

# Rohin Jayaram Krishnan, MD, MSc

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## Postgraduate Training

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| <b>Critical Care Medicine</b><br>Dartmouth Hitchcock Medical Center, Lebanon, NH | July 2026–2028 |
| <b>Emergency Medicine Residency</b><br>Yale University, New Haven, CT, USA       | 2022–2026      |

## Education

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| <b>M.D.</b><br>University of Hawai'i, John A. Burns School of Medicine (JABSOM), Honolulu, HI, USA             | 2018–2022 |
| <b>M.Sc., Epidemiology and Biostatistics</b><br>Western University, London, Ontario, Canada                    | 2014–2017 |
| <b>B.Sc. Honors Double Major, Medical Science &amp; Biology</b><br>Western University, London, Ontario, Canada | 2010–2014 |

## Research Experience

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| <b>Research Assistant</b><br>Syncope Research Group, Department of Emergency Medicine, The Ottawa Hospital Research Institute, Ottawa, Canada<br>Supervisor: Dr. Venkatesh Thiruganasambandamoorthy                                                                                                                                    | 2019–2022 |
| <b>Research Assistant</b><br>Center for Medical Evidence, Decision Integrity and Clinical Impact, Department of Anesthesia and Perioperative Medicine, Western University, London, Ontario, Canada<br>Supervisor: Dr. Janet Martin                                                                                                     | 2017–2022 |
| <b>Casual Research Analyst</b><br>Centre for Addiction and Mental Health, Toronto, Ontario<br>Supervisor: Dr. Michael Roerecke                                                                                                                                                                                                         | 2016–2018 |
| <ul style="list-style-type: none"><li>Screened and extracted data for several reviews examining the impact of alcohol use and health outcomes.</li></ul> <b>Clinical Research Assistant</b><br>Department of Otolaryngology and Head and Neck Surgery, St. Joseph's Hospital, London, Ontario, Canada<br>Supervisor: Dr. Leigh Sowerby | 2016–2017 |
| <ul style="list-style-type: none"><li>Performed duties related to patient enrolment in clinical trials, data collection, grant/ethics submission, data analysis, and knowledge translation.</li></ul>                                                                                                                                  |           |

## Publications

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### Peer-Reviewed Journal Articles

- Koo SS, **Krishnan RJ**, Ishikawa K, Matsunaga M, Ahn HJ, Murayama KM, Kitamura RK. Subtotal vs total cholecystectomy for difficult gallbladders: a systematic review and meta-analysis. *Am J Surg*. 2024;229:145–150. doi:10.1016/j.amjsurg.2023.12.022. PMID:38168604.
- van de Kuit A, **Krishnan RJ**, Mallee WH, Goedhart LM, Lambert B, Doornberg JN, Vervest TMJS, Martin J. Surgical site infection after wound closure with staples versus sutures in elective knee and hip arthroplasty: a systematic review and meta-analysis. *Arthroplasty*. 2022;4(1):12. doi:10.1186/s42836-021-00110-7.
- Krishnan RJ**, Mukarram M, Ghaedi B, Sivilotti MLA, Le Sage N, Yan JW, Huang P, Hegdekar M, Mercier E, Nemnom MJ, Calder LA, McRae AD, Rowe BH, Wells GA, Thiruganasambandamoorthy V. Benefit of

hospital admission for detecting serious adverse events among emergency department patients with syncope: a propensity-score-matched analysis of a multicentre prospective cohort. *CMAJ*. 2020;192(41):E1198–E1205. doi:10.1503/cmaj.191637. PMID:33051314.

4. **Krishnan RJ**, Crawford EJ, Syed I, Kim P, Rampersaud YR, Martin J. Is the risk of infection lower with sutures than with staples for skin closure after orthopaedic surgery? A meta-analysis of randomized trials. *Clin Orthop Relat Res*. 2019;477(5):922–937. doi:10.1097/CORR.0000000000000690. PMID:30958392.
5. Ryan BL, **Krishnan RJ**, Terry A, Thind A. Do four or more antenatal care visits increase skilled birth attendant use and institutional delivery in Bangladesh? A propensity-score matched analysis. *BMC Public Health*. 2019;19(1):583. doi:10.1186/s12889-019-6945-4. PMID:31096959.
6. Sahovaler A, **Krishnan RJ**, Yeh DH, Zhou Q, Palma D, Fung K, Yoo J, Nichols A, MacNeil SD. Outcomes of cutaneous squamous cell carcinoma in the head and neck region with regional lymph node metastasis: a systematic review and meta-analysis. *JAMA Otolaryngol Head Neck Surg*. 2019;145(4):352–360. doi:10.1001/jamaoto.2018.4515. PMID:30844021.
7. Rai S, Sidhu A, **Krishnan RJ**. Transfusion-associated necrotizing enterocolitis re-evaluated: a systematic review and meta-analysis. *J Perinat Med*. 2018;46(6):665–676.
8. Hosseini-Moghaddam SM, **Krishnan RJ**, Guo H, Kumar D. Cytomegalovirus infection and graft rejection as risk factors for pneumocystis pneumonia in solid organ transplant recipients: a systematic review and meta-analysis. *Clin Transplant*. 2018;32(8):e13339.
9. Roerecke M, Tobe SW, Kaczorowski J, Bacon SL, Vafaei A, Hasan OSM, **Krishnan RJ**, Raifu AO, Rehm J. Sex-specific associations between alcohol consumption and incidence of hypertension: a systematic review and meta-analysis of cohort studies. *J Am Heart Assoc*. 2018;7(13):e008202. doi:10.1161/JAHA.117.008202. PMID:29950485.
10. **Krishnan RJ**, Uruthiramoorthy L, Jawaid N, Steele M, Jones DL. Mentoring needs of distributed medical education faculty at one Canadian medical school: a mixed method study. *Can J Rural Med*. 2018;23(3):68–75.
11. Scott JR, **Krishnan RJ**, Rotenberg BW, Sowerby LJ. The effectiveness of topical colloidal silver in recalcitrant chronic rhinosinusitis: a randomized crossover control trial. *J Otolaryngol Head Neck Surg*. 2017;46(1):64.
12. Chong MA, **Krishnan RJ**, Cheng D, Martin J. Should transfusion trigger thresholds differ for critical care versus perioperative patients? A meta-analysis of randomized trials. *Crit Care Med*. 2018;46(2):252–263.
13. Best CAE, **Krishnan RJ**, Malvankar-Mehta MS, MacNeil SD. Echocardiogram changes following parathyroidectomy for primary hyperparathyroidism: a systematic review and meta-analysis. *Medicine (Baltimore)*. 2017;96(43):e7255.
14. **Krishnan RJ**, MacNeil SD, Malvankar-Mehta MS. Comparing sutures versus staples for skin closure after orthopedic surgery: systematic review and meta-analysis. *BMJ Open*. 2016;6(1):e009257.

### Peer-Reviewed Abstracts

1. Thiruganasambandamoorthy V, **Krishnan RJ**, Kwong K, Krahn A, Swampillai J, Hazra S, Sumner G, Kuriachan V, Toarta C, Chaudry H, Kim SM, Mukarram M, Sheldon R, Taljaard M. Short-term outcomes among emergency department patients presenting with syncope and atrial fibrillation/flutter. *Acad Emerg Med*. 2020;27(S1):S7–S316.
2. **Krishnan RJ**, Mukarram M, Ghaedi B, Sivilotti MLA, Le Sage N, Yan JW, Huang P, Hegdekar M, Mercier E, Nemnom MJ, Calder L, McRae AD, Rowe BH, Wells GA, Thiruganasambandamoorthy V. Role of hospitalization for detection of serious adverse events among emergency department patients with syncope: a propensity-score matched analysis of a multicenter prospective cohort [Abstract]. *CJEM*. 2020;22(S1):S10.
3. **Krishnan RJ**, Chong M, Martin J. Antibiotics versus appendectomy for uncomplicated appendicitis: a global health perspective [Abstract]. *Am J Epidemiol*. 2016;184(1):78–80.
4. Hosseini-Moghaddam SM, **Krishnan RJ**. Pneumocystis pneumonia following solid organ transplantation, systematic review-meta analysis [Abstract]. *Am J Transplant*. 2016;16(S3):S729.

### Presentations

1. **Oral. Krishnan RJ** (Presenter), Mukarram M, Ghaedi B, Sivilotti MLA, Le Sage N, Yan JW, Huang P, Hegdekar M, Mercier E, Nemnom MJ, Calder L, McRae AD, Rowe BH, Wells GA, Thiruganasambandamoorthy V. Role

of hospitalization for detection of serious adverse events among emergency department patients with syncope: a propensity-score matched analysis of a multicenter prospective cohort. CAEP; June 1, 2020; Ottawa, ON, Canada. [Cancelled due to COVID-19.]

2. **Poster. Krishnan RJ**, Mukarram M, Ghaedi B (Presenter), Sivilotti MLA, Le Sage N, Yan JW, Huang P, Hegdekar M, Mercier E, Nemnom MJ, Calder L, McRae AD, Rowe BH, Wells GA, Thiruganasambandamoorthy V. Benefit of hospitalisation for emergency department patients with syncope: a propensity-score matched analysis of a multicenter prospective cohort. CANet HQP Symposium; September 12, 2019; Montreal, QC, Canada.
3. **Poster. Krishnan RJ** (Presenter), Mukarram M, Ghaedi B, Sivilotti MLA, Le Sage N, Yan JW, Huang P, Hegdekar M, Mercier E, Nemnom MJ, Calder L, McRae AD, Rowe BH, Wells GA, Thiruganasambandamoorthy V. Benefit of hospitalisation for emergency department patients with syncope: a propensity-score matched analysis of a multicenter prospective cohort. Hawaii Health Workforce Summit; September 7, 2019; Honolulu, HI, USA.
4. **Poster. Thiruganasambandamoorthy V, Krishnan RJ**, Ameri S (Presenter), Kwong K, Swampillai J, Toarta C, Sumner GL, Kuriachan VP, Sheldon R, Chaudry H, Hazra S, Kim SM, Mukarram M, Taljaard M. Short-term arrhythmia among emergency department syncope patients with atrial fibrillation. CANet HQP Symposium; September 12, 2019; Montreal, QC, Canada.
5. **Poster. Krishnan RJ** (Presenter), Crawford EJ, Syed I, Kim P, Rampersaud YR, Martin J. Is the risk of infection lower with sutures than with staples for skin closure after orthopaedic surgery? A meta-analysis of randomized trials. University of Hawaii Biomedical Sciences and Health Disparities Symposium; April 25, 2019; Honolulu, HI, USA.
6. **Oral. Roerecke M** (Presenter), Tobe SW, Kaczorowski J, Bacon SL, Vafaei A, Hasan OSM, **Krishnan RJ**, Raifu AO, Rehm J. The relationship between alcohol consumption and sex-specific incidence of hypertension: a systematic review and dose-response meta-analysis of cohort studies. Canadian Hypertension Congress; October 12, 2017; Toronto, ON, Canada.
7. **Oral. Scott JR** (Presenter), **Krishnan RJ**, Rotenberg BW, Sowerby LJ. The effectiveness of topical silver colloid in treating patients with recalcitrant chronic rhinosinusitis. CSOHSN Annual General Meeting; June 12, 2017; Saskatoon, SK, Canada.
8. **Poster. Sahovaler A** (Presenter), **Krishnan RJ**, Zhou Q, Fung K, Yoo J, Nichols A, MacNeil SD. Risk factors and outcomes of metastatic cutaneous squamous cell carcinoma in the head and neck region: systematic review and meta-analysis. CSOHSN Annual General Meeting; June 18, 2018; Quebec City, QC, Canada.
9. **Poster. Sahovaler A** (Presenter), **Krishnan RJ**, Zhou Q, Fung K, Yoo J, Nichols A, MacNeil SD. Risk factors and outcomes of metastatic cutaneous squamous cell carcinoma in the head and neck region: systematic review and meta-analysis. AHNS Annual Meeting; April 19, 2018; Baltimore, MD, USA.
10. **Poster. Vafaei A** (Presenter), Roerecke M, Tobe SW, Kaczorowski J, Bacon SL, Hasan OSM, **Krishnan RJ**, Raifu AO, Rehm J. Sex-specific association between alcohol consumption and incidence of hypertension: a systematic review and meta-analysis of cohort studies. Society of Epidemiologic Research Annual Meeting; June 20, 2018; Baltimore, MD, USA.
11. **Poster. Krishnan RJ**, Crawford EJ, Syed I (Presenter), Kim P, Rampersaud YR, Martin J. Is the risk of infection lower with sutures than with staples for skin closure after orthopaedic surgery? A meta-analysis of randomized trials. London Health Research Day; May 10, 2018; London, ON, Canada.
12. **Oral. Chong MA** (Presenter), **Krishnan RJ**, Martin J. Transfusion triggers in critical care and perioperative patients: a meta-analysis of randomized trials [Poster Discussion]. Canadian Anesthesiology Society Annual Meeting; June 26, 2016; Vancouver, BC, Canada.
13. **Oral. MacNeil SD** (Presenter), **Krishnan RJ**, Malvankar-Mehta MS, Costella J, Yoo J. Does parathyroidectomy reverse mortality risk in patients with primary hyperparathyroidism? A systematic review and meta-analysis. American Head and Neck Society 9th International Conference; July 17, 2016; Seattle, WA, USA.
14. **Poster. Hosseini-Moghaddam SM** (Presenter), **Krishnan RJ**. Pneumocystis pneumonia following solid organ transplantation, systematic review-meta analysis. American Transplant Congress; June 14, 2016; Boston, MA, USA.
15. **Oral. Krishnan RJ** (Presenter), Chong MA, Martin J. Antibiotics versus appendectomy for uncomplicated appendicitis: a global health perspective. CSEB Biannual Student Conference; June 10, 2016; Winnipeg, MB, Canada.

16. **Poster. Krishnan RJ** (Presenter), Jones DL, Jawaid N, Porcellato R, Steele M. Mentoring needs of distributed medical education faculty at one Canadian medical school: a mixed method study. Canadian Society of Rural Physicians; May 6, 2016; Charlevoix, QC, Canada.
17. **Oral. Krishnan RJ** (Presenter), Chong MA, Martin J. Antibiotics versus appendectomy for uncomplicated appendicitis: a global health perspective. London Health Research Day Annual Conference; March 29, 2016; London, ON, Canada.
18. **Poster.** Chong MA (Presenter), **Krishnan RJ**, Martin J. Transfusion triggers in critical care and perioperative patients: a meta-analysis of randomized trials. Midwest Anesthesia Resident Conference; April 9, 2016; Minneapolis, MN, USA.

## Other Scholarly Activity

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### Invited Talks

1. **Krishnan RJ** (Presenter). Does physiology always support evidence-based practice in perioperative and critical care medicine? ASATT Region 7 Conference; August 8, 2021; Honolulu, HI, USA.
2. **Krishnan RJ** (Presenter). Primer to clinical research: systematic review and meta-analysis. JABSOM Research Interest Group; November 2020 and November 2021; Honolulu, HI, USA.

### Non-Peer-Reviewed Articles

1. **Krishnan RJ**. Maternal healthcare utilization among Muslim mothers from India, Pakistan, and Bangladesh: is there equity? *Electronic Thesis and Dissertation Repository*. 2017;4613.
2. Rotenberg BW, **Krishnan RJ**. Mobile technology and physician communication: a new intersection of policy and reality. *Public Sector Digest*. January 19, 2017.

## Research Awards

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- **2nd Place for Best Abstract**, April 2016 — “Transfusion Triggers in Critical Care and Perioperative Patients: A Meta-Analysis,” Midwest Anesthesiology Residents Conference (MARCS).
- **Best Oral Presentation**, March 2016 — “Antibiotics versus Appendectomy for Uncomplicated Appendicitis: A Global Health Perspective,” London Health Research Day (LHRD). \$100 Award.
- **Best Abstract**, March 2016 — “Antibiotics versus Appendectomy for Uncomplicated Appendicitis: A Global Health Perspective,” London Health Research Day (LHRD). \$700 Award.

## Service and Leadership

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**JABSOM Admissions — Interviewer** 2021–2022

**Homeless Outreach Clinic — Student Healthcare Provider** 2020–2021

- Provided free healthcare to Hawaii’s homeless population.
- Gathered patient history, performed the physical exam, created the assessment/plan, and delivered necessary treatments under attending physician supervision.

**JABSOM Pre-Med Mentorship Program — Mentor** 2020

**Teen Mentorship Academy — Volunteer** 2018–2019

- Taught high school students in a health-track class at Kailua High School several times each month, covering clinical skills, problem-based learning, and college preparation.
- Traveled to the outer islands of Hawaii for full-day health camps, exposing students to clinical topics such as suturing, casting, clinical skills, and infectious disease.

## Teaching Experience

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### Graduate Teaching Assistant

2015

Department of Epidemiology, Western University, London, Ontario

## Work Experience

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### Residence Advisor

2013–2014

Western University, London, Ontario

## Certifications

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- ACLS — 2022–present
- PALS — 2022–present
- ATLS — 2022–present

## Memberships

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- Society of Academic Emergency Medicine — 2022–present