

# 6<sup>th</sup> APELSO 2023 &


## The 55<sup>th</sup> Annual Scientific Meeting of the Korean Society for Thoracic & Cardiovascular Surgery

*"Post Pandemic, New Standards"*

November 2(Thu) ~ 4(Sat), 2023 | Grand Intercontinental Seoul Parnas, Seoul, Korea



### Curriculum Vitae

<b>Name</b>	<b>First Name</b>	Kollengode	<b>Last Name</b>	Ramanathan
<b>Country</b>	Singapore			
<b>Affiliation</b>	National University Hospital			
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#### **Educational Background**

Associate Professor Ramanathan is an Adult Cardiac Intensivist at the Cardiothoracic Intensive Care Unit (CTICU) at the National University Heart Centre, Singapore (NUHCS). He had his speciality training in Cardiac Anaesthesiology from India and is trained in Intensive Care Medicine from Brisbane, Australia. He is trained in the management of critically ill cardiac patients and has expertise in the management of patients with mechanical cardiac support in ICU. He completed his Diploma in Echocardiography [Dip Echo] and Masters in Clinical Ultrasound from the University of Melbourne and was awarded the honorary fellowship (FCCP) by the American College of Chest Physicians for his contributions to critical care.

#### **Professional Career**

He is currently the Programme Director for the ICU Fellowship as well as the Advanced Fellowship Training Programmes, that has trained intensivists from around the world - some of whom are currently leading intensive care units in various countries. He is the chair of the Core Curriculum Committee of the CTVS Residency programme at NUHCS. He also serves as the Supervisor of Training at NUH for the College of Intensive Care Medicine(CICM) in Australia.

A/Prof. Ramanathan has been instrumental in establishing simulation based courses and training programmes for medical specialists, residents and undergraduates in the region, educating them on various aspects of intensive care medicine and extracorporeal life support. Dr. Ramanathan is closely associated with the National ECMO Standing Committee at the Ministry of Health in Singapore. He currently leads the courses workgroup at the ECMO education Committee at the Extracorporeal Life Support Organisation(ELSO), USA and is the Co-chair of the Scientific Oversight Committee and the Data Review Committee at the ELSO. He is the regional mentor for European Diploma in Echocardiography trainees and is the approved echocardiography trainer for CICM, Australia.

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### Research Field

A/Prof. Ramanathan is the research lead for CTICU and has been actively involved in research programmes involving post-operative care and extracorporeal support. He has published several papers and has been an invited speaker at conferences and workshops. He is the lead site investigator for the multi centre APPIRED trial and the co-principal investigator for the APTREAT trial, both of which look at reducing post-operative complications in patients following cardiac surgeries. He mentors medical students, residents, clinical fellows and PhD students in various research projects in CTICU and his team has presented and won laurels at various international conferences.

### Papers, Books, etc. presented or published by your name

<https://scholar.google.com/citations?hl=en&pli=1&user=5ISqIaEAAAJ>

#### Top 10 publications

Respiratory system mechanics and outcomes in mechanically ventilated patients with COVID-19 related acute respiratory distress syndrome. Reddy MP, Subramaniam A, Chua C, Ling RR, Anstey C, Ramanathan K, Slutsky AS, Shekar K. *The Lancet Respir Med*, 2022  
Myopericarditis following COVID-19 vaccination and non-COVID-19 vaccination: a systematic review and meta-analysis. Ling, R\*; Ramanathan, K\*; Tan, FL; Tai, BC; Somani, J; Fisher, D; MacLaren, G. *The Lancet Respir Medicine*, 2022.

Prognostic factors associated with mortality among patients receiving venovenous extracorporeal membrane oxygenation for COVID-19 – a systematic review and meta-analysis. Tran A, Fernando SM, Rochweg B, Barbaro RP, Hodgson CL, Munshi L, MacLaren G, Ramanathan K, et al. *The Lancet Respir Med*, 2022.

The value of open-source clinical science in pandemic response: lessons from ISARIC. Group, The ISARIC Clinical Characterisation; *The Lancet Infectious Diseases*. 2021

Artificial intelligence in peripheral blood films: an evolving landscape. Fan, BE; Wang, SSS; Aw, MYN; Chia, MF; Chen, DTY; Ramanathan, K; Wong, MS; Ponnudurai, K; Winkler, S. *The Lancet Haematology*, 2022.

Direct oral anticoagulants in atrial fibrillation following cardiac surgery: a systematic review and meta-analysis with trial sequential analysis Koh, KK; Ling, RR; Tan, SYS; Chen, Y; Fan, BE; Shekar, K; Sule, J; Subbian, SK; Ramanathan, K. *British Journal of Anaesthesia* 2022

Extracorporeal Life Support Organization Guidelines for Fluid Overload, Acute Kidney Injury, and Electrolyte Management. Bridges, BC; Dhar, A; Ramanathan, K; Steflink, HJ; Schmidt, M; Shekar, K. *ASAIO Journal*, 2022.

Extracorporeal Membrane Oxygenation Support in COVID-19: The Registry Report from the Extracorporeal Life Support Organization. RP Barbaro, G MacLaren, PS Boonstra et al, *The Lancet*, 396(10257), 1071-1078.

Evolving outcomes of extracorporeal membrane oxygenation during the first 2 years of the COVID-19 pandemic: a systematic review and meta-analysis. Ling, R.R., Ramanathan, K., Sim, J.J.L. et al. *Crit Care* 26, 147 (2022).

Planning and provision of extracorporeal membrane oxygenation services for severe acute respiratory distress syndrome during COVID-19 and other emerging infectious disease outbreaks. Ramanathan K, Antoginini D, Combes A, Paden M, Zakhary B, Ogino M, MacLaren G, Brodie D, Shekar K. *The Lancet Respiratory Medicine*, 2020; 8(5),518-526