)
4. **Lumlertgul N**, Srijariya W, Srisawat N. Cost-effectiveness of Citrate Dialysis Solution for Continuous Renal Replacement Therapy in Thailand. The 3rd Asia Pacific AKI-CRRT Conference 2019. Kuala Lumpur, **Malaysia**, October 2019. (Oral Presentation)
5. **Lumlertgul N**, Umprai M, Taechaboon S, Dinhuizen J, Srisawat N. The Clinical Applicability of Urinary NGAL as the Point-of-Care Test for Persistent AKI Detection and Prediction of Renal Outcomes. The 24th AKI-CRRT Conference 2019, **San-Diego**, USA, February 2019. (Oral Presentation)

6. **Lumlertgul N**, Peerapornratana S, Praditpornsilpa K, Eiam-Ong S, Tungsanga K, and Srisawat N. Fluid overload as a predictor for 28-day major adverse kidney events: results from SEA-AKI study. The 2nd AKI-CRRT Conference 2018, **Teipei**, Taiwan, September 2018. (Oral Presentation)
7. **Lumlertgul N** and Srisawat N. The hemodynamic effects of oXiris hemofilter in septic shock patients requiring renal support: a case series. International Sepsis Forum 2018, **Bangkok**, September 2018. (Poster Presentation)
8. Eiamcharoenying J, Chaiwatanarat T, **Lumlertgul N (presenting author)**, Peerapornratana S, Srisawat N. The role of cystatin in estimation of renal function in critically ill survivors. European Society of Intensive Care Medicine EUROASIA 2018, **Hong Kong**, April 2018. (E-poster Presentation)
9. **Lumlertgul N**, Peerapornratana S, Trakarnvanich T, Surasit K, Pongsittisak W, Chuasuwan A, Tankee P, Tiranathanakul K, Praditpornsilpa K, Tungsanka K, Eiam-Ong S, Srisawat N. The effect of furosemide stress test guiding initiation of renal replacement therapy on clinical outcomes: A multicenter randomized controlled trial. American Society of Nephrology Kidney Week 2017. New Orleans, **USA**, November 2017. (Oral Presentation)
10. **Lumlertgul N**, Peerapornratana S, Trakarnvanich T, Surasit K, Pongsittisak W, Chuasuwan A, Tankee P, Tiranathanakul K, Praditpornsilpa K, Tungsanka K, Eiam-Ong S, Srisawat N. Angiopietin-2 as a Biomarker for Prediction of Mortality and Renal Recovery in Patients Requiring Renal Replacement Therapy. The 1st AKI-CRRT Conference 2017. Kuala Lumpur, **Malaysia**, August 2017. (Oral Presentation)
11. **Lumlertgul N**, Peerapornratana S, Hurst C, Praditpornsilpa K, Tungsanga K, Eiam-Ong S, Srisawat N. The comparison effect of community-acquired AKI and hospital-acquired AKI on AKI outcomes: results from SEA-AKI study group. The 11th International Congress of the ISHD 2017. Bangkok, **Thailand**, August 2017 (Oral Presentation)
12. **Lumlertgul N**, Peerapornratana S, Srisawat N. The effect of continuous renal replacement therapy with adsorbent membrane Oxiris on hemodynamics and vasopressor use in septic patients. The 19th Asian Pacific Conference of Critical Care Medicine (APCCCM) 2016. Bangkok, **Thailand**, October 2016 (Oral Presentation)
13. Kanjanabuch T, **Lumlertgul N**, Chatsuwan T, Thongbor N, Nuntawong G, Praderm L, Wechagama P, Narenpitak S, Wechpradit A, Punya W, Haleu G, Naka P, Jeenapongsa S, Pongpirul K, Eiam-Ong. Outbreak of PD-related melioidosis peritonitis in Thailand: an uncommon but potentially devastating condition. The 16th Congress of the International Society for Peritoneal Dialysis 2016. Melbourne, **Australia**, March 2016 (Poster Presentation)
14. **Lumlertgul N**, Saoraya J, Koonrangsesomboon W, and Chandarasiri P. Evaluating change of congruence in Thai fifth-year medical students pre- and post-workshop in Care for Chronic, Critical and Terminal Illness (CCCTI) Course. Satir World Conference 2010. **Hong Kong**, June 2010 (Oral Presentation)
15. Termglinchan V, Bumphenkiatikul T, **Lumlertgul N**, and Wangsaturaka D. The differences between medical students who have and who do not have passion to become doctors. The 6th Asia Pacific Medical Education Conference. **Singapore**, February 2009 (Oral Presentation)
16. **Lumlertgul N**, Kijpaisalratana N. Cinemeducation: A pilot student project using movies to help students learn medical professionalism. Association of Medical Education in Europe (AMEE) Conference. Trondheim, **Norway**, August 2007 (Oral Presentation)
Note: This presentation was repeated as invited presentation in Association of Medical Education in Asia (AMEA) Conference. Bangkok, **Thailand**, October 2007
17. Kijpaisalratana N, Laichuthai N, **Lumlertgul N**, Saoraya J, Subsoontorn P, Surakiatchanukul B and Wangsaturaka D. Students' satisfaction with their first year at the faculty of medicine, Chulalongkorn university. Fourth Asia Pacific Medical Education Conference (APMEC). **Singapore**, February 2007 (Poster Presentation)