



Bereketiab Haileselassie

Instructor, Pediatrics - Critical Care

CLINICAL OFFICES

- **Pediatric Intensive Care**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

CLINICAL FOCUS

- Pediatric Critical Care Medicine

ACADEMIC APPOINTMENTS

- Instructor, Pediatrics - Critical Care
- Member, Maternal & Child Health Research Institute (MCHRI)

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

- Residency: University of Washington Pediatric Residency (2013) WA
- Medical Education: University of Missouri Kansas City School of Medicine Registrar (2010) MO
- 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

Our current research is focused on evaluation of cardiac bioenergetics and cardiac mechanics in pediatric sepsis. In particular, we have focused our efforts on the identification of developmental variability in cardiac bioenergetic reserve and mitochondrial oxidative stress in the setting of sepsis. Additionally we explore the role of mitochondrial dynamics in critical illness.

Publications

PUBLICATIONS

- **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., Lutfi, R., Nowak, J., Allen, G. L., Thomas, N. J., Grunwell, et al
2020
- **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
- **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., Andreasson, K. I., Dorn, G. W., Mochly-Rosen, D.
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., Lutfi, R., Nowak, J., 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., Mukherjee, R., Joshi, A. U., Napier, B. A., Massis, L. M., Ostberg, N. P., Queliconi, B. B., Monack, D., Bernstein, D., Mochly-Rosen, D.
2019
- **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
- **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., Ostrander, B. T., Lu, D. Y., Ventoulis, I., Haileselassie, B., Goyal, S., Greenland, G. V., Vakrou, S., 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., Mochly-Rosen, D.
2018; 127: 125–33
- **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
- **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., Boyer, D. L., Haileselassie, B., Petersen, T. L., Su, F., Nishisaki, A.
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): 101–7
- **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-?
- **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): 670–75
- **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: 290–95
- **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