

Stanford

Danton Char

Assistant Professor of Anesthesiology, Perioperative and Pain Medicine (Pediatric) at the Stanford University Medical Center

CLINICAL OFFICES

- **Anesthesia Department**

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Bio

BIO

Dr. Char's K01 from NHGRI examines the ethical challenges of implementing whole genome sequencing in the care of critically ill children, particularly those with congenital cardiac disease. His long-term goal is to continue to identify and address ethical concerns associated with the implementation of next generation technologies to bedside clinical care, like whole genome sequencing and its attendant technologies like machine learning.

CLINICAL FOCUS

- Anesthesia

ACADEMIC APPOINTMENTS

- Assistant Professor - Med Center Line, Anesthesiology, Perioperative and Pain Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Anesthesiology Residency (2011) CA
- Fellowship: UCSF Anesthesiology Fellowships (2010) CA
- Residency: UCSF Anesthesiology Residency (2009) CA
- Medical Education: University of California at San Francisco School of Medicine (2005) CA
- Board Certification: Pediatric Anesthesia, American Board of Anesthesiology (2013)
- Internship: Stanford Hospital and Clinics - Dept of Surgery (2006) CA
- Board Certification: Anesthesia, American Board of Anesthesiology (2010)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Char's research is focused on identifying and addressing ethical concerns associated with the implementation of next generation technologies like whole genome sequencing and its attendant technologies like machine learning to bedside clinical care.

Publications

PUBLICATIONS

- **Use of genetic risks in pediatric organ transplantation listing decisions: A national survey** *PEDIATRIC TRANSPLANTATION*
Graf, M., Char, D., Hanson-Kahn, A., Magnus, D.
2019; 23 (4)
- **Use of genetic risks in pediatric organ transplantation listing decisions: A national survey.** *Pediatric transplantation*
Graf, M., Char, D., Hanson-Kahn, A., Magnus, D.
2019; e13402
- **The Decision to Withdraw in Children With Ventricular Assist Devices** *AMERICAN JOURNAL OF BIOETHICS*
Char, D., Hollander, S. A.
2019; 19 (3): 61–62
- **Surveillance and Digital Health.** *The American journal of bioethics : AJOB*
Martinez-Martin, N., Char, D.
2018; 18 (9): 67–68
- **Implementing Machine Learning in Health Care - Addressing Ethical Challenges** *NEW ENGLAND JOURNAL OF MEDICINE*
Char, D. S., Shah, N. H., Magnus, D.
2018; 378 (11): 981–83
- **Anticipating uncertainty and irrevocable decisions: provider perspectives on implementing whole-genome sequencing in critically ill children with heart disease.** *Genetics in medicine : official journal of the American College of Medical Genetics*
Char, D. S., Lee, S. S., Magnus, D., Cho, M.
2018
- **Genomic Contraindications for Heart Transplantation.** *Pediatrics*
Char, D. S., Lázaro-Muñoz, G., Barnes, A., Magnus, D., Deem, M. J., Lantos, J. D.
2017
- **CPR and Ventricular Assist Devices: The Challenge of Prolonging Life Without Guaranteeing Health.** *American journal of bioethics*
Magnus, D., Char, D.
2017; 17 (2): 1-2
- **The Advance of Rescue Technologies and the Border of Viability.** *The American journal of bioethics : AJOB*
Char, D.
2017; 17 (8): 40–41
- **Pediatric Acute Care Decision Implications of Genetically Discoverable Mental Disorders** *AMERICAN JOURNAL OF BIOETHICS*
Char, D.
2017; 17 (4): 32-33
- **Can Destination Therapy be implemented in children with heart failure? A study of provider perceptions.** *Pediatric transplantation*
Char, D. S., Lee, S. S., Ikoku, A. A., Rosenthal, D., Magnus, D.
2016; 20 (6): 819-824
- **Anesthesia Intraoperative Handoffs: Is Decision Ownership Compatible With Transitions of Care Providers?** *American journal of bioethics*
Char, D.
2016; 16 (9): 19-20
- **Anesthesia for Placement of a Paracorporeal Lung Assist Device and Subsequent Heart-Lung Transplantation in a Child with Suprasystemic Pulmonary Hypertension and End-Stage Respiratory Failure.** *A & A case reports*
Char, D. S., Yarlagaadda, V., Maeda, K., Williams, G.
2016; 6 (10): 308-310
- **Cognitive Dysfunction in Children with Heart Disease: The Role of Anesthesia and Sedation.** *Congenital heart disease*
Char, D., Ramamoorthy, C., Wise-Faberowski, L.

2016; 11 (3): 221-229

- **Accuracy of Pulse Oximeters Intended for Hypoxemic Pediatric Patients.** *Pediatric critical care medicine*
Harris, B. U., Char, D. S., Feinstein, J. A., Verma, A., Shiboski, S. C., Ramamoorthy, C.
2016; 17 (4): 315-320
- **Accuracy of Pulse Oximeters Intended for Hypoxemic Pediatric Patients** *PEDIATRIC CRITICAL CARE MEDICINE*
Harris, B. U., Char, D. S., Feinstein, J. A., Verma, A., Shiboski, S. C., Ramamoorthy, C.
2016; 17 (4): 315-320
- **Supervised Controlled Substance Use.** *American journal of bioethics*
Char, D.
2016; 16 (4): 56-58
- **How should whole-genome sequencing be implemented in children? A consideration of the current limitations** *PERSONALIZED MEDICINE*
Char, D. S.
2016; 13 (1): 33-42
- **How should whole-genome sequencing be implemented in children? A consideration of the current limitations.** *Personalized medicine*
Char, D. S.
2016; 13 (1): 33-42
- **Parental Refusal of Newborn Screening for Congenital Hearing Loss.** *American journal of bioethics*
Char, D.
2016; 16 (1): 33-35
- **Negotiating the dilemma of anaesthesia and sedation in NICUs.** *The Lancet. Respiratory medicine*
Char, D. S.
2015; 3 (10): 741-742
- **Ethics of Disclosure Regarding Drug Shortages That Affect Patient Care.** *Anesthesia and analgesia*
Char, D. S., Magnus, D.
2015; 121 (2): 262-263
- **Whole-genome sequencing in critically ill infants and emerging ethical challenges.** *The Lancet. Respiratory medicine*
Char, D. S.
2015; 3 (5): 333-335
- **Whole genome sequencing in critically ill children.** *The Lancet. Respiratory medicine*
Char, D. S., Cho, M., Magnus, D.
2015; 3 (4): 264-266
- **Preventive Genomic Sequencing and Care of the Individual Patient.** *American journal of bioethics*
Char, D.
2015; 15 (7): 32-33
- **Ethical concerns raised among pediatric heart failure clinicians.** *American journal of bioethics*
Char, D. S.
2015; 15 (5): 36-37
- **Are preoperative B-type natriuretic peptide levels associated with outcome after pulmonary artery banding and the double switch operation in patients with congenitally corrected transposition of the great arteries: A pilot study** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Char, D. S., Shiboski, S. C., Hanley, F. L., Fineman, J. R.
2014; 148 (5): 2434-2436
- **Are preoperative B-type natriuretic peptide levels associated with outcome after pulmonary artery banding and the double switch operation in patients with congenitally corrected transposition of the great arteries: a pilot study.** *journal of thoracic and cardiovascular surgery*
Char, D. S., Shiboski, S. C., Hanley, F. L., Fineman, J. R.
2014; 148 (5): 2434-2436

- **Preoperative B-type natriuretic peptide levels are associated with outcome after total cavopulmonary connection (Fontan).** *journal of thoracic and cardiovascular surgery*
Radman, M., Keller, R. L., Oishi, P., Datar, S. A., Wellnitz, K., Azakie, A., Hanley, F., Char, D., Hsu, J., Amrinovin, R., Adatia, I., Fineman, J. R.
2014; 148 (1): 212-219
- **General anesthesia treatment of propriospinal myoclonus in a patient with fibrodysplasia ossificans progressiva.** *A & A case reports*
Char, D. S., Hutchison, H. T., Kitterman, J. A., Gregory, G. A.
2014; 3 (1): 6-8
- **Unintended effects on morale of mandatory postincident testing.** *American journal of bioethics*
Char, D. S.
2014; 14 (12): 42-44
- **The effects of ketamine on dexmedetomidine-induced electrophysiologic changes in children.** *Paediatric anaesthesia*
Char, D., Drover, D. R., Motonaga, K. S., Gupta, S., Miyake, C. Y., Dubin, A. M., Hammer, G. B.
2013; 23 (10): 898-905
- **Volatile anesthetic rescue therapy in children with acute asthma: innovative but costly or just costly?*** *Pediatric critical care medicine*
Char, D. S., Ibsen, L. M., Ramamoorthy, C., Bratton, S. L.
2013; 14 (4): 343-350
- **Case report: airway and concurrent hemodynamic management in a neonate with oculo-auriculo-vertebral (Goldenhar) syndrome, severe cervical scoliosis, interrupted aortic arch, multiple ventricular septal defects, and an unstable cervical spine** *PEDIATRIC ANESTHESIA*
Char, D. S., Gipp, M., Boltz, M. G., Williams, G. D.
2012; 22 (9): 932-934