



Bereketeab Haileselassie

Associate Professor of Pediatrics (Critical Care)

Pediatrics - Critical Care

CLINICAL OFFICE (PRIMARY)

- **Pediatric Intensive Care**

725 Welch Rd 2 East

PCU 420

Palo Alto, CA 94304

Tel (650) 497-8850 **Fax** (650) 736-9186

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Megan Tran - Senior Administrative Associate

Email tranm@stanford.edu

Tel 650-723-3820

Bio

BIO

Dr. Haileselassie completed his medical degree at University of Missouri followed by residency at University of Washington. He attained clinical training and expertise in pediatric critical care medicine along with a master's in health sciences from the Johns Hopkins University. After fellowship, Dr. Haileselassie attained postdoctoral T32 research training under Dr. Theodore Abraham at Johns Hopkins University, which focused on myocardial mechanics and redox biology. This was complimented by his Instructorship at Stanford University where he received further research training in mitochondrial biology under Dr. Mochly-Rosen in the Department of Chemical Systems Biology. Dr. Haileselassie was recruited to Stanford School of Medicine in the University Medical Line in 2020, and currently runs an NIH-funded translational research program aimed at understanding the role of alterations in mitochondrial dynamics in sepsis induced multiple organ dysfunction syndrome (MODS).

CLINICAL FOCUS

- Pediatric Critical Care Medicine

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Pediatrics - Critical Care
- Member, Cardiovascular Institute
- Member, SPARK at Stanford
- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- Awardee, NRSA T-32 Grant Postdoctoral Research Training in Critical Care Medicine (2015-2016)
- Awardee, Golden Apple Teaching Award, Pediatric Critical Care Division (2017)
- Awardee, SCCM Gold Snapshot Award (2018)
- Awardee, Pediatric Trauma and Critical Care Scientist Developmental Program (2017-2022)
- Star Research Achievement Award, SCCM (2019)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Maternal and Child Health Research Institute (MCHRI) (2018 - present)
- Member, American Academy of Pediatrics (2010 - present)
- Member, Society of Critical Care Medicine (2013 - present)
- Faculty, SCCM Critical Care Ultrasound (2014 - present)

PROFESSIONAL EDUCATION

- Medical Education: University of Missouri Kansas City School of Medicine (2010) MO
- Residency: University of Washington Pediatric Residency (2013) WA
- Board Certification: Pediatric Critical Care Medicine, American Board of Pediatrics (2016)
- Fellowship: Johns Hopkins University Pediatric Critical Care Fellowship (2016) MD
- Board Certification: Pediatrics, American Board of Pediatrics (2013)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My laboratory is focused on understanding the cellular mechanisms which mediate end-organ failure in pediatric sepsis. Our current work focuses on determining the role of altered mitochondrial dynamics in sepsis-induced multi-organ dysfunction syndrome (MODS). Specifically, we focus on understanding the mechanisms that mediate derangements in mitochondrial fission and autophagy in sepsis.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Suchismita Dey, Yuhan Wen, Mulate Zerihun Workeneh

Publications

PUBLICATIONS

- **Ventilator management on extracorporeal membrane oxygenation: considerations for open lung strategy.** *Current opinion in pediatrics*
Vohwinkel, C., Haileselassie, B., Cornfield, D. N.
2026
- **Proposing Entrustable Professional Activities for Pediatric Critical Care Ultrasound: A Modified Delphi Consensus Approach.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Lintner-Rivera, M., Maxson, I. N., Al-Subu, A. M., Bhargava, V., Chandnani, H. K., Chong, G., Conlon, T. W., Davis, J. J., Flores, S., Ginsburg, S., Gutierrez, P., Haileselassie, B., Kozyak, et al
2026; 27 (2): 235-243
- **Neutrophil dysregulation differentiates pediatric septic shock biomarker-based mortality-risk strata: insights from weighted gene co-expression network and transcriptomic analyses.** *Frontiers in immunology*
Dunwoodie, L., Huang, M., Moore, A. R., Stanski, N. L., Standage, S. W., Kaplan, J. M., Zingarelli, B., Harmon, K., Fitzgerald, J. C., Weiss, S. L., Bigham, M. T., Schwarz, A. J., Lutfi, et al
2025; 16: 1663704
- **Inhibition of DRP1-FIS1-Mediated mitochondrial fission as a novel strategy to prevent gvhd**
Yan, H., Vijayan, V., Chiang, C., Zheng, X., Lopez, I., Prentiss, K., Baker, J., Mochly-Rosen, D., Negrin, R., Weinberg, K., Haileselassie, B.
ELSEVIER.2025: 2310
- **Short-Term Fasting Alters Mitochondrial Dynamics and Increases Mitochondrial Release From Cardiomyoblasts**

Tetri, L., Lopez, I., Dey, S., Vijayan, V., Haileselassie, B.
LIPPINCOTT WILLIAMS & WILKINS.2025: 1074

- **Excessive mitochondrial fission and associated extracellular mitochondria mediate cardiac dysfunction in obesity cardiomyopathy.** *Life sciences*
Li, S. J., Tetri, L. H., Vijayan, V., Elezaby, A., Chiang, C. H., Lopez, I., Ostberg, N. P., Cornell, T. T., Chen, C. Y., Haileselassie, B.
2025: 123658
- **DEVELOPMENT OF ENTRUSTABLE PROFESSIONAL ACTIVITIES FOR ULTRASOUND IN PEDIATRIC CRITICAL CARE**
Bhargava, V., Davis, J., Lintner Rivera, M., Flores, S., Makson, I., Al-Subu, A., Chandnani, H., Chong, G., Ginsburg, S., Gutierrez, P., Haileselassie, B., Kozyak, B., Ramirez, et al
LIPPINCOTT WILLIAMS & WILKINS.2025
- **Diagnostic Validation of the Updated Pediatric Sepsis Biomarker Risk II for Acute Kidney Injury Prediction Model in Pediatric Septic Shock.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Stanski, N. L., Zhang, B., Cvijanovich, N. Z., Fitzgerald, J. C., Bigham, M. T., Jain, P. N., Schwarz, A. J., Lutfi, R., Allen, G. L., Thomas, N. J., Baines, T., Haileselassie, B., Weiss, et al
2024
- **Cardiac troponin I directly binds and inhibits mitochondrial ATP synthase with a noncanonical role in the post-ischemic heart.** *Nature cardiovascular research*
Elezaby, A., Lin, A. J., Vijayan, V., Pokhrel, S., Kraemer, B. R., Bechara, L. R., Larus, I., Sun, J., Baena, V., Syed, Z. A., Murphy, E., Glancy, B., Ostberg, et al
2024; 3 (8): 987-1002
- **Peptide-to-macrocyclic: structure-activity relationships studies of P110, excessive mitochondrial fission inhibitor to target cardiovascular disease**
Workeneh, M., Ben-Uliel, S., Zilinski, S., Davis, L., Dey, S., Shalev, D. E., Ertracht, O., Haileselassie, B., De Zotti, M., Qvit, N.
WILEY.2024
- **Identification and transcriptomic assessment of latent profile pediatric septic shock phenotypes.** *Critical care (London, England)*
Atreya, M. R., Huang, M., Moore, A. R., Zheng, H., Hasin-Brumshtein, Y., Fitzgerald, J. C., Weiss, S. L., Cvijanovich, N. Z., Bigham, M. T., Jain, P. N., Schwarz, A. J., Lutfi, R., Nowak, et al
2024; 28 (1): 246
- **Executive Summary: The Pediatric Extracorporeal Membrane Oxygenation Anticoagulation Collaborative (PEACE) Consensus Conference.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Alexander, P. M., Bembea, M. M., Cashen, K., Cheifetz, I. M., Dalton, H. J., Himebauch, A. S., Karam, O., Moynihan, K. M., Nellis, M. E., Ozment, C., Raman, L., Rintoul, N. E., Said, et al
2024; 25 (7): 643-675
- **Anticoagulation Monitoring and Targets: The Pediatric Extracorporeal Membrane Oxygenation Anticoagulation Collaborative Consensus Conference.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Ozment, C., Alexander, P. M., Chandler, W., Emani, S., Hyslop, R., Monagle, P., Muszynski, J. A., Willems, A., Gehred, A., Lyman, E., Steffen, K., Thiagarajan, R. R.
2024; 25 (7 Suppl 1): e14-e24
- **Management of Extracorporeal Membrane Oxygenation Anticoagulation in the Perioperative Period: The Pediatric Extracorporeal Membrane Oxygenation Anticoagulation Collaborative Consensus Conference.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Willems, A., Anders, M. M., Garcia, A. V., Vogel, A. M., Yates, A. R., Muszynski, J. A., Alexander, P. M., Steffen, K., Emani, S., Gehred, A., Lyman, E., Raman, L.
2024; 25 (7 Suppl 1): e53-e65
- **Management of Bleeding and Thrombotic Complications During Pediatric Extracorporeal Membrane Oxygenation: The Pediatric Extracorporeal Membrane Oxygenation Anticoagulation Collaborative Consensus Conference.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Rintoul, N. E., McMichael, A. B., Bembea, M. M., DiGeronimo, R., Patregnani, J., Alexander, P. M., Muszynski, J. A., Steffen, K., Gehred, A., Lyman, E., Cheifetz, I. M.

2024; 25 (7 Suppl 1): e66-e77

- **Priorities for Clinical Research in Pediatric Extracorporeal Membrane Oxygenation Anticoagulation From the Pediatric Extracorporeal Membrane Oxygenation Anticoagulation Collaborative Consensus Conference.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Muszynski, J. A., Bembea, M. M., Gehred, A., Lyman, E., Cashen, K., Cheifetz, I. M., Dalton, H. J., Himebauch, A. S., Karam, O., Moynihan, K. M., Nellis, M. E., Ozment, C., Raman, et al
2024; 25 (7 Suppl 1): e78-e89
- **Extracellular release of mitochondria induced by pre-hematopoietic stem cell transplant conditioning exacerbates GVHD.** *Blood advances*
Vijayan, V., Yan, H., Lohmeyer, J. K., Prentiss, K. A., Patil, R. V., Barbarito, G., Lopez, I., Elezaby, A., Peterson, K., Baker, J., Ostberg, N. P., Bertaina, A., Negrin, et al
2024
- **Biomarker Assessment of a High-Risk, Data-Driven Pediatric Sepsis Phenotype Characterized by Persistent Hypoxemia, Encephalopathy, and Shock.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Atreya, M. R., Bennett, T. D., Geva, A., Faustino, E. V., Rogerson, C. M., Lutfi, R., Cvijanovich, N. Z., Bigham, M. T., Nowak, J., Schwarz, A. J., Baines, T., Haileselassie, B., Thomas, et al
2024
- **High Variability in the Duration of Chest Compression Interruption is Associated With Poor Outcomes in Pediatric Extracorporeal Cardiopulmonary Resuscitation.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Han, P., Rasmussen, L., Su, F., Dacre, M., Knight, L., Berg, M., Tawfik, D., Haileselassie, B.
2024
- **A RARE CAUSE OF SEVERE PEDIATRIC ACUTE RESPIRATORY DISTRESS SYNDROME**
Lew, A., Koilparampil, L., Kache, S., Haileselassie, B.
LIPPINCOTT WILLIAMS & WILKINS.2024
- **A RARE CAUSE OF SEVERE PEDIATRIC ACUTE RESPIRATORY DISTRESS SYNDROME**
Lew, A., Koilparampil, L., Kache, S., Haileselassie, B.
LIPPINCOTT WILLIAMS & WILKINS.2024: S412
- **EPIDEMIOLOGY OF INTRACRANIAL HEMORRHAGE IN CHILDREN SUPPORTED BY EXTRACORPOREAL MEMBRANE OXYGENATION**
Mahmood, H., Alexander, P., Vogel, A., Thomas, C., Bembea, M., Norton, B., Schmoker, J., Rasmussen, L., Haileselassie, B., Todd-Tzanetos, D., Furlong-Dillard, J., Boville, B., Leimanis-Laurens, et al
LIPPINCOTT WILLIAMS & WILKINS.2024: S364
- **Revisiting Post-ICU Admission Fluid Balance Across Pediatric Sepsis Mortality Risk Strata: A Secondary Analysis of a Prospective Observational Cohort Study.** *Critical care explorations*
Atreya, M. R., Cvijanovich, N. Z., Fitzgerald, J. C., Weiss, S. L., Bigham, M. T., Jain, P. N., Abulebda, K., Lutfi, R., Nowak, J., Thomas, N. J., Baines, T., Quasney, M., Haileselassie, et al
2024; 6 (1): e1027
- **EPIDEMIOLOGY OF INTRACRANIAL HEMORRHAGE IN CHILDREN SUPPORTED BY EXTRACORPOREAL MEMBRANE OXYGENATION**
Mahmood, H., Alexander, P., Vogel, A., Thomas, C., Bembea, M., Norton, B., Schmoker, J., Rasmussen, L., Haileselassie, B., Todd-Tzanetos, D., Furlong-Dillard, J., Boville, B., Leimanis-Laurens, et al
LIPPINCOTT WILLIAMS & WILKINS.2024
- **Derivation, validation, and transcriptomic assessment of pediatric septic shock phenotypes identified through latent profile analyses: Results from a prospective multi-center observational cohort.** *Research square*
Atreya, M. R., Huang, M., Moore, A. R., Zheng, H., Hasin-Brumshtein, Y., Fitzgerald, J. C., Weiss, S. L., Cvijanovich, N. Z., Bigham, M. T., Jain, P. N., Schwarz, A. J., Lutfi, R., Nowak, et al
2023
- **Altered profiles of extracellular mitochondrial DNA in immunoparalyzed pediatric patients after thermal injury.** *Shock (Augusta, Ga.)*
Tetri, L. H., Penatzer, J. A., Tsegay, K. B., Tawfik, D. S., Burk, S., Lopez, I., Thakkar, R. K., Haileselassie, B.
2023
- **Extracellular Release of Damaged Mitochondria Induced By Cytotoxic Conditioning Exacerbates Graft-Versus-Host Disease**

Vijayan, V., Yan, H., Lohmeyer, J., Prentiss, K., Patil, R., Barbarito, G., Lopez, I., Elezaby, A., Peterson, K., Baker, J., Ostberg, N., Bertaina, A., Negrin, et al
AMER SOC HEMATOLOGY.2023

- **Serum Humanin in Pediatric Septic Shock Associated Multiple Organ Dysfunction Syndrome.** *Shock (Augusta, Ga.)*
Atreya, M. R., Piraino, G., Cvijanovich, N. Z., Fitzgerald, J. C., Weiss, S. L., Bigham, M. T., Jain, P. N., Schwarz, A. J., Lutfi, R., Nowak, J., Thomas, N. J., Baines, T., Haileselassie, et al
2023
- **Serum Soluble Endoglin in Pediatric Septic Shock Associated Multiple Organ Dysfunction Syndrome.** *Shock (Augusta, Ga.)*
Atreya, M. R., Cvijanovich, N. Z., Fitzgerald, J. C., Weiss, S. L., Bigham, M. T., Jain, P. N., Schwarz, A. J., Lutfi, R., Nowak, J., Thomas, N. J., Quasney, M., Haileselassie, B., Baines, et al
2023
- **Targeting an allosteric site in dynamin-related protein 1 to inhibit Fis1-mediated mitochondrial dysfunction.** *Nature communications*
Rios, L., Pokhrel, S., Li, S. J., Heo, G., Haileselassie, B., Mochly-Rosen, D.
2023; 14 (1): 4356
- **Prognostic and predictive value of endothelial dysfunction biomarkers in sepsis-associated acute kidney injury: risk-stratified analysis from a prospective observational cohort of pediatric septic shock.** *Critical care (London, England)*
Atreya, M. R., Cvijanovich, N. Z., Fitzgerald, J. C., Weiss, S. L., Bigham, M. T., Jain, P. N., Schwarz, A. J., Lutfi, R., Nowak, J., Allen, G. L., Thomas, N. J., Grunwell, J. R., Baines, et al
2023; 27 (1): 260
- **Detrimental effects of PCSK9 loss-of-function in the pediatric host response to sepsis are mediated through independent influence on Angiopoietin-1.** *Critical care (London, England)*
Atreya, M. R., Cvijanovich, N. Z., Fitzgerald, J. C., Weiss, S. L., Bigham, M. T., Jain, P. N., Schwarz, A. J., Lutfi, R., Nowak, J., Allen, G. L., Thomas, N. J., Grunwell, J. R., Baines, et al
2023; 27 (1): 250
- **Serum renin and prorenin concentrations predict severe persistent acute kidney injury and mortality in pediatric septic shock.** *Pediatric nephrology (Berlin, Germany)*
Stanski, N. L., Shakked, N. P., Zhang, B., Cvijanovich, N. Z., Fitzgerald, J. C., Jain, P. N., Schwarz, A. J., Nowak, J., Weiss, S. L., Allen, G. L., Thomas, N. J., Haileselassie, B., Goldstein, et al
2023
- **Prevalence and prognostic implications of hypertensive response to exercise in patients with hypertrophic cardiomyopathy.** *International journal of cardiology. Cardiovascular risk and prevention*
Lu, D. Y., Ventoulis, I., Liu, H., Haileselassie, B., Pozios, I., Liang, H. Y., Sorensen, L. L., Canepa, M., Bavaro, N., Phillip, S., Abraham, M. R., Abraham, T. P.
2023; 16: 200166
- **Prevalence and prognostic implications of hypertensive response to exercise in patients with hypertrophic cardiomyopathy** *INTERNATIONAL JOURNAL OF CARDIOLOGY CARDIOVASCULAR RISK AND PREVENTION*
Lu, D., Ventoulis, I., Liu, H., Haileselassie, B., Pozios, I., Liang, H., Sorensen, L. L., Canepa, M., Bavaro, N., Phillip, S., Abraham, M., Abraham, T. P.
2023; 16
- **Drp1/p53 interaction mediates p53 mitochondrial localization and dysfunction in septic cardiomyopathy.** *Journal of molecular and cellular cardiology*
Mukherjee, R., Tetri, L. H., Li, S. J., Fajardo, G., Ostberg, N. P., Tsegay, K. B., Gera, K., Cornell, T. T., Bernstein, D., Mochly-Rosen, D., Haileselassie, B.
2023; 177: 28-37
- **External validation of the modified sepsis renal angina index for prediction of severe acute kidney injury in children with septic shock.** *Critical care (London, England)*
Stanski, N. L., Basu, R. K., Cvijanovich, N. Z., Fitzgerald, J. C., Bigham, M. T., Jain, P. N., Schwarz, A. J., Lutfi, R., Thomas, N. J., Baines, T., Haileselassie, B., Weiss, S. L., Atreya, et al
2023; 27 (1): 463
- **Prediction of Difficult Laryngoscopy Using Ultrasound: A Systematic Review and Meta-Analysis.** *Critical care medicine*
Bhargava, V., Rockwell, N. A., Tawfik, D., Haileselassie, B., Petrisor, C., Su, E.
2023; 51 (1): 117-126

- **MITOCHONDRIAL FISSION & CELL-FREE MITOCHONDRIA MEDIATE CARDIAC DYSFUNCTION IN OBESITY CARDIOMYOPATHY**
Li, S., Chen, C., Ostberg, N., Tetri, L., Cornell, T., Mochly-Rosen, D., Haileselassie, B.
LIPPINCOTT WILLIAMS & WILKINS.2023: 50
- **MODIFIED ASSESSMENT OF COMPETENCY IN THORACIC SONOGRAPHY (ACTS) SCALE IN THE NICU AND PICU**
Dasani, R., Bhargava, V., Chan, B., Hamilton, C., Seekins, J., Halabi, S., Chen, D., Reddy, C., Hilgenberg, S., Haileselassie, B., Bhombal, S.
LIPPINCOTT WILLIAMS & WILKINS.2023: 302
- **A point-of-care ultrasound education curriculum for pediatric critical care medicine.** *The ultrasound journal*
Bhargava, V., Haileselassie, B., Rosenblatt, S., Baker, M., Kuo, K., Su, E.
2022; 14 (1): 44
- **Integrated PERSEVERE and endothelial biomarker risk model predicts death and persistent MODS in pediatric septic shock: a secondary analysis of a prospective observational study.** *Critical care (London, England)*
Atreya, M. R., Cvijanovich, N. Z., Fitzgerald, J. C., Weiss, S. L., Bigham, M. T., Jain, P. N., Schwarz, A. J., Lutfi, R., Nowak, J., Allen, G. L., Thomas, N. J., Grunwell, J. R., Baines, et al
2022; 26 (1): 210
- **Implementation of a Bedside Point-of-Care Ultrasound Program in a Large Academic Neonatal Intensive Care Unit.** *American journal of perinatology*
Pai, V. V., Noh, C. Y., Dasani, R., Vallandingham, S., Manipon, C., Haileselassie, B., Profit, J., Balasundaram, M., Davis, A. S., Bhombal, S.
2022
- **Drp1/Fis1-Dependent Pathologic Fission and Associated Damaged Extracellular Mitochondria Contribute to Macrophage Dysfunction in Endotoxin Tolerance.** *Critical care medicine*
Mukherjee, R., Tompkins, C. A., Ostberg, N. P., Joshi, A. U., Massis, L. M., Vijayan, V., Gera, K., Monack, D., Cornell, T. T., Hall, M. W., Mochly-Rosen, D., Haileselassie, B.
1800
- **Laryngeal Ultrasound Detects Vocal Fold Immobility in Adults: A Systematic Review.** *Journal of ultrasound in medicine : official journal of the American Institute of Ultrasound in Medicine*
Su, E., Hamilton, C., Tawfik, D. S., Mariano, K., Ginsburg, S., Conlon, T., Veten, A., Fernandez, E., Wong, K., Sidell, D. R., Haileselassie, B., Pediatric Research Collaborative for Critical Ultrasound
2021
- **deltaPKC-Mediated Drp1 Phosphorylation Impacts Macrophage Mitochondrial Function and Inflammatory Response to Endotoxin.** *Shock (Augusta, Ga.)*
Lin, A. J., Joshi, A. U., Mukherjee, R., Tompkins, C. A., Vijayan, V., Mochly-Rosen, D., Haileselassie, B.
2021
- **Recalibration of the Renal Angina Index for Pediatric Septic Shock** *KIDNEY INTERNATIONAL REPORTS*
Stanski, N. L., Wong, H. R., Basu, R. K., Cvijanovich, N. Z., Fitzgerald, J. C., Weiss, S. L., Bigham, M. T., Jain, P. N., Schwarz, A., Lutfi, R., Nowak, J., Allen, G. L., Thomas, et al
2021; 6 (7): 1858-1867
- **Estimating filling pressures in paediatric heart transplant recipients using echocardiographic parameters and B-type natriuretic peptide.** *Cardiology in the young*
Wisotzkey, B. L., Haileselassie, B., Jorgensen, N., Albers, E. L., Kemna, M. S., Soriano, B. D., Bhat, A. H., Kronmal, R. A., Bouccek, R. J., Law, Y. M.
2021: 1-8
- **Ultrasound education improves safety for peripheral intravenous catheter insertion in critically ill children.** *Pediatric research*
Bhargava, V., Su, E., Haileselassie, B., Davis, D., Steffen, K. M.
2021
- **The authors reply.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Bhargava, V., Haileselassie, B., Su, E.
2021; 22 (5): e331–e332
- **Assessment of Vocal Cord Motion Using Laryngeal Ultrasound in Children: A Systematic Review and Meta-Analysis.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*

- Hamilton, C. E., Su, E. n., Tawfik, D. n., Fernandez, E. n., Vetten, A. n., Conlon, T. n., Ginsburg, S. n., Mariano, K. n., Sidell, D. n., Haileselassie, B. n. 2021
- **PhewWe Got the Kid BackNow What?: Understanding Risk Factors Which Contribute to In-Hospital Pediatric Recurrent Cardiac Arrest.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Haileselassie, B., Su, F., Berg, M.
2020; 21 (11): 1012–13
 - **Mitochondrial dysfunction mediated through dynamin-related protein 1 (Drp1) propagates impairment in blood brain barrier in septic encephalopathy.** *Journal of neuroinflammation*
Haileselassie, B. n., Joshi, A. U., Minhas, P. S., Mukherjee, R. n., Andreasson, K. I., Mochly-Rosen, D. n.
2020; 17 (1): 36
 - **Cardiac Dysfunction Identified by Strain Echocardiography Is Associated With Illness Severity in Pediatric Sepsis.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Patel, M. D., Mariano, K. n., Dunbar, T. n., Cornell, T. T., Pun, R. n., Haileselassie, B. n.
2020
 - **Predicting Mortality in Children With Pediatric Acute Respiratory Distress Syndrome: A Pediatric Acute Respiratory Distress Syndrome Incidence and Epidemiology Study.** *Critical care medicine*
Yehya, N. n., Harhay, M. O., Klein, M. J., Shein, S. L., Piñeres-Olave, B. E., Izquierdo, L. n., Sapru, A. n., Emeriaud, G. n., Spinella, P. C., Flori, H. R., Dahmer, M. K., Maddux, A. B., Lopez-Fernandez, et al
2020
 - **Characteristics of Pediatric Extracorporeal Membrane Oxygenation Programs in the United States and Canada.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*
Troy, L. n., Su, F. n., Kilbaugh, T. n., Rasmussen, L. n., Kuo, T. n., Jett, E. n., Cornell, T. n., Berg, M. n., Haileselassie, B. n.
2020
 - **Ultrasonographic Optic Nerve Sheath Diameter Measurement to Detect Intracranial Hypertension in Children With Neurological Injury: A Systematic Review.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Bhargava, V. n., Tawfik, D. n., Tan, Y. J., Dunbar, T. n., Haileselassie, B. n., Su, E. n.
2020
 - **ULTRASOUND-GUIDED IV PROGRAM IMPROVES FIRST STICK SUCCESS AND LONGEVITY IN CRITICALLY ILL CHILDREN**
Bhargava, V., Su, E., Haileselassie, B., Davis, D., Steffen, K.
LIPPINCOTT WILLIAMS & WILKINS.2020
 - **Early Use of Adjunctive Therapies for Pediatric Acute Respiratory Distress Syndrome: A PARDIE Study.** *American journal of respiratory and critical care medicine*
Rowan, C. M., Klein, M. J., Hsing, D. D., Dahmer, M. K., Spinella, P. C., Emeriaud, G. n., Hassinger, A. B., Piñeres-Olave, B. E., Flori, H. R., Haileselassie, B. n., Lopez-Fernandez, Y. M., Chima, R. S., Shein, et al
2020
 - **Regulating Critical Care Ultrasound, It Is All in the Interpretation.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Su, E. n., Soni, N. J., Blaivas, M. n., Bhargava, V. n., Steffen, K. n., Haileselassie, B. n.
2020
 - **PERSEVERE Biomarkers Predict Severe Acute Kidney Injury and Renal Recovery in Pediatric Septic Shock.** *American journal of respiratory and critical care medicine*
Stanski, N. L., Stenson, E. K., Cvijanovich, N. Z., Weiss, S. L., Fitzgerald, J. C., Bigham, M. T., Jain, P. N., Schwarz, A. n., Lutfi, R. n., Nowak, J. n., Allen, G. L., Thomas, N. J., Grunwell, et al
2020
 - **Low Left Atrial Strain Is Associated With Adverse Outcomes in Hypertrophic Cardiomyopathy Patients** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*
Vasquez, N., Ostrander, B. T., Lu, D., Ventoulis, I., Haileselassie, B., Goyal, S., Greenland, G. V., Vakrou, S., Olgin, J. E., Abraham, T. P., Abraham, M.
2019; 32 (5): 593–+

- **Western diet regulates immune status and the response to LPS-driven sepsis independent of diet-associated microbiome.** *Proceedings of the National Academy of Sciences of the United States of America*
Napier, B. A., Andres-Terre, M., Massis, L. M., Hryckowian, A. J., Higginbottom, S. K., Cumnock, K., Casey, K. M., Haileselassie, B., Lugo, K. A., Schneider, D. S., Sonnenburg, J. L., Monack, D. M.
2019; 116 (9): 3688–94
- **Deciphering the Effects of Performing Ultrasound on Critically Ill Emergency Department Patients** *Critical Care Explorations*
Bhargava, V., Haileselassie, B., Su, E.
2019
- **INFRASTRUCTURE AND PRACTICE CHARACTERISTICS OF PEDIATRIC ECMO PROGRAMS ACROSS NORTH AMERICA**
Troy, L., Su, F., Berg, M., Rasmussen, L., Kuo, T., Jett, E., Jacobs, K., Haileselassie, B.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **ROLE OF DRP1/FIS1-MEDIATED MITOCHONDRIAL FRAGMENTATION IN SEPSIS-INDUCED MYOCARDIAL DYSFUNCTION**
Haileselassie, B., Joshi, A., Mukherjee, R., Napier, B., Massis, L., Ostberg, N., Monack, D., Bernstein, D., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Fragmented mitochondria released from microglia trigger A1 astrocytic response and propagate inflammatory neurodegeneration.** *Nature neuroscience*
Joshi, A. U., Minhas, P. S., Liddelow, S. A., Haileselassie, B. n., Andreasson, K. I., Dorn, G. W., Mochly-Rosen, D. n.
2019; 22 (10): 1635–48
- **Prospective clinical testing and experimental validation of the Pediatric Sepsis Biomarker Risk Model.** *Science translational medicine*
Wong, H. R., Caldwell, J. T., Cvijanovich, N. Z., Weiss, S. L., Fitzgerald, J. C., Bigham, M. T., Jain, P. N., Schwarz, A. n., Lutfi, R. n., Nowak, J. n., Allen, G. L., Thomas, N. J., Grunwell, et al
2019; 11 (518)
- **Drp1/Fis1 interaction mediates mitochondrial dysfunction in septic cardiomyopathy.** *Journal of molecular and cellular cardiology*
Haileselassie, B. n., Mukherjee, R. n., Joshi, A. U., Napier, B. A., Massis, L. M., Ostberg, N. P., Queliconi, B. B., Monack, D. n., Bernstein, D. n., Mochly-Rosen, D. n.
2019
- **Low Left Atrial Strain Is Associated With Adverse Outcomes in Hypertrophic Cardiomyopathy Patients.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
Vasquez, N. n., Ostrander, B. T., Lu, D. Y., Ventoulis, I. n., Haileselassie, B. n., Goyal, S. n., Greenland, G. V., Vakrou, S. n., Olgin, J. E., Abraham, T. P., Abraham, M. R.
2019
- **Interaction of mitochondrial fission factor with dynamin related protein 1 governs physiological mitochondrial function in vivo.** *Scientific reports*
Kornfeld, O. S., Qvit, N., Haileselassie, B., Shamloo, M., Bernardi, P., Mochly-Rosen, D.
2018; 8 (1): 14034
- **Clinical Outcomes in Patients With Nonobstructive, Labile, and Obstructive Hypertrophic Cardiomyopathy.** *Journal of the American Heart Association*
Lu, D., Pozios, I., Haileselassie, ., Ventoulis, I., Liu, H., Sorensen, L., Canepa, M., Phillip, S., Abraham, R. M., Abraham, T. P.
2018: e006657.
- **Drp1/Fis1-mediated mitochondrial fragmentation leads to lysosomal dysfunction in cardiac models of Huntington's disease.** *Journal of molecular and cellular cardiology*
Joshi, A. U., Ebert, A. E., Haileselassie, B. n., Mochly-Rosen, D. n.
2018; 127: 125–33
- **Diagnostic Bedside Ultrasound Program Development in Pediatric Critical Care Medicine: Results of a National Survey.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Conlon, T. W., Kantor, D. B., Su, E. R., Basu, S. n., Boyer, D. L., Haileselassie, B. n., Petersen, T. L., Su, F. n., Nishisaki, A. n.
2018
- **EVALUATION OF STRAIN ECHOCARDIOGRAPHY IN PEDIATRIC SEPSIS**
Patel, M., Mariano, K., Dunbar, T., Haileselassie, B.

LIPPINCOTT WILLIAMS & WILKINS.2018: 742

- **EVALUATION OF THE TEMPORAL CHANGES IN CARDIAC BIOENERGETICS IN THE SETTING OF SEPSIS**
Haileselassie, B., Joshi, A., Bernstein, D., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2018: 742
- **Certification in Critical Care Echocardiography: The Evolution of an Emerging PICU Practice** *PEDIATRIC CRITICAL CARE MEDICINE*
Su, E., Haileselassie, B., Hernandez, A., Diaz-Gomez, J. L.
2018; 19 (1): 88
- **E/e' ratio and outcome prediction in hypertrophic cardiomyopathy: the influence of outflow tract obstruction.** *European heart journal cardiovascular Imaging*
Lu, D. Y., Haileselassie, B., Ventoulis, I., Liu, H. Y., Liang, H. Y., Pozios, I., Canepa, M., Phillip, S., Abraham, M. R., Abraham, T.
2018; 19 (1): 101-107
- **Certification in Critical Care Echocardiography: The Evolution of an Emerging PICU Practice.** *Pediatr Crit Care Med.*
Su, E., Haileselassie, B., Hernandez, A., Díaz-Gómez, J. L.
2018 ; 19 ((1))
- **Myocardial oxidative stress correlates with left ventricular dysfunction on strain echocardiography in a rodent model of sepsis.** *Intensive care medicine experimental*
Haileselassie, B., Su, E., Pozios, I., Niño, D. F., Liu, H., Lu, D., Ventoulis, I., Fulton, W. B., Sodhi, C. P., Hackam, D., O'Rourke, B., Abraham, T.
2017; 5 (1): 21-?
- **Impact of peak provoked left ventricular outflow tract gradients on clinical outcomes in hypertrophic cardiomyopathy.** *International journal of cardiology*
Lu, D. Y., Haileselassie, B., Ventoulis, I., Liu, H., Liang, H. Y., Nowbar, A., Pozios, I., Canepa, M., Cresswell, K., Luo, H. C., Abraham, M. R., Abraham, T. P.
2017; 243: 290-295
- **Role of Global Longitudinal Strain in Predicting Outcomes in Hypertrophic Cardiomyopathy.** *The American journal of cardiology*
Liu, H., Pozios, I., Haileselassie, B., Nowbar, A., Sorensen, L. L., Phillip, S., Lu, D. Y., Ventoulis, I., Luo, H., Abraham, M. R., Abraham, T. P.
2017; 120 (4): 670-675
- **Strain Echocardiography Parameters Correlate With Disease Severity in Children and Infants With Sepsis** *PEDIATRIC CRITICAL CARE MEDICINE*
Haileselassie, B., Su, E., Pozios, I., Fiskum, T., Thompson, R., Abraham, T.
2016; 17 (5): 383-390
- **Oropharyngeal dermoid cyst in an infant with intermittent airway obstruction. A case report.** *The neuroradiology journal*
Wagner, M. W., Haileselassie, B., Kannan, S., Chen, C., Poretti, A., Tunkel, D. E., Huisman, T. A.
2014; 27 (5): 627-631
- **Fat Embolism: Evolution of Histopathological Changes in the Rat Lung** *JOURNAL OF ORTHOPAEDIC RESEARCH*
McIff, T. E., Poisner, A. M., Herndon, B., Lankachandra, K., Schutt, S., Haileselassie, B., Patel, S., Quinn, T., Adler, F., Molteni, A.
2010; 28 (2): 191-197
- **Left Atrial Strain Predicts Adverse Outcomes in Hypertrophic Cardiomyopathy** *Circulation, American Heart Association's 2018 Scientific Sessions*
Vasquez, ., Ostrander, B., Lu, D., Ventoulis, I., Haileselassie, B., Goyal, S., Vakrou, S., Abraham, T. P., Abraham, R. M.
2018: A17186
- **ROLE OF DRP1/FIS1-MEDIATED MITOCHONDRIAL FRAGMENTATION IN SEPSIS-INDUCED MYOCARDIAL DYSFUNCTION** *Society of Critical Care Medicine Congress*
Haileselassie, B., Joshi, A., Mukherjee, R., Napier, B., Massis, L., Ostberg, N., Monack, D., Bernstein, D., Mochly-Rosen, D.
2019: 21