Brian David Goudy, M.D.

Philosophy of Care

It is my privilege to care for sick children and to support both children and their families during life-threatening and critical illness. I strive to provide care for children and their families in a compassionate and evidence-based fashion while working with a multidisciplinary and caring team made up of physicians, nurses, and many other support staff.

Clinical Interests

Dr. Goudy is a pediatric critical care physician who provides clinical services for critically ill pediatric patients in a tertiary pediatric intensive care unit (PICU) and pediatric cardiac intensive care unit (PCICU). In this clinical arena, Dr. Goudy leads a specialized team to help recognize, resuscitate, stabilize, and provide ongoing care for infants and children with life-threatening illnesses.

Research/Academic Interests

Pulmonary hypertension is a severe disease marked by increased pressure in the blood vessels within the lungs. Particularly common in premature infants and those with congenital heart disease, longstanding untreated pulmonary hypertension leads to respiratory and heart failure. As director of the pediatric pulmonary hypertension program at UC Davis, Dr. Goudy helps evaluate and manage children with this debilitating illness. The multidisciplinary pulmonary hypertension team includes members from pediatric cardiology, pulmonology, neonatology, critical care, cardiothoracic surgery, and pharmacy.

Title

Associate Clinical Professor

Specialty

Pediatric Critical Care

Department

Pediatrics

Division

Pediatric Critical Care

Center/Program Affiliation

UC Davis Children's Hospital

Address/Phone

UC Davis Children's Hospital, 2315 Stockton Blvd. Sacramento, CA 95817
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Clinic Phone: 800-2-UCDAVIS (800-282-3284)
Clinic Phone: 800-UCD-4-KIDS
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Education

M.D., University of Minnesota, Minneapolis MN 2012
B.A., University of Colorado, Boulder CO 2004

Internships

Pediatrics, UC San Francisco, San Francisco CA 2013-2014

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Residency Pediatrics, UC San Francisco, San Francisco CA 2014-2016

Fellowships Pediatric Critical Care, UC San Francisco, San Francisco CA 2016-2019

Board Certifications American Board of Pediatrics

Professional Memberships
American Academy of Pediatrics
Pediatric Critical Care Medicine
Society for Critical Care Medicine

Select Recent Publications

Boehme J, Le Moan N, Kameny RJ, Loucks A, Johengen MJ, Lesneski AL, Gong W, Goudy BD, Davis T, Tanaka K, Davis A, He Y, Long-Boyle J, Ivaturi V, Gobburu JVS, Winger JA, Cary SP, Datar SA, Fineman JR, Krtolica A, Maltepe E. Preservation of myocardial contractility during acute hypoxia with OMX-CV, a novel oxygen delivery biotherapeutic. PLoS Biol. 2018 Oct 18;16(10): e2005924. doi:10.1371/journal.pbio.2005924. Erratum in: PLoS Biol. 2019 Jan 24;17(1): e3000119. PMID:30335746.

Johnson Kameny R, Datar SA, Boehme JB, Morris C, Zhu T, Goudy BD, Johnson EG, Galambos C, Raff GW, Sun X, Wang T, Chiacchia SR, Lu Q, Black SM, Maltepe E, Fineman JR. Ovine Models of Congenital Heart Disease and the Consequences of Hemodynamic Alterations for Pulmonary Artery Remodeling. Am J Respir Cell Mol Biol. 2019 May;60(5):503-514. doi:10.1165/rcmb.2018-0305MA. PMID:30620615.

Haasken S, Auger JL, Taylor JJ, Hobday PM, Goudy BD, Titcombe PJ, Mueller DL, Binstadt BA. Macrophage scavenger receptor 1 (Msr1, SR-A) influences B cell autoimmunity by regulating soluble autoantigen concentration. J Immunol. 2013 Aug 1;191(3):1055-62. doi:10.4049 /jimmunol.1201680. Epub 2013 Jun 21. PMID:23794629.

Fischer UB, Jacovetty EL, Medeiros RB, Goudy BD, Zell T, Swanson JB, Lorenz E, Shimizu Y, Miller MJ, Khoruts A, Ingulli E. MHC class II deprivation impairs CD4 T cell motility and responsiveness to antigen-bearing dendritic cells in vivo. Proc Natl Acad Sci U S A. 2007 Apr 24;104(17):7181-6. doi:10.1073/pnas.0608299104. Epub 2007 Apr 13. PMID:17435166.

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Goudy BD, Datar SA, Fineman JR. Hypoxia-Inducible Factor and Developmental Control of Smooth Muscle Cells in the Ductus Arteriosus. Fifth Annual Neonatal Cardiopulmonary Biology Young Investigators Forum, Chicago IL. 2018 Sep 3–5.

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