Stanford



David K. Stevenson, M.D.

Harold K. Faber Professor of Pediatrics and Professor, by courtesy, of Obstetrics and Gynecology and of Anesthesiology, Perioperative and Pain Medicine

Pediatrics - Neonatology

CLINICAL OFFICE (PRIMARY)

- **Neonatal Intensive Care Unit**

  725 Welch Rd

  Palo Alto, CA 94304

  Tel (650) 497-8800 **Fax** (650) 725-8351

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Zaida Esquivel

  Email zaidae@stanford.edu

  Tel 650-723-4492

Bio

CLINICAL FOCUS

- Neonatology
- Neonatal-Perinatal Medicine

ACADEMIC APPOINTMENTS

- Professor, Pediatrics - Neonatology
- Professor (By courtesy), Obstetrics & Gynecology
- Professor (By courtesy), Anesthesiology, Perioperative and Pain Medicine
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Affiliate, Stanford Woods Institute for the Environment

ADMINISTRATIVE APPOINTMENTS

- Chief, Division of Neonatal and Developmental Medicine, Stanford University School of Medicine, (1989-2007)
- Program Director, Training in Developmental and Neonatal Biology, Stanford University School of Medicine, (1989-2015)
- Harold K. Faber Professor of Pediatrics, Stanford University School of Medicine, (1992- present)
- Associate Program Director, General Clinical Research Center; Head, Pediatric Component, Stanford University School of Medicine, (1993-2008)
- Director, Charles B. and Ann L. Johnson Center for Pregnancy and Newborn Services, Lucile Packard Children's Hospital at Stanford, (1997-2017)
- Senior Associate Dean for Academic Affairs, Stanford University School of Medicine, (2001-2013)
- Vice Dean, Stanford University School of Medicine, (2006-2013)
- Co-Director, Stanford Center for Clinical and Translational Education and Research, (2008-2018)
- Co-Leader, Stanford Clinical and Translational Unit (CTRU), (2008-2018)
- Leader, Spectrum Child Health, (2008-2018)
- Director, March of Dimes Foundation Prematurity Research Center, Stanford University School of Medicine, (2011- present)

- Senior Associate Dean for Maternal & Child Health, Stanford University School of Medicine, (2014-2024)
- Senior Advisor to the Dean, Stanford University School of Medicine, (2024- present)
- Charles B. and Ann L. Johnson Director, Prematurity Research Center, Stanford University School of Medicine, (2025- present)

HONORS AND AWARDS

- Kaiser Award for Outstanding and Innovative Contributions to Medical Education, The Henry J. Kaiser Family Foundation (1983)
- Ross Young Investigator Award, Western Society for Pediatric Research (1990)
- American Academy of Pediatrics Award for Excellence in Pediatric Research, American Academy of Pediatrics (1991)
- The Duane Alexander Award for Academic Leadership in Perinatal Medicine, The National Institute of Child Health and Human Development (2003)
- Advisor of Highest Distinction for Exemplary Contributions to Undergraduate Education, Stanford University (2004)
- MENTOR Award for Excellence in Research Training, The National Institute of Child Health and Human Development (2004)
- The Neonatal Education Award in Perinatal Pediatrics, American Academy of Pediatrics (2004)
- Virginia Apgar Award in Perinatal Pediatrics, American Academy of Pediatrics (2006)
- Albion Walter Hewlett Award, Stanford University School of Medicine (2009)
- Alwin C. Rambar-James B.D. Mark Award for Excellence in Patient Care, Stanford University School of Medicine (2009)
- Joseph W. St. Geme, Jr. Education Award, Western Society for Pediatric Research (2009)
- Jonas Salk Award for Leadership in Prematurity Prevention, March of Dimes Foundation (2011)
- Maureen Andrew Mentor Award, Society for Pediatric Research (2011)
- Member, Institute of Medicine, National Academy of Sciences (2012)
- William A. Silverman Lectureship, American Academy of Pediatrics (2013)
- James L (Scooter) Haywood Memorial Lecture, University of Alabama (2014)
- Member, National Academy of Medicine, 2015, National Academy of Medicine (2015)
- Gladys J. Fashena Lecture, University of Texas Southwestern Medical Center (2016)
- Joseph W. St. Geme, Jr. Leadership Award, Federation of Pediatric Organizations (2016)
- Robert B. Cotton Lecture, Vanderbilt University School of Medicine (2016)
- Stanley Wright Memorial Lecture, Western Society for Pediatric Research (2016)
- 23rd Annual Kurt Benirschke Lecture, University of California San Diego, School of Medicine (2017)
- 9th Gregor Stoddard Lecture, University of Colorado (2017)
- Frank H. Morriss, Jr. Leadership Award, University of Iowa Carver College of Medicine (2017)
- Medical Staff Distinguished Service Award, LPCH (2018)
- Keynote Presentation, University of Utah Member Speaker, 50th Anniversary Annual Meeting, Perinatal Research Society (2019)
- The John Howland Award, American Pediatric Society (2019)
- The Kristine Sandberg Knisely Lectureship Award, Perelman School of Medicine at the the University of Pennsylvania (2019)
- John Howland Visiting Professorship and Lecture, Duke University (2020)
- John Howland Visiting Professorship and Lecture, University of North Carolina School of Medicine (2020)
- John Howland Visiting Professorship and Lecture, University of Texas Health Sciences Center at Houston (2020)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Secretary-Treasurer, Western Society for Pediatric Research (1986 - 1990)
- Committee on Awards for Excellence in Pediatric Research, American Academy of Pediatrics (1987 - 1991)

- Member, Ross Laboratory Seminars on Perinatal Medicine Advisory Board (1987 - 1995)
- Neonatal-Perinatal Examination Committee, American Board of Pediatrics (1990 - 1996)
- Member, American Academy of Pediatrics Executive Committee, Section on Perinatal Pediatrics (1991 - 1998)
- Chair, American Academy of Pediatrics Executive Committee, Section on Perinatal Pediatrics (1994 - 1996)
- Member, March of Dimes Basil O'Connor Advisory Committee (1995 - 2002)
- President, Western Society for Pediatric Research (1996 - 1997)
- Liaison Member for Section on Perinatal Pediatrics, Committee on Fetus and Newborn (COFN), American Academy of Pediatrics (1997 - 1998)
- Chair, Western Conference for Perinatal Research, (Mead Johnson Nutritionals) (1997 - 2002)
- Member, Sub-Board of Neonatal-Perinatal Medicine (1997 - 2002)
- Member, Council of the American Pediatric Society (1997 - 2007)
- President, California Association of Neonatologists (CAN) (1999 - 2000)
- Chair, Sub-Board of Neonatal-Perinatal Medicine, American Board of Pediatrics (2000 - 2002)
- Program Chair, Pediatric Academic Societies Annual Meeting (2000 - 2003)
- Vice President/President-Elect, American Pediatric Society (2004 - 2005)
- Board of Directors, American Board of Pediatrics (2004 - 2009)
- President, American Pediatric Society (2005 - 2006)
- Board of Directors, Children's Health Council (2005 - 2008)
- Scientific Advisory Board, Faculty of Pharmacy, University of Lisboa, Portugal (2007 - present)
- Chair, Long Range Planning Committee, American Board of Pediatrics (2009 - 2013)
- Task Force on Subspecialty Training and Certification, American Board of Pediatrics (2010 - 2013)
- Maureen Andrew Mentor Award Selection Committee, Society for Pediatric Research (2011 - 2013)
- Affiliated Faculty Member, Woods Institute (2011 - present)
- Chair, Maureen Andrew Mentor Award Selection Committee, Society for Pediatric Research (2013 - 2013)
- Transdisciplinary Centers (TDC) Advisory Committee, Ex Officio Member, March of Dimes (2013 - present)
- Guest Professor, Juntendo University, Tokyo, Japan (2015 - present)

PROFESSIONAL EDUCATION

- Board Certification: Neonatal-Perinatal Medicine, American Board of Pediatrics (1979)
- Board Certification: Pediatrics, American Board of Pediatrics (1979)
- Fellowship: Stanford University Medical Center (1979) CA
- Residency: University of Washington School of Medicine (1977) WA
- Internship: University of Washington School of Medicine (1976) WA
- Medical Education: University of Washington School of Medicine (1975) WA
- B.A., Stanford University , Philosophy (1971)
- M.D., University of Washington School of Medicine , Medicine (1975)

LINKS

- Division of Neonatal and Developmental Medicine: http://neonatology.stanford.edu/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our research is focused on the study of the ontogeny and control of heme catabolism and bilirubin production in the developing neonate. A better understanding of the role of increased bilirubin production in neonatal jaundice and the prevention of hemolytic jaundice has remained an overall objective of our program. To this end, we are actively investigating a more targeted, preventive approach to the diagnosis and treatment of newborns, who are high producers of the pigment and/or unable to efficiently eliminate bilirubin, thus leading to an accumulation of the pigment in circulation and tissues, which may lead to irreversible neurologic injury. Control of bilirubin production is a logical strategy, but has unexplored consequences for the immature mammal. Thus, we are studying the pivotal role of heme oxygenase (HO), the rate-limiting enzyme in the production of bilirubin, under a variety of commonly encountered pathological conditions, such as infection and hypoxia-ischemia, as well as in anti-oxidant defense, immune response and the regulation of hematopoiesis. In support of the above interests, studies are in progress, which are designed to screen a variety of metalloporphyrins and other compounds for maximum in vitro and in vivo efficacy with minimal side effects; to determine the ontogeny of the HO enzyme system in various murine tissues, focusing on perturbations resulting from treatment with HO inhibitors; and further to develop and test new technologies for noninvasive or minimally-invasive measurements of in vivo metabolism that could be used for diagnostic and monitoring purposes. We also study the causes of preterm birth and ways to prevent it.

CLINICAL TRIALS

- Antenatal Phenobarbital to Prevent Neonatal Intracranial Hemorrhage, Not Recruiting
- Benchmarking Initiative to Reduce Bronchopulmonary Dysplasia, Not Recruiting
- Cycled Phototherapy: A Safer Effective Treatment for Small Premature Infants?, Not Recruiting
- Development of Standards for the New Ballard Maturation Score, Not Recruiting
- Dexamethasone Therapy in VLBW Infants at Risk of CLD, Not Recruiting
- Early Surfactant to Reduce Use of Mechanical Breathing in Low Birth Weight Infants, Not Recruiting
- Exosurf Neonatal and Survanta for Treatment of Respiratory Distress Syndrome, Not Recruiting
- Glutamine Supplementation to Prevent Death or Infection in Extremely Premature Infants, Not Recruiting
- Growth Observational Study, Not Recruiting
- In Utero Magnesium Sulfate Exposure: Effects on Extremely-Low-Birth-Weight Infants, Not Recruiting
- Inflammatory Cytokines Associated With Perinatal Brain Injury, Not Recruiting
- Inhaled Nitric Oxide Study for Respiratory Failure in Newborns, Not Recruiting
- Minimal Breathing Support and Early Steroids to Prevent Chronic Lung Disease in Extremely Premature Infants (SAVE), Not Recruiting
- Observational Study of Surgical Treatment of Necrotizing Enterocolotis, Not Recruiting
- Persistent Pulmonary Hypertension of the Newborn (PPHN) Observational Study, Not Recruiting
- Prediction of Jaundice in Term Infants, Not Recruiting
- Supplemental Therapeutic Oxygen for Prethreshold Retinopathy of Prematurity, Not Recruiting
- Trial of Indomethacin Prophylaxis in Preterm Infants (TIPP), Not Recruiting
- Vitamin A Supplementation for Extremely-Low-Birth-Weight Infants, Not Recruiting

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

David Seong

Postdoctoral Faculty Sponsor

Shilpi Sehgal

Publications

PUBLICATIONS

- **Outcome of pregnancy oral glucose tolerance test and preterm birth.** *Epidemiology (Cambridge, Mass.)*
  Liang, R., Panelli, D. M., Stevenson, D. K., Rehkopf, D. H., Shaw, G. M., Sørensen, H. T., Pedersen, L.
  2024

- **Microbiome preterm birth DREAM challenge: Crowdsourcing machine learning approaches to advance preterm birth research.** *Cell reports. Medicine*
  Golob, J. L., Oskotsky, T. T., Tang, A. S., Roldan, A., Chung, V., Ha, C. W., Wong, R. J., Flynn, K. J., Parraga-Leo, A., Wibrand, C., Minot, S. S., Oskotsky, B., Andreoletti, et al
  2023: 101350

- **Comparative predictive power of serum vs plasma proteomic signatures in feto-maternal medicine.** *AJOG global reports*
  Espinosa, C., Ali, S. M., Khan, W., Khanam, R., Pervin, J., Price, J. T., Rahman, S., Hasan, T., Ahmed, S., Raqib, R., Rahman, M., Aktar, S., Nisar, et al
  2023; 3 (3): 100244

- **Data-driven longitudinal characterization of neonatal health and morbidity.** *Science translational medicine*
  De Francesco, D., Reiss, J. D., Roger, J., Tang, A. S., Chang, A. L., Becker, M., Phongpreecha, T., Espinosa, C., Morin, S., Berson, E., Thuraiappah, M., Le, B. L., Ravindra, et al
  2023; 15 (683): eadc9854

- **Omics approaches: interactions at the maternal-fetal interface and origins of child health and disease.** *Pediatric research*
  Ozen, M., Aghaeepour, N., Maric, I., Wong, R. J., Stevenson, D. K., Jantzie, L. L.
  2022

- **Progressive Metabolic Abnormalities Associated with the Development of Neonatal Bronchopulmonary Dysplasia.** *Nutrients*
  Ye, C., Wu, J., Reiss, J. D., Sinclair, T. J., Stevenson, D. K., Shaw, G. M., Chace, D. H., Clark, R. H., Prince, L. S., Ling, X. B., Sylvester, K. G.
  2022; 14 (17)

- **HMOX1 Genetic Polymorphisms Display Ancestral Diversity and May Be Linked to Hypertensive Disorders in Pregnancy.** *Reproductive sciences (Thousand Oaks, Calif.)*
  Sun, T., Cruz, G. I., Mousavi, N., Maric, I., Brewer, A., Wong, R. J., Aghaeepour, N., Sayed, N., Wu, J. C., Stevenson, D. K., Leonard, S. A., Gymrek, M., Winn, et al
  2022

- **Population-based associations between maternal pre-pregnancy body mass index and spontaneous and medically indicated preterm birth using restricted cubic splines in California.** *Annals of epidemiology*
  Mayo, J. A., Stevenson, D. K., Shaw, G. M.
  2022

- **A data-driven health index for neonatal morbidities.** *iScience*
  De Francesco, D., Blumenfeld, Y. J., Maric, I., Mayo, J. A., Chang, A. L., Fallahzadeh, R., Phongpreecha, T., Butwick, A. J., Xenochristou, M., Phibbs, C. S., Bidoki, N. H., Becker, M., Culos, et al
  2022; 25 (4): 104143

- **Perinatal infection, inflammation, preterm birth, and brain injury: A review with proposals for future investigations.** *Experimental neurology*
  Reiss, J. D., Peterson, L. S., Nesamoney, S. N., Chang, A. L., Pasca, A. M., Marić, I., Shaw, G. M., Gaudilliere, B., Wong, R. J., Sylvester, K. G., Bonifacio, S. L., Aghaeepour, N., Gibbs, et al
  2022: 113988

- **Newborn screen metabolic panels reflect the impact of common disorders of pregnancy.** *Pediatric research*
  Reiss, J. D., Chang, A. L., Mayo, J. A., Bianco, K., Lee, H. C., Stevenson, D. K., Shaw, G. M., Aghaeepour, N., Sylvester, K. G.

2021

- **Integrated trajectories of the maternal metabolome, proteome, and immunome predict labor onset.** *Science translational medicine*
  Stelzer, I. A., Ghaemi, M. S., Han, X., Ando, K., Hedou, J. J., Feyaerts, D., Peterson, L. S., Rumer, K. K., Tsai, E. S., Ganio, E. A., Gaudilliere, D. K., Tsai, A. S., Choisy, et al
  2021; 13 (592)

- **Understanding how biologic and social determinants affect disparities in preterm birth and outcomes of preterm infants in the NICU.** *Seminars in perinatology*
  Stevenson, D. K., Aghaeepour, N., Maric, I., Angst, M. S., Darmstadt, G. L., Druzin, M. L., Gaudilliere, B., Ling, X. B., Moufarrej, M. N., Peterson, L. S., Quake, S. R., Relman, D. A., Snyder, et al
  2021: 151408

- **A Peripheral Immune Signature of Labor Induction.** *Frontiers in immunology*
  Ando, K., Hédou, J. J., Feyaerts, D., Han, X., Ganio, E. A., Tsai, E. S., Peterson, L. S., Verdonk, F., Tsai, A. S., Marić, I., Wong, R. J., Angst, M. S., Aghaeepour, et al
  2021; 12: 725989

- **Mortality Risk Among Patients With COVID-19 Prescribed Selective Serotonin Reuptake Inhibitor Antidepressants.** *JAMA network open*
  Oskotsky, T., Maric, I., Tang, A., Oskotsky, B., Wong, R. J., Aghaeepour, N., Sirota, M., Stevenson, D. K.
  2021; 4 (11): e2133090

- **Single-Cell Analysis of the Neonatal Immune System Across the Gestational Age Continuum.** *Frontiers in immunology*
  Peterson, L. S., Hedou, J., Ganio, E. A., Stelzer, I. A., Feyaerts, D., Harbert, E., Adusumelli, Y., Ando, K., Tsai, E. S., Tsai, A. S., Han, X., Ringle, M., Houghteling, et al
  2021; 12: 714090

- **The Impact of Hypoxia in Early Pregnancy on Placental Cells.** *International journal of molecular sciences*
  Zhao, H., Wong, R. J., Stevenson, D. K.
  2021; 22 (18)

- **Parental age and preterm birth: a population-based cohort of nearly 3 million California livebirths from 2007 to 2012.** *Journal of perinatology : official journal of the California Perinatal Association*
  Mayo, J. A., Lu, Y., Stevenson, D. K., Shaw, G. M., Eisenberg, M. L.
  2020

- **A novel point-of-care device for measuring glucose-6-phosphate dehydrogenase enzyme deficiency.** *Seminars in perinatology*
  Wong, R. J., Montiel, C., Kunda, M., Stevenson, D. K., Bhutani, V. K.
  2020: 151356

- **Integration of mechanistic immunological knowledge into a machine learning pipeline improves predictions.** *Nature machine intelligence*
  Culos, A., Tsai, A. S., Stanley, N., Becker, M., Ghaemi, M. S., McIlwain, D. R., Fallahzadeh, R., Tanada, A., Nassar, H., Espinosa, C., Xenochristou, M., Ganio, E., Peterson, et al
  2020; 2 (10): 619-628

- **Molecular Physiology and Pathophysiology of Bilirubin Handling by the Blood, Liver, Intestine, and Brain in the Newborn.** *Physiological reviews*
  Hansen, T. W., Wong, R. J., Stevenson, D. K.
  2020; 100 (3): 1291–1346

- **Comments on the 20th Anniversary of NeoReviews.** *NeoReviews*
  Stevenson, D. K., Wong, R. J., Hay, W. W.
  2020; 21 (10): e643–e648

- **Computational discovery of therapeutic candidates for preventing preterm birth.** *JCI insight*
  Le, B. L., Iwatani, S. n., Wong, R. J., Stevenson, D. K., Sirota, M. n.
  2020; 5 (3)

- **Residential proximity to green space and preeclampsia in California.** *Environmental epidemiology (Philadelphia, Pa.)*
  Weber, K. A., Lyons, E. n., Yang, W. n., Stevenson, C. n., Stevenson, D. K., Shaw, G. M.
  2020; 4 (6): e120

- **Multiomics Characterization of Preterm Birth in Low- and Middle-Income Countries.** *JAMA network open*
  Jehan, F. n., Sazawal, S. n., Baqui, A. H., Nisar, M. I., Dhingra, U. n., Khanam, R. n., Ilyas, M. n., Dutta, A. n., Mitra, D. K., Mehmood, U. n., Deb, S. n., Mahmud, A. n., Hotwani, et al
  2020; 3 (12): e2029655
- **Association between preconception paternal health and pregnancy loss in the USA: an analysis of US claims data.** *Human reproduction (Oxford, England)*
  Kasman, A. M., Zhang, C. A., Li, S. n., Lu, Y. n., Lathi, R. B., Stevenson, D. K., Shaw, G. M., Eisenberg, M. L.
  2020
- **Changes in pregnancy-related serum biomarkers early in gestation are associated with later development of preeclampsia.** *PloS one*
  Hao, S. n., You, J. n., Chen, L. n., Zhao, H. n., Huang, Y. n., Zheng, L. n., Tian, L. n., Maric, I. n., Liu, X. n., Li, T. n., Bianco, Y. K., Winn, V. D., Aghaeepour, et al
  2020; 15 (3): e0230000
- **A Genome-Wide Analysis of Clinical Chorioamnionitis among Preterm Infants** *AMERICAN JOURNAL OF PERINATOLOGY*
  Spiegel, A. M., Li, J., Oehlert, J. W., Mayo, J. A., Quaintance, C. C., Girsen, A. I., Druzin, M. L., El-Sayed, Y. Y., Shaw, G. M., Stevenson, D. K., Gibbs, R. S.
  2019; 36 (14): 1453–58
- **Male-to-Female Ratios, Race/Ethnicity, and Spontaneous Preterm Birth among 11 Million California Infants.** *American journal of perinatology*
  Shaw, G. M., Mayo, J. A., Eisenberg, M. L., Catalano, R., Stevenson, D. K.
  2019
- **Disease burden in offspring is associated with changing paternal demographics in the United States.** *Andrology*
  Greenberg, D. R., Khandwala, Y. S., Lu, Y., Stevenson, D. K., Shaw, G. M., Eisenberg, M. L.
  2019
- **Differential Dynamics of the Maternal Immune System in Healthy Pregnancy and Preeclampsia** *FRONTIERS IN IMMUNOLOGY*
  Han, X., Ghaemi, M. S., Ando, K., Peterson, L. S., Ganio, E. A., Tsai, A. S., Gaudilliere, D. K., Stelzer, I. A., Einhaus, J., Bertrand, B., Stanley, N., Culos, A., Tanada, et al
  2019; 10
- **A Genome-Wide Analysis of Clinical Chorioamnionitis among Preterm Infants.** *American journal of perinatology*
  Spiegel, A. M., Li, J., Oehlert, J. W., Mayo, J. A., Quaintance, C. C., Girsen, A. I., Druzin, M. L., El-Sayed, Y. Y., Shaw, G. M., Stevenson, D. K., Gibbs, R. S.
  2019
- **APS Presidential Plenary 2019: the way of science: serendipity and the illusion of linearity.** *Pediatric research*
  Stevenson, D. K.
  2019
- **Multiomics modeling of the immunome, transcriptome, microbiome, proteome and metabolome adaptations during human pregnancy.** *Bioinformatics (Oxford, England)*
  Ghaemi, M. S., DiGiulio, D. B., Contrepois, K., Callahan, B., Ngo, T. T., Lee-McMullen, B., Lehallier, B., Robaczewska, A., Mcilwain, D., Rosenberg-Hasson, Y., Wong, R. J., Quaintance, C., Culos, et al
  2019; 35 (1): 95–103
- **Short interpregnancy interval as a risk factor for preterm birth in non-Hispanic Black and White women in California.** *Journal of perinatology : official journal of the California Perinatal Association*
  Lonhart, J. A., Mayo, J. A., Padula, A. M., Wise, P. H., Stevenson, D. K., Shaw, G. M.
  2019
- **Understanding health disparities.** *Journal of perinatology : official journal of the California Perinatal Association*
  Stevenson, D. K., Wong, R. J., Aghaeepour, N., Angst, M. S., Darmstadt, G. L., DiGiulio, D. B., Druzin, M. L., Gaudilliere, B., Gibbs, R. S., B Gould, J., Katz, M., Li, J., Moufarrej, et al
  2018
- **Filtered sunlight versus intensive electric powered phototherapy in moderate-to-severe neonatal hyperbilirubinaemia: a randomised controlled non-inferiority trial** *LANCET GLOBAL HEALTH*

Slusher, T. M., Vreman, H. J., Brearley, A. M., Vaucher, Y. E., Wong, R. J., Stevenson, D. K., Adeleke, O. T., Ojo, I. P., Edowhorhu, G., Lund, T. C., Gbadero, D. A.
2018; 6 (10): E1122–E1131

- **Stillbirth and Live Birth at Periviable Gestational Age: A Comparison of Prevalence and Risk Factors.** *American journal of perinatology*
  Carmichael, S. L., Blumenfeld, Y. J., Mayo, J. A., Profit, J., Shaw, G. M., Hintz, S. R., Stevenson, D. K.
  2018
- **Epigenetic immune cell counting in human blood samples for immunodiagnostics** *SCIENCE TRANSLATIONAL MEDICINE*
  Baron, U., Werner, J., Schildknecht, K., Schulze, J. J., Mulu, A., Liebert, U., Sack, U., Speckmann, C., Gossen, M., Wong, R. J., Stevenson, D. K., Babel, N., Schuermann, et al
  2018; 10 (452)
- **Prethreshold retinopathy of prematurity: VEGF inhibition without VEGF inhibitors.** *Journal of perinatology : official journal of the California Perinatal Association*
  Gaynon, M. W., Wong, R. J., Stevenson, D. K., Sunshine, P.
  2018
- **Bilirubin binding in jaundiced newborns: from bench to bedside?** *Pediatric research*
  Ahlfors, C. E., Bhutani, V. K., Wong, R. J., Stevenson, D. K.
  2018
- **Residential agricultural pesticide exposures and risks of preeclampsia.** *Environmental research*
  Shaw, G. M., Yang, W., Roberts, E. M., Aghaeepour, N., Mayo, J. A., Weber, K. A., Maric, I., Carmichael, S. L., Winn, V. D., Stevenson, D. K., English, P. B.
  2018; 164: 546–55
- **Hypoxia regulates placental angiogenesis via alternatively activated macrophages.** *American journal of reproductive immunology (New York, N.Y. : 1989)*
  Zhao, H., Kalish, F. S., Wong, R. J., Stevenson, D. K.
  2018: e12989
- **Natural Selection Has Differentiated the Progesterone Receptor among Human Populations.** *American journal of human genetics*
  Li, J., Hong, X., Mesiano, S., Muglia, L. J., Wang, X., Snyder, M., Stevenson, D. K., Shaw, G. M.
  2018
- **Noninvasive blood tests for fetal development predict gestational age and preterm delivery** *SCIENCE*
  Ngo, T. T. M., Moufarrej, M. N., Rasmussen, M. H., Camunas-Soler, J., Pan, W., Okamoto, J., Neff, N. F., Liu, K., Wong, R. J., Downes, K., Tibshirani, R., Shaw, G. M., Skotte, et al
  2018; 360 (6393): 1133–36
- **Heme oxygenase-1 deficiency promotes severity of sepsis in a non-surgical preterm mouse model.** *Pediatric research*
  Fujioka, K., Kalish, F., Zhao, H., Wong, R. J., Stevenson, D. K.
  2018
- **Neuro-inflammatory effects of photodegradative products of bilirubin** *SCIENTIFIC REPORTS*
  Jasprova, J., Dal Ben, M., Hurny, D., Hwang, S., Zizalova, K., Kotek, J., Wong, R. J., Stevenson, D. K., Gazzin, S., Tiribelli, C., Vitek, L.
  2018; 8: 7444
- **Heme oxygenase-1 deficiency results in splenic T-cell dysregulation in offspring of mothers exposed to late gestational inflammation** *AMERICAN JOURNAL OF REPRODUCTIVE IMMUNOLOGY*
  Ozen, M., Zhao, H., Kalish, F., Yang, Y., Folkins, A., Burd, I., Wong, R. J., Stevenson, D. K.
  2018; 79 (5): e12829
- **Identification of risk for neonatal haemolysis.** *Acta paediatrica (Oslo, Norway : 1992)*
  Bhutani, V. K., Maisels, M. J., Schutzman, D. L., Castillo Cuadrado, M. E., Aby, J. L., Bogen, D. L., Christensen, R. D., Watchko, J. F., Wong, R. J., Stevenson, D. K.
  2018
- **Divergent Patterns of Mitochondrial and Nuclear Ancestry Are Associated with the Risk for Preterm Birth** *JOURNAL OF PEDIATRICS*
  Crawford, N., Prendergast, D., Oehlert, J. W., Shaw, G. M., Stevenson, D. K., Rappaport, N., Sirota, M., Tishkoff, S. A., Sondheimer, N.

2018; 194: 40-+

- **A genome-wide association study identifies only two ancestry specific variants associated with spontaneous preterm birth** *SCIENTIFIC REPORTS*
  Rappoport, N., Toung, J., Hadley, D., Wong, R. J., Fujioka, K., Reuter, J., Abbott, C. W., Oh, S., Hu, D., Eng, C., Huntsman, S., Bodian, D. L., Niederhuber, et al
  2018; 8: 226

- **Point-of-Care Fecal Calprotectin Monitoring in Preterm Infants at Risk for Necrotizing Enterocolitis.** *The Journal of pediatrics*
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