CURRICULUM VITAE

Robin Virginia Horak Klein

Personal Information:

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| **Current Position:**  Attending Physician in Cardiac Critical Care, Visiting Associate Professor  **Work** | Department of Pediatrics, Division of Cardiology, Colorado Children’s Hospital, University of Colorado. |
| 13123 East 16th Avenue  Box 200  Aurora, CO 80045 |  |
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Education and Appointments

Education:

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| 2004  2009 | Bachelor of Arts, Honors Biology, Whitman College, Walla Walla  Doctor of Medicine, MD, Jefferson Medical College, Philadelphia |
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Post-Graduate Training:

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| 2009-2012 | Residency, Pediatrics, Daniel West, MD, Pediatrics, University of California San Francisco,  San Francisco |
| 2014-2017 | Fellowship, Pediatric Critical Care, Meredith Van der Veldon, MD, Anesthesiology,  Perioperative and Pain Medicine, Boston Children’s Hospital, Boston |
| 2017-2018 | Fellowship, Pediatric Cardiac Critical Care, Rambod Amirnovin, MD, Critical Care and  Anesthesiology, Children’s Hospital Los Angeles, Los Angeles |
| 2021-2021 | Advanced Training Program in Quality Improvement, Intermountain Health, Salt Lake City, UT |

Academic Appointments:

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| 2018-2023 | Assistant Professor of Clinical Pediatrics | Department of Pediatrics, University of Southern California, Los Angeles |
| 2023-Present | Visiting Associate Professor of Pediatrics | Depatment of Pediatrics, University of Colorado, Aurora |

Clinical Appointments:

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| 2012-2014  2017-2023  2018-2023  2023-Present | Medical Director, Klinik Timoun  Nou Yo  Staff Physician, Emergency Medicine and Critical Care Transport Team  Attending Physician Cardiac Critical Care  Attending Physician Cardiac Critical Care | No Time For Poverty, Port Salut. Haiti  Department of Pediatrics, Division of Emergency and Transport Medicine, Children’s Hospital Los Angeles, Los Angeles  Department of Anesthesia Critical Care Medicine, Divisionof Critical Care, Children’s Hospital Los Angeles, Los Angeles  Depatment of Pediatric, Division of Cardiology, Children’s Hospital of Colorado, Aurora |
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Honors, Awards:

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| 2008  2009  2011  2016  2019  2021 | Alpha Omega Alpha Honor Society  The Norman F. Sokoloff, MD Award for Excellence in Clinical Diagnosis  Winning Poster for Medical Center Quality Week Poster for Medical Center Quality  Medical Surgical Intensive Care Unit Employee of the Month  Runner-up, Fellow Teaching Award  Nominee for Morris and Mary Press Humanism Award | Jefferson Medical College, Philadelphia  Jefferson Medical College, Philadelphia  University of California San Francisco Medical Center, San Francisco  Boston Children’s Hospital, Boston  Children’s Hospital Los Angeles, Los Angeles  Children’s Hospital Los Angeles, Los Amgeles |

Professional Society Memberships:

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| 2009-Present  2014-2020 | American Academy of Pediatrics (AAP), section on Global Health  Pediatric Acute Lung Injury and Sepsis Investigators |
| 2016-Present | Society of Critical Care Medicine |
| 2017-Present | Pediatric Cardiac Intensive Care Society |

Service

Department Service:

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| 2015-2017  2018-2019  2019-2021  2019-2023  2020-2022  2021-2023  2019-2022  2022-2023  2024-Present  2024-Present | Member, Medical Surgical Intensive Care Unit (MSICU) Quality Improvement Committee  Member, Cardiothoracic Intensive Care Unit (CTICU) Performace Improvement  Facilatator, Year 2 Leadership Curriculum  Chair, Cardiothoracic Intensive Care Unit (CTICU) Performace Improvement  Member, Year 3 Leadership Curriculum  Director Year 2 Leadership Curriculum  Member, Anesthesia Critial Care Process and Quality Improvement Committee Director, Year 3 Leadership Curriculum  Member, Fetal Medical Direct Search Committee  CPCU Discharge Optimization Committee | MSICU/Boston Children’s Hosptial  CTICU/Children’s Hospital Los Angeles  ACCM/Children’s Hospital Los Angeles  CTICU/Children’s Hospital Los Angeles  ACCM/Children’s Hospital Los Angeles  ACCM/Children’s Hospital Los Angeles  ACCM/Children’s Hospital Los Angeles  ACCM/Children’s Hospital Los Angeles  Division of Cardiology, Childrens of Colorado  Divison of Cardiology, Childrens of Colorado |
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Hospital or Medical Group Service:

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| 2009-2012  2011-2012  2014-2017  2019-2023  2020-2021 | Member, Resident and Fellow’s Council  Co-Chair, Resident and Fellows Council  Member, Hospital-Wide Resident and Fellow Quality Improvement Committee  Member, Committee of Expidited Event Review  Co-Chair, Human Rights Emplyee Interest Group | GME/University California San Francisco Medical Center  GME/University California San Francisco Medical Center  GME/Boston Children’s Hospital  Children’s Hospital Los Angeles  Children’s Hosptial Los Angeles |
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University Service:

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| 2024-Present | Member, Faculty Council, Personnel and Benefits Committee | University of Colorado |
| 2009-2012  2011-2012  2014-2017  2019-2023  2020-2021 | Member, Resident and Fellow’s Council  Co-Chair, Resident and Fellows Council  Member, Hospital-Wide Resident and Fellow Quality Improvement Committee  Member, Committee of Expidited Event Review  Co-Chair, Human Rights Emplyee Interest Group | GME/University California San Francisco Medical Center  GME/University California San Francisco Medical Center  GME/Boston Children’s Hospital  Children’s Hospital Los Angeles  Children’s Hosptial Los Angeles |

PROFESSIONAL SERVICE:

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| 2021-Present  2022-2023  2022-2022  2022-Present  2022-Present | Member, Education committee created didatic modules used now in 12 resouce limited settings. Teahcing modules 3-4 per six months.  Member, Cardiac Criticl Care Track  Member, Post-Operative Cardiac Care Track  Member: Connections Committee, Social media sub-committee  CICU Steering Committee for Pediatric Ventilator Liberation Collaboration | Pediatric Critical Care in Resource Limited Settings Consortium  World Congreess of Pediatric Cardiology and Cardiac Surgery 2023  World Federation Pediatric Critical Care Symposium  Pediatric Cardiac Intensive Care Society Pediatric Ventilator Liberation Quality Improvement Collaboration |

Community Service:

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| 2005-2009  2011-2012  2019-Present  2019-2023  2019-2022  2020-Present | Clinical Director, Student Coordinator, Volunteeer  Medical Advisor  Medical Advisor  Participant/Mentor in Camp CHLA  Medical Advisor  Staff Physician and Medical Advisor | Jeff Hope/Jefferson Medical College, Philadelphia, PA  Global Health Project, La Romana, DR  St. Damien’s, Port-au-Prince, Haiti  Children’s Hospital Los Angeles, CA  Medical Benevolence Foundation, Leogane, Haiti  Heart Trust, Various International Sites | Through various positions provided primary health care to underserved patients through student-run community outreach program.  Implemented the nenonatal resusciation curriculum (HBB) for community health care workers in the sugar cane camps  Quality improvement of pediatric critical care and development of an international rotation.  Provide emersive experience to high school students about working as a phsycian in the ICU  Development of neonatal and pediatric acute care.  Assiting with the development of pediatric cardiac critical care in two hospitals with Heart Trust. Provided direct patient car,education and didatic lecture series. |

Licensure, Certifications

Licensure:

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| 2017 | Medical License, California, active |
| 2021  2023 | FH6034754 DEA, active, expires, 10/2024  Colorado Medical License, active, expires 4/2025 |

Board Certification or Eligibility:

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| 2012 | American Board of Pediatrics, US, Active |
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Specialty Certification:

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| 2018 | American Board of Pediatric Critical Care, US, Active |
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Other Certifications or Examinations:

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| 2018  2018  2019 | Pediatric Advanced Life Support (PALS), active, expires 12/2024  Advanced Cardiovascular Life Support (ACLS), active, expires 01/2026  PCICS Ultrasound Course |

Editorships and Editorial Boards:

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| *2021-Present* | *Associate Editor* | *Journal of Pediatric Cardiology* |

Manuscript Review:

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| *2020-Present* | *Reviewer Pediatric Critical Care Medicine* |
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Abstract Reviews:

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| *2019-Present* | *Reviewer PCICS Annual Meeting* |

Invited Lectures, Symposia, Keynote Address:

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| 2022  2022  2021  2021  2021  2020  2017 | PodCast  Presentation  Presentation  Presentation  Presentation  Presentation  Presentation | Current Landscape of Pediatric CICU Workforce. PCICS, on-line  Respiratory Therapy Implications of Patients with Congenital Heart Disease, SCR Winter Virtual Symposium, on-line  Nutrition Best Practicies for Patients with Congenital Heart Disease, CHLA Cardiothoracic Surgery Monthly Meeting, Los Angeles, CA  Post-operative consideration in tetralogy of Fallot, CHLA Nursing Heart Institute symposium, on-line  Embryology, Cardiac Critical Care for University of Nigeria Teach Hospital, on-line  Critical Care Pharmacology, Mayo Cardiology Review Conference, on-line  Survey of PICUs in the United States 2001-2016 PALISI Spring Conference, Park City, UT |
| 2015 | Presentaton | Works in Progress, Survey of PICUs in the United States 2001-2016, Boston, MA |
| 2014 | Presentation | Proposal Survey of PICUs in the United States 1995-2015 PALISI Fall Conference, Montreal, Canada |

Teaching

Didactic Teaching:

Medical Students, Undergraduate and High School Students

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| 2020-2020 | Racial Inequities in Medicine, CHLA | 1 hr | Lecturer |

Fellows

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| 2016-2017  2017-2018  2017-2019  2018-2022 | Mortality and Morbidity Presentation for the Medical and Surgical Intensive Care Unit, BCH  Cardiac Critical Care Lecture Series, CHLA  Critical Care Fellow Core  Curriculum Series: Toxicology, CHLA  Critical Care Fellow Core  Curriculum Series: Metabolism, CHLA | 4 hrs  10 hrs  1 hr  1 hr | Presenter/Organizer  Co-Leader  Lecturer  Lecturer |
| 2018-2020  2018-2023  2021-2021  2021-2023  2021-2023  2021-2023  2022-2023  2022-2023  2023-Present | Patient management on ECMO for ECMO Boot Camp, CHLA  Morning didatic and ward rounds teaching, CHLA  Critical Care Fellow Core Curriculum Series: End of Life Care, CHLA  Critical Care Fellow Core Curriculum Series: Nutrition in the ICU, CHLA  VA versus VV ECMO for ECMO Boot Camp, CHLA  Year 2 and 3 Leadership course for ACCM  Critical Care Fellow Core Curriculum Series: Cardiac Mechanical Support, CHLA  Pulmonary Fellow Core Curriculum Series, CHLA  Ward rounds teaching, CHoC | 1 hr  30 hrs  1 hr  1 hr  1 hr  75 hrs  1 hr  2 hrs  25 hrs | Lecturer  Lecturer  Lecturer  Lecturer  Lecturer  Director, Lecturer  Lecturer  Lecturer  Lecturer |

Residents (Physician and Nursing):

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| 2014-2017  2015-2017  2018-2023  2021-2022  2024-Present | Pediatric Arrythmias, BCH  Hands on skill sessions, BCH  Cardiac Critical Care Nurses Pull Back/RN Residency Lecture Series NEC, CHLA  Pediatric Residency Core Curriculum Series: Hypertensive Emergencies, CHLA  All Things Cardiac: Vasoactives | 2 hrs  5 hrs  2 hrs  1 hr  1 hr | Lecturer  Lecturer  Lecturer  Lecturer  Lecturer |

Undergraduate, Graduate and Medical Student (or other) Mentorship:

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| *Year-Year* | *Trainee Name* | *Trainee Type* | *Project Title* |

2021-2021 Byrlim Chung Undergraduate Student Malnutrition

2021-2021 Soojin Chong Undergraduate Student Malnutrition

2021-2021 Keyla Suarez Lopez Undergraduate Student Malnutrition

2022-2022 Simon Park Undergraduate Student Malnutrition

2022-2022 Hayan Khan Undergraduate Student Malnutrition

2023-2023 Tiffany Tam Undergraduate Student Malnutrition

Postgraduate Mentorship:

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| *Year*  2018-2019  2019-2020  2021-2021  2022-Present  2022-Present  2022-2023  2022-2023 | *Name*  Ashley Scheffer  Aline Branca  Elyse Gutierrez  Rachel Rosenthal  Adriana Chou  Alexander Parisky  Jennifr Diep | *Current Position*  Assistant Professor, Nebraska Children’s Hospital  Assistant Professor, Phoenix Children’s  General Pediatrician, Los Angeles  Fellow at Children’s Hospital Los Angeles  Fellow at Children’s Hospital Los Angeles  Assistant Professor, Children’s Mercy Kansas City  Assistant Professor, Children’s Hospital of Philadelphia |

Faculty Mentorship:

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| *Year*  2019-Present  2023-Present | *Name*  Ashley Scheffer  Katie Clothier | *Current Position*  Assistant Professor, Nebraska Children’s Hospital  Assistant Professor, Children’s Hospital of Los Angeles |

Consultantship and advisory boards:

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| 2020-2020 | Consultant | Cello Health BioConsulting |

Research and Scholarship

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major Areas of Research Interest

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| *Research Areas* |
| 1. Process improvement of pediatric cardiac critical care focusing on improving malnutrition 2. Pediatric cardiac intensive care global implementation |
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Publications:

Refereed Journal Articles:

1. **Horak RV**, Marino BS, Werho DK, et al. Assessment of physician training and prediction of workforce needs in paediatric cardiac intensive care in the United States. *Cardiol Young*. 2022;32(11):1748-1753.
2. **Horak RV**, Bai S, Marino BS, Werho DK, Rhodes LA, Costello JM, Cabrera AG, Cooper DS, Tan Y, Tabbutt S, Krawczeski CD. Workforce demographics and unit structure in paediatric cardiac critical care in the United States. *Cardiology in the Young*. 2021:1-5. doi:10.1017/S1047951121004753.
3. Basu, S, **Horak, R**, Pollack, M. The Association of Pediatric Critical Care Medicine Training Programs with Research Publication Productivity and Employment Outcomes of Their Graduates. J Pediatr Intensive Care. On-line publication Dec 2020. DOI: 10.1055/s-0040-1721732. *Provided baseline data, reviewed manuscript.*
4. **Horak RV**, Alexander PM, Amirnovin R, Klein MJ, Bronicki RA, Markovitz BP, McBride ME, Randolph AG, Thiagarajan RR. Pediatric Cardiac Intensive Care Distribution, Service Delivery, and Staffing in the United States in 2018. Pediatr Crit Care Med. 2020 Sep;21(9):797-803. doi: 10.1097/PCC.0000000000002413. PMID: 32886459.
5. [Gong CL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Gong%20CL%5BAuthor%5D&cauthor=true&cauthor_uid=32337623), [Song AY](https://www.ncbi.nlm.nih.gov/pubmed/?term=Song%20AY%5BAuthor%5D&cauthor=true&cauthor_uid=32337623), [**Horak R**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Horak%20R%5BAuthor%5D&cauthor=true&cauthor_uid=32337623), [Friedlich PS](https://www.ncbi.nlm.nih.gov/pubmed/?term=Friedlich%20PS%5BAuthor%5D&cauthor=true&cauthor_uid=32337623), [Lakshmanan A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Lakshmanan%20A%5BAuthor%5D&cauthor=true&cauthor_uid=32337623), [Pruetz JD](https://www.ncbi.nlm.nih.gov/pubmed/?term=Pruetz%20JD%5BAuthor%5D&cauthor=true&cauthor_uid=32337623), [Yieh L](https://www.ncbi.nlm.nih.gov/pubmed/?term=Yieh%20L%5BAuthor%5D&cauthor=true&cauthor_uid=32337623), [Ram Kumar S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ram%20Kumar%20S%5BAuthor%5D&cauthor=true&cauthor_uid=32337623), [Williams RG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Williams%20RG%5BAuthor%5D&cauthor=true&cauthor_uid=32337623).  The Impact of Confounding on Cost, Survival, and Length-of-Stay Outcomes for Neonates with Hypoplastic Left Heart Syndrome Undergoing Stage 1 Palliation Surgery. *Pediatr Cardiol* 2020 Apr doi: 10.1007/s00246-020-02348-5. *Reviewed data and manuscript adding important contributions to discussion and conclusions.*
6. Albert BD, Petti C, Caraglia A, Gelloer M, **Horak R**, Barrett M, Hastings R, O’brien M, Ormsby J, Sandora T, Kleinmna M, Priebe GP, Mehta, N. Multidisciplinary Quality Improvement Intervention to Achieve Sustained Improvement in Hand Hygiene Reliability in a Pediatric Intensive Care Unit. *Pediatr Qual Saf.* 2019 Nov 6;4(6):e227. *Active participant and organizer of the quality improvement interventions.*
7. **\*\*Horak RV**, Griffin JF, Brown AM, Nett ST, Christie LM, Forbes ML, Kubis S, Li S, Singleton MN, Verger JT, Markovitz BP, Burns JP, Chung SA, Randolph AG. Pediatric Acute Lung Injury and Sepsis Investigators (PALISI). Growth and Changing Characteristics of Pediatric Intensive Care 2001-2016. *Crit Care Med*. 2019 Aug;47(8):1135-1142
8. LaRovere KL, Murphy SA, **Horak R**, Vittner P, Kapur K, Proctor M, Tasker RC*.* Pediatric Neocritical Care: Evolution of a New Clinical Service in PICUs Across the United States. *Pediatric Critical Care Medicine.* 19(11):1039-1045, 2018. . *Provided baseline data and reviewed manuscript.*
9. Audrey L Kinter, **Robin Horak**, Melanie Sion, Lindsey Riggin, Jonathan McNally, Yin Lin, Robert Jackson, Angeline O’Shea, Gregg Roby, Colin Kovacs, Mark Connors, Stephen A Migueles, Anthony S Fauci. CD25+ Regulatory T Cells Isolated from HIV-Infected Individuals Suppress the Cytotoxic and Nonlytic Antivical Activity of HIV-specific CD8+ T Cells in Vitro. *AIDS Research and Human Retroviruses.* 23:438-450, 2007. *Participated in all experiments deriving data.*

Abstracts and Presentations (all competitive):

1. Advancing Women Physicians in Medicine: A Scoping Review*. Pediatric Academic Societies*, 2024
2. Rinaldi E, Brostoff D, Ayers C, Batsis M, Derrington S, **Horak R**, Jones J, Kem S, Kingsley J, Kohler K, Mertens R, Nigri D, Salazar M, Rosenthal R, Singh A, Smith B, York M, Winter M.*Implementation of a Compassionate Extubation Protocol in the Pediatric and Cardiothoracic Intensive Care Unit.* Children’s Hospital Los Angeles Quality Improvement Conference; 17 May 2023, Los Angeles, CA.
3. Susan Glass MD, Zahia Zayed MD, Ola Kassis MD, Kate Rand MD, Tyler Kingdon MD, Aine Cooke MD, **Robin Horak** MD. Quality Improvement Assessment to Reduce Unnecessary Laboratory Testing in the CTICU. *Resident and Fellow Quality Improvement Poster Session at Children’s Hospital Los Angeles* 2022.
4. Cynthia Gong PharmD, PhD, Yijie Li MPH, Richard Ta, Alexander Bruno, Ashwini, Lakshamanan MD, MS, MPH, **Robin Horak**, MD. Impact of Home-Monitoring Single Ventricle Interstage Program on Mortality, Costs, and Length-of-Stay: Institution and Family Perspectives.  *Pediatric Academic Societies,* 2022.
5. **Robin Horak** MD, Leslie A. Rhodes MD, Antonio G. Cabrera MD, John M. Costello MD, David K. Werho MD, Shasha Bai PhD, David S. Cooper MD, Bradley S. Marino MD, Sarah Tabbutt MD, Catherine D. Krawczeski MD. PediatricCardiac Critical Care Training Capacity and Workforce Predictions in the United States. *Pediatric Cardiac Critical Care Society Meeting*, Virtual, 2020
6. David K. Werho, MD; Bradley S. Marino, MD; Antonio G. Cabrera, MD; Leslie A. Rhodes, MD; **Robin Horak**, MD; David S. Cooper, MD; John M. Costello, MD; Shasha Bai, MD; Sarah Tabbutt, MD; Catherine D. Krawczeski, MD. Wellness in Pediatric Cardiac Intensivists and Medical Directors in the United States – How Are We Doing? *Pediatric Cardiac Critical Care Society Meeting*, Virtual, 2020
7. Leslie A. Rhodes MD, Antonio G. Cabrera MD, John M. Costello MD, David K. Werho MD, Shasha Bai PhD, David S. Cooper MD, **Robin Horak** MD, Bradley S. Marino MD, Sarah Tabbutt MD, Catherine D. Krawczeski MD. Diversity Among Pediatric Cardiac Critical Care Intensivists Across the United States. *Pediatric Cardiac Critical Care Society Meeting*, Virtual, 2020
8. Leslie A. Rhodes MD, David S. Cooper MD, Bradley S. Marino MD, Sarah Tabbutt MD, Shasha Bai PhD, Antonio G. Cabrera MD, John M. Costello MD, **Robin Horak** MD, David K. Werho MD, Catherine D. Krawczeski MD. Structure and Intensivist Clinical Coverage of Pediatric Cardiac Critical Care Units. *Pediatric Cardiac Critical Care Society Meeting*, Virtual, 2020
9. Catherine D. Krawczeski MD, **Robin Horak** MD, David S. Cooper MD, Shasha Bai PhD, Antonio G. Cabrera MD, Bradley S. Marino MD, Leslie A. Rhodes MD, David K. Werho MD, Sarah Tabbutt MD, John M. Costello MD. Training Pathways and Related Attitudes for Pediatric Cardiac Intensivists in the United States. *Pediatric Cardiac Critical Care Society Meeting*, Virtual, 2020.
10. **Horak RH**, Alexander PM, Amirnovin R, Klein MJ, Bronicki RA, Markovitz BP, McBride ME, Randolph AG, Thiagarajan RR. Institutional Variation in Resource Utilization for Children with Primary Cardiac Disease. *Joint Paediatric Critical Care International Meeting*, London, England, 2019
11. Gong CL, Song A, Horak R, Lakshmanan A, Friedlich PS, Yieh L, Pruetz J, Subramanyan RK, Williams R. Cost, Survival, and Length of Stay for Neonates with Hypoplastic Left Heart Syndrome Undergoing Stage 1 Palliation Surgery. *Joint Paediatric Critical Care International Meeting,* London, England, 2019
12. **Horak, Robin**, Alexander, Peta, Amirnovin, Rambod, Thiagarajan, Ravi, Bronicki, Ronald, McBride, Mary, Randolph, Adrienne, Markovitz, Barry. State of Pediatric Cardiac Care in the United States. *Pediatric Cardiac Intensive Care Society* 2018.
13. **Horak, Robin**, MD, Griffin, John, MS, Randolph Adrienne, MD, MsC. National Pediatric Intensive Care Survey of the United States: A 15 Year Update. *Pediatric Academic Societies,* 2017.
14. **Horak, Robin**, MD, Griffin, John, MS, Randolph Adrienne, MD, MsC. National Pediatric Intensive Care Survey of the United States: A 15 Year Update. *Folkman Research Day at Boston Children’s,* 2017.
15. **Horak, Robin**, MD, Griffin, John, MS, Randolph Adrienne, MD, MsC. National Pediatric Intensive Care Survey of the United States: A 15 Year Update. *Pediatric Critical Care Medicine Research Training Consortium,* 2017
16. **Horak, Robin**, MD, Catenacci, Melissa, MD. Pediatric Residency Quality Improvement Project 2010-2011*. Medical Center Quality Celebration*. 2011