

Stanford



Anoop Rao

Clinical Assistant Professor, Pediatrics - Neonatal and Developmental Medicine

CLINICAL OFFICES

- **Neonatal Intensive Care Unit**

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Bio

BIO

Clinical Neonatologist, Clinical Informaticist, > 5 years of Industry experience with primary research focus on health tech innovation, medical devices (wearable sensors, non-invasive sensing), global health (affordable, low-cost medical device development)

CLINICAL FOCUS

- Clinical Informatics
- Health Tech Innovation
- Medical Device Validation
- Neonatal-Perinatal Medicine

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Pediatrics - Neonatal and Developmental Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Reviewer, Fulbright Campus Committee, (2020- present)
- Reviewer, Stanford MD, Pediatrics Residency and Neonatology fellowship admissions, (2019- present)
- Advisor, Stanford Health Innovations & Future Technologies, (2018- present)

HONORS AND AWARDS

- SBIR Phase 2 (R44) Grant, NIH (NICHD)
- SBIR Phase 1 (R43) Grant, NIH (NICHD)
- CE Grant, Maternal and Child Health Research Institute, Stanford
- Moskowitz Scholar, Mayo Clinic
- Artificial Intelligence in Medicine and Equity Grant, Robert Wood Johnson Foundation & Stanford, Department of Medicine
- Marshall Klaus Perinatal Award, American Academy of Pediatrics

- Innovators in General Pediatrics, Packard Foundation
- mHealth platform for Maternal/Child Health Grant, .
- CATCH Grant, American Academy of Pediatrics
- MIT \$50/100K Entrepreneurship Competition, Winner, MIT, Cambridge

PROFESSIONAL EDUCATION

- Board Certification: Neonatal-Perinatal Medicine, American Board of Pediatrics (2020)
- Board Certification, American Board of Pediatrics , Neonatology
- Board Certification, American Board of Pediatrics , Pediatrics
- Board Certification, American Board of Preventive Medicine , Clinical Informatics
- Fellowship, Stanford University , Healthcare Design
- Fellowship, Stanford University School of Medicine, Palo Alto, CA , Neonatology
- Fellowship, Harvard Medical School - Massachusetts General Hospital, Boston, MA , Biomedical Informatics
- Residency, Columbia University Medical Center, New York, NY , Pediatrics
- MS, Massachusetts Institute of Technology , Biological Engg/Toxicology
- MBBS, Kasturba Medical College, India , Medicine, Surgery

COMMUNITY AND INTERNATIONAL WORK

- India NeoDesign Network

PATENTS

- "United States Patent 8999242 Method and apparatus for monitoring alteration of flow characteristics in a liquid sample", Apr 7, 2015
- "United States Patent US20100000862A1 Integrated Blood Glucose Measurement Device", Apr 30, 2014
- "United States Patent US20100249965A1 Integrated Blood Glucose Measurement Device", May 1, 2009
- "United States Patent US20100000862A1 Integrated Blood Glucose Measurement Device", Jul 7, 2008

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Wearable sensors, unobtrusive vital sign monitoring, natural language processing/text mining

PROJECTS

- Non-invasive continuous BP monitoring using wearable sensors - Lucile Packard Children's Hospital
- NICU of the Future (unobtrusive neonatal sensing)

Publications

PUBLICATIONS

- **Influence of enteral feeding and anemia on tissue oxygen extraction after red blood cell transfusion in preterm infants.** *Transfusion*
Goldstein, G. P., Rao, A. n., Ling, A. Y., Ding, V. Y., Chang, I. J., Chock, V. Y.
2020
- **Liver Failure and Rash in a 6-week-old Girl** *PEDIATRICS IN REVIEW*
Mediratta, R., Schwenk, H., Rao, A., Chitkara, R.
2018; 39 (6): 315–U22

- **Comparing two anesthesia information management system user interfaces: a usability evaluation** *CANADIAN JOURNAL OF ANESTHESIA-JOURNAL CANADIEN D ANESTHESIE*
Wanderer, J. P., Rao, A. V., Rothwell, S. H., Ehrenfeld, J. M.
2012; 59 (11): 1023-1031
- **Evolution of data management tools for managing self-monitoring of blood glucose results: a survey of iPhone applications.** *Journal of diabetes science and technology*
Rao, A., Hou, P., Golnik, T., Flaherty, J., Vu, S.
2010; 4 (4): 949-957
- **Individuals achieve more accurate results with meters that are codeless and employ dynamic electrochemistry.** *Journal of diabetes science and technology*
Rao, A., Wiley, M., Iyengar, S., Nadeau, D., Carnevale, J.
2010; 4 (1): 145-150
- **A simple approach for the computation of multiple periodicities in biological time series** *BIOLOGICAL RHYTHM RESEARCH*
Rao, A. V., Sharma, V. K.
2002; 33 (5): 487-502