

CURRICULUM VITAE
Robin L. McKinney, MD

Rhode Island Hospital/Hasbro Children's Hospital
Department of Pediatrics
Division of Pediatric Critical Care Medicine
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EDUCATION

8/1998-5/2002	BS	Bates College Lewiston, ME
10/2000-6/2001		University of Edinburgh (Studying abroad) Edinburgh, Scotland
2002-2004		Columbia University (Continuing Education) New York, NY
8/2005-5/2009	MD	St. George's University School of Medicine Grenada, West Indies Graduated Magna Cum Laude
7/2006		Prague, Czech Republic (Surgery Elective)

POSTGRADUATE TRAINING

7/2009-6/2012		Internship and Residency in Pediatrics State University of New York at Downstate Brooklyn, NY
7/2012-6/2015		Fellowship in Pediatric Critical Care Children's Hospital of Michigan/Wayne State Detroit, MI

AWARDS AND HONORS

2018		Teaching award, Division of Pediatric Critical Care Medicine
2019		Teaching award, Division of Pediatric Critical Care Medicine
2020		Travel Award: 6 th annual Children's Hospital of Philadelphia Chronic Lung Disease Conference
2021		Teaching award, Division of Pediatric Critical Care Medicine
2022		Dean's Excellence in Teaching Award. Warren Alpert Medical School

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

2012-2015	State of Michigan Physician License
2015-present	State of Rhode Island Physician License
2012-present	American Board of Pediatrics, General Pediatrics
2016-present	American Board of Pediatrics, Critical Care Medicine
2023-present	Pediatric Advanced Life Support (PALS)

ACADEMIC APPOINTMENTS

2015-2022 Assistant Professor of Pediatrics Clinical Educator
Warren Alpert School of Medicine, Brown University, Providence, RI
2022-present Associate Professor of Pediatrics Clinical Educator
Warren Alpert School of Medicine, Brown University, Providence, RI

HOSPITAL APPOINTMENTS

2015 Attending Physician
Pediatric Critical Care
Rhode Island Hospital/Hasbro Children's Hospital, Providence, RI

PROFESSIONAL PUBLIC SERVICE

NATIONAL

2023-2026 Executive Board Member BPD Collaborative

JOURNAL REVIEWER

2017-present Reviewer *Trials*, online open access Journal
2020-present Reviewer: *BMC Pediatrics*
2020-present Reviewer: *BMJ Open Respiratory Research*
2021-present Reviewer: *Frontiers in Pediatrics*
2022-2023 Guest Editor *Frontiers in Pediatrics*, special edition on Bronchopulmonary Dysplasia
2022-present Reviewer for *Pediatric Pulmonology*
2023-present Reviewer for *Healthcare*

ABSTRACT REVIEWER

2019-present Abstract Reviewer for the Society of Critical Care Medicine
2019-present Abstract Reviewer for Pediatric Academic Society

HOSPITAL COMMITTEES

2010-2012 CIR (Committee of Interns and Resident) a National Union, Elected representative
2012-2015 Quality Assurance Committee, Division of Critical Care,
Children's Hospital of Michigan
2015-present Broncho-Pulmonary Dysplasia Interdisciplinary Team: Severe. Team member (Hasbro/Women and
Infants)
2015-2022 Co-Chair (Hasbro) Peripheral IV Infiltrates and Extravasation Quality and Safety.
2022-present Member (Hasbro) Peripheral IV Infiltrates and Extravasation Quality and Safety.
2019-2022 Member (Hasbro) Central Line Associated Blood Stream Infections Quality and Safety Committee.
2022-present Medical Director of the Ventilator Integration Program (VIP Clinic).

UNIVERSITY COMMITTEES

2015-present Scholarship Oversight Committee, Women and Infant's Neonatal Fellowship program for:
Justin Goldstein, Ashish Gupta, Danielle Koltz, Lisa Grady, Dolapo Avungbeto, Stephanie Brule

MEMBERSHIP IN SOCIETIES and PROFESSIONAL ORGANIZATIONS

2006 Iota Epsilon Alpha, St. George's Honor society
2013-present Society of Critical Care Medicine
2014-present American Academy of Pediatrics, Member of the Section on Critical Care
2016-2018 Society for Pediatric Research (SPR): Junior Section member

2015-present	Broncho-Pulmonary Dysplasia Collaborative. National Collaborative of hospitals dedicated to studying severe BPD. Team member
2017-present	BPD Collaborative: Chair - Ventilation Ad Hoc Group
2021-present	Planning Committee for The BPD Collaboratives annual meeting.
2023-present	Society for Pediatric Research (SPR). Elected member.

PUBLICATIONS LIST

PEER REVIEWED PUBLICATIONS

1. Ben-Gary, H., **McKinney, R. L.**, Rosengart, T., Lesser, M. L., & Crystal, R. G. (2002). Systemic interleukin-6 responses following administration of adenovirus gene transfer vectors to humans by different routes. *Mol Ther*, 6(2), 287-297. <https://doi.org/10.1006/mthe.2002.0658>
2. Abman, S. H., Collaco, J. M., Shepherd, E. G., Keszler, M., Cuevas-Guaman, M., Welty, S. E., Truog, W. E., McGrath-Morrow, S. A., Moore, P. E., Rhein, L. M., Kirpalani, H., Zhang, H., Gratny, L. L., Lynch, S. K., Curtiss, J., Stonestreet, B. S., **McKinney, R. L.**, Dysart, K. C., Gien, J., Baker, C. D., Donohue, P. K., Austin, E., Fike, C., Nelin, L. D., & Bronchopulmonary Dysplasia, C. (2017). Interdisciplinary Care of Children with Severe Bronchopulmonary Dysplasia. *J Pediatr*, 181, 12-28 e11. <https://doi.org/10.1016/j.jpeds.2016.10.082>
3. **McKinney, R. L.**, Shukla, K., Daigle, K., Zeigler, J., Muller, M., & Keszler, M. (2019). The BIT:S (Bronchopulmonary Dysplasia Interdisciplinary Team: Severe) Initiative at Women and Infants Hospital of Rhode Island. *R I Med J (2013)*, 102(3), 22-25.
4. **McKinney, R. L.**, Keszler, M., Truog, W. E., Norberg, M., Sindelar, R., Wallström, L., Schulman, B., Gien, J., & Abman, S. H. (2021). Multicenter Experience with Neurally Adjusted Ventilatory Assist in Infants with Severe Bronchopulmonary Dysplasia. *Am J Perinatol*, 38(S 01), e162-e166. <https://doi.org/10.1055/s-0040-1708559>
5. Raimondo, E., **McKinney, R.**, Mason, K., & Bartolini, L. (2021). Teaching Video Neuroimages: Ictal Unilateral Eye Blinking in Temporal Lobe Seizures: An Illustrative Video Case. *Neurology*, 96(7), e1094-e1095. <https://doi.org/10.1212/wnl.0000000000010844>
6. **McKinney, R. L.**, Schmidhofer, J. J., Balasco, A. L., Machan, J. T., Hirway, P., & Keszler, M. (2021). Severe bronchopulmonary dysplasia: outcomes before and after the implementation of an inpatient multidisciplinary team. *J Perinatol*, 41(3), 544-550. <https://doi.org/10.1038/s41372-020-00863-0>
7. Sindelar, R., **McKinney, R. L.**, Wallström, L., & Keszler, M. (2021). Proportional assist and neurally adjusted ventilation: Clinical knowledge and future trials in newborn infants. *Pediatr Pulmonol*, 56(7), 1841-1849. <https://doi.org/10.1002/ppul.25354>
8. Lewis, T., Truog, W., Nelin, L., Napolitano, N., & **McKinney, R. L.** (2021). Pharmacoeconomics of Drug Exposure in Intubated and Non-Intubated Preterm Infants With Severe Bronchopulmonary Dysplasia. *Front Pharmacol*, 12, 695270. <https://doi.org/10.3389/fphar.2021.695270>
9. **McKinney RL**, Napolitano N, Levin J, Kielt M, Abman S, Cuevas M, Rose RS, Courtney S, Matlock D, Agarwal A, Leeman KT, Sanlorenzo L, Sindelar R, Collaco JM, Baker CD, Hannan K, Douglass M, Eldredge LC, Lai K, McGrath Morrow S, Murillo A, Keszler M on behalf of the BPD Collaborative. Ventilatory strategies in infants with established severe BPD: A multicenter point prevalence study. *JPeds*. 2022. DOI: [10.1016/j.jpeds.2021.10.036](https://doi.org/10.1016/j.jpeds.2021.10.036)
10. **McKinney RL**, Agarwal A. Transition from intensive care unit to a portable ventilator in children with severe bronchopulmonary dysplasia. *Pediatr Pulmonol*. 2022 Dec 12. doi: 10.1002/ppul.26274.
11. Kielt MJ, Hatch LD, Levin JC, Napolitano N, Abman SH, Baker CD, Eldredge LC, JM Collaco, McGrath-Morrow S, Rose R, Lai K, Keszler M, Sindelar R, Nelin L, **McKinney RL**, on behalf of the BPD Collaborative. Classifying Multi-Center Ventilation Strategies for Children with Bronchopulmonary Dysplasia using Hierarchical Clustering Analysis. *Pediatr Pulmonol*. 2023 Jun 2. doi: 10.1002/ppul.26488. Epub ahead of print. PMID: 37265416.

PUBLICATIONS OTHER THAN PEER REVIEWED

1. **McKinney, R. L.**, & Keszler, M. Letter to the editor: The tidal volume reported is not necessarily what it appears to be. *Early Human Development*, Vol. 163, 2021. <https://doi.org/10.1016/j.earlhumdev.2021.105463>

2. Sindelar, R., **McKinney, R. L.**, Wallström, L., & Keszler, M. Diaphragm electrical activity target during NAVA: one size may not fit all. *Pediatr Pulmonol.* Vol 57:5 pg 1361-1362 2022.

CORPORATE AUTHORSHIP OR MULTICENTER TRIALS

1. Kudchadkar SR, Nelliott A, Awojoodu R, et al. Physical Rehabilitation in Critically Ill Children: A Multicenter Point Prevalence Study in the United States. *Crit Care Med.* 2020;48(5):634-644.

BOOKS AND BOOK CHAPTERS

1. **McKinney, RL.** Book Chapter: Congestive Heart Failure. *Pediatric Acute Care Provider: Case Studies and Certification Review.* Burlington, MA: Jones & Bartlett Learning. 2015.
2. Keszler M and **McKinney RL.** Book Chapter Ventilation Strategies in Bronchopulmonary Dysplasia: Where we are and where we should be going? *Updates on Neonatal Chronic Lung Disease.* Pg. 257-267. Elsevier 2020.
3. Powers K, Banerjee D, **McKinney, RL.** Book Chapter: Transitions in Care from Pediatric to Adult Providers for individuals with Pulmonary Disease. *Cecil Essentials of Medicine, 10th Edition.* Elsevier. May 2021.

PUBLICATIONS SUBMITTED OR IN PREPARATION

1. Levin JC, Kielth MJ, Hayden LP, Leeman KT, Baker CD, Eldredge LC, **McKinney RL**, Miller AN, Murthy K, Truog WD, Cuevas-Guaman M, Abman SH, Nelin LD. Postnatal growth failure among newborns with severe bronchopulmonary dysplasia. Submitted 2023
2. **McKinney RL**, Courtney S, Wallström L, Sindelar R. Review of Neurally Adjusted Ventilation (NAVA) and Proportional assist Ventilation in preterm infants and children with BPD. Invited Review. Submitted 2023.

ABSTRACTS

1. Polikoff L, Snelling LK, Sediva I, Scheffler M, **McKinney RL**, Anderson A, Phornphutkul C, Day S. Focused genetic testing for rare genetic diseases causing pediatric status epilepticus. Research Snapshot (oral presentation) #1811. 2017 Society of Critical Care Medicine 46th Critical Care Congress Honolulu, Hawaii.
2. **McKinney RL**, Keszler M, Truog W, Norberg M, Sindelar R, Wallström L, Schulman B, Gien J, Abman SH on behalf of the Bronchopulmonary Dysplasia Collaborative. Multicenter experience with neurally adjusted ventilatory assist (NAVA) in infants with evolving or established bronchopulmonary dysplasia. Research Snapshot (oral presentation session 1413 Board 119). 2018 Pediatric Academic Society, Toronto, Ontario.
3. **McKinney RL**, Schmidhofer JJ, Balasco AL, Keszler M. Severe Bronchopulmonary Dysplasia Outcomes After the Creation of an Inpatient Multidisciplinary Team. Research Snapshot (oral presentation) # 1159. 2018 Society of Critical Care Medicine 47th Critical Care Congress San Antonio, Texas.
4. **McKinney RL**, Napolitano N, D Matlock, K Lai, J Levin, K Leeman, C D Baker, KE Hannan, S Courtney, A Agarwal, M Kiehl, E Shepherd, M Cuevas Guaman, W Truog, S McGrath-Morrow, JM Collaco, L Sanlorenzo, R Sindelar, I Cristea, R Rose, LC Eldredge, L Nelin, M Keszler, BPD Collaborative. Point Prevalence of Ventilatory Support in Children with Severe Bronchopulmonary Dysplasia. Poster presentation Board 513) 2020 Pediatric Academic Society, Philadelphia, PA..
5. Lewis T, Truog W, Napolitano N, Nelin L, **McKinney RL**, BPD Collaborative. Pharmacoeconomics of Drug Exposure in Intubated and Non-Intubated Preterm Infants with Severe Bronchopulmonary Dysplasia. 2020. Pediatric Academic Society, Philadelphia, PA
6. Cathcart A, Harney S, **McKinney RL.** Hiding Behind a Cough: Guillain-Barré Syndrome Masquerading as Community-Acquired Pneumonia. October 2020. AAP National Conference- Virtual.
7. Levin JC, Leeman KT, Kiehl MJ, Grady L, Jensen EA, Cuevas-Guaman M, Nelin LD, Keszler M, **McKinney RL.** Prediction of tracheostomy using ventilatory parameters at 36 and 44 weeks in infants with severe bronchopulmonary dysplasia. Pediatric Academic Society. EPoster 201-1782. May 2021.
8. Jonathan C. Levin, Xuenan Wang, Kristen T. Leeman, Matthew Kiehl, Lisa Grady, Leif D. Nelin, Christopher H. Schmid, **Robin L. McKinney.** Predicting tracheostomy using ventilator support at 36 and 44 weeks in infants with severe bronchopulmonary dysplasia. Pediatric Academic Society. Denver, Colorado. Poster 453. April 2022.
9. Matthew Kiehl, Leon D. Hatch, Jonathan C. Levin, Natalie Napolitano, Christopher D. Baker, Laurie C. Eldredge, Sharon McGrath-Morrow, Joseph M. Collaco, Steven Abman, Khanh Lai, Rebecca S. Rose, Martin Keszler, Richard Sindelar, Leif D. **Robin L. McKinney.** Classifying Multi-center Ventilation Strategies for Severe Bronchopulmonary Dysplasia by Hierarchical Clustering Analysis. Pediatric Academic Society. Denver, Colorado. Poster 444. April 2022.

10. Nienaber T, Matlock D, Napolitano N, **McKinney RL**. Site variation in respiratory devices used for patients with bronchopulmonary dysplasia. Children's Hospitals Neonatal Consortium Annual Symposium. Denver, Colorado. October 2023.

INVITED PRESENTATIONS

NATIONAL

1. **McKinney RL**, Bezih R, Ahmed T, Walters HL, Heidemann S. Bacteria Are Present in Respiratory Secretions Without Clinical Diagnosis Of Infection In Infants After Cardiopulmonary Bypass For Correction Of Congenital Heart Lesions. Poster presented at the Michigan State 13th Annual Pediatric Research Day, March 2014, East Lansing, MI.
2. **McKinney RL**, Sears K. Hasbro Children's Hospital: SPS PIVIE Pioneer Cohort. Solutions for Patient Safety PIVIE pioneer cohort conference call. Presentation to 60+ children's hospitals via a monthly conference call. 4/18/2018
3. **McKinney, RL**. NAVA use in severe Broncho-Pulmonary Dysplasia: from clinical opinion to clinical trial. CHOP Chronic Lung Disease Conference. March 13, 2019. Philadelphia, PA.
4. **McKinney, RL**. Ventilator practices in severe Broncho-Pulmonary Dysplasia: year in review and proposals for future studies. BPD Collaborative annual meeting. March 14, 2019. Philadelphia, PA
5. **McKinney, RL**. NAVA use in severe bronchopulmonary dysplasia [podcast]. Pulmonology Consultant. April 10, 2019. <https://www.consultant360.com/podcast/pulmonology/critical-care/robin-mckinney-md-nava-use-severe-bronchopulmonary-dysplasia>.
6. **McKinney RL**, Napolitano N, D Matlock, K Lai, J Levin, K Leeman, C D Baker, KE Hannan, S Courtney, A Agarwal, M Kielt, E Shepherd, M Cuevas Guaman, W Truog, S McGrath-Morrow, JM Collaco, L Sanlorenzo, R Sindelar, I Cristea, R Rose, LC Eldredge, L Nelin, M Keszler, BPD Collaborative. Point Prevalence of Ventilatory Support in Children with Severe Bronchopulmonary Dysplasia. Platform Presentation. March 11, 2020. CHOP Chronic Lung Disease Conference, Philadelphia, PA
7. **McKinney, RL**. Emerging ventilation strategies for severe BPD: NAVA and beyond. BPD Collaborative Annual Meeting. March 12, 2020. Philadelphia, PA.
8. **McKinney, RL**. Ventilator Subgroup year in review presentation. BPD Collaborative annual meeting. March 13, 2020. Philadelphia, PA
9. Lewis T, Truog W, Napolitano N, Nelin L, **McKinney RL**, BPD Collaborative. Pharmacoeconomics of Drug Exposure in Intubated and Non-Intubated Preterm Infants with Severe Bronchopulmonary Dysplasia. Invited Platform Presentation. May 2020. Pediatric Academic Society, Philadelphia, PA
10. **McKinney RL**. Ventilatory strategies in infants with established severe BPD: a multicenter point prevalence study. 7th annual Children's Hospital of Philadelphia Chronic Lung Disease Conference: Virtual. March 10, 2021.
11. **McKinney, RL**. Ventilator Subgroup year in review presentation. BPD Collaborative annual meeting. March 17, 2021. Virtual Conference.
12. **McKinney, RL**. Ventilation Strategies in Severe Bronchopulmonary Dysplasia. Grand Rounds, Nationwide Children's Hospital, Columbus Ohio. 11/17/21
13. **McKinney, RL**. Ventilation Strategies in Severe Bronchopulmonary Dysplasia. Neonatal Outcomes Research Alliance. Denver, CO. April 2022.
14. **McKinney, RL**. Ventilator Subgroup year in review presentation. BPD Collaborative annual meeting. March 8, 2023. Annual Conference, Philadelphia.

REGIONAL

1. **McKinney, RL** Therapeutic Hypothermia. Pediatric Critical Care and Emergency Medicine Joint Conference January 2017
2. **McKinney, RL**, Sears, K. Peripheral IV Infiltrates and Extravasations at Hasbro Children's Hospital. Solutions for Patient Safety Regional Conference. April 2017. Hanover, NH.

3. **McKinney, RL.** Severe BPD: Outcomes before and after the implementation of an inpatient multidisciplinary team. Pediatric Research Colloquium, Women and Infants Hospital October 2017. Providence, RI.
4. **McKinney, RL** Severe bronchopulmonary dysplasia outcomes before and after the implementation of a multidisciplinary care team. Perinatal Management Conference. Women and Infants Hospital, February 2017. Providence, RI.
5. **McKinney RL,** Keszler M, Daigle K. BITs and Pieces – The puzzle comes together: BPD Interdisciplinary Team Approach to Management of Infants with Severe Bronchopulmonary Dysplasia. Brown Pediatric Grand Rounds December 15, 2017. Providence, RI.
6. **McKinney, RL** NAVA use and severe Broncho-Pulmonary Dysplasia. Research Seminar; Brown Department of Pulmonary, Critical Care, & Sleep Medicine. March 18, 2019. Providence, RI.
7. **McKinney, RL.** NAVA use in severe Broncho-Pulmonary Dysplasia: from clinical opinion to clinical trial. Pediatric Research Day, Warren Alpert Medical School of Brown University. October 1, 2019
8. **McKinney, RL.** Neurally Adjusted Ventilatory Assist (NAVA): How it works and applications. Rhode Island Hospital, Respiratory Care Department. October 24th, 2019.
9. Barber-Doucet H, **McKinney RL,** Brucker W. Metabolic Emergencies. PEM-PICU joint Conference. 1/25/22.
10. **McKinney RL,** Ruest S, Jacobs E. PEM-PICU Transport conference, 2023.
11. **McKinney RL.** Introduction to the BIT:s Team. NICU Fellows conference. Women and Infants. 10/12/23.

TEACHING

1. **McKinney, RL** Pediatric Traumatic Brain Injury. Department of Pediatrics, Resident Conference August 2016
2. **McKinney, RL** Critical Care Emergencies. Department of Pediatrics, Resident Conference September 2018.
3. **McKinney, RL** Critical Care Emergencies. Department of Pediatrics, Resident Conference November 2019.
4. **McKinney, RL,** Plasski J. Care of the Child with Critical Respiratory Dysfunction. Pediatric ICU Nursing Orientation, Lifespan. October 3, 2019
5. **McKinney, RL.** Intro to Congenital Heart Disease 1. Pediatric ICU Nursing Orientation, Lifespan. October 3, 2019
6. **McKinney RL,** PICU core
7. **McKinney RL,** Schmid C. Guest lecturer. PHP 2550 Practical Data Analysis. Brown University school of epidemiology. October 16, 2023

GRANTS

1. The Ashok and Ingrid Sarnaik Endowment for residents and fellows research at Children's Hospital of Michigan. In support of the project:
Biomarkers in exhaled breath condensate as predictors of ventilator acquired pneumonia.
Funding: Ashok and Ingrid Sarnaik Endowment **Award Amount:** \$2500
Year: 2013-2015
Role: Principal Investigator. **Mentor:** Sabrina Heidemann
2. The Ashok and Ingrid Sarnaik endowment for residents and fellows research at Children's Hospital of Michigan. In support of the project:
NT-Pro BNP as a predictive marker of the clinical course of RSV+ Bronchiolitis.
Funding: Ashok and Ingrid Sarnaik Endowment **Award Amount:** \$2500
Year: 2014-2015
Role: Principal Investigator. **Mentor:** Patrick Hines
3. William and Mary Oh-William and Elsa Zopfi Professorship. In support of the project:
BPD: Short and long term outcomes
Funding: William and Mary Oh-William and Elsa Zopfi Professorship **Award Amount:** \$14258
Year: 2016-2017
Role: Principal Investigator **Mentor:** Martin Keszler
4. Children's Miracle Network Scholars Award.

NAVA use in children with established severe BPD: a pilot crossover trial

Award Amount: \$25,000

Year: 2019-present

Role: Principle Investigator

Mentor: Martin Keszler

UNIVERSITY TEACHING, ADVISING and MENTORING ROLES

2016-2018 OSCE instructor at Brown Warren Alpert Medical School
2016 Biostatistics and epidemiologic small group preceptor at Brown Warren Alpert Medical School.
2016-2019 Resident Advisor: Jennifer Mann.
2016-2018 Resident Advisor: Joseph Schmidhofer
2020-2023 Mentor: Cristina Alcorta
2021-2022 Thesis Reader: Xuenan Jasmine Wang, ScM in Biostatistics in the Brown University School of Public Health
2022-2025 Mentor: Stephanie Brule, Neonatology Fellow
2022-present Mentor: Mehtap Haktanir Abul, Assistant Professor of Pediatrics (Pulmonology)
2022-present Mentor: Jonathan Nyce Assistant Professor of Pediatrics (Cardiology)
2022-present Mentor: Steven Maksymowych (resident)

HOSPITAL TEACHING ROLES

2013 Preceptor ICU procedures: Pediatric Advance Practice Nursing Students, Wayne State University School of Nursing/Children's Hospital of Michigan, Detroit, MI
2013 Mock code instructor: Pediatric Advance Practice Nursing Students, Wayne State University School of Nursing Simulation Lab.
2016 Advanced airway clinical instructor for Lifepact and transport personnel; RIH simulation center.

VOLUNTEER WORK

2015 Medical Mission to the Dominican Republic with Variety Children's Charity to provide post-operative care to children undergoing surgery for correction of congenital heart disease.