

ผศ.นพ.ณัฐชัย ศรีสวัสดิ์



สังกัด

สาขาวิชาโรคไต
ภาควิชาอายุรศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย
และ โรงพยาบาลจุฬาลงกรณ์ สภากาชาดไทย
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วุฒิการศึกษา

- 2556 European Diploma in Intensive Care Medicine. European Union.
- 2555 อนุมัติบัตรแสดงความรู้ความชำนาญในการประกอบวิชาชีพเวชกรรม (อว.) สาขาอายุรศาสตร์เวชบำบัดวิกฤต
- 2554 Certificate of Clinical Fellowship of Critical Care Medicine, University of Pittsburgh School of Medicine, USA.
- 2553 Certificate of Research Fellowship of Critical Care Medicine, University of Pittsburgh School of Medicine, USA
- 2553 Educational Commission for Foreign Medical Graduates (ECFMG) Certification # 0-582-554-2, USA
- 2550 วุฒิบัตรแสดงความรู้ความชำนาญในการประกอบวิชาชีพเวชกรรม (วว.) สาขาอายุรศาสตร์โรคไต
- 2550 วิทยาศาสตร์มหาบัณฑิต (วท.ม.) หลักสูตรอายุรศาสตร์มหาบัณฑิต ภาควิชาอายุรศาสตร์ คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย
- 2548 วุฒิบัตรแสดงความรู้ความชำนาญในการประกอบวิชาชีพเวชกรรม (วว.) สาขาอายุรศาสตร์
- 2542 แพทยศาสตรบัณฑิต (พ.บ.) เกียรตินิยมอันดับ 1 คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

ประวัติการทำงาน

- 2559** อาจารย์ สาขาวิชาโรคไต ภาควิชาอายุรศาสตร์ คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย
- 2554** อาจารย์ ฝ่ายอายุรศาสตร์ โรงพยาบาลจุฬาลงกรณ์ สภากาชาดไทย
- 2554** หัวหน้าศูนย์ความเป็นเลิศทางด้านโรคไตในภาวะวิกฤต โรงพยาบาลจุฬาลงกรณ์ สภากาชาดไทย
- 2553** Clinical Fellowship Training in Critical Care Medicine, Multidisciplinary Critical Care Training Program, Department of Critical Care Medicine, University of Pittsburgh School of Medicine, Pennsylvania, USA.
- 2551** CRISMA Research Fellowship Training in Critical Care Nephrology, Department of Critical Care Medicine, University of Pittsburgh School of Medicine, Pennsylvania, USA.
Mentor: Professor John A Kellum.
Scholarship: The Kidney Foundation of Thailand.
- 2550** อาจารย์ (พิเศษ) ฝ่ายอายุรศาสตร์ โรงพยาบาลจุฬาลงกรณ์ สภากาชาดไทย
- 2549** Visiting Fellow, Division of Nephrology and Hypertension, Department of Medicine, Vanderbilt University Medical Center, Tennessee, USA.
- 2548** แพทย์ประจำบ้านต่อยอด สาขาวิชาโรคไต ภาควิชาอายุรศาสตร์ คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย
- 2545** แพทย์ประจำบ้าน ภาควิชาอายุรศาสตร์ คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย
- 2542** แพทย์ใช้ทุน กลุ่มงานอายุรกรรม โรงพยาบาลสวรรคตประชารักษ์ จังหวัดนครสวรรค์

HONORS and AWARDS:

- 2562** A Subject Editor in Acute Kidney Injury for the journal.
- 2561** Steering committee, Kidney Disease: Improving Global Outcomes (KDIGO) Controversies conference on AKI, April 25- 28, 2019, Rome, Italy.
- 2560** Editorial Board, Case Reports in Acute Medicine, Karger Publishing, Basel, Switzerland
- 2560** Faculty member, the 18th Acute Dialysis Quality Initiative (ADQI) International Consensus Conference, Detection and Management of AKI in Developing World, September 27-30, 2016, Hyderabad, India

- 2554** Collaborating CRISMA faculty member, Department of Critical Care Medicine, Univeristy of Pittsburgh School of Medicine, Pennsylvania, USA.
- 2550** Award for fellow research competition, The 23rd Annual Scientific Meeting of The Royal College of Physicians of Thailand, Pattaya Chonburi, Thailand
- 2557** หัวหน้าแพทย์ประจำบ้าน ภาควิชาอายุรศาสตร์ คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย
- 2556** แพทย์ประจำบ้านดีเด่น ภาควิชาอายุรศาสตร์ คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย
- 2555** แพทย์ประจำบ้านดีเด่น ภาควิชาอายุรศาสตร์ คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

ผลงานวิจัยตีพิมพ์ในวารสารนานาชาติ **51** เรื่อง

- Srisawat N, Aroonpoonsub L, Lewsuwan S, Kanjanabuch T, Avihingsanon Y, Praditpornsilpa K, Tungsanga K, Chusil S, Eiam-Ong S. The clinicopathology and outcome of post-infectious glomerulonephritis: experience in 36 adults. J Med Assoc Thai 2006;89 (Suppl 2):S157-S162.**
- Tiranathanagul K, Katavetin P, Injan P, Leelahavanichkul A, Techawathanawanna N, Praditpornsilpa K, Srisawat N, Tungsanga K, Eiam-Ong S. A novel simple hemoglobin dilution technique to measure hemodialysis vascular access flow. Kidney Int 2008 ;73(9):1082-6**
- Srisawat N, Eiam-Ong S. Renal replacement therapy in patients with acute kidney injury: comparison of intermittent and continuous dialysis. Asian Biomed 2008: 275-81.**
- Srisawat N, Avihingsanon A, Praditpornsilpa K, Jiamjarasrangsi W, Eiam-Ong S, Avihingsanon Y. A Prevalence of Posttransplantation Cancers Compared With Cancers in People With Human Immunodeficiency Virus/Acquired Immunodeficiency Syndrome After Highly Active Antiretroviral Therapy. Transplant Proc 2008 ;40(8):2677-9.**
- Srisawat N, Manotham K, Eiam-Ong S, Katavetin P, Praditpornsilpa K, Eiam-Ong S. Erythropoietin and its non-erythropoietic derivative: Do they ameliorate renal tubulointerstitial injury in ureteral obstruction?. Int J Urol. 2008;40(8):1011-17**
- Boonsrirat U, Tiranathanakul K, Srisawat N, Susantitapong P, Komolmit P, Praditpornsilpa K, Tungsanga K, Eiam-Ong S. Effective bilirubin reduction by Single-Pass Albumin Dialysis (SPAD) in Liver Failure. Artif Organs. 2009;33(8):648-53.**
- Rimmelé T, Nguyen YL, Srisawat N, Angus DC, Kellum JA. Acute renal dysfunction: It's time to speak appropriately!. Ann Fr Anesth Reanim. 2009;28(7-8):711-2.**

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13. **Srisawat N**, Wen X, Lee M, Kong L, Elder M, Carter M, Unruh M, Finkel K, Vijayan A, Ramkumar M, Paganini EP, Singbartl K, Palevsky PM, Kellum JA. **Urinary Biomarkers and Renal Recovery in Critically Ill Patients with Renal Support.** Clin J Am Soc Nephrol 2011;6:18:15-23.
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15. **Srisawat N**, Murugan R, Lee M, Kong L, Carter M, Angus DC, Kellum JA. **Plasma Neutrophil Gelatinase-associated Lipocalin Predicts Recovery from Acute Kidney Injury following Community-acquired Pneumonia.** Kidney Int 2011;80:545-52.
16. Susantitaphong P, Tiranathanagul K, **Srisawat N**, Katavetin P, Praditpornsilpa P, and Eiam-Ong S. **Efficacy of Separated System Continuous Venovenous Hemofiltration in Critical Acute Kidney Injury.** Ther Apher Dial 2011;15:475-80.
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46. Tiranathanagul K, Susantitaphong P, **Srisawat N**, Mahatanan N, Tungsanga K, Praditpornsilpa K, Eiam-Ong S. **Ten-Year Survival of End-Stage Renal Disease Patients Treated with High-Efficiency Online Hemodiafiltration: A Cohort Study of a Center in South East Asia.** *Nephron.* 2018;139(2):150-158.
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Kongwibulwut M, Chatkaew P, Oranrigsupak P, Sukmark T, Panaput T, Laohacharoenyot N, Surasit K, Keobounma T, Khositrangsikun K, Suwattanasilpa U, Pattharanitima P, Santithisadeekorn P, Wanitchanont A, Peerapornrattana S, Loaveeravat P, Leelahavanichkul A, Tiranathanagul K, Kerr SJ, Tungsanga K, Eiam-Ong S, Sitprija V, Kellum JA. **The epidemiology and characteristics of acute kidney injury in the Southeast Asia intensive care unit: a prospective multicentre study.** NDT. 2019 May 1-10.

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ผลงานการเขียนตำรา

-บรรณาธิการตำรา/หนังสือ 6 เล่ม

1. สมชาย เอี่ยมอ่อง ขจร ตีรณชนากุล ปวีณา สุสัณฐิตพงษ์ เกื้อเกียรติ ประดิษฐ์พรศิลป์ อนุรักษ์ ศรีสวัสดิ์ เกรียง ตั้งสง่า. **Textbook of Hemodialysis.** Text and Journal Publication Co. 2553.
2. สมชาย เอี่ยมอ่อง ปวีณา สุสัณฐิตพงษ์ อนุรักษ์ ศรีสวัสดิ์ ขจร ตีรณชนากุล เกรียง ตั้งสง่า เกื้อเกียรติ ประดิษฐ์พรศิลป์. **Hemodialysis Renal Replacement Therapy.** Text and Journal Publication Co. 2556.
3. อนุรักษ์ ศรีสวัสดิ์ สดุดี พีรพรรัตน ขจร ตีรณชนากุล เกื้อเกียรติ ประดิษฐ์พรศิลป์ เกรียง ตั้งสง่า สมชาย เอี่ยมอ่อง บรรณาธิการ. **Textbook of CRRT.** Text and Journal Publication Co. 2560, page 1-434.
4. อนุรักษ์ ศรีสวัสดิ์ ธีระพงษ์ ตันทวีเชียร อุษา ทิสยากร. **Dengue.** Text and Journal Publication Co. 2561, page 1-338.
5. Nattachai Srisawat, Nataphong Jiamjariyatham, Terapong Tantawichien, Usa Thisyakorn editors, **Dengue.** Text and Journal Publication Co. 2019 In press.
6. อนุรักษ์ ศรีสวัสดิ์. **โรคไตในภาวะวิกฤต.** Text and Journal Publication Co. 2561.

- การเขียนตำราต่างประเทศ (International Textbook) 8 บทความ

1. **Srisawat N, Kellum JA. Acute Kidney Injury: Definition and Classification.** In US Nephrology Volume 4(1). Andreoli S, editor. Touch Briefings publishing 2009;4(1):45-8.
2. **Srisawat N, Kellum JA. Approach to the patient with acute kidney injury.** In Encyclopedia of Intensive Care Medicine. Vincent JL, Hall J, editors. Springer publishing.135-139.
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5. **Srisawat N, Lohwuthinan P, Eiam-Ong S, Tiranathanagul K. Renal Replacement Therapy In Acute Kidney Injury.** In Clinical Dialysis. Eiam-ong S, Tungsanga K,

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การเป็นวิทยากรบรรยาย ในงานประชุมทางวิชาการ

-งานประชุมระดับนานาชาติ 38 เรื่อง

- 1. Renal Ischemia During Oncologic Urology Surgery.** In the 11th Asian Congress of Urology of the Urological Association of Asia, Royal Cliff Beach Hotel, Chonburi, Thailand. August 22nd-26th, 2012.
- 2. Clinical application of biomarkers in AKI.** In novel biomarker, NGAL, and the promising utility in early diagnosis and prognosis of patients at risk of Acute Kidney Injury. Crowne Plaza Hotel, Ortigas Center, Pasig City, Philippine. February 26th, 2013.
- 3. AKI in specific setting: Laparoscopic abdominal surgery.** In the 2nd Acute Kidney Clinical Forum. The Langham Xin Tian Di Hotel, Shanghai, China. July 20th-21st, 2013.
- 4. NGAL utility in the ICU and other clinical conditions.** In Utilization of NGAL in clinical practice. Westin Hotel, Kuala Lumpur, Malaysia. September 27th, 2013.
- 5. Urine and Plasma Neutrophil Gelatinase Associated Lipocalin (NGAL), the novel biomarkers for leptospirosis associated Acute Kidney Injury (AKI): result from the multicenter study.** In the 8th Scientific Meeting of International Leptospirosis Society (ILS 2013 in Fukuoka). Fukuoka, Japan. October 8th, 2013.
- 6. Routine using novel AKI biomarkers in clinical practice.** In 11th International Conference on Critical Care Nephrology: AKI&CRRT Shanghai 2015. Longemont Hotel, Shanghai, China. 28th-29th March, 2015.
- 7. Nutritional support during renal replacement therapy.** In the 11th International Conference on Critical Care Nephrology : AKI&CRRT Shanghai 2015. Longemont Hotel, Shanghai, China. 28th-29th March, 2015.
- 8. Current concept in management of septic AKI.** In the Annual Meeting of Nephrology Society of Thailand 2015: APSN/NST Continuing Medical Education (CME) Course. The Zign Hotel, Chonburi, Thailand. August 7th - 9th, 2015.
- 9. Critical care in dengue management.** In International Training Course on Dengue Management. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. September 7th - 9th, 2015.
- 10. Critical Care Nephrology (CRRT & SFHDF: What is hot & new?).** In Renal Diseases & Biotechnology for Blood Purification (RB2015). The Empress Hotel, Chiang Mai, Thailand. December 12th, 2015.
- 11. The immunomodulation effect of polymyxin b hemoperfusion in severe sepsis.** In The 20th Annual Meeting of Endotoxemia Congress, Tokyo, Japan. January 19th-20th, 2016.
- 12. Acidosis & Hyperlactatemia in severe dengue.** In Asia dengue conference, JW Marriot Hotel, Kuala Lumpur, Malaysia. April 23th-24th, 2016.

- 13. Fluid management in severe dengue.** In Asia dengue conference, JW Marriot Hotel, Kuala Lumpur, Malaysia. April 23th -24th, 2016.
- 14. The immunomodulation effect of polymyxin b hemoperfusion in severe sepsis: a randomized controlled trial.** In 37th Annual Meeting of the Japanese Society for Apheresis, Pacifico Hotel, Yokohama, Japan. November 26th -27th, 2016.
- 15. Clinical application of novel AKI biomarkers.** In the 59th Annual Meeting of the Japanese Society of Nephrology. Yokohama, Japan. June 16th -18th, 2016.
- 16. Critical Care Nephrology in Southeast Asia.** In The 59th Annual Meeting of the Japanese Society of Nephrology. Yokohama, Japan. June 16th -18th, 2016.
- 17. AKI/CKD: Acute Kidney Injury.** In The 15th APCN Asian Pacific Congress of Nephrology 2016. Perth, Australia. September 17th -21th, 2016.
- 18. Management of Acute Kidney Injury in the Developing World.** In the XVIII Acute Dialysis Quality Initiative (ADQI). Novotel Airport Hotel, Hyderabad, India. September 27th -30th, 2016.
- 19. AKI practical guideline : Early diagnosis and risk stratification.** In the 19th Asia Pacific Congress of Critical Care medicine combined with Second Joint Meeting of JSICM & TSCCM, 7th Critical Care Conference in Thailand 2016 and TSCCM Annual Meeting 2016. Bangkok Convention Centre at Central world, Bangkok, Thailand. October 12th -15th, 2016.
- 20. Critical care nephrology: Preventing cardiorenal syndrome.** In the 19th Asia Pacific Congress of Critical Care medicine combined with Second Joint Meeting of JSICM & TSCCM, 7th Critical Care Conference in Thailand 2016 and TSCCM Annual Meeting 2016. Bangkok Convention Centre at Central world, Bangkok, Thailand. October 12th -15th, 2016.
- 21. Prescription/Order Sets/ Decision Making/Coordination of Care.** In The 1st Asia Pacific AKI CRRT 2017. Kuala Lumpur Convention Centre, Malaysia. August 20th-23th, 2017.
- 22. Etiological Factors for Acute Kidney Injury in the Tropics.** In The 1st Asia Pacific AKI CRRT 2017. Kuala Lumpur Convention Centre, Malaysia. August 20th-23th, 2017.
- 23. The immunomodulation effect of polymyxin b hemoperfusion in severe sepsis.** In The 22th Annual Meeting of Endotoxemia Congress, Tokyo, Japan. January 19th-20th, 2018.
- 24. Management of Severe Dengue Infection.** In 3rd Asia Dengue Summit 2018, Berjaya Time Square Hotel, Kuala Lumpur, Malaysia. July 4th-6th, 2018.
- 25. Changing Paradigm of AKI Management: CRRT- Principles, Patient Selection and Prescription.** In 37th Malaysia Society of Nephrology Annual Congress. Setia SPICE Convention Centre, Penang, Malaysia. July 27th-29th, 2018.
- 26. Case discussion AKI in the Tropics.** In 37th Malaysia Society of Nephrology Annual Congress. Setia SPICE Convention Centre, Penang, Malaysia. July 27th-29th, 2018.
- 27. Recovery of AKI: Management & follow-up.** In 37th Malaysia Society of Nephrology Annual Congress. Setia SPICE Convention Centre, Penang, Malaysia. July 27th-29th, 2018.

- 28. Debate; Open vs Close System of patient management.** In 37th Malaysia Society of Nephrology Annual Congress. Setia SPICE Convention Centre, Penang, Malaysia. July 27th-29th, 2018.
- 29. Strategies Rural management of AKI.** In The 16th Asian Pacific Congress of Nephrology 2018. National Convention Center, Beijing, China. March 27th -31th, 2018.
- 30. AKI in the Tropics. In 2nd Asia Pacific AKI CRRT 2018.** Marriot Hotel, Taipei, Taiwan. August 21st-24th, 2018.
- 31. Blood Purification in Critical Care: an overview of the current status in the world.** In 29th Annual Meeting Japanese Society of Blood Purification in Critical Care. Nagoya, Japan. October 19th-20th, 2018.
- 32. Case-Based Panel Discussion: e.g When and how to treat AKI or sepsis patient.** In 29th Annual Meeting Japanese Society of Blood Purification in Critical Care. Nagoya, Japan. October 19th-20th, 2018.
- 33. When and how to say no for RRT.** In World Congress of Nephrology 2019. Melbourne, Australia. April 12th -15th, 2019.
- 34. AKI in Southeast Asia: Patterns of Care.** In 24th International AKI&CRRT Conference 2019. San Diego, USA, February 27th-March 1st, 2019.
- 35. Update from Ongoing and Late Breaking Trials, FST Trial.** In 24th International AKI&CRRT Conference 2019. San Diego, USA, February 27th - March 1st, 2019.
- 36. Diagnostics of renal recovery and Monitoring of the AKI-to-CKD process.** In the Next Gen Meeting 2019. Frankfurt, Germany. March 6th 2019.
- 37. The Epidemiology and Characteristics of Acute Kidney Injury In The Intensive Care Unit In Resource Limited Settings : A Prospective Multicenter Study.** In The 25th edition of the ISN World Congress of Nephrology (WCN) 2019. Melbourne, Austria. April 11th – 15th 2019.
- 38. Potential dengue biomarkers as a predictor of severe cases.** In The 4th ASIA DENGUE SUMMIT 2019. Jakarta, Indonesia. July 14th -15th 2019.

- วิทยากรงานประชุมระดับประเทศ **108** เรื่อง

- 1. Clinical Application of Biomarkers in Acute Kidney Injury.** In New Frontiers in Nephrology. Centara Grand Central Ladproa Hotel, Bangkok, Thailand. January 28th-29th, 2012.
- 2. Current and Future Trends of Acute RRT in the ICU.** In Dialysis Weekend 2011. The Zign hotel, Pattaya, Chonburi, Thailand. February 11th -12th , 2012.
- 3. Principle of CRRT.** In Advancing Critical Care Education for Renal Replacement Therapy. Courtyard by Marriott, Bangkok, Thailand. February 2nd - 4th , 2012.
- 4. Hyponatremia.** In the 28th Annual Scientific Meeting of The Royal College of Physicians of Thailand. Ambassador Hotel, Pattaya Chonburi, Thailand. April 25th- 30th , 2012.
- 5. Fluid balance in dialysis patients.** In the Annual Meeting of Thai Nephrology Nurses Association. Prince Palace Hotel, Bangkok, Thailand. May 26th-27th , 2012.
- 6. Sepsis and AKI in the Elderly Patients.** In the 51th Annual Meeting of King Chulalongkorn Memorial Hospital. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. July 17th-20th , 2012.
- 7. Critical Care Medicine for Urologists.** In the Annual Meeting of Royal College of Surgeons of Thailand. Ambassador Hotel, Chonburi, Thailand. August 3rd , 2012.
- 8. Update on KDIGO AKI guideline.** In the Annual Meeting of Nephrology Society of Thailand. The Zign Hotel, Chonburi, Thailand. August 17th -19th , 2012.
- 9. Acute kidney injury and dialysis.** In Advanced Critical and Emergency Care Nursing 2012, King Chulalongkorn Memorial Hospital, Bangkok, Thailand. August 20th , 2012.
- 10. Renal Ischemia During Oncologic Urology Surgery.** In the 11th Asian Congress of Urology of the Urological Association of Asia, Royal Cliff Beach Hotel, Chonburi, Thailand. August 22nd-26th , 2012.
- 11. Clinical of Leptospirosis in Thailand.** In A Prospective Immunogenicity Surveillance Registry of Erythropoiesis Stimulating Agent (ESA) with Subcutaneous Exposure in Thailand, Charoen Thani Khonkaen Hotel, Khonkan, Thailand. September 7th , 2012.
- 12. Blood Volume Monitoring (BVM): Bioimpedance.** In Renal Diseases & Biotechnology for Blood Purification (RB2012). The Empress Chiangmai Hotel, Chiangmai, Thailand. November 30th , 2012.
- 13. Blood Purification therapies: Plasmapheresis & Hemoperfusion.** In Dialysis Review for Nurses 2013. Prince Palace Hotel, Bangkok, Thailand. January 18th-20th , 2013.
- 14. Definition of AKI and scope of problem.** In South East Asian Biomarker Consensus Gathering. Novotel Siam Hotel, Bangkok, Thailand. February 17th-18th , 2013.
- 15. How to Resuscitate in Severe sepsis & Sepsis Shock Patients?.** In KCHM-Sepsis Day. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. March 7th - 8th , 2013.

- 16. How to practice RCA for CRRT patients and How to practice for using Albumin or FFB to be the dialysate solution to reduce bilirubin in hepatic disease.** In the Baxter Month End meeting of staffs. Baxter Healthcare (Thailand) Co.,Ltd. Bangkok, Thailand. March 29th,2013.
- 17. Hyponatremia.** In Guest Lecture. Chulalongkorn Hospital, Bangkok, Thailand. April 2nd, 2013.
- 18. Controversy in Acute Kidney Injury.** In the 29th Annual Meeting of Royal College of Physician of Thailand. Royal Cliff Beach Hotel, Chonburi, Thailand. April 24th -27th, 2013.
- 19. Scenario Post Cardiac Arrest Care.** In Post CPR Day. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. June 10th-11th, 2013.
- 20. Medicine Tropical Nephology.** In the 52nd Annual Meeting of King Chulalongkorn Memorial Hospital. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. June 18th-21st, 2013.
- 21. Update on pathophysiology of severe Leptospirosis.** In the Annual Meeting of Leptospirosis Club of Thailand. Miracle Grand Convention Hotel, Bangkok, Thailand. July 18th-19th, 2013.
- 22. Acute kidney injury and dialysis.** In Advanced Critical and Emergency Care Nursing 2556. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. August 5th-23th, 2013.
- 23. Renal : Benefit with Proven Renal Protection.** In MSD 2013 Cardiovascular-Metabolic Forum : Cardiometabolic Syndrome in Thailand. Renaissance Hotel, Bangkok, Thailand. September 8th, 2013.
- 24. Acute kidney injury (AKI),** In Leading the fight against kidney disease. Crowne Plaza Hotel , Bangkok, Thailand. November 23th, 2013.
- 25. Critical Knowledge for Setting up CRRT in Your ICU.** In Critical Care Medicine 2013: From Global Perspective to Everyday Practices. Phramongkutklao Hospital, Bangkok, Thailand. December 25th, 2013.
- 26. Acute kidney injury (Why does the kidney fail?).** In Critical Care Medicine 2013: From Global Perspective to Everyday Practices. Phramongkutklao Hospital, Bangkok, Thailand. December 27th, 2013.
- 27. Extracorporeal Treatment for AKI & Initialtion.** In Dialysis Review for Nurses 2014. Prince Palace Hotel, Bangkok, Thailand. February 8th, 2014.
- 28. AKI in critical ill patients : assessment and management.** In Critical points in Critical care. Narai Hotal, Bangkok, Thailand. March 7th, 2014.
- 29. Definition of AKI, Chronic kidney and ESRD.** In the 79th Annual Meeting of The Royal College of Anesthesiologists of Thailand. Montien Riverside Hotel, Bangkok, Thailand. March 15th -16th, 2014.

- 30. How to prevent AKI preoperative and intraoperative.** In the 79th Annual Meeting of The Royal College of Anesthesiologists of Thailand. Montien Riverside Hotel, Bangkok, Thailand. March 15th -16th, 2014.
- 31. Role of DDAVP in renal disease.** In the 79th Annual Meeting of The Royal College of Anesthesiologists of Thailand. Montien Riverside Hotel, Bangkok, Thailand. March 15th - 16th, 2014.
- 32. Acute Kidney Injury.** In Advanced & Workshop Continuous Renal Replacement Therapy (CRRT). King Chulalongkorn Memorial Hospital, Bangkok, Thailand. March 26th-27th, 2014.
- 33. Principle of CRRT, CRRT Modaliry.** In Advanced & Workshop Continuous Renal Replacement Therapy (CRRT). King Chulalongkorn Memorial Hospital, Bangkok, Thailand. March 26th-27th, 2014.
- 34. Fluid resuscitations and acute kidney injury.** In From Bench to Beside and Beyond. Royal Cliff Beach Hotel, Chonburi, Thailand. April 23rd -26th, 2014.
- 35. Current status of CRRT in AKI requiring renal support: A bridge to Other Organ replacementtherapy: ECMP.** In Chiang Mai CKD & CAPD Conference. Tweechol Botanical Garden, Chiang Mai, Thailand. June 21st - 22nd, 2014.
- 36. Sepsis Management.** In Chiang Mai CKD & CAPD Conference. Tweechol Botanical Garden, Chiang Mai, Thailand. June 21st - 22nd, 2014.
- 37. Uses of biomarkers in critical care Cardiac biomarkers.** The 5th Critical Care Conference in Thailand 2014: All About Organ Support. Dusit Thani Hua Hin, Phetchaburi , Thailand. June 26th – 28th, 2014.
- 38. "Severe leptospirosis: What's known?" Update in pathogenesis of severe pulmonary hemorrhage associated leptospirosis.** In the Annual Meeting of Leptospirosis Club of Thailand "Leptospirosis: Now and then". Miracle Grand Convention Hotel, Bangkok, Thailand. July 24th-25th, 2014.
- 39. Hot issue in leptospirosis.** In the Annual Meeting of Leptospirosis Club of Thailand "Leptospirosis: Now and then". Miracle Grand Convention Hotel, Bangkok, Thailand. July 24th-25th, 2014.
- 40. Current status of CRRT in AKI.** In Nephrology Course. Eastin Grand Sathorn Hotel, Bangkok, Thailand. August 2nd, 2014.
- 41. Emergency Management in HD Patients.** The Efficient Care in Hemodialysis Patients. Bhumirajanakarindra Kidney Institute Hospital, Thailand. August 15th, 2014.
- 42. Acute kidney injury in Critically in patients.** Chonburi Hospital, Thailand. August 29th, 2014.
- 43. AKI Biomarkers. Does it ready to use in clinical practice?.** In Advance Continuous Renal Replacement Therapy (CRRT). King Chulalongkorn Memorial Hospital, Bangkok, Thailand. November 28th, 2014.

- 44. Volume Assessment for HD Patients.** In refresher Course of Hemodialysis Nurse. Bhumirajanakarindra Kidney Institute Hospital, Thailand. December 1st, 2014.
- 45. Pulmonary involvement in severe Leptospirosis.** In Expert Group Meeting of Leptospirosis in vulnerable areas. Khonkaen Hospital, Khonkaen, Thailand. December 2nd, 2014.
- 46. Advance in renal critical care: Fluid management in ARF.** In Critical Care Medicine 2014: The Smart ICU. Centara Grand Central Ladproa Hotel, Bangkok, Thailand. December 18th-20th, 2014.
- 47. Acute Kidney Injury (AKI).** In Tutorial Course for Nephrology Fellowship. Pullman Hotel, Bangkok, Thailand. December 21th 2014.
- 48. Biomarkers for AKI: Diagnosis and Outcome Prediction.** Nephrology Meeting: Acute Kidney Injury 2015 Revisited. Vajira Hospital, Bangkok, Thailand. January 16th, 2015.
- 49. Extracorporeal Treatment for AKI & Initiation.** In the Annual Meeting of Thai Nephrology Nurses Association: Dialysis Review for Nurses 2015. Prince Palace Hotel, Bangkok, Thailand. February 7th, 2015.
- 50. Acute Kidney Injury and Dialysis.** In Advanced Critical and Emergency Care Nursing. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. February 13th, 2015.
- 51. RRT and Fluid balance in acute kidney injury.** In Dialysis weekend 2015: Quality Dialysis for Improving Outcome. The Zign Hotel, Chonburi, Thailand. February 13th, 2015.
- 52. Sepsis update 2015: The practical points and pitfalls.** In Joint Conference Medical Sciences 2015: JCMS2015: Health equity through innovation and collaboration. Centara Grand & Bangkok Convention Centre at Central World Hotel, Bangkok, Thailand. June 4th-6th, 2015.
- 53. How to Run CRRT Smoothly? A Practical Approach for Intensivists.** In The 1st Joint JSICM-TSCCM Conference and 6th Critical Care Conference in Thailand "All About Best Practices". Centara Grand at Central Plaza Ladprao, Bangkok Thailand. June 25th -27th, 2015.
- 54. Extracorporeal blood purification: The Current Evidences.** In Innovation Sepsis Treatment with Endotoxin Removal Hemoperfusion. Centara Grand at Central Plaza Ladprao Hotel, Bangkok, Thailand. June 26th, 2015.
- 55. Role of SLED and CRRT in AKI.** In Advance Renal Cares for All. (Chiangkhan River Mountain Resort, Loei, Thailand. July 17th, 2015.
- 56. Severe Sepsis/Septic Shock.** In Severe Sepsis/Septic Shock for Nurses. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. July 24th, 2015.
- 57. Current concept in management of septic AKI.** In the Annual Meeting of Nephrology Society of Thailand 2015: APSN/NST Continuing Medical Education (CME) Course. The Zign Hotel, Chonburi, Thailand. August 7th - 9th, 2015.
- 58. Critical care in dengue management.** In International Training Course on Dengue Management. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. September 7th - 9th, 2015.

- 59. Organ supports in patients with severe sepsis and septic shock: Renal support.** In World Sepsis Day (WAD) Thailand 2015: Holistic View of Sepsis Care: Learning from Theory and Practice. Impact Muang Thong Thani, Bangkok, Thailand. September 10th, 2015.
- 60. Clinical use of biomarkers in AKI.** In Improving Outcomes in AKI and CRRT 2015. Bhumibol Adulyadaj Hospital, Bangkok, Thailand. October 9th, 2015.
- 61. Critical Care Nephrology (CRRT & SFHDF: What is hot & new?).** In Renal Diseases & Biotechnology for Blood Purification (RB2015). The Empress Hotel, Chiang Mai, Thailand. December 12th, 2015.
- 62. Nutrition support/Anticoagulant/Renal support/Other Complications.** In Critical Care Medicine 2015: The Acute Care (Pre-congress educational program). Phramongkutklao Hospital, Bangkok, Thailand. December 16th, 2015.
- 63. Uses of crystalloids in Critical Care.** In Critical Care Medicine 2015: The Acute Care. Centara Grand at Central Plaza Ladprao Hotel, Bangkok, Thailand. December 18th, 2015.
- 64. HD for acute kidney injury.** In Intensive Review in Management of Hemodialysis Patients. Golden Tulip Hotel, Bangkok, Thailand. December 19th, 2015.
- 65. Severe sepsis.** In Infectious diseases emergencies. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. January 16th, 2016.
- 66. Continuous Renal Replacement Therapy in ICU.** In Short Course Fellowship Training Program in Cardiovascular Nursing. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. April 22th, 2016.
- 67. CRRT.** In Khon Kaen Critical Care Conference (1st KCCC). Khon Kaen University, Khon Kaen. June 8th -10th, 2016.
- 68. Advanced CRRT Techniques: A bridge to other organ replacement therapy: Combining CRRT with ECMO, MARS and Plasmapheresis.** In Advance for Continuous Renal Replacement Therapy. Amora Hotel, Chiang Mai. July 8th, 2016.
- 69. CRRT Complication and Troubleshooting by Prima Flex Machine.** In Advance for Continuous Renal Replacement Therapy. Amora Hotel, Chiang Mai. July 8th, 2016.
- 70. Oby25 AKI.** In the Annual Meeting of Nephrology Society of Thailand 2016: Walking on the Advances to Healthy Kidneys. The Zign Hotel, Chonburi, Thailand. July 29th - 31th, 2016.
- 71. Herbal, polypharmacy and kidney injury.** In MDCU Congress 2016. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. August 17th - 19th, 2016.
- 72. Fluid Management in Critically iLL Patients.** In Advanced Course in Critical Care Nephrology. Bhumibol Adulyadej Hospital, Bangkok, Thailand. September 1st, 2016.
- 73. Conceptual approach and management of acute kidney injury.** In Nephrology Board Review Course 2016. Golden Tulip Sovereign Hotel, Bangkok, Thailand. September 24th - 25th, 2016.

74. AKI practical guideline : Early diagnosis and risk stratification. In the 19th Asia Pacific Congress of Critical Care medicine combined with Second Joint Meeting of JSICM & TSCCM, 7th Critical Care Conference in Thailand 2016 and TSCCM Annual Meeting 2016. Bangkok Convention Centre at Centralworld, Bangkok, Thailand. October 12th -15th, 2016.

75. Critical care nephrology : Preventing cardiorenal syndrome. In the 19th Asia Pacific Congress of Critical Care medicine combined with Second Joint Meeting of JSICM & TSCCM, 7th Critical Care Conference in Thailand 2016 and TSCCM Annual Meeting 2016. Bangkok Convention Centre at Centralworld, Bangkok, Thailand. October 12th-15th, 2016.

76. Novel Biomarkers in AKI: Diagnosis and Outcome Prediction. In Nephrology Meeting "Acute Kidney Injury 2016". Golden Tulip Sovereign Hotel, Bangkok, Thailand. October 28th-29th, 2016.

77. Running CRRT in sepsis in ICU, drug dosing in CRRT. In the 2nd Emergency and Critical Care Medicine Update. Ramathibodi Hospital Mahidol University, Bangkok, Thailand. April 4th, 2017.

78. Smart use of nephrotoxic agents. In the Annual Meeting of Ambulatory Medicine 2017: Safe and Smart Practice in Medicine. Asia Hotel, Bangkok, Thailand. April 20th, 2017.

79. Monitoring in ICU. In Join Conference in Medical Sciences (JCMS) 2017. Centara Grand & Bangkok Convention Centre at Central World Hotel, Bangkok, Thailand. June 13th-15th, 2017.

80. Oliguria in Critical Care. In the 8th Critical Care Conference in Thailand 2017 & APACCM Stand Alone Conference. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. June 23th, 2017.

81. How to management leptospirosis suspicious cases? Srisaket experiences. In the Annual Meeting of Leptospirosis Club of Thailand 2017. Twin Lotus Hotel, Nakhon Si Thammarat, Thailand. June 29th - 30th 2017.

82. AKI patients with CRRT. In Chiang Mai Nephrology Conference (CNC2017). The Empress Chiang Mai Hotel, Chiang Mai, Thailand. July 7th-8th, 2017.

83. CRRT to improve patient survival. In Chiang Mai Nephrology Conference (CNC2017). The Empress Chiang Mai Hotel, Chiang Mai, Thailand. July 7th-8th, 2017.

84. Cardiovascular, renal and nutritional support: Electrolytes in CCM. In Critical Care Core lectures 2017. Eastin Grand Hotel Sathorn, Bangkok, Thailand. July 19th, 2017.

85. Continuous Renal Replacement Therapy (CRRT) in Critically iLL Patien with ECMO. In The 1st CICM International Conference "Translational Research: From Bench to Bedside". Thammasat University, Thailand. July 28th-29th, 2017.

86. Renal support in patients with severe sepsis and septic shock. In World Sepsis Day Thailand 2560. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. September 20th-21th, 2017.

- 87. Pathogenesis of AKI, Hemodialysis and Therapeutic Apheresis for Intoxication.** In Intensive Nephrology Board Review 2017. Sukosol Hotel, Bangkok, Thailand. October 14th-15th, 2017.
- 88. Acute Kidney Injury: Pathophysiology and its management.** In The Thai Renal Pharmacist Group Clinical Meeting 2017: A Case-Based Approach in Kidney Disease Patients. Narai Hotel Silom, Bangkok, Thailand. November 15th, 2017.
- 89. Acute Kidney Injury update.** In CUMAR 2017 : Emergency Medicine. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. November 13th - 17th, 2017
- 90. Oliguria in Critically Ill : Novel Biomarkers and Clinical Approach.** In Review in Internal Medicine. Phramongkutklao Hospital, Thailand. December 22th, 2017.
- 91. Extracorporeal Treatment for AKI & Initiation.** In Dialysis Review for Nurses 2018. Prince Palace Hotel, Bangkok, Thailand. February 3rd-4th, 2018.
- 92. Acute Kidney Injury and Dialysis.** In Advanced Critical and Emergency Care Nursing. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. February 16th, 2018.
- 93. Blood Purification during ECMO or CRRT.** In Basic BREATH 2018 & Advanced BREATH 2018, Practical ECMO 2018 Intensivist. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. February 15th-18th, 2018.
- 94. Blood Purification for Critical Care in Nephrology : Emerging strategies in the management of sepsis.** In Advance for Continuous Replacement Therapy. Maharaj Nakorn Chiang Mai Hospital. Chiang Mai, Thailand. March 21th, 2018.
- 95. Fluid Therapy and Kidney Outcomes: An Update.** In the Annual Meeting of Nephrology Society of Thailand 2018. The Zign Hotel, Chonburi, Thailand. August 3rd - 5th, 2018.
- 96. Critical care in the new era.** In MDCU Congress 2018. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. August 15th-17th, 2018.
- 97. Acute Kidney Injury: Pathophysiology and its management.** In The Thai Renal Pharmacist Group Clinical Meeting 2018. Narai Hotel, Bangkok, Thailand. October 10th-12th 2018.
- 98. Acute Kidney Injury - Chronic Kidney Disease Transition.** In Nephrology Meeting & CKD Weekend 2019. Golden Tulip Sovereign Hotel, Bangkok, Thailand. January 18th -20th 2019.
- 99. Extracorporeal Treatment for AKI & Initiation.** In Dialysis Review for Nurses 2019. Prince Palace Hotel, Bangkok, Thailand. February 2nd -3rd 2019.
- 100. RRT in AKI Nephrologist aspect : CRRT, SLED.** King Chulalongkorn Memorial Hospital, Bangkok, Thailand. March 12th, 2019.
- 101. AKI: Pathophysiology and Its management.** Nakornping Hospital, Chiangmai, Thailand. March 15th 2019.

102. The success story of Excellence Research Center. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. March 28th 2019.

103. From conventional to novel blood purification and renal replacement therapy in sepsis: when why and how?. In Today practice and new frontiers in critical care and emergency medicine. Ramathibodi Hospital, Bangkok, Thailand. April 2nd 2019.

104. Regional citrate anticoagulation; Safe and Effective alternation for CRRT. In 2nd Shortcut to Continuous Renal Replacement Therapy. Vajira Hospital, Bangkok, Thailand. April 6th 2019.

105. Management of acute kidney injury in special situations. In the Annual Meeting of Medicine 2019 “Case-Based Approach to common Problems in Medicine (CUMAR). King Chulalongkorn Memorial Hospital, Bangkok, Thailand. June 25th - 29th 2019.

106. From lab to bedside: Case-based discussion. In The 3rd Annual Chula-Laboratory Medicine Conference (CLMC) 2019. King Chulalongkorn Memorial Hospital, Bangkok, Thailand. June 28th 2019.

107. Microcirculatory Support in Oliguric Patients. In The 3rd Conference in Choc 2019. Phramongkutklao Hospital, Thailand. August 3rd 2019.

108. Thailand’s Nephrology Research Highlight: Critical Care Nephrology. In the Annual Meeting of Nephrology Society of Thailand 2019. The Zign Hotel, Chonburi, Thailand. August 2nd - 4th, 2019.

Current Research Interest: Critical Care Nephrology, Septic acute kidney injury, Urinary and plasma biomarkers