



Alexis Davis

- Clinical Associate Professor, Pediatrics - Neonatal and Developmental Medicine
- Clinical Associate Professor (By courtesy), Obstetrics & Gynecology - Maternal Fetal Medicine

CLINICAL OFFICES

- **Neonatal Intensive Care Unit**

725 Welch Rd

Palo Alto, CA 94304

Tel (650) 497-8800

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Rocio Novo - Clinical Operations Administrator

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Tel 650-723-5711

Bio

CLINICAL FOCUS

- Neonatal-Perinatal Medicine
- Prenatal diagnosis and counseling for fetal anomalies

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Pediatrics - Neonatal and Developmental Medicine
- Clinical Associate Professor (By courtesy), Obstetrics & Gynecology - Maternal Fetal Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Associate Chief for Clinical Affairs, Division of Neonatal and Developmental Medicine, Stanford University, (2018- present)
- Medical Director, Neonatal Intensive Care Unit, Lucile Packard Children's Hospital Stanford, (2016- present)
- Associate Director for Neonatal Services, Pregnancy and Fetal Health Program, Lucile Packard Children's Hospital Stanford, (2015- present)
- Associate Director for Education, Division of Neonatal-Developmental Medicine, Stanford University, (2008-2014)

HONORS AND AWARDS

- Mentored Specialized Clinical Investigator Development Award, NIH/NICHD Neonatal Research Network (2007-2010)
- Loan Repayment Program Recipient, National Institutes of Health (2004-2007)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- District IX representative, Section on Neonatal and Perinatal Medicine (2018 - present)
- Co-Chair, Executive Committee, MidCaN group, Section on Neonatal and Perinatal Medicine (2017 - present)

PROFESSIONAL EDUCATION

- Residency: Stanford Health Care at Lucile Packard Children's Hospital (2002) CA
- Internship: Stanford Health Care at Lucile Packard Children's Hospital (2000) CA

- Fellowship: Stanford University Neonatology Fellowship (2006) CA
- MS, Stanford University , Clinical Epidemiology (2010)
- Board Certification: Neonatal-Perinatal Medicine, American Board of Pediatrics (2008)
- Board Certification: Pediatrics, American Board of Pediatrics (2002)
- Medical Education: Ohio State University College of Medicine Registrar (1999) OH
- MD, The Ohio State University (1999)
- MS, Stanford University , Biological Sciences (1995)
- BS, Stanford University , Biological Sciences (1994)

Research & Scholarship

CLINICAL TRIALS

- Cerebral Function Monitoring in Premature Infants, Not Recruiting
- Optimizing (Longer, Deeper) Cooling for Neonatal Hypoxic-Ischemic Encephalopathy(HIE), Not Recruiting

Publications

PUBLICATIONS

- **Spinal Muscular Atrophy Type 1: Fetal Diagnosis, Prenatal Coordination, and Postnatal Management in the Era of Novel Therapies.** *NeoReviews*
Chitkara, R., Chock, V., Davis, A., Rocha, C. T., Day, J. W., Fluharty, B., Hintz, S.
2022; 23 (7): e520-e526
- **Active treatment of infants born at 22-25 weeks of gestation in California, 2011-2018.** *The Journal of pediatrics*
Chen, X., Lu, T., Gould, J., Hintz, S. R., Lyell, D. J., Xu, X., Sie, L., Rysavy, M., Davis, A. S., Lee, H. C.
2022
- **Implementation of a Bedside Point-of-Care Ultrasound Program in a Large Academic Neonatal Intensive Care Unit.** *American journal of perinatology*
Pai, V. V., Noh, C. Y., Dasani, R., Vallandingham, S., Manipon, C., Haileselassie, B., Profit, J., Balasundaram, M., Davis, A. S., Bhombal, S.
2022
- **The effects of betamethasone on the amplitude integrated EEG of infants born at 34- or 35-weeks gestation.** *Journal of perinatology : official journal of the California Perinatal Association*
Laptook, A. R., Chalak, L., Pappas, A., Davis, A., Sanchez, P. J., Van Meurs, K. P., Oh, W., Sommers, R., Shankaran, S., Hensman, A. M., Rouse, D. J., McDonald, S., Das, et al
2022
- **Standardized Evaluation of Cord Gases in Neonates at Risk for Hypoxic Ischemic Encephalopathy.** *Hospital pediatrics*
Blecharczyk, E., Lee, L., Birnie, K., Gupta, A., Davis, A., Van Meurs, K., Bonifacio, S., Frymoyer, A.
2021
- **Association Between Increased Seizures During Rewarming After Hypothermia for Neonatal Hypoxic Ischemic Encephalopathy and Abnormal Neurodevelopmental Outcomes at 2-Year Follow-up: A Nested Multisite Cohort Study.** *JAMA neurology*
Chalak, L. F., Pappas, A., Tan, S., Das, A., Sánchez, P. J., Laptook, A. R., Van Meurs, K. P., Shankaran, S., Bell, E. F., Davis, A. S., Heyne, R. J., Pedroza, C., Poindexter, et al
2021; 78 (12): 1484-1493
- **Association of Increased Seizures During Rewarming With Abnormal Neurodevelopmental Outcomes at 2-Year Follow-up: A Nested Multisite Cohort Study.** *JAMA neurology*
Chalak, L. F., Pappas, A., Tan, S., Das, A., Sanchez, P. J., Laptook, A. R., Van Meurs, K. P., Shankaran, S., Bell, E. F., Davis, A. S., Heyne, R. J., Pedroza, C., Poindexter, et al
2021
- **Randomized controlled trial of the "WISER" intervention to reduce healthcare worker burnout.** *Journal of perinatology : official journal of the California Perinatal Association*

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- Profit, J., Adair, K. C., Cui, X., Mitchell, B., Brandon, D., Tawfik, D. S., Rigdon, J., Gould, J. B., Lee, H. C., Timpson, W. L., McCaffrey, M. J., Davis, A. S., Pammi, et al
2021
- **Randomized controlled trial of the "WISER" intervention to reduce healthcare worker burnout** *JOURNAL OF PERINATOLOGY*
Profit, J., Adair, K. C., Cui, X., Mitchell, B., Brandon, D., Tawfik, D. S., Rigdon, J., Gould, J. B., Lee, H. C., Timpson, W. L., McCaffrey, M. J., Davis, A. S., Pammi, et al
2021
 - **Personal and Professional Factors Associated With Work-Life Integration Among US Physicians.** *JAMA network open*
Tawfik, D. S., Shanafelt, T. D., Dyrbye, L. N., Sinsky, C. A., West, C. P., Davis, A. S., Su, F., Adair, K. C., Trockel, M. T., Profit, J., Sexton, J. B.
2021; 4 (5): e2111575
 - **Increasing Length of Stay in the NICU for Premature Newborns: Good or Bad?** *Pediatrics*
Arnold, C., Davis, A. S.
2021
 - **Umbilical Cord Milking versus Delayed Cord Clamping and Associations with In-Hospital Outcomes among Extremely Premature Infants.** *The Journal of pediatrics*
Kumbhat, N. n., Eggleston, B. n., Davis, A. S., DeMauro, S. B., Van Meurs, K. P., Foglia, E. E., Lakshminrusimha, S. n., Walsh, M. C., Watterberg, K. L., Wyckoff, M. H., Das, A. n., Handley, S. C.
2021
 - **A Fetal Risk Stratification Pathway for Neonatal Aortic Coarctation Reduces Medical Exposure.** *The Journal of pediatrics*
Maskatia, S. A., Kwiatkowski, D., Bhombal, S., Davis, A. S., McElhinney, D. B., Tacy, T. A., Algaze, C., Blumenfeld, Y., Quirin, A., Punn, R.
2021
 - **ASSESSMENT OF ULTRASOUND-GUIDED PERIPHERAL ARTERIAL LINE PLACEMENT IN INFANTS AFTER IMPLEMENTATION OF A BEDSIDE ULTRASOUND PROGRAM**
Dasani, R., Pai, V., Vallandingham, S., Noh, C., Davis, A., Bhombal, S.
BMJ PUBLISHING GROUP.2021: 212
 - **Limitations of Conventional Magnetic Resonance Imaging as a Predictor of Death or Disability Following Neonatal Hypoxic-Ischemic Encephalopathy in the Late Hypothermia Trial.** *The Journal of pediatrics*
Laptook, A. R., Shankaran, S., Barnes, P., Rollins, N., Do, B. T., Parikh, N. A., Hamrick, S., Hintz, S. R., Tyson, J. E., Bell, E. F., Ambalavanan, N., Goldberg, R. N., Pappas, et al
2020
 - **Neonates in the COVID-19 pandemic.** *Pediatric research*
Molloy, E. J., Lavizzari, A., Klingenberg, C., Profit, J., Zupancic, J. A., Davis, A. S., Mosca, F., Bearer, C. F., Roehr, C. C., International Neonatal COVID-19 Consortium, Bassler, D., Burn-Murdoch, J., Danhaive, O., et al
2020
 - **Outcomes Following Post-Hemorrhagic Ventricular Dilatation among Extremely Low Gestational Age Infants.** *The Journal of pediatrics*
Shankaran, S., Bajaj, M., Natarajan, G., Saha, S., Pappas, A., Davis, A. S., Hintz, S. R., Adams-Chapman, I., Das, A., Bell, E. F., Stoll, B. J., Walsh, M. C., Laptook, et al
2020
 - **International comparison of guidelines for managing neonates at the early phase of the SARS-CoV-2 pandemic.** *Pediatric research*
Lavizzari, A. n., Klingenberg, C. n., Profit, J. n., Zupancic, J. A., Davis, A. S., Mosca, F. n., Molloy, E. J., Roehr, C. C.
2020
 - **Effects of gestational age at delivery and type of labor on neonatal outcomes among infants with gastroschisis.** *The journal of maternal-fetal & neonatal medicine : the official journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstetricians*
Girsen, A. I., Davis, A. S., Hintz, S. R., Fluharty, E., Sherwin, K., Trepman, P., Desai, A., Mansour, T., Sylvester, K. G., Oshiro, B., Blumenfeld, Y. J.
2019: 1-191
 - **Prenatally diagnosed omphalocele: characteristics associated with adverse neonatal outcomes.** *Journal of perinatology : official journal of the California Perinatal Association*
Chock, V. Y., Davis, A. S., Cho, S., Bax, C., Fluharty, E., Weigel, N., Homeyer, M., Hudgins, L., Jones, R., Rubesova, E., Sylvester, K. G., Blumenfeld, Y. J., Hintz, et al
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2019

● **IMPACT OF CARDIAC ALGORITHM ON CYTOGENETIC TESTING**

Floyd, B. J., Hintz, S. R., Suarez, C. J., Cherry, A., Yu, L., Benitz, W., Priest, J. R., Wright, G. E., Bhombal, S., Davis, A., Chock, V. Y., Weigel, N., Kobayashi, et al
BMJ PUBLISHING GROUP.2019: 207

● **Is prophylaxis with early low-dose hydrocortisone in very preterm infants effective in preventing bronchopulmonary dysplasia?** *Journal of perinatology : official journal of the California Perinatal Association*

Kumbhat, N. n., Davis, A. S., Benitz, W. E.
2019

● **Obstetric and neonatal outcomes in pregnancies complicated by fetal lung masses: does final histology matter?** *The journal of maternal-fetal & neonatal medicine : the official journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstetricians*

Anderson, J. N., Girsen, A. I., Hintz, S. R., El-Sayed, Y. Y., Davis, A. S., Barth, R. A., Halabi, S. n., Hazard, F. K., Sylvester, K. G., Bruzoni, M. n., Blumenfeld, Y. J.
2019: 1–7

● **Obstetric and neonatal outcomes in pregnancies complicated by fetal lung masses: does final histology matter?**

Anderson, J. N., Girsen, A. I., Hintz, S. R., El-Sayed, Y. Y., Davis, A. S., Barth, R. A., Halabi, S., Sylvester, K. G., Bruzoni, M., Blumenfeld, Y. J.
MOSBY-ELSEVIER.2019: S151

● **Utility of prenatal MRI in the evaluation and management of fetal ventriculomegaly.** *Journal of perinatology : official journal of the California Perinatal Association*

Katz, J. A., Chock, V. Y., Davis, A. S., Blumenfeld, Y. J., Hahn, J. S., Barnes, P., Barth, R. A., Rubesova, E., Hintz, S. R.
2018

● **Development of a NeuroNICU with a Broader Focus on All Newborns at Risk of Brain Injury: The First 2 Years.** *American journal of perinatology*

Van Meurs, K. P., Yan, E. S., Randall, K. S., Chock, V. Y., Davis, A. S., Glennon, C. S., Clark, C. L., Wusthoff, C. J., Bonifacio, S. L.
2018

● **Outcome and Treatment of Antenatally Diagnosed Nonimmune Hydrops Fetalis** *FETAL DIAGNOSIS AND THERAPY*

Nassr, A. A., Ness, A., Hosseinzadeh, P., Salmanian, B., Espinoza, J., Berger, V., Werner, E., Erfani, H., Welty, S., Bateni, Z. H., Shamshirsaz, A. A., Popek, E., Ruano, et al
2018; 43 (2): 123–28

● **NEONATAL HYPERBILIRUBINEMIA AFTER MECHANICAL CIRCULATORY SUPPORT**

Bhombal, S., Dasani, R., Davis, A., Axelrod, D. M., Wong, R. J., Bhutani, V. K.
BMJ PUBLISHING GROUP.2018: 164–65

● **Relationship of Hospital Staff Coverage and Delivery Room Resuscitation Practices to Birth Asphyxia.** *American journal of perinatology*

Tu, J. H., Profit, J., Melsop, K., Brown, T., Davis, A., Main, E., Lee, H. C.
2017; 34 (3): 259-263

● **Utility of third trimester sonographic measurements for predicting SGA in cases of fetal gastroschisis.** *Journal of perinatology*

Blumenfeld, Y. J., Do, S., Girsen, A. I., DAVIS, A. S., Hintz, S. R., Desai, A. K., Mansour, T., Merritt, T. A., Oshiro, B. T., El-Sayed, Y. Y., Shamshirsaz, A. A., Lee, H. C.
2017

● **Prediction of neonatal respiratory distress in pregnancies complicated by fetal lung masses.** *Prenatal diagnosis*

Girsen, A. I., Hintz, S. R., Sammour, R., Naqvi, A., El-Sayed, Y. Y., Sherwin, K., Davis, A. S., Chock, V. Y., Barth, R. A., Rubesova, E., Sylvester, K. G., Chitkara, R., Blumenfeld, et al
2017

● **HDlive imaging of a giant omphalocele.** *Ultrasound in obstetrics & gynecology*

Blumenfeld, Y. J., E Milan, K., Rubesova, E., Sylvester, K. G., DAVIS, A. S., Chock, V. Y., Hintz, S. R.
2016; 48 (3): 407-408

● **Prenatally Diagnosed Cases of Binder Phenotype Complicated by Respiratory Distress in the Immediate Postnatal Period.** *Journal of ultrasound in medicine*

- Blumenfeld, Y. J., Davis, A. S., Hintz, S. R., Milan, K., Messner, A. H., Barth, R. A., Hudgins, L., Chueh, J., Homeyer, M., Bernstein, J. A., Enns, G., Atwal, P., Manning, et al
2016; 35 (6): 1353-1358
- **Perinatal Neuroprotection for Extremely Preterm Infants** *AMERICAN JOURNAL OF PERINATOLOGY*
Davis, A. S., Berger, V. K., Chock, V. Y.
2016; 33 (3): 290-296
 - **Effect of antepartum meconium staining on perinatal and neonatal outcomes among pregnancies with gastroschisis.** *journal of maternal-fetal & neonatal medicine*
Girsen, A. I., Wallenstein, M. B., Davis, A. S., Hintz, S. R., Desai, A. K., Mansour, T., Merritt, T. A., Druzin, M. L., Oshiro, B. T., Blumenfeld, Y. J.
2016; 29 (15): 2500-2504
 - **Amplitude-integrated electroencephalography: a survey of practices in the United States.** *American journal of perinatology*
Shah, N. A., Van Meurs, K. P., Davis, A. S.
2015; 32 (8): 755-760
 - **Serial aEEG recordings in a cohort of extremely preterm infants: feasibility and safety** *JOURNAL OF PERINATOLOGY*
Davis, A. S., Gantz, M. G., Do, B., Shankaran, S., Hamrick, S. E., Kennedy, K. A., TYSON, J. E., Chalak, L. F., Luptook, A. R., Goldstein, R. F., Hintz, S. R., Das, A., Higgins, et al
2015; 35 (5): 373-378
 - **Peripartum and neonatal outcomes of small- for- gestational- age infants with gastroschisis** *PRENATAL DIAGNOSIS*
Girsen, A. I., Do, S., Davis, A. S., Hintz, S. R., Desai, A. K., Mansour, T., Merritt, T. A., Oshiro, B. T., El-Sayed, Y. Y., Blumenfeld, Y. J.
2015; 35 (5): 477-482
 - **A randomized clinical trial of therapeutic hypothermia mode during transport for neonatal encephalopathy.** *journal of pediatrics*
Akula, V. P., Joe, P., Thusu, K., Davis, A. S., Tamaresis, J. S., Kim, S., Shimotake, T. K., Butler, S., Honold, J., Kuzniewicz, M., Desandre, G., Bennett, M., Gould, et al
2015; 166 (4): 856-61 e1 2
 - **Fetal centers and the role of the neonatologist in complex fetal care.** *American journal of perinatology*
Davis, A. S., Chock, V. Y., Hintz, S. R.
2014; 31 (7): 549-556
 - **Outcomes of extremely preterm infants following severe intracranial hemorrhage.** *Journal of perinatology*
DAVIS, A. S., Hintz, S. R., Goldstein, R. F., Ambalavanan, N., Bann, C. M., Stoll, B. J., Bell, E. F., Shankaran, S., Luptook, A. R., Walsh, M. C., HALE, E. C., Newman, N. S., Das, et al
2014; 34 (3): 203-208
 - **Outcomes of extremely low birthweight infants with acidosis at birth.** *Archives of disease in childhood. Fetal and neonatal edition*
Randolph, D. A., Nolen, T. L., Ambalavanan, N. n., Carlo, W. A., Peralta-Carcelen, M. n., Das, A. n., Bell, E. F., Davis, A. S., Luptook, A. R., Stoll, B. J., Shankaran, S. n., Higgins, R. D.
2014
 - **Therapeutic hypothermia during neonatal transport: data from the California Perinatal Quality Care Collaborative (CPQCC) and California Perinatal Transport System (CPeTS) for 2010** *JOURNAL OF PERINATOLOGY*
Akula, V. P., Gould, J. B., DAVIS, A. S., Hackel, A., Oehlert, J., Van Meurs, K. P.
2013; 33 (3): 194-197
 - **Conservatively Managed Fetal Goiter: An Alternative to in utero Therapy.** *Fetal diagnosis and therapy*
Blumenfeld, Y. J., Davis, A., Milan, K., Chueh, J., Hudgins, L., Barth, R. A., Hintz, S. R.
2013; 34 (3): 184-187
 - **Therapeutic Hypothermia during Neonatal Transport: Current Practices in California** *AMERICAN JOURNAL OF PERINATOLOGY*
Akula, V. P., Davis, A. S., Gould, J. B., Van Meurs, K.
2012; 29 (5): 319-326
 - **Association of Antenatal Corticosteroids With Mortality and Neurodevelopmental Outcomes Among Infants Born at 22 to 25 Weeks' Gestation** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*

Carlo, W. A., McDonald, S. A., Fanaroff, A. A., Vohr, B. R., Stoll, B. J., Ehrenkranz, R. A., Andrews, W. W., Wallace, D., Das, A., Bell, E. F., Walsh, M. C., Laptook, A. R., Shankaran, et al
2011; 306 (21): 2348-2358

● **Perspectives of physician parents in the NICU** *Children's Health Care*

Batton B, Verhulst S, Batton D, Davis A, Collin A, Walsh M
2011; 40 (4): 326

● **Seizures in Extremely Low Birth Weight Infants Are Associated with Adverse Outcome** *JOURNAL OF PEDIATRICS*

Davis, A. S., Hintz, S. R., Van Meurs, K. P., Li, L., Das, A., Stoll, B. J., Walsh, M. C., Pappas, A., Bell, E. F., Laptook, A. R., Higgins, R. D.
2010; 157 (5): 720-U47

● **Human Neural Stem Cell Grafts Modify Microglial Response and Enhance Axonal Sprouting in Neonatal Hypoxic-Ischemic Brain Injury** *STROKE*

Daadi, M. M., Davis, A. S., Arac, A., Li, Z., Maag, A., Bhatnagar, R., Jiang, K., Sun, G., Wu, J. C., Steinberg, G. K.
2010; 41 (3): 516-523

● **Bedside cerebral monitoring to predict neurodevelopmental outcomes** *NeoReviews*

Chock VY, Davis AS
2009; 10 (3): e121-e129

● **Challenges of giant omphalocele: from fetal diagnosis to follow-up** *NeoReviews*

Davis AS, Blumenfeld Y, Rubesova E, Abrajano C, El-Sayed YY, Dutta S, Barth RA, Hintz SR
2008; 9 (8): e338-e347

● **Gene therapy using SOD1 protects striatal neurons from experimental stroke** *NEUROSCIENCE LETTERS*

Davis, A. S., Zhao, H., Sun, G. H., Sapolsky, R. M., Steinberg, G. K.
2007; 411 (1): 32-36