

CURRICULUM VITAE

Avery Zierk, MD.

Women and Infants Hospital
 Division of Neonatology
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EDUCATION

Undergraduate	College of Charleston (Chemistry major, Spanish minor), Bachelor of Science, 2011
Medical School	University of South Carolina, 2018, <i>magna cum laude</i>
Other Advanced Degrees	Master in Health Quality and Safety, University of Pennsylvania Center for Healthcare Improvement and Patient Safety, Anticipated 2026

POSTGRADUATE TRAINING

Residency	Johns Hopkins Hospital, Baltimore, MD , Pediatric Internship and Residency, 2018 – 2021
Fellowship	The Children’s Hospital of Philadelphia, Philadelphia, PA, Neonatal-Perinatal Medicine Fellowship, 2021 – Present

POSTGRADUATE HONORS AND AWARDS

Scholar Award in Quality Improvement, American Academy of Pediatrics and Vermont Oxford Network, 2023

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Pennsylvania Medical Training License, 2021 – 2024 Rhode Island Allopathic Medical License, 2024 – 2026
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ACADEMIC APPOINTMENTS

Assistant Professor of Pediatrics	Warren Alpert Medical School of Brown University, 2024-Present
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HOSPITAL APPOINTMENTS

Staff Physician	Women and Infants Hospital, 2024-Present
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OTHER APPOINTMENTS

	(List positions held, institutions and dates, include editorial board positions, study section membership, etc.)
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HOSPITAL COMMITTEES

Quality Safety Council, RN Clinical Practice Council, Safety and Medication Task Force, BPD Multidisciplinary Team
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UNIVERSITY COMMITTEES

MEMBERSHIP IN SOCIETIES

Alpha Omega Alpha Honor Medical Society, American Academy of Pediatrics, BPD Collaborative
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PUBLICATIONS LIST

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

Zierk A, Gumbel MJ, Mackenzie R, Matthews K, Simmons F, Bustin A, DeFelice C, Morris H, Soorikian L, Swartz K, Nickel A. A quality improvement initiative to reduce excess inhaled therapy use in the neonatal intensive care unit. *Journal of Perinatology*. 2024;1-6. Doi: 10.1038/s41372-024-02132-w

Troch R, Lazzara A, Yazigi F, Blatt C, **Zierk A**, Chalk B, Boss R. Slow and Steady: Optimizing Intensive Care Unit Treatment Weans for Children with Chronic Critical Illness. *Journal of Pediatric Intensive Care*. 2023. doi: 0.1055/s-0043-1763256.

Heise T, Kota V, Brock A, Morris A, Rodriguez R, **Zierk A**, Sommer G. The La protein counteracts cisplatin-induced cell death by stimulating protein synthesis of anti-apoptotic factor Bcl2. *Oncotarget*. 2016;7(20):29664-29676. doi:10.18632/oncotarget.8819

Sommer G, **Zierk A**, Fedarovich A, Brock A, Fedarovich D, Heise T. The RNA chaperon activity of the human La protein (LARP3). *RNA & DISEASE*. 2015;3(1). doi: 10.14800/rd.872

Kuehnert J, Sommer G, **Zierk A**, Fedarovich A, Brock A, Fedarovich D, Heise T. Novel RNA chaperone domain of RNA-binding protein La is regulated by AKT phosphorylation. *2015. Nucleic Acids Research*. 2015;43(1):581-594. doi:10.1093/nar/gku130

OTHER PEER-REVIEWED PUBLICATIONS

BOOKS AND BOOK CHAPTERS

OTHER NON-PEER REVIEWED PUBLICATIONS

CORPORATE AUTHORSHIP OR MULTICENTER TRIALS

PUBLICATIONS SUBMITTED OR IN PREPARATION

Association Between the Respiratory Severity Score and Extubation Success in Severe Bronchopulmonary Dysplasia, Journal of Perinatology, submitted 3/3/2025

ABSTRACTS

Zierk A, Gibbs K, Nelin T, Huber M, Lorch S, Bamat N. The Respiratory Severity Score is Associated with Extubation Success in Severe Bronchopulmonary Dysplasia (BPD). 2024 Pediatric Academic Societies Conference. Toronto, Canada.

Zierk A, Gumbel MJ, Mackenzie R, Matthews K, Simmons F, Bustin A, DeFelice C, Morris H, Soorikian L, Gibbs K. Reducing Excess Inhaled Hypertonic Saline Therapy in the NICU. 2023 CHNC Annual Symposium. Denver, CO

Zierk A, Chavez-Valdez R, Vaidya D, Graham E, Everett A, Parkinson C, Aziz K, Northington F. Clinical Neonatal ICU Length of Stay Predictors for Very Low Birth Weight (VLBL) Infants. 2020 Pediatric Academic Societies Meeting. Philadelphia, PA.

Zierk A, Beroukhi R. Do Pediatric Specialists Recognize Low Parent Health Literacy? *Poster presentation*. 2017 Discover USC Day. Columbia, SC.

Zierk A, Forconi M. Functional Characterization of SdsA1, an alkylsulfatase from Pseudomonas aeruginosa. *Poster presentation*. 2012 INBRE Scientific Symposium. Columbia, SC.

Zierk A, Forconi M. Functional Characterization of SdsA1, an alkylsulfatase from Pseudomonas aeruginosa. *Poster presentation*. 2011 College of Charleston School of Science and Mathematics Poster Day. Charleston, SC.

SCHOLARLY WORK PUBLISHED IN OTHER MEDIA

PEER-REVIEWED

INVITED PRESENTATIONS

Zierk A, Gumbel MJ, Mackenzie R, Matthews K, Simmons F, Bustin A, DeFelice C, Morris H, Soorikian L, Gibbs K. A Quality Improvement Initiative to Reduce Excess Inhaled Therapy Use in the NICU. 2024 Pediatric Academic Societies Conference. Toronto, Canada

Zierk A, Gibbs K, Nelin T, Huber M, Lorch S, Bamat N. The Respiratory Severity Score is Associated with Extubation Success in Severe Bronchopulmonary Dysplasia (BPD). 2024 Eastern Society for Pediatric Research Conference. Philadelphia, PA

Zierk A, Gumbel MJ, Mackenzie R, Matthews K, Simmons F, Bustin A, DeFelice C, Morris H, Soorikian L, Gibbs K. A Quality Improvement Initiative to Reduce Excess Inhaled Therapy Use in the NICU. 2023 Vermont Oxford Network Grand Rounds Webinar.

Zierk A, Gumbel MJ, Mackenzie R, Matthews K, Simmons F, Bustin A, DeFelice C, Morris H, Soorikian L, Gibbs K. Reducing Excess Inhaled Hypertonic Saline Therapy in the NICU. 2023 AAP 102nd Perinatal & Developmental Medicine Symposium. Baltimore, MD.

Zierk A, Chavez-Valdez R, Vaidya D, Graham E, Everett A, Parkinson C, Aziz K, Northington F. Predictors of Length of Stay for Very Low Birth Weight Infants in the Neonatal ICU. 2020 Johns Hopkins Pediatric Grand Rounds, Introduction Presentation. Baltimore, MD.

GRANTS

UNIVERSITY TEACHING, ADVISING and MENTORING ROLES

HOSPITAL TEACHING, ADVISING and MENTORING ROLES

Neonatal Fellowship Quality Improvement and Patient Safety Curriculum – Developed and lead monthly lectures for fellows as well as development and implementation of fellowship class quality improvement projects in the NICU.

Newborn Medicine Curriculum, Respiratory Physiology - Lead lecture series for Pediatric Residents during their NICU rotation

DEMONSTRATION OF COMMITMENT TO DEI

Teaching strategies and importance of integrating equity into quality improvement initiatives to fellows as part of QI and safety curriculum.

