



Satyan Lakshminrusimha, M.D., M.B.B.S.

Philosophy of Care

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. Lakshminrusimha is a pediatric neonatologist interested in neonatal resuscitation, persistent pulmonary hypertension of the newborn, early detection of critical congenital heart disease and neonatal respiratory diseases using pulse oximetry and other indices of oxygenation.

Research/Academic Interests

Dr. Lakshminrusimha is a neonatologist focusing his research on understanding the pathophysiology of neonatal transition and evaluating the science behind neonatal resuscitation to develop new techniques to improve efficacy of resuscitation in resource-limited settings. His grants focus on optimal oxygenation in lung injury and pulmonary hypertension.

Title

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

Specialty

Neonatology

Department

[Pediatrics](#)

Division

Fetal Care and Treatment Center
Neonatology

Center/Program Affiliation

[UC Davis Children's Hospital](#)

Address/Phone

UC Davis Children's Hospital, NICU, 2315 Stockton Blvd. Sacramento, CA 95817
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Physician Referrals: 800-4-UCDAVIS (800-482-3284)

Education

M.D., Government Medical College, Mysore, Karnataka, India 1994
M.B.B.S., Pediatrics, Obstetrics & Gynecology and Surgery Pediatrics, Government Medical College, Mysore, Karnataka, India 1990

Residency

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

Fellowships

Neonatal-Perinatal Medicine, State University of New York at Buffalo, Buffalo NY 1996-1999



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Board Certifications

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

Professional Memberships

American Academy of Pediatrics
American Board of Pediatrics
American Board of Pediatrics Sub board of Neonatal Perinatal Medicine
American Pediatric Society
Society for Pediatric Research
Society of Neonatal Perinatal Medicine

Honors and Awards

The 7th annual Robert B. Cotton lecture, Vanderbilt University, 2021
Usher Memorial Lecture, McGill University Montreal, 2019
2017 Pediatric Academic Societies (PAS), annual lung club keynote speaker, 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” at the Eastern Society for Pediatric Research meeting, 2016
Faculty Young Investigator Award at Eastern Society for Pediatric Research meeting, Philadelphia, 2008

Select Recent Publications

Access current list at: <https://pubmed.ncbi.nlm.nih.gov/?term=Lakshminrusimha%26amp%3Bsort=date>

Siefkes HM, Lakshminrusimha S. Management of systemic hypotension in term infants with persistent pulmonary hypertension of the newborn: an illustrated review. Arch Dis Child Fetal Neonatal Ed. 2021 Jul;106(4):446-455. doi:10.1136/archdischild-2020-319705. Epub 2021 Jan 21. PMID:33478959.

Lakshminrusimha S. Neonatal and Postneonatal Pulmonary Hypertension. Children (Basel). 2021 Feb 11;8(2):131. doi:10.3390/children8020131. PMID:33670256.

Agarwal P, Shankaran S, Laptook AR, Chowdhury D, Lakshminrusimha S, Bonifacio SL, Natarajan G, Chawla S, Keszler M, Heyne RJ, Ambalavanan N, Walsh MC, Das A, Van Meurs KP; Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) Neonatal Research Network. Outcomes of infants with hypoxic ischemic encephalopathy and persistent



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pulmonary hypertension of the newborn: results from three NICHD studies. *J Perinatol.* 2021 Mar; 41(3):502-511. doi:10.1038/s41372-020-00905-7. Epub 2021 Jan 6. PMID:33402707.

Mouradian GC Jr, Lakshminrusimha S, Konduri GG. Perinatal Hypoxemia and Oxygen Sensing. *Compr Physiol.* 2021 Apr 1;11(2):1653-1677. doi:10.1002/cphy.c190046. PMID:33792908.

Kumbhat N, Eggleston B, Davis AS, Van Meurs KP, DeMauro SB, Foglia EE, Lakshminrusimha S, Walsh MC, Watterberg KL, Wyckoff MH, Das A, Handley SC; Generic Database Subcommittee of the NICHD Neonatal Research Network; undefined. Placental transfusion and short-term outcomes among extremely preterm infants. *Arch Dis Child Fetal Neonatal Ed.* 2021 Jan;106(1):62-68. doi: 10.1136/archdischild-2019-318710. Epub 2020 Jul 30. PMID:32732380.

Sankaran D, Chandrasekharan PK, Gugino SF, Koenigsknecht C, Helman J, Nair J, Mathew B, Rawat M, Vali P, Nielsen L, Tancredi DJ, Lakshminrusimha S. Randomised trial of epinephrine dose and flush volume in term newborn lambs. *Arch Dis Child Fetal Neonatal Ed.* 2021 Nov;106(6):578-583. doi:10.1136/archdischild-2020-321034. Epub 2021 Mar 9. PMID:33687959.

Alhassen Z, Vali P, Guglani L, Lakshminrusimha S, Ryan RM. Recent Advances in Pathophysiology and Management of Transient Tachypnea of Newborn. *J Perinatol.* 2021;41(1):6-16. doi:10.1038/s41372-020-0757-3.

Saugstad OD, Lakshminrusimha S, Vento M. Reply. *J Pediatr.* 2021 Feb;229:309-310. doi:10.1016/j.jpeds.2020.11.018. Epub 2020 Nov 13. PMID:33197490.

Konduri GG, Lakshminrusimha S. Surf early to higher tides: surfactant therapy to optimize tidal volume, lung recruitment, and iNO response. *J Perinatol.* 2021 Jan;41(1):1-3. doi:10.1038/s41372-020-0764-4. Epub 2020 Aug 13. PMID:32792634.



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Kumbhat N, Eggleston B, Davis AS, DeMauro SB, Van Meurs KP, Foglia EE, Lakshminrusimha S, Walsh MC, Watterberg KL, Wyckoff MH, Das A, Handley SC,. Umbilical Cord Milking vs Delayed Cord Clamping and Associations with In-Hospital Outcomes among Extremely Premature Infants. The Journal of Pediatrics, 2021 ;232: 87-94.e4.

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