



Satyan Lakshminrusimha, M.D.

Philosophy of Care

Dr. Lakshminrusimha's philosophy of care is to provide every neonate, infant and child with evidence based, nurturing family centered care, enabling them to thrive and develop to their fullest potential; to invest in research that improves our understanding of human biology and leads to new discoveries that result in better outcomes for patients; to mentor the next generation of health care providers and researchers to achieve these goals.

Clinical Interests

Dr. Satyan Lakshminrusimha is a Neonatologist offering care to term and preterm newborn infants. He has special interest in disorders of neonatal transition such as persistent pulmonary hypertension of the newborn (PPHN). His research focus is on neonatal resuscitation and role of oxygen in regulating pulmonary vascular resistance.

Research/Academic Interests

Dr. Lakshminrusimha's research focuses on neonatal resuscitation, oxygen and nitric oxide and their role in regulation of pulmonary vascular resistance and value and evidence based management.

Title

Dennis and Nancy Marks Endowed Chair in Pediatrics
Pediatrician-in-Chief, UC Davis Children's Hospital
Professor, Department of Pediatrics

Specialty

Pediatrics, Neonatal-Perinatal Medicine

Department

[Pediatrics](#)

Division

Neonatology

Center/Program Affiliation

[UC Davis Children's Hospital](#)

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Languages

Kannada, Telugu

Education

M.D., Mysore Medical College, University of Mysore, India 1988

Internships

Surgery-Pediatrics and Obstetrics & Gynecology, K.R. Hospital, Mysore Medical College, India 1988-1989

Residency

Pediatrics, Cheluvamba Hospital for Women and Children, University of Mysore, India 1991-1994



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Pediatrics, Brooklyn Hospital Center, New York University, New York NY 1994-1996

Fellowships Neonatal-Perinatal Medicine, Children's Hospital of Buffalo, Buffalo NY 1996-1999

Board Certifications American Board of Pediatrics, 2013
American Board of Pediatrics, Neonatal-Perinatal Medicine, 2015

Professional Memberships American Academy of Pediatrics- Fellow
American Board of Pediatrics Sub board of Neonatal Perinatal Medicine
American Pediatric Society
Eastern Society for Pediatric Research
Indian Academy of Pediatrics
Society for Pediatric Research
Steering Committee AAP Neonatal Resuscitation Program

Honors and Awards Pediatric Academic societies (PAS), Annual lung club keynote speaker: The lung club is the annual gathering of physicians, scientists and trainees interested in the field of pulmonology, neonatology and critical care with one speaker every year for the past 30 years., 2017
Mentor of the Year Award, In recognition of sustained excellence as an educator and mentor of medical students, pediatricians-in-training, and pediatrics faculty, The Eastern Society for Pediatric Research meeting, 2016
Best Doctors in America, 2007-2012
Faculty Young Investigator Award at Eastern Society for Pediatric Research meeting, Philadelphia PA, 2008

Select Recent Publications Chandrasekharan P, Vali P, Rawat M, Mathew B, Gugino SF, Koenigsnecht C, Helman J, Nair J, Berkelhamer S, Lakshminrusimha S. Continuous capnography monitoring during resuscitation in a transitional large mammalian model of asphyxial cardiac arrest. *Pediatr Res.* 2017 Jun;81(6):898-904.

Vali P, Chandrasekharan P, Rawat M, Gugino S, Koenigsnecht C, Helman J, Jusko WJ, Mathew B, Berkelhamer S, Nair J, Wyckoff MH, Lakshminrusimha S. Evaluation of Timing and Route of Epinephrine in a Neonatal Model of Asphyxial Arrest. *J Am Heart Assoc.* 2017 Feb 18;6(2).

Mathew B, D'Angelis CA, Lakshminrusimha S, Nickerson PA, Sokolowski JJ, Kumar VHS, Wang H,



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Wynn KA, Holm BA, Ryan RM. Natriuretic peptide C receptor in the developing sheep lung: role in perinatal transition. *Pediatr Res*. 2017 Aug;82(2):349-355.

Chandrasekharan PK, Rawat M, Madappa R, Rothstein DH, Lakshminrusimha S. Congenital Diaphragmatic hernia - a review. *Matern Health Neonatol Perinatol*. 2017 Mar 11;3:6.

Vali P, Chandrasekharan P, Rawat M, Gugino S, Koenigskecht C, Helman J, Mathew B, Berkelhamer S, Nair J, Wyckoff M, Lakshminrusimha S. Hemodynamics and gas exchange during chest compressions in neonatal resuscitation. *PLoS One*. 2017 Apr 25;12(4):e0176478.

Chandrasekharan P, Lakshminrusimha S. The effectiveness of oral dextrose gel for the treatment of neonatal hypoglycaemia remains unclear. *Evid Based Nurs*. 2017 Jul;20(3):80-81.

Fernandes N, Short B, Manja V, Lakshminrusimha S. Critical Congenital Heart Disease Screening in NICU: Need for Revision and Standardization. *Am J Perinatol*. 2017 Dec;34(14):1470-1476.

Vali P, Chandrasekharan P, Rawat M, Gugino S, Koenigskecht C, Helman J, Mathew B, Berkelhamer S, Nair J, Lakshminrusimha S. Continuous Chest Compressions During Sustained Inflations in a Perinatal Asphyxial Cardiac Arrest Lamb Model. *Pediatr Crit Care Med*. 2017 Aug;18(8):e370-e377.

Mathew B, Lakshminrusimha S. Persistent Pulmonary Hypertension in the Newborn. *Children (Basel)*. 2017 Jul 28;4(8). pii: E63.

Vali P, Mathew B, Lakshminrusimha S. In quest of epinephrine's optimal route and dose in neonatal cardiopulmonary resuscitation-are we there yet? *J Pediatr*. 2017 Oct;189:239.



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