

Stanford



William Benitz

Philip Sunshine, M.D., Professor in Neonatology and Professor, by courtesy, of Obstetrics and Gynecology at the Stanford University Medical Center
Pediatrics - Neonatal and Developmental Medicine

CLINICAL OFFICES

- **Neonatal Intensive Care Unit**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

CLINICAL FOCUS

- Neonatal-Perinatal Medicine
- Neonatology

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Pediatrics - Neonatal and Developmental Medicine
- Professor - Med Center Line (By courtesy), Obstetrics & Gynecology
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Medical Education: Stanford University School of Medicine Registrar (1978) CA
- Residency: Stanford University Pediatric Residency (1982) CA
- Internship: Stanford University Pediatric Residency (1979) CA
- Fellowship: Stanford University Neonatology Fellowship (1985) CA
- Board Certification: Pediatrics, American Board of Pediatrics (1983)
- Board Certification: Neonatal-Perinatal Medicine, American Board of Pediatrics (1985)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Neonatology, patent ductus arteriosus, pulmonary hypertension of the newborn, infant ventilation, neonatal clinical protocols/clinical pathways.

CLINICAL TRIALS

- Ampicillin / Sulbactam vs. Ampicillin / Gentamicin for Treatment of Chorioamnionitis, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neonatal-Perinatal Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Transcatheter patent ductus arteriosus closure-will history repeat itself?** *Journal of perinatology : official journal of the California Perinatal Association*
Clyman, R. I., Benitz, W. E.
2019
- **Association of Use of the Neonatal Early-Onset Sepsis Calculator With Reduction in Antibiotic Therapy and Safety: A Systematic Review and Meta-analysis.** *JAMA pediatrics*
Achten, N. B., Klingenberg, C., Benitz, W. E., Stocker, M., Schlapbach, L. J., Giannoni, E., Bokelaar, R., Driessen, G. J., Brodin, P., Uthaya, S., van Rossum, A. M., Plotz, F. B.
2019
- **The Holy Grail of Ascertainment of Early-Onset Neonatal Sepsis.** *The Journal of pediatrics*
Benitz, W. E., Long, S. S.
2019
- **RE: Management of Neonates Born at \leq 34 6/7 Weeks' Gestation With Suspected or Proven Early-Onset Bacterial Sepsis Response** *PEDIATRICS*
Puopolo, K. M., Benitz, W. E., Zaoutis, T. E.
2019; 143 (5)
- **Authors' Response.** *Pediatrics*
Puopolo, K. M., Benitz, W. E., Zaoutis, T. E.
2019
- **Management of Chorioamnionitis-Exposed Infants in the Newborn Nursery Using a Clinical Examination-Based Approach.** *Hospital pediatrics*
Joshi, N. S., Gupta, A., Allan, J. M., Cohen, R. S., Aby, J. L., Kim, J. L., Benitz, W. E., Frymoyer, A.
2019
- **While waiting for a vaccine: opportunities for optimization of neonatal group B streptococcal (GBS) disease prevention in Israel** *JOURNAL OF PERINATOLOGY*
Waisman, D., Gover, A., Molad, M., Kedar, R., Rotschild, A., Benitz, W. E.
2019; 39 (2): 331–38
- **Newborn Antibiotic Exposures and Association With Proven Bloodstream Infection.** *Pediatrics*
Schulman, J., Benitz, W. E., Profit, J., Lee, H. C., Dueñas, G., Bennett, M. V., Jocson, M. A., Schutzensgel, R., Gould, J. B.
2019
- **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., Davis, A. S., Benitz, W. E.
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
- **PDA: To treat or not to treat**
Sankar, M. N., Bhombal, S., Benitz, W. E.
WILEY.2019: 46–51
- **PDA: To treat or not to treat.** *Congenital heart disease*

- Sankar, M. N., Bhombal, S., Benitz, W. E.
2019; 14 (1): 46–51
- **While waiting for a vaccine: opportunities for optimization of neonatal group B streptococcal (GBS) disease prevention in Israel.** *Journal of perinatology : official journal of the California Perinatal Association*
Waisman, D., Gover, A., Molad, M., Kedar, R., Rotschild, A., Benitz, W. E.
2018
 - **Unwinding old habits: deimplementation of treatment regimens for patent ductus arteriosus in preterm infants.** *Jornal de pediatria*
Benitz, W. E.
2018
 - **Management of Neonates Born at \geq 35 0/7 Weeks' Gestation With Suspected or Proven Early-Onset Bacterial Sepsis** *PEDIATRICS*
Puopolo, K. M., Benitz, W. E., Zaoutis, T. E., Comm Fetus Newborn, Comm Infectious Dis
2018; 142 (6)
 - **Evaluation of probiotic oral supplementation effects on group B streptococcus rectovaginal colonization in pregnant women: a randomized double-blind placebo-controlled trial**
Aziz, N., Spiegel, A., Bentley, J., Yoffe, P., Klikoff, A., Ehrlich, K., El-Sayed, Y., Benitz, W., Norton, M., Taslimi, M.
MOSBY-ELSEVIER.2018: 638
 - **Covariation of Neonatal Intensive Care Unit-Level Patent Ductus Arteriosus Management and In-Neonatal Intensive Care Unit Outcomes Following Preterm Birth** *JOURNAL OF PEDIATRICS*
Hagadorn, J., Bennett, M., Brownell, E. A., Payton, K. E., Benitz, W. E., Lee, H. C.
2018; 203: 225–33
 - **Management of Neonates Born at \leq 34 6/7 Weeks' Gestation With Suspected or Proven Early-Onset Bacterial Sepsis** *PEDIATRICS*
Puopolo, K. M., Benitz, W. E., Zaoutis, T. E., Comm Fetus Newborn, Comm Infectious Dis
2018; 142 (6)
 - **Covariation of Neonatal Intensive Care Unit-Level Patent Ductus Arteriosus Management and In-Neonatal Intensive Care Unit Outcomes Following Preterm Birth.** *The Journal of pediatrics*
Hagadorn, J. I., Bennett, M. V., Brownell, E. A., Payton, K. S., Benitz, W. E., Lee, H. C.
2018
 - **Clinical Monitoring of Well-Appearing Infants Born to Mothers With Chorioamnionitis** *PEDIATRICS*
Joshi, N. S., Gupta, A., Allan, J. M., Cohen, R. S., Aby, J. L., Weldon, B., Kim, J. L., Benitz, W. E., Frymoyer, A.
2018; 141 (4)
 - **Evaluation of Probiotic Oral Supplementation Effects on Group B Streptococcus Rectovaginal Colonization in Pregnant Women: A Randomized Double-Blind Placebo-Controlled Trial**
Aziz, N., Spiegel, A., Bentley, J., Yoffe, P., Klikoff, A., Ehrlich, K., El-Sayed, Y., Benitz, W., Norton, M. E., Taslimi, M. M.
MOSBY-ELSEVIER.2018: S509–S510
 - **Clinical Monitoring of Well-Appearing Infants Born to Mothers With Chorioamnionitis.** *Pediatrics*
Joshi, N. S., Gupta, A., Allan, J. M., Cohen, R. S., Aby, J. L., Weldon, B., Kim, J. L., Benitz, W. E., Frymoyer, A.
2018; 141 (4)
 - **Prenatal treatment of ornithine transcarbamylase deficiency.** *Molecular genetics and metabolism*
Wilnai, Y., Blumenfeld, Y. J., Cusmano, K., Hintz, S. R., Alcorn, D., Benitz, W. E., Berquist, W. E., Bernstein, J. A., Castillo, R. O., Concepcion, W., Cowan, T. M., Cox, K. L., Lyell, et al
2018
 - **The use of non-steroidal anti-inflammatory drugs for patent ductus arteriosus closure in preterm infants** *SEMINARS IN FETAL & NEONATAL MEDICINE*
Benitz, W. E., Bhombal, S.
2017; 22 (5): 302–7
 - **Approaches to end-of-life discussions with parents of a profoundly compromised newborn** *JOURNAL OF PERINATOLOGY*
Paris, J. J., Pai, V., Cummings, B. M., Batten, J., Benitz, W. E.
2017; 37 (10): 1078–81

- **Prophylactic Indomethacin-Is It Time to Reconsider?** *JOURNAL OF PEDIATRICS*
Bhombal, S., Benitz, W. E.
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- **Hey, Doctor, Leave the PDA Alone** *PEDIATRICS*
Benitz, W. E.
2017; 140 (2)
- **Changing Management of the Patent Ductus Arteriosus: Effect on Neonatal Outcomes and Resource Utilization.** *American journal of perinatology*
Chock, V. Y., Goel, V. V., Palma, J. P., Luh, T. M., Wang, N. A., Gaskari, S., Pun, R., Silverman, N. H., Benitz, W. E.
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- **An Electronic Health Record Investigation of Lenticulostriate Vasculopathy Features.** *American journal of perinatology*
Frankovich, J., Egan, M., Mahony, T., Benitz, W., Shaw, G.
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- **Hey, Doctor, Leave the PDA Alone.** *Pediatrics*
Benitz, W. E.
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- **Temporal Relationship of Onset of Necrotizing Enterocolitis and Introduction of Enteric Feedings and Powdered Milk Fortifier.** *American journal of perinatology*
Vaks, Y., Birnie, K. L., Carmichael, S. L., Hernandez-Boussard, T., Benitz, W. E.
2017
- **Chorioamnionitis and Culture-Confirmed, Early-Onset Neonatal Infections.** *Pediatrics*
Wortham, J. M., Hansen, N. I., Schrag, S. J., Hale, E., Van Meurs, K., Sánchez, P. J., Cantey, J. B., Faix, R., Poindexter, B., Goldberg, R., Bizzarro, M., Frantz, I., Das, et al
2016; 137 (1): 1-11
- **Neonatal Pulmonary Arterial Hypertension and Noonan Syndrome: Two Fatal Cases with a Specific RAF1 Mutation** *AMERICAN JOURNAL OF MEDICAL GENETICS PART A*
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2015; 167A (4): 882-885
- **Neonatal pulmonary arterial hypertension and Noonan syndrome: two fatal cases with a specific RAF1 mutation.** *American journal of medical genetics. Part A*
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- **Reappraisal of Guidelines for Management of Neonates with Suspected Early-Onset Sepsis** *JOURNAL OF PEDIATRICS*
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- **Comparison of ampicillin/sulbactam versus ampicillin/gentamicin for treatment of intrapartum chorioamnionitis: a randomized controlled trial**
Greenberg, M., Yeaton-Massey, A., Hazard, K., Dougall, K., Yoffe, P., Benitz, W., El-Sayed, Y., Aziz, N.
MOSBY-ELSEVIER.2015: S145
- **Perinatal outcomes in infants with congenitally and postnatally acquired cytomegalovirus infection**
Aziz, N., McDowell, M., Guo, F., Lee, H., Srinivas, N., Gutierrez, K., Benitz, W., Dekker, C., Folkins, A., Pinsky, B., Norton, M.
MOSBY-ELSEVIER.2015: S336
- **Red Blood Cell Transfusion Is Not Associated with Necrotizing Enterocolitis: A Review of Consecutive Transfusions in a Tertiary Neonatal Intensive Care Unit** *JOURNAL OF PEDIATRICS*
Wallenstein, M. B., Arain, Y. H., Birnie, K. L., Andrews, J., Palma, J. P., Benitz, W. E., Chock, V. Y.
2014; 165 (4): 678-682
- **Red blood cell transfusion is not associated with necrotizing enterocolitis: a review of consecutive transfusions in a tertiary neonatal intensive care unit.** *journal of pediatrics*
Wallenstein, M. B., Arain, Y. H., Birnie, K. L., Andrews, J., Palma, J. P., Benitz, W. E., Chock, V. Y.

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- **Prevention of traumatic stress in mothers of preterms: 6-month outcomes.** *Pediatrics*
Shaw, R. J., St John, N., Lilo, E., Jo, B., Benitz, W., Stevenson, D. K., Horwitz, S. M.
2014; 134 (2): e481-8
- **Prevention of traumatic stress in mothers of preterms: 6-month outcomes.** *Pediatrics*
Shaw, R. J., St John, N., Lilo, E., Jo, B., Benitz, W., Stevenson, D. K., Horwitz, S. M.
2014; 134 (2): e481-8
- **The Conundrum of Early-Onset Sepsis** *PEDIATRICS*
Polin, R. A., Watterberg, K., Benitz, W., Eichenwald, E.
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- **Evaluation of serial urine viral cultures for the diagnosis of cytomegalovirus infection in neonates and infants.** *Pediatric and developmental pathology*
Chisholm, K. M., Aziz, N., McDowell, M., Guo, F. P., Srinivas, N., Benitz, W. E., Norton, M. E., Gutierrez, K., Folkins, A. K., Pinsky, B. A.
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- **Predictors of bronchopulmonary dysplasia or death in premature infants with a patent ductus arteriosus.** *Pediatric research*
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- **PRENATAL TREATMENT OF ORNITHINE TRANSCARBAMYLASE DEFICIENCY**
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- **Prevention of traumatic stress in mothers with preterm infants: a randomized controlled trial.** *Pediatrics*
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- **Prevention of Postpartum Traumatic Stress in Mothers with Preterm Infants: Manual Development and Evaluation.** *Issues in mental health nursing*
Shaw, R. J., Sweester, C. J., St John, N., Lilo, E., Corcoran, J. B., Jo, B., Howell, S. H., Benitz, W. E., Feinstein, N., Melnyk, B., Horwitz, S. M.
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- **Prevention of Postpartum Traumatic Stress in Mothers with Preterm Infants: Manual Development and Evaluation** *ISSUES IN MENTAL HEALTH NURSING*
Shaw, R. J., Sweester, C. J., John, N. S., Lilo, E., Corcoran, J. B., Jo, B., Howell, S. H., Benitz, W. E., Feinstein, N., Melnyk, B., Horwitz, S. M.
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- **Learning to live with patency of the ductus arteriosus in preterm infants** *JOURNAL OF PERINATOLOGY*
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Benitz, W. E.
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Benitz, W. E.
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 - **Daily Compared With 8-Hour Gentamicin for the Treatment of Intrapartum Chorioamnionitis A Randomized Controlled Trial** *28th Annual Meeting of the Society-for-Maternal-Fetal-Medicine*
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 - **Combining hand techniques with electric pumping increases milk production in mothers of preterm infants** *JOURNAL OF PERINATOLOGY*
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 - **Once daily vs. 8-hour gentamicin dosing for chorioamnionitis** *28th Annual Meeting of the Society-for-Maternal-Fetal-Medicine*
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 - **The use of inhaled nitric oxide in the premature infant with respiratory distress syndrome.** *Minerva pediatrica*
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 - **Food, toys, and love: pediatric palliative care.** *Current problems in pediatric and adolescent health care*
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Benitz, W. E.
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