

Kevin Trentino, PhD, MPH, BCom.

Email: Kevin.trentino@health.wa.gov.au

BRIEF SUMMARY:

Dr Kevin Trentino is a postdoctoral health services researcher working in the fields of population health, medicine, and health sciences. His main research interests are patient blood management, transfusion outcomes, statistical and machine learning models for clinical prediction, health economics, public health, and health services benchmarking. Kevin currently has 48 peer reviewed publications (> 20 as first author) with > 2000 citations, a h-index of 21, and has co-authored numerous book chapters. He is an associate editor of the Patient Blood Management section of *Anesthesia and Analgesia*, the journal of the International Anesthesia Research Society, a member of the World Health Organization's Expert Working Group for Patient Blood Management Implementation Guidance, and an adjunct research fellow with the Medical School, University of Western Australia.

INSTITUTIONS:

- East Metropolitan Health Service, Perth, Western Australia
- The University of Western Australia, Perth, Australia

QUALIFICATIONS:

- **Doctor of Philosophy (2022)**
Institution: University of Western Australia (Perth, Australia)
- **Master of Public Health with Distinction (2019)**
Institution: University of Western Australia (Perth, Australia)
- **Bachelor of Commerce (2002)**
Institution: Curtin University of Technology (Perth, Australia)

APPOINTMENTS:

Research and Evaluation Lead

Community and Virtual Care Directorate, East Metropolitan Health Service

September 2023 – Current

Key Responsibilities:

- Provide strategic leadership to the directorate's clinical research activities
- Lead and mentor original research publications in international peer-reviewed journals.
- Develop and maintain strong networks and relationships with clinical and university researchers.
- Develop and promote a research culture to encourage and support research.

Adjunct Senior Research Fellow

Medical School, University of Western Australia

July 2018 – Current

Key Responsibilities:

- Lead research activities including, publications, grants, and clinical trials.
- Supervise and mentor student research projects (Honours, Dissertation, PhD)
- Membership on university and professional committees
- Moderate and present at faculty lectureships or symposia.

TOP RECENT PUBLICATIONS RELATED TO TRANSFUSION:

- Shander A, Javidroozi M, **Trentino KM** et al. The REALITY of MINT: Caution before changing transfusion practice in myocardial infarction based on recent clinical trials. Jan 2025. Transfusion.
- **Trentino KM**, Murray K, Shander A. Anemia or Transfusion: Getting to the Heart of the Issue. Apr 2024. Anesthesia and Analgesia. 138, 4, p. 725-727 3 p.
- Ansari T, Wani S, Hofmann A, Shetty N, Sangani K, Stamp CJ, Murray K, **Trentino KM**. Outcomes Associated with a Patient Blood Management Program in Major Obstetric Hemorrhage: A Retrospective Cohort Study. Nov 2024. Anesthesia and Analgesia. 10 p.
- **Trentino KM**, Shander A, Gross I, et al. Transfusion strategy trials excluding patients transfused outside the trial study period are more likely to report a trend favouring restrictive strategies: a meta-analysis. Sep 2024. Journal of Clinical Epidemiology.
- **Trentino KM**, Lloyd A, Swain SG, et al. Data and Metrics for Patient Blood Management: A Narrative Review and Practical Guide. Aug 2023. Anesthesia and Analgesia.
- **Trentino KM**, Sanfilippo FM, Leahy M, et al. Multivariable statistical models to predict red cell transfusion in elective surgery. Jan 2023. Blood Transfusion.
- **Trentino KM**, Leahy MF, Erber WN, et al. Hospital-Acquired Infection, Length of Stay, and Readmission in Elective Surgery Patients Transfused 1 Unit of Red Blood Cells: A Retrospective Cohort Study. Anesth Analg. 2022.
- **Trentino KM**, Schwarzbauer K, Mitterecker A, et al. Machine Learning-Based Mortality Prediction of Patients at Risk During Hospital Admission. J Patient Saf. 2022.
- **Trentino KM**, Mace H, Symons K, et al. Associations of a Preoperative Anemia and Suboptimal Iron Stores Screening and Management Clinic in Colorectal Surgery With Hospital Cost, Reimbursement, and Length of Stay: A Net Cost Analysis. Feb 2021, In: Anesthesia and Analgesia. 132, 2, p. 344-352 9 p.

TOP PRESENTATIONS (PAST 3 YEARS):

- **Kevin Trentino (2024)**. KEYNOTE ADDRESS: Evidence from big data and machine learning regarding transfusion outcomes (Virtual). 10th Annual Scientific Conference of the Blood Management Society. November 2024, Calabar, Nigeria.
- Tim Bowles and **Kevin Trentino (2024)**. Updates in Virtual Care Research. Royal Perth Hospital Research Foundation Food for Thought Seminar Series. November 2024, Perth, Australia.
- **Kevin Trentino (2024)**. Is Patient Blood Management Cost-effective? 2024 New Zealand Patient Blood Management Symposium. 28 November 2024, Wellington, New Zealand.
- **Kevin Trentino (2024)**. Moderator. Australian Session, NATA 24 Hour World Webinar PBM Marathon. April 2024. Online.
- **Kevin Trentino (2024)**. Data and Metrics: What Information Do We Need on a Population Health and Clinical Level. PBM Workshop: Concept, Benefits, and Implementation. January 2024. Riyadh, Saudi Arabia.
- **Kevin Trentino (2023)**. Aspects of public health in PBM adoption. 7° Congresso Nazionale Elettivo COMLAS. October 2023. Roma, Italy.
- Irwin Gross & **Kevin Trentino (2023)**. Data and Metrics for PBM: a Practical Guide. SABM 2023 Annual Meeting Program. October 2023, Nashville, USA.
- **Kevin Trentino (2023)**. Measures & metrics for continuous PBM data systems: how to use them to improve patient outcomes. Bootcamp for Accelerated Patient Blood Management Implementation in LATAM. July 2023. Cartagena, Colombia.
- **Kevin Trentino (2023)**. The basics of Data Collection and Reporting for a Patient Blood Management Program. Academia Virtual Sociedad Iberoamericana de PBM. January 2023. Mexico.