

CURRICULUM VITAE

Rebecca Ann Bertrandt MD

Associate Professor

Department of Pediatrics

Division of Critical Care

Clinical Champion, Pediatric Cardiac Critical Care Consortium (PC4) Database

OFFICE ADDRESS:

Children's Hospital
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EDUCATION:

07/1995 - 05/1999 B.S., University of Wisconsin, Madison, WI
12/1997 - 06/1998 Study abroad. Seville, Spain
07/1999 - 05/2003 M.D., University of Wisconsin, Madison, WI
06/2000 - 08/2000 Pediatric/Internal Medicine Summer Internship, Fort Atkinson, WI

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

07/2003 - 06/2006 Resident, Pediatrics, University of Minnesota, Minneapolis, MN
07/2006 - 12/2006 Fellowship, Pediatric Critical Care, University of Minnesota, Minneapolis, MN
01/2007 - 06/2009 Fellowship, Pediatric Critical Care, Medical College of Wisconsin, Milwaukee, WI
01/2010 - 04/2010 Fellowship, Cardiac Intensive Care Unit, Hospital for Sick Children, Toronto, Ontario, Canada

FACULTY APPOINTMENTS:

07/2009 - 06/2011 Instructor, Pediatric Critical Care, Medical College of Wisconsin, Milwaukee, WI
07/2011 - Present Associate Professor, Medical College of Wisconsin, WI, Pediatrics. Division of Critical Care, Milwaukee

ADMINISTRATIVE APPOINTMENTS:

07/2012 - Present Antimicrobial Steward for Cardiac Intensive Care Unit (CICU), Pediatrics, Critical Care, Children's Hospital of Wisconsin, Milwaukee, WI 53226
02/2013 - 06/2018 Member, Procedural Sedation Workgroup, Pediatrics, Critical Care, Medical College of Wisconsin/Children's Hospital of Wisconsin, 9000 West Wisconsin Ave, Wauwatosa, WI 53226
05/2013 - 12/2013 Member, eRVU Advisory Committee for Department of Pediatrics, Pediatrics, Critical Care, Medical College of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226
07/2013 - 12/2015 Site Coordinator for Sternal Wound Infection (SWI) Prevention Project, National, Multi-Center Quality Improvement Project, Pediatrics, Critical Care, Medical College of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226
07/2015 - 01/2019 ACE Committee, W3 Family Advisory Group, Pediatrics, Critical Care Cardiac Intensive Care, Children's Hospital of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226
01/2016 - Present Cardiac Discharge Process Improvement Workgroup, Pediatrics, Critical Care, Children's Hospital of Wisconsin, Milwaukee, WI 53226
01/2016 - Present Care of Adult Patients in the CICU Workgroup, Pediatrics, Critical Care, Children's Hospital of Wisconsin, Milwaukee, WI 53226
04/2016 - Present Medical Leader, Cardiac Procedures Chest Tube Removal Team, Pediatrics, Critical Care, Medical College of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226
04/2016 - Present Member, Cardiac Procedures Surgical Home Team, Pediatrics, Critical Care, Medical College of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226

04/2016 - Present Co-Sponsor Cardiovascular Procedure Care Process Optimization Team, Pediatrics, Critical Care, Medical College of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226

EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:

- 10/2011 - 06/2018 Liaison, Pediatric Nurse Practitioners for Cardiac Intensive Care Unit Rotations, Pediatrics, Critical Care Medicine, Medical College of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226
- 10/2011 - 2015 Chair, Pediatric Nurse Practitioner Cardiac Core Curriculum Development, Pediatrics, Critical Care Medicine, Medical College of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226
- 07/2014 - Present Intern Selection Committee Member, Pediatrics, Critical Care, Medical College of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226
- 07/2015 - Present Educational Liaison to Pediatric Residency Program for Critical Care, Pediatrics, Critical Care, Medical College of Wisconsin, 9000 W Wisconsin Ave, Milwaukee, WI 53226
- 07/2015 - 06/2018 Associate Fellowship Director, Pediatrics Critical care Medicine, Pediatrics, Critical Care, Medical College of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226
- 07/2015 - Present Director, Pediatric Cardiac Critical Care Resident Elective, Pediatrics, Critical Care, Medical College of Wisconsin, 9000 W Wisconsin Ave, Milwaukee, WI 53226
- 07/2015 - 06/2018 Director, Cardiac Critical Care Instructorship, Pediatrics, Critical Care (CICU), Medical College of Wisconsin, 9000 W Wisconsin Ave, Milwaukee, WI 53226
- 07/2015 - Present Director, Pediatric Critical Care M4 Sub-Internship, Pediatrics, Critical Care Medicine, Medical College of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226
- 07/2015 - Present Director, Cardiac ICU Medical Student Elective, Pediatrics, Critical Care Medicine, Medical College of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226
- 07/2015 - 07/2018 Director, Pediatric Critical Care Residency, Pediatrics, Critical Care, Medical College of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226
- 07/2015 - 06/2018 Director, Pediatrics: Critical Care Pediatrics Medical Student Elective, Pediatrics, Critical Care Medicine, Medical College of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226

RESEARCH ADMINISTRATIVE APPOINTMENTS:

- 06/2013 - 07/2015 Scholarship Oversight Committee Member-Roni Jacobsen, Pediatrics, Cardiology, Medical College of Wisconsin, Milwaukee, WI
- 07/2014 - 06/2017 Member, Scholarship Oversight Committee Dr. Patrick Noonan, Pediatric Critical Care Fellow, Pediatrics, Critical Care, Medical College of Wisconsin, 9000 W Wisconsin Ave, Milwaukee, WI 53226
- 01/2015 - 06/2017 Faculty Advisor-Rodrigo Rios-Lower Limb Regional Oxygenation Monitoring with Near Infrared Spectroscopy During Cardiac Catheterization of Infants, Pediatrics, Cardiology, Medical College of Wisconsin, Milwaukee, WI 53226
- 07/2015 - 06/2018 Scholarship Oversight Committee Member-Amee Bigelow, Pediatrics, Critical Care, Medical College of Wisconsin, Milwaukee, WI
- 07/2015 - 06/2018 Member, Scholarship Oversight Committee Dr. Erin Flynn, Pediatric Critical Care Fellow, Pediatrics, Critical Care, Medical College of Wisconsin, 9000 W Wisconsin Ave, Milwaukee, WI 53226
- 07/2015 - 06/2018 Lead Faculty Advisor for Dr. Erin Flynn, Pediatrics, Critical Care, Medical College of Wisconsin, Milwaukee, WI
- 07/2015 - Present Scholarship Oversight Committee Member-Patrick Noonan, Pediatrics, Critical Care, Medical College of Wisconsin, Milwaukee, WI
- 01/2020 - Present Lead Faculty Research Advisor Kathryn Higdon, Critical Care, Pediatrics, 9000 W Wisconsin Ave, Milwaukee, WI 53226

SPECIALTY BOARDS AND CERTIFICATION:

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
American Board of Pediatrics	10/2007	10/2025
Pediatric Critical Care	11/2010	11/2025

<u>Certificates</u>	<u>Issued By</u>	<u>Issue Date</u>	<u>Expiration</u>
Neonatal Resuscitation	Program	07/2003	06/2006
Pediatric Advanced Life	Support	07/2003	10/2020
Advanced Trauma Life	Support	01/2007	01/2011
Advanced Cardiac Life		2019	10/2021
Support			

<u>Licensure</u>	<u>Number</u>	<u>Issue Date</u>	<u>Expiration</u>
Minnesota License		01/07/2006	01/31/2008
Wisconsin License		11/14/2006	10/31/2021

AWARDS AND HONORS:

- 04/1995 Medical Scholars Program
- 07/1995 Honor Society, Phi Beta Kappa
- 09/1995 Honor Society, Phi Kappa Phi
- 04/1999 Scholarship, Oconomowoc Auxiliary Foundation
- 08/2010 Fellowship \$74,000 Over 3 Years, The Laura P. and Leland K. Whittier Virtual Pediatric Intensive Care Unit (VPICU)
- 09/2012 Outstanding Research Presentation-Relationship between Two Risk- Adjustment Tools and the Pediatric Logistic Organ Dysfunction Score in Pediatric Congenital Heart Surgery Patients, Pediatric Critical Care Colloquium, Los Angeles, CA

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

- 2003 - 2010 American Medical Association (Member)
- 2003 - 2010 American Academy of Pediatrics (Member)
- 2006 - Present Society of Critical Care Medicine (Member)
- 2009 - Present Pediatric Cardiac Intensive Care Society (Member)
- 2011 - Present Cardiothoracic Surgery Network (Member)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

- Journal Review
- 06/2016 - Present Journal of Thoracic and Cardiovascular Surgery Invited reviewer: 15 manuscripts reviewed to date
- 06/2019 - Present Journal of Pediatric Intensive Care Invited reviewer: 1 manuscript reviewed to date

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

- 2010 - 2011 Invited Participant, Multi-Societal Database Committee for Pediatric and Congenital Heart Disease
- 2015 - Present Member, Virtual PICU Systems (VPS) Cardiac Advisory Group
- 2015 - Present Clinical Champion, Pediatric Cardiac Critical Care Consortium

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Prior

Peer Review

Title:	Cardiovascular Research
Source:	The Laura P. and Leland K. Whittier Virtual Pediatric Intensive Care Unit (VPICU)
Role:	Principal Investigator
Dates:	07/01/2009 - 06/30/2012
Direct Funds:	\$74,000

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

Local

Rebecca Russell, M.D., Michael Quasney, M.D., Ph.D., Mary Dahmer, Ph.D., Poster presentation: Genetic Variability within the Myosin Light Chain Kinase Gene in Children with Community-Acquired Pneumonia, Annual Fellows' Research Forum Medical College of Wisconsin, Milwaukee, WI, 03/2008

Rebecca Russell, M.D., Is it necessary to routinely fenestrate an extra-cardiac Fontan?, Cardiac Journal Club Medical College of Wisconsin, Milwaukee, WI, 10/16/2012

National

Rebecca A Russell, M.D., Michael T Meyer, M.D., Matthew C Scanlon, M.D., Thomas B Rice, M.D., Poster Presentation: The State of Telemedicine Within the State of Wisconsin, American Thoracic Society Conference, San Francisco, CA, 05/2012

Rebecca A Russell, M.D., Nancy S Ghanayem, M.D., Evelyn M Kuhn, Ph.D., Howard E Jeffries, M.D., Matthew C Scanlon, M.D., Thomas B Rice, M.D., Oral Presentation: Relationship between Two Risk-adjustment Tools and the Pediatric Logistic Organ Dysfunction Score in Pediatric Congenital Heart Surgery Patients, Pediatric Critical Care Colloquium, Los Angeles, CA, 09/2012

Rebecca A Russell, M.D., Nancy S Ghanayem, M.D., Michael E Mitchell, M.D., Ronald K Woods, M.D., James S Tweddell, M.D., Poster Presentation: Bilateral Pulmonary Artery Banding as Rescue Intervention in High-risk Neonates, Society of Thoracic Surgeons Annual Conference, Los Angeles, CA, 01/2013

Russell RA, Boucher L, Panchal A, Mikhailov TA, Validation of Vasoactive Inotropic Score in Pediatric Patients after Cardiopulmonary Bypass, Pediatric Academic Society Meeting, San Diego, CA, 04/2014

Rebecca A Russell, M.D., Lindsey Boucher, CPNP-AC, CCRN, Apurva K Panchal, M.D., and Theresa A Mikhailov, M.D., Ph.D., Poster Presentation: Validation of Vasoactive Inotropic Score in Pediatric Patients after Cardiopulmonary Bypass, Pediatric Academic Societies Conference, San Diego, CA, 04/2015

Russell RA, Rettiganti M, Brundage N, Jeffries HE, Gupta P, Performance of Pediatric Risk of Mortality Score Among Critically ill Children with Heart Disease, Society of Critical Care Medicine Conference, Honolulu, HI, 01/2017

Rios R, Loomba RS, Gudausky TM, Foerster SR, Bertrandt RA, The use of near infrared spectroscopy in infants undergoing cardiac catheterization: characterization of lower extremity perfusion and prediction of arterial thrombus, Pediatric and Adult Interventional Cardiac Symposium, Miami, FL, 01/2017

Flynn E, Yan K, Thompson NE, Bertrandt RA, Impact of Early Extubation on Outcomes for Patients Undergoing Fontan Completion., Virtual PICU Systems (VPS) User Conference, Nashville, TN, 08/2018

Scott JP, Wakeham M, Bertrandt RA, Schultz J, Plahmer L, Saudek DM, Pediatric Cardiac Surgical Home Development is Associated with Reduced Hospital Length of Stay and Resource Utilization, American Society of Anesthesiologists Conference, Orlando, FL, 10/2018

Bertrandt RA, Saudek DM, Scott JP, Madrzak M, Miranda MB, Ghanayem NS, Woods RK, Chest Tube Removal Algorithm is Associated with Decreased Chest Tube Duration in Pediatric Cardiac Surgical Patients, Pediatric Cardiac Intensive Care Society Conference, Miami, FL, 12/2018

Flynn E, Yan K, Thompson NE, Bertrandt RA, Impact of Early Extubation on Outcomes for Patients Undergoing Fontan Completion, Pediatric Cardiac Intensive Care Society Conference, Miami, FL, 12/2018

Hoffman GM, Scott JP, Ghanayem NS, Stuth EA, Mitchell ME, Woods RK, Hraska V, Niebler RA, Bertrandt RA, Mussato KA, Tweddell JS, Identification of Time-Dependent Risks of Hemodynamic States following Stage 1 Norwood Palliation, Society of Thoracic Surgeons 55th Annual Meeting, San Diego, CA, 01/2019

International

Rebecca A Russell, M.D., Michael Quasney, MD., Ph.D., Mary Dahmer, Ph.D., Oral presentation: Genetic Variability within the Myosin Light Chain Kinase Gene in Children with Community-Acquired Pneumonia., Pediatric Critical Care Society Symposium, Whistler, British Columbia, 02/2008

Rebecca A Russell, M.D., Matthew C Scanlon, M.D., Kathleen Murkowski, RRT, Plenary Session, Oral Presentation: Discrepancies Between Medication Orders and, Healthcare Systems Ergonomics and Patient Safety Conference, Strasbourg, France, 06/2008

Rebecca A Russell, M.D., David Triscari, Kathy Murkowski, RRT, and Matthew C Scanlon, M.D, Closed-Loop Medication and Infusion Pump Discrepancies: A Human Factors Perspective, International Forum on Quality and Safety in Healthcare, Paris, France, 04/2012

COMMITTEE SERVICE:

Medical College of Wisconsin

07/2014 - Present Member, Intern Selection Committee, Pediatrics, Medical College of Wisconsin

Hospital

06/2007 - 12/2011 Member, Code Committee, Critical Care, Pediatrics, Children's Hospital of Wisconsin
01/2008 - 06/2009 Member, Cardiac Clinical Practice Committee, Critical Care, Pediatrics, Children's Hospital of Wisconsin

07/2011 - 2013 Member, Database Committee-Pediatric Cardiac Critical Care Consortium, Pediatrics, Critical Care

03/2013 - Present Member, PICU Patient Placement Task Force, Pediatrics, Critical Care, Children's Hospital of Wisconsin

04/2013 - Present Member, Procedural Sedation Workgroup, Critical Care, Pediatrics, Children's Hospital of Wisconsin

04/2013 - 12/2014 Member, eRVU Advisory Committee, Critical Care, Pediatrics, Children's Hospital of Wisconsin

07/2015 - Present Member, ACE Committee-CICU Family Advisory Group, Pediatrics, Critical Care, Children's Hospital of Wisconsin

MEDICAL COLLEGE TEACHING ACTIVITIES:

Medical Student Education

07/2008 - 06/2009 Critical Care didactic sessions for medical students & residents; Provided monthly presentation including Pathophysiology of Diabetic Ketoacidosis, Evaluation of a Child with Respiratory Distress, and Assessing Cardiac Output

09/2008 - 06/2009 M1 Biochemistry Course Small group facilitator

11/14/2012 Proctor, Medical Student objective structured clinical examination (OSCE)

04/29/2014 Foundations of Clinical Medicine, Instructor, Pediatrics Head to Toe Exam

Resident and Fellow Education

06/2010 Author/Presenter Critical care Fellows' Cardiac-focused Conference Case Presentations from Toronto Sick Kids Hospital

03/2011 Facilitator, Pediatric resident mock code simulation

06/2011 Facilitator, Pediatric intern case simulation

08/2011 Instructor, Pediatric resident procedure workshop: Airway skills

2012 - Present Presenter Critical Care Fellow's Cardiac-focused Conference Annual Lecture: Invasive Monitoring in the ICU or Case Presentation of patient with hypoplastic left heart syndrome

06/23/2015 Instructor, Incoming resident Procedural

EXTRAMURAL TEACHING:

Community/Lay Public

01/2009 - Present Instructor, Pediatric Advanced Life Support

02/2010 Local Church Group, Infant Basic Life Support Question and Answer Session

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Residents

Shela Sridhar, Medical College of Wisconsin, 07/2013 - 06/2015 Research/ teaching/ clinical advisor

Lea Steffes, Medical College of Wisconsin, 07/2014 - 06/2016 Research/ teaching/ clinical advisor

COMMUNITY SERVICE ACTIVITIES:

- 08/1999 - 05/2001 Southside Clinic volunteer. Medical student assistance as health care providers at community walk-in clinic.
- 06/2000 Camp Counselor, Muscular Dystrophy Association Summer Camp
- 06/2008 - 07/2010 Camp Physician, Rainbow Day Camp, Camp for children with congenital heart disease
- 2009 - Present Camp Physician, Camp Odayin, Annual week-long camp for children with congenital heart disease
- 10/2011 Cardiac ICU physician, Medical mission trip to Arequipa, Peru

NURSE AND NURSE PRACTITIONER EDUCATION:

- 01/2009 - Present Author/Presenter-Pediatric Critical Care Nursing Staff on RN Education Day Topics including Renal Physiology and Post-operative Electrolyte Management
- 01/2011 - Present Nursing Education Series-Lecture: Invasive Monitoring in the ICU, given five times during this time period
- 10/2011 Pediatric Nurse Practitioners Cardiac Curriculum- Topics: Common Physiologic States in the Cardiac ICU.
- 04/2013 - 06/2013 Author/Presenter-Nursing Education Series Topic: Cardiac Case Scenario. Eight lectures given over a two-month period

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Russell RA, Quasney MW, Halligan N, Li SH, Simpson P, Waterer G, Wunderink RG, Dahmer MK. Genetic variation in MYLK and lung injury in children and adults with community-acquired pneumonia. *Pediatr Crit Care Med*. 2010 Nov 11(6):731-6.
2. RG, Dahmer MK. Genetic variation in MYLK and lung injury in children and adults with community-acquired pneumonia. *Pediatr Crit Care Med*. 2010 Nov 11(6):731-6.
3. Russell RA, Murkowski K, Scanlon MC. Discrepancies between medication orders and infusion pump programming in a pediatric intensive care unit. *Qual Saf Health Care*. 2010 Oct 19 Suppl 3: i31-5.
4. Russell RA, Meyer MT, Scanlon MC, Rice TB. The state of telemedicine within the state of Wisconsin [Letter to the Editor]. *Wisconsin Medical Journal*. 2013; 112(4):152-3.
5. Russell RA, Ghanayem NS, Mitchell ME, Woods RK, Tweddell JS. Bilateral pulmonary artery banding as rescue intervention in high-risk neonates. *Ann Thor Surg*. 2013; 96(3): 885-90.
6. Russell RA, Ghanayem NS, Kuhn EM, Jeffries HE, Scanlon MC, Rice TB. Relationship between Risk-Adjustment Tools and the Pediatric Logistic Organ Dysfunction Score. *World J Pediatr Congenit Heart Surg*. 2014 Jan 1;5(1):16-21. PMID: 24403350
7. Russell RA, Triscari D, Murkowski K, and Scanlon MC. Impact of Computerized Order Entry to Pharmacy Interface on Order-Infusion Pump Discrepancies. *J Drug Deliv*. 2015;2015:686598.
8. Russell R, Quasney MW, Halligan N, Li SH, Simpson P, Waterer G, Wunderink RG, Dahmer MK. Genetic variation in MYLK and lung injury in children and adults with community-acquired pneumonia. *Pediatr Crit Care Med*. 2010 Nov;11(6):731-6.
9. Russell RA, Murkowski K, Scanlon MC. Discrepancies between medication orders and infusion pump programming in a paediatric intensive care unit. *Qual Saf Health Care*. 2010 Oct;19 Suppl 3:i31-5.
10. Russell RA, Ghanayem NS, Mitchell ME, Woods RK, Tweddell JS. Bilateral pulmonary artery banding as rescue intervention in high-risk neonates. *Ann Thorac Surg*. 2013 Sep;96(3):885-90.
11. Russell RA, Meyer MT, Scanlon MC, Rice TB. The state of telemedicine in Wisconsin. *WMJ*. 2013 Aug;112(4):152-3.
12. Russell RA, Rettiganti M, Brundage N, Jeffries HE, Gupta P. Performance of Pediatric Risk of Mortality Score Among Critically Ill Children With Heart Disease. *World J Pediatr Congenit Heart Surg*. 2017 07;8(4):427-434.
13. Gupta P, Rettiganti M, Shinkawa T, Gossett JM, Brundage N, Jeffries HE, Bertrandt RA. Reclassifying by highest complexity operation rather than first operation influences mortality after pediatric heart surgery. *J Thorac Cardiovasc Surg*. 2018 11;156(5):1961-1967.e9.
14. Bertrandt RA, Saudek DM, Scott JP, Madrzak M, Miranda MB, Ghanayem NS, Woods RK. Chest tube removal algorithm is associated with decreased chest tube duration in pediatric cardiac surgical patients. *J Thorac Cardiovasc Surg*. 2019 10;158(4):1209-1217.

15. Hoffman GM, Scott JP, Ghanayem NS, Stuth EA, Mitchell ME, Woods RK, Hraska V, Niebler RA, Bertrandt RA, Mussatto KA, Tweddell JS. Identification of Time-Dependent Risks of Hemodynamic States After Stage 1 Norwood Palliation. *Ann Thorac Surg.* 2020 01;109(1):155-162.