



Center for
Research, Education, Quality & Safety

***Beyond Extreme Prematurity: Management of the 22-23 Week Gestation Premature Infant –
The Iowa Way***

Aydemir C, Oguz SS, Dizdar EA, Akar M, Sarikabadayi YU, et al. Randomised controlled trial of prophylactic fluconazole versus nystatin for the prevention of fungal colonisation and invasive fungal infection in very low birth weight infants. *Arch Dis Child Fetal Neonatal Ed.* 2011 May;96(3):F164-8. doi: 10.1136/adc.2009.178996. Epub 2010 Jul 21. PubMed PMID: 20659937.

Beresford MW, Shaw NJ. Bronchoalveolar lavage surfactant protein a, B, and d concentrations in preterm infants ventilated for respiratory distress syndrome receiving natural and synthetic surfactants. *Pediatr Res.* 2003 Apr;53(4):663-70. Epub 2003 Jan 15. PubMed PMID: 12612206.

Bissinger R, Carlson C, Hulsey T, Eicher D. Secondary surfactant deficiency in neonates. *J Perinatol.* 2004 Oct;24(10):663-6. PubMed PMID: 15229621.

Bloom BT, Kattwinkel J, Hall RT, Delmore PM, Egan EA, et al. Comparison of Infasurf (calf lung surfactant extract) to Survanta (Beractant) in the treatment and prevention of respiratory distress syndrome. *Pediatrics.* 1997 Jul;100(1):31-8. PubMed PMID: 9200357.

Carlo WA, McDonald SA, Fanaroff AA, Vohr BR, Stoll BJ, et al; Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Association of antenatal corticosteroids with mortality and neurodevelopmental outcomes among infants born at 22 to 25 weeks' gestation. *JAMA.* 2011 Dec 7;306(21):2348-58. doi: 10.1001/jama.2011.1752. PubMed PMID: 22147379; PubMed Central PMCID: PMC3565238.

Chawla S, Natarajan G, Shankaran S, Carper B, Brion LP, et al; Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Markers of Successful Extubation in Extremely Preterm Infants, and Morbidity After Failed Extubation. *J Pediatr.* 2017 Oct;189:113-119.e2. doi: 10.1016/j.jpeds.2017.04.050. Epub 2017 Jun 7. PubMed PMID: 28600154; PubMed Central PMCID: PMC5657557.

Chessex P, Laborie S, Nasef N, Masse B, Lavoie JC. Shielding Parenteral Nutrition From Light Improves Survival Rate in Premature Infants. *JPEN J Parenter Enteral Nutr.* 2017 Mar;41(3):378-383. doi: 10.1177/0148607115606407. Epub 2016 Sep 30. Review. PubMed PMID: 26376662.

Clark RH. Both the tool and the carpenter are important. *J Pediatr.* 1997 Dec;131(6):796-8. PubMed PMID: 9427879.

Clark RH, Gerstmann DR, Null DM, Yoder BA, Cornish JD, et al. Pulmonary interstitial emphysema treated by high-frequency oscillatory ventilation. *Crit Care Med.* 1986 Nov;14(11):926-30. PubMed PMID: 3769502.

Deshmukh M, Patole S. Antenatal corticosteroids in impending preterm deliveries before 25 weeks' gestation. *Arch Dis Child Fetal Neonatal Ed.* 2018 Mar;103(2):F173-F176. doi: 10.1136/archdischild-2017-313840. Epub 2017 Dec 5. Review. PubMed PMID: 29208662.

Durrmeyer X, Marchand-Martin L, Porcher R, Gascoin G, Roze JC, et al; Hemodynamic EPIPAGE 2 Study Group. Abstention or intervention for isolated hypotension in the first 3 days of life in extremely preterm infants: association with short-term outcomes in the EPIPAGE 2 cohort study. *Arch Dis Child Fetal Neonatal Ed.* 2017 Nov;102(6):490-496. doi: 10.1136/archdischild-2016-312104. Epub 2017 Mar 16. PubMed PMID: 28302697.



Center for
Research, Education, Quality & Safety

Gaylord MS, Quissell BJ, Lair ME. High-frequency ventilation in the treatment of infants weighing less than 1,500 grams with pulmonary interstitial emphysema: a pilot study. *Pediatrics*. 1987 Jun;79(6):915-21. PubMed PMID: 3588146.

Katz LA, Klein JM. Repeat surfactant therapy for postsurfactant slump. *J Perinatol*. 2006 Jul;26(7):414-22. Epub 2006 May 18. PubMed PMID: 16724122.

Keszler M, Modanlou HD, Brudno DS, Clark FI, Cohen RS, et al. Multicenter controlled clinical trial of high-frequency jet ventilation in preterm infants with uncomplicated respiratory distress syndrome. *Pediatrics*. 1997 Oct;100(4):593-9. PubMed PMID: 9310511.

Merrill JD, Ballard RA, Cnaan A, Hibbs AM, Godinez RI, et al. Dysfunction of pulmonary surfactant in chronically ventilated premature infants. *Pediatr Res*. 2004 Dec;56(6):918-26. Epub 2004 Oct 20. PubMed PMID: 15496605.

Mori R, Kusuda S, Fujimura M; Neonatal Research Network Japan. Antenatal corticosteroids promote survival of extremely preterm infants born at 22 to 23 weeks of gestation. *J Pediatr*. 2011 Jul;159(1):110-114.e1. doi: 10.1016/j.jpeds.2010.12.039. Epub 2011 Feb 22. PubMed PMID: 21334006.

Oei JL, Saugstad OD, Lui K, Wright IM, Smyth JP, et al. Targeted Oxygen in the Resuscitation of Preterm Infants, a Randomized Clinical Trial. *Pediatrics*. 2017 Jan;139(1). pii: e20161452. doi: 10.1542/peds.2016-1452. PubMed PMID: 28034908.

Pandit PB, Dunn MS, Kelly EN, Perlman M. Surfactant replacement in neonates with early chronic lung disease. *Pediatrics*. 1995 Jun;95(6):851-4. Erratum in: *Pediatrics* 1995 Aug;96(2 Pt 1):359. PubMed PMID: 7761208.

Park CK, Isayama T, McDonald SD. Antenatal Corticosteroid Therapy Before 24 Weeks of Gestation: A Systematic Review and Meta-analysis. *Obstet Gynecol*. 2016 Apr;127(4):715-25. doi: 10.1097/AOG.0000000000001355. Review. PubMed PMID: 26959200.

Ramanathan R, Rasmussen MR, Gerstmann DR, Finer N, Sekar K; North American Study Group. A randomized, multicenter masked comparison trial of poractant alfa (Curosurf) versus beractant (Survanta) in the treatment of respiratory distress syndrome in preterm infants. *Am J Perinatol*. 2004 Apr;21(3):109-19. PubMed PMID: 15085492.

Ramanathan R, Sekar KC, Rasmussen M, Bhatia J, Soll RF. Nasal intermittent positive pressure ventilation after surfactant treatment for respiratory distress syndrome in preterm infants <30 weeks' gestation: a randomized, controlled trial. *J Perinatol*. 2012 May;32(5):336-43. doi: 10.1038/jp.2012.1. Epub 2012 Feb 2. Erratum in: *J Perinatol*. 2012 May;32(5):395. PubMed PMID: 22301528.

Randomized study of high-frequency oscillatory ventilation in infants with severe respiratory distress syndrome. HiFO Study Group. *J Pediatr*. 1993 Apr;122(4):609-19. PubMed PMID: 8463913.

Reynolds GE, Tierney SB, Klein JM. Antibiotics Before Removal of Percutaneously Inserted Central Venous Catheters Reduces Clinical Sepsis in Premature Infants. *J Pediatr Pharmacol Ther*. 2015 May-Jun;20(3):203-9. doi: 10.5863/1551-6776-20.3.203. PubMed PMID: 26170772; PubMed Central PMCID: PMC4471714.

Rysavy MA, Li L, Bell EF, Das A, Hintz SR, et al; Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Between-hospital variation in treatment and outcomes in extremely preterm infants. *N Engl J Med*. 2015 May 7;372(19):1801-11. doi: 10.1056/NEJMoa1410689. Erratum in: *N Engl J Med*;372(25):2469. PubMed PMID: 25946279; PubMed Central PMCID: PMC4465092.



Center for
Research, Education, Quality & Safety

Schmidt B, Roberts RS, Davis P, Doyle LW, Barrington KJ, et al; Caffeine for Apnea of Prematurity Trial Group. Caffeine therapy for apnea of prematurity. *N Engl J Med.* 2006 May 18;354(20):2112-21. PubMed PMID: 16707748.

Schmidt B, Roberts RS, Davis P, Doyle LW, Barrington KJ, et al; Caffeine for Apnea of Prematurity Trial Group. Long-term effects of caffeine therapy for apnea of prematurity. *N Engl J Med.* 2007 Nov 8;357(19):1893-902. PubMed PMID: 17989382.

Sosenko IR, Rodriguez-Pierce M, Bancalari E. Effect of early initiation of intravenous lipid administration on the incidence and severity of chronic lung disease in premature infants. *J Pediatr.* 1993 Dec;123(6):975-82. PubMed PMID: 8229533.

Speer CP, Gefeller O, Groneck P, Laufkötter E, Roll C, et al. Randomised clinical trial of two treatment regimens of natural surfactant preparations in neonatal respiratory distress syndrome. *Arch Dis Child Fetal Neonatal Ed.* 1995 Jan;72(1):F8-13. PubMed PMID: 7743295; PubMed Central PMCID: PMC2528411.

Stark AR, Carlo WA, Tyson JE, Papile LA, Wright LL, et al; National Institute of Child Health and Human Development Neonatal Research Network. Adverse effects of early dexamethasone treatment in extremely-low-birth-weight infants. National Institute of Child Health and Human Development Neonatal Research Network. *N Engl J Med.* 2001 Jan 11;344(2):95-101. PubMed PMID: 11150359.

Tyson JE, Wright LL, Oh W, Kennedy KA, Mele L, et al. Vitamin A supplementation for extremely-low-birth-weight infants. National Institute of Child Health and Human Development Neonatal Research Network. *N Engl J Med.* 1999 Jun 24;340(25):1962-8. PubMed PMID: 10379020.

Wei JC, Catalano R, Profit J, Gould JB, Lee HC. Impact of antenatal steroids on intraventricular hemorrhage in very-low-birth weight infants. *J Perinatol.* 2016 May;36(5):352-6. doi: 10.1038/jp.2016.38. Epub 2016 Mar 24. PubMed PMID: 27010109; PubMed Central PMCID: PMC4844862.