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  |   |
|  Phone: 323-361-8673  |   |
|  Fax: 720-777-7290 |   |
|  Work Email: robin.klein@childrenscolorado.org  |

Education and Appointments

Education:

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| 20042009 | 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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| 2012-20142017-20232018-20232023-Present | Medical Director, Klinik Timoun Nou Yo Staff Physician, Emergency Medicine and Critical Care Transport Team Attending Physician Cardiac Critical CareAttending 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 AngelesDepatment of Pediatric, Division of Cardiology, Children’s Hospital of Colorado, Aurora |
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Honors, Awards:

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| 200820092011201620192021 | Alpha Omega Alpha Honor SocietyThe Norman F. Sokoloff, MD Award for Excellence in Clinical DiagnosisWinning Poster for Medical Center Quality Week Poster for Medical Center Quality Medical Surgical Intensive Care Unit Employee of the MonthRunner-up, Fellow Teaching AwardNominee for Morris and Mary Press Humanism Award  | Jefferson Medical College, PhiladelphiaJefferson Medical College, PhiladelphiaUniversity of California San Francisco Medical Center, San FranciscoBoston Children’s Hospital, BostonChildren’s Hospital Los Angeles, Los Angeles Children’s Hospital Los Angeles, Los Amgeles |

Professional Society Memberships:

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| 2009-Present2014-2020 | American Academy of Pediatrics (AAP), section on Global HealthPediatric 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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| 2015-20172018-2019 2019-20212019-20232020-2022 2021-2023 2019-20222022-20232024-Present 2024-Present  | Member, Medical Surgical Intensive Care Unit (MSICU) Quality Improvement CommitteeMember, Cardiothoracic Intensive Care Unit (CTICU) Performace Improvement Facilatator, Year 2 Leadership CurriculumChair, Cardiothoracic Intensive Care Unit (CTICU) Performace ImprovementMember, 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 HosptialCTICU/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 ColoradoDivison of Cardiology, Childrens of Colorado  |
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Hospital or Medical Group Service:

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| 2009-20122011-20122014-20172019-20232020-2021 | Member, Resident and Fellow’s CouncilCo-Chair, Resident and Fellows CouncilMember, Hospital-Wide Resident and Fellow Quality Improvement CommitteeMember, Committee of Expidited Event ReviewCo-Chair, Human Rights Emplyee Interest Group  | GME/University California San Francisco Medical CenterGME/University California San Francisco Medical CenterGME/Boston Children’s HospitalChildren’s Hospital Los AngelesChildren’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   |
| 2009-20122011-20122014-20172019-20232020-2021 | Member, Resident and Fellow’s CouncilCo-Chair, Resident and Fellows CouncilMember, Hospital-Wide Resident and Fellow Quality Improvement CommitteeMember, Committee of Expidited Event ReviewCo-Chair, Human Rights Emplyee Interest Group  | GME/University California San Francisco Medical CenterGME/University California San Francisco Medical CenterGME/Boston Children’s HospitalChildren’s Hospital Los AngelesChildren’s Hosptial Los Angeles  |

PROFESSIONAL SERVICE:

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| 2021-Present2022-20232022-2022 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 2023World Federation Pediatric Critical Care Symposium Pediatric Cardiac Intensive Care Society Pediatric Ventilator Liberation Quality Improvement Collaboration |

Community Service:

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| 2005-20092011-20122019-Present 2019-20232019-2022 2020-Present | Clinical Director, Student Coordinator, VolunteeerMedical AdvisorMedical Advisor Participant/Mentor in Camp CHLAMedical AdvisorStaff Physician and Medical Advisor  | Jeff Hope/Jefferson Medical College, Philadelphia, PAGlobal Health Project, La Romana, DRSt. Damien’s, Port-au-Prince, HaitiChildren’s Hospital Los Angeles, CAMedical 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 ICUDevelopment 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  |
| 20212023 | FH6034754 DEA, active, expires, 10/2024Colorado 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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| 201820182019 | Pediatric Advanced Life Support (PALS), active, expires 12/2024Advanced Cardiovascular Life Support (ACLS), active, expires 01/2026PCICS 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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| 2022202220212021202120202017 | PodCastPresentation 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, CAPost-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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| 2016-20172017-20182017-20192018-2022 | Mortality and Morbidity Presentation for the Medical and Surgical Intensive Care Unit, BCH Cardiac Critical Care Lecture Series, CHLACritical Care Fellow Core Curriculum Series: Toxicology, CHLA Critical Care Fellow Core Curriculum Series: Metabolism, CHLA  | 4 hrs10 hrs 1 hr1 hr  | Presenter/Organizer Co-LeaderLecturer Lecturer  |
| 2018-20202018-20232021-20212021-2023 2021-20232021-20232022-20232022-2023 2023-Present | Patient management on ECMO for ECMO Boot Camp, CHLA Morning didatic and ward rounds teaching, CHLACritical Care Fellow Core Curriculum Series: End of Life Care, CHLACritical 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 ACCMCritical Care Fellow Core Curriculum Series: Cardiac Mechanical Support, CHLA Pulmonary Fellow Core Curriculum Series, CHLAWard rounds teaching, CHoC   | 1 hr 30 hrs1 hr1 hr1 hr75 hrs1 hr2 hrs 25 hrs | Lecturer Lecturer Lecturer Lecturer LecturerDirector, LecturerLecturer LecturerLecturer |

Residents (Physician and Nursing):

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| 2014-20172015-20172018-20232021-20222024-Present | Pediatric Arrythmias, BCHHands on skill sessions, BCHCardiac Critical Care Nurses Pull Back/RN Residency Lecture Series NEC, CHLAPediatric Residency Core Curriculum Series: Hypertensive Emergencies, CHLAAll Things Cardiac: Vasoactives | 2 hrs5 hrs 2 hrs1 hr1 hr | Lecturer Lecturer Lecturer LecturerLecturer  |

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* 2018-20192019-20202021-20212022-Present2022-Present2022-20232022-2023  |  *Name*Ashley SchefferAline BrancaElyse GutierrezRachel Rosenthal Adriana Chou Alexander PariskyJennifr 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 AngelesAssistant Professor, Children’s Mercy Kansas City Assistant Professor, Children’s Hospital of Philadelphia  |

Faculty Mentorship:

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|  *Year*2019-Present2023-Present |  *Name*Ashley SchefferKatie 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