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Section on Neonatal-Perinatal Medicine

ARTICLES OF INTEREST – August 2025

Furosemide safety in preterm infants at risk for bronchopulmonary dysplasia: a randomized clinical trial

Rachel G Greenberg, Jason Lang, P Brian Smith, et al. J Pediatr.

This multicenter, randomized, dose-escalating, and placebo-controlled clinical trial evaluated the safety of furosemide in 80 preterm infants at risk for developing bronchopulmonary dysplasia (BPD). The infants were born at less than 29 weeks gestational age and were aged between 7 and 28 days postnatal. They were randomly assigned to receive either furosemide or a placebo for 28 days. The primary outcome was the incidence of total adverse events (AEs). The study found that 93% (74 of 80) of the infants experienced AEs, but there was no significant difference in the overall incidence of AEs, hearing loss, or nephrocalcinosis between the furosemide and placebo groups. However, the study did find a significant increase in serum electrolyte AEs in the furosemide group. The researchers concluded that while furosemide treatment did not increase the overall incidence of AEs, it was associated with a higher occurrence of serum electrolyte abnormalities. The study also found no difference in the odds of moderate-to-severe BPD or death between the groups.

Outcomes in neonates receiving therapeutic hypothermia and extracorporeal membrane oxygenation versus extracorporeal membrane oxygenation alone

Erin Cicalese, Bryn H S Seltzer, Jason C Fisher, et al. Am J Perinatol.

This retrospective study, which reviewed data from the Extracorporeal Life Support Organization (ELSO) Registry from 2007 to 2017, compared the outcomes of neonates who received therapeutic hypothermia (TH) for neonatal encephalopathy (NE) and extracorporeal membrane oxygenation (ECMO) with those who received ECMO alone. The study included 3,672 neonates, with 215 receiving TH/ECMO and 3,457 receiving ECMO

alone. The primary outcomes measured were ECMO survival and survival to discharge. The results showed no significant difference in ECMO survival (92% vs. 92%) or survival to discharge (87% vs. 85%) between the two groups. However, the TH/ECMO group had a higher rate of complications, including Hemorrhagic complications (29% vs. 20%), Neurologic complications (24% vs. 12%) and Metabolic complications (28% vs. 15%). The study concluded that neonates undergoing both ECMO and TH for NE have survival rates comparable to those receiving ECMO alone, suggesting that ECMO can be considered a viable option for neonates with NE who are also undergoing TH and meet the criteria for ECMO.

Developing parental identity in the neonatal intensive care unit

Katherine E Schwartz, Katharine P Callahan, Karen Crew, et al. Pediatrics

Parents of NICU infants are at risk of impaired bonding with their infants and may experience worse mental health outcomes compared with parents of infants born healthy. This can affect “parent identity formation” which is a development of a sense of what new parents value and what they must do and become as a parent. This can be particularly challenging in the NICU. This qualitative study interviewed 25 NICU parents which aimed to explore how people conceptualize how to be a parent in the NICU, developing their parent identity. They reported developing parental identity is distinct from bonding. 5 themes emerged around how parental identity develops from this study: (1) performing activities, (2) shifting expectations, (3) marking transition points, (4) over time, and (5) feeling recognized. This study recognizes bonding is different from establishing identity as a parent which will allow better support for NICU parents leading to improve neonatal outcomes.

Meta-analysis of maternal and neonatal outcomes of cannabis use in pregnancy current to March 2024

Katelyn Sainz, Hollie Ulibarri, Amanda Arroyo, et al. Matern Health Neonatol Perinatol

This is a meta-analysis that included 51 studies to assess maternal cannabis use and how it affects maternal and neonatal outcomes. Cannabis consumption was associated with increased risks of low birth weight ($P < 0.0001$), small for gestational age ($P < 0.00001$), major anomalies ($P < 0.00001$), and lower gestational age at birth ($P = 0.002$). There was also significance for increased NICU admissions ($P < 0.00001$), perinatal mortality ($P = 0.02$), and preterm delivery ($P < 0.00001$). However, cannabis use was associated with a decreased risk of gestational diabetes in pregnancy ($P < 0.00001$). This meta-analysis shows that cannabis use during pregnancy can have adverse effects on neonatal outcomes.

The impact of hyperoxia and antibiotics on lung mesenchymal cells in experimental bronchopulmonary dysplasia

Cathy van Horik, Joel Anne Meyboom, Anne Boerema-de Munck, et al. Am J Physiol Lung Cell Mol Physiol

Resident lung mesenchymal stromal cells (L-MSCs) are important for alveolar microvascularization, repair and regeneration. Here, we report the immediate effects of hyperoxia and antibiotics-induced reduced bacterial load on L-MSCs and alveolar development using the hyperoxia-induced BPD mouse model. Hyperoxia significantly impaired alveolar development between P14 and P21, whereas both hyperoxia and antibiotics exposure impaired lung microvascular development. Moreover, hyperoxia reduced the number of pericytes, proliferative mesenchymal progenitors, Col13a1(POS) matrix fibroblasts and P2RY14(POS) alveolar myofibroblasts. RNA-Seq of LY6A-sorted L-MSCs revealed differential expression of 103 genes in hyperoxia, 10 of which are related to mast cell biology. Antibiotics exposure also altered mesenchymal cell distribution, suggesting an additional impact on lung development. In conclusion, the authors show that hyperoxia and antibiotics-induced reduced bacterial load affect the mesenchymal cell population, which may contribute to the development of BPD.

Activin A exacerbates neonatal necrotizing enterocolitis via ALK4-mediated apoptosis and barrier disruption

Wenjing Ma, Jiali Xie, Lu Liu, et al. Int Immunopharmacol

Necrotizing enterocolitis (NEC) is a life-threatening gastrointestinal disorder in neonates, yet the role of Activin A (ACV A) in NEC pathogenesis remains unclear. NEC was induced in neonatal mice. Recombinant Activin A (rActivin A) and neutralizing antibody (anti-Activin A) were used for intervention. Comprehensive evaluations were performed to assess intestinal injury, barrier function (ZO-1 / Occludin / Claudin-1), inflammation (IL-1beta/IL-6), and apoptosis through histopathology, ELISA, immunofluorescence, TUNEL, flow cytometry, and Western blotting. Activin A expression was significantly upregulated in intestinal tissues of NEC mice. Activin A drives NEC progression through ALK4-Smad2/3-mediated apoptosis and barrier disruption. Targeting the Activin A-ALK4 axis may offer novel therapeutic strategies for NEC.

Multidrug-resistant organisms and bacillus cereus colonization in a neonatal intensive care unit: a cohort study

Surveillance of neonate microbiota carriage, particularly multidrug-resistant organisms (MDROs) and *Bacillus cereus*, could help prevent infection. In this population-based retrospective study, the authors evaluated the presence of these in the stools of hospitalized infants, duration of isolation and risk of infection in infants with digestive carriage of MDROs or *B. cereus*. In total, 1409 infants were included; 220 (15.6%) were carriers of MDROs and/or *B. cereus*: 74.1% (163/220) carried MDROs only, 20.5% (45/220) carried *B. cereus* only and 5.5% (12/220) were cocarriers. Eighteen MDROs were identified; *Enterobacter cloacae* (43.6%, 82/188) was the most frequent. There was no *B. cereus* infection in infants with *B. cereus* in the stool; 7.4% (13/175) of infants with MDROs were infected. MDROs and *B. cereus* were commonly found in stools in a large population of hospitalized neonates. Identification of carriage and duration of this according to the germ

can help to adapt the isolation protocol duration to limit constraints for parents and caregivers and to guide antibiotic therapy.

Examining neutropenia during treatment of cytomegalovirus disease in neonates

Congenital cytomegalovirus is the leading cause of nongenetic sensorineural hearing loss. Treatment with (val)ganciclovir improves audiologic outcomes. Neutropenia is a common adverse event, but correlates that predict who will develop neutropenia have not been identified. Data from 3 National Institutes of Health-funded studies of intravenous ganciclovir or oral valganciclovir were evaluated. Baseline absolute neutrophil count (ANC) was defined as high (ANC >1000 cells/mm³) or low (ANC ≤1000 cells/mm³), and neutropenia was defined as ANC <800 cells/mm³. Mean 12-hour area under the curve (AUC 12) ganciclovir values were analyzed as a function of degree of neutropenia using analysis of variance. AUC 12 values ≥40 mgxh/L were defined as high drug exposure and <40 mgxh/L as low drug exposure. High AUC 12 correlated with the development of neutropenia in infants treated for symptomatic congenital cytomegalovirus disease. Low baseline ANC also may contribute to the development of neutropenia.

Effect of early antibiotic exposure on necrotizing enterocolitis and growth in extremely preterm infants

Katie M Strobel, Thomas R Wood, Gregory C Valentine, et al. *Pediatr Res*

This study evaluated the association between peripartum and postnatal antibiotic exposure in the first week after birth with NEC and growth faltering (GF) in this secondary analysis of Preterm Erythropoietin Neuroprotection Trial subjects. A total of 891 infants survived the first week and were included in the NEC analyses, while 828 infants survived to discharge and were included in the growth analyses. Multivariable analyses were adjusted with maternal and infant factors. For every 1-day increase in infant antibiotic exposure during the first week after birth, there was a significantly increased adjusted hazard of NEC (aHR/day 1.14 [1.01-1.28], $p = 0.034$). Antibiotics for 3-4 days and 5-7 days total in the first week were associated with increased odds of weight GF (aOR 1.90 [1.21-2.99], aOR 2.32 [1.44-3.74]), length GF (aOR 1.76 [1.22-2.59], aOR 1.88 [1.26-2.80]), and HC GF (aOR 1.75 [1.08-2.84], aOR 1.87 [1.14-3.08]). The authors conclude that these findings encourage the judicious use of early antibiotics in extremely preterm infants.

“Burden of “Pokes” in newborns with hypoglycemia who require IV dextrose, Hospital

Adam Frymoyer, Erika M Monasch, Ming Yeh Lee, et al. *Hosp Pediatr*

This retrospective medical record review included infants at a university-affiliated newborn nursery who were screened for hypoglycemia according to a protocol which included glucose gel, supplementation, and IV dextrose. Among 7823 newborns screened for hypoglycemia in the newborn nursery, 298 (3.8%) required IV dextrose and NICU admission. Newborns who received IV dextrose experienced a median 29 (IQR, 19-40) BG

measurements while hospitalized. More than 25% of newborns had at least 40 BG measurements and almost half had at least 30 glucose measurements. The authors suggested that evidence-based practices along with noninvasive glucose monitoring approaches that may safely reduce the number of painful "pokes" during clinical care should be investigated.

OTHER NOTEWORTHY PUBLICATIONS – August 2025

Pediatrics

Changes in donor human milk use among us hospitals: 2018–2024

<https://pubmed.ncbi.nlm.nih.gov/40690966/>

Characteristics of children aged 0 to 23 months hospitalized with respiratory syncytial virus <https://pubmed.ncbi.nlm.nih.gov/40707020/>

Effectiveness of nirsevimab against rsv and rsv-related events in infants

<https://pubmed.ncbi.nlm.nih.gov/40690972/>

Perinatal substance use and factors associated with maternal and neonatal morbidity and mortality

<https://pubmed.ncbi.nlm.nih.gov/40633928/>

Developing parental identity in the neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/40639816/>

Quantifying the spectrum of early motor and language milestones in sex chromosome trisomy <https://pubmed.ncbi.nlm.nih.gov/40701561/>

Journal of Pediatrics

Racial and ethnic disparities in infant mortality rates among infants born preterm in the us beyond 44 weeks of postmenstrual age

<https://pubmed.ncbi.nlm.nih.gov/40252961>

Parental perspectives on development in children born extremely preterm

<https://pubmed.ncbi.nlm.nih.gov/40280474>

Effects of delayed umbilical cord clamping at different timings on neonatal hemoglobin and maternal blood loss during cesarean delivery at term: a randomized controlled trial

<https://pubmed.ncbi.nlm.nih.gov/40280473>

Management and outcomes of neonates with Treacher Collins and Nager syndromes

<https://pubmed.ncbi.nlm.nih.gov/40280475>

Furosemide safety in preterm infants at risk for bronchopulmonary dysplasia: a randomized clinical trial

<https://pubmed.ncbi.nlm.nih.gov/40306549>

Factors associated with early-childhood ipsilateral perfusion abnormalities among patients with congenital diaphragmatic hernia

<https://pubmed.ncbi.nlm.nih.gov/40280471>

Pediatric Research

Respiratory distress syndrome is the poster child for neonatology

<https://pubmed.ncbi.nlm.nih.gov/39821130>

Prophylactic low-dose hydrocortisone in neonates born extremely preterm: current knowledge and future challenges

<https://pubmed.ncbi.nlm.nih.gov/39592771>

Human breast milk-derived exosomes and their positive role on neonatal intestinal health

<https://pubmed.ncbi.nlm.nih.gov/39865171>

Trends of extreme hyperbilirubinemia related infant mortality in select European countries (1990–2019)

<https://pubmed.ncbi.nlm.nih.gov/39543402>

Effect of early antibiotic exposure on necrotizing enterocolitis and growth in extremely preterm infants

<https://pubmed.ncbi.nlm.nih.gov/39955429>

Detection of pulmonary hypertension in preterm infants with bronchopulmonary dysplasia using oxygen saturation data

<https://pubmed.ncbi.nlm.nih.gov/39915610>

Generation of PLASE score for patent ductus arteriosus using the PLASE study database

<https://pubmed.ncbi.nlm.nih.gov/39922923>

Outcome prediction for late-onset sepsis after premature birth

<https://pubmed.ncbi.nlm.nih.gov/39824936>

Impact of persistent pulmonary hypertension on cerebral oxygenation in infants with neonatal encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/39511445>

On target dosing: erythropoietin exposure in neonates with hypoxic-ischemic encephalopathy in the HEAL trial

<https://pubmed.ncbi.nlm.nih.gov/39523391>

For short-segment Hirschsprung disease, daily trans-anal irrigation before pull-through surgery is necessary?

<https://pubmed.ncbi.nlm.nih.gov/39550513>

Postnatal growth of etiologically characterized preterm newborns according to gestational age at birth

<https://pubmed.ncbi.nlm.nih.gov/39609613>

Antenatal Vitamin C differentially affects lung development in normally grown and growth restricted sheep

<https://pubmed.ncbi.nlm.nih.gov/40000856>

Synergism between TLR4 and B. infantis in the development of the premature intestine

<https://pubmed.ncbi.nlm.nih.gov/39939519>

Repetitive daily oxytocin treatment reduces weight gain but not acute neonatal procedural pain

<https://pubmed.ncbi.nlm.nih.gov/39523390>

Human milk extracellular vesicles modulate inflammation and cell survival in intestinal and immune cells

<https://pubmed.ncbi.nlm.nih.gov/39609615>

Sleep for infants after discharge from a neonatal ward: Expert- and parent endorsed strategies

<https://pubmed.ncbi.nlm.nih.gov/39824944>

Archives of Disease in Childhood - Fetal & Neonatal Edition

Validation of a machine learning algorithm for predicting hypoxic ischaemic encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/40233975/>

Routine pulse oximetry testing for newborn babies: a framework for practice

<https://pubmed.ncbi.nlm.nih.gov/40157739/>

Improving outcomes for very preterm babies in England: does place of birth matter?

Findings from OPTI-PREM, a national cohort study

<https://pubmed.ncbi.nlm.nih.gov/39730195/>

Plasma transfusions in neonatal intensive care units: a prospective observational study

<https://pubmed.ncbi.nlm.nih.gov/39832820/>

Neonatal skin antisepsis with alcohol-based compared to aqueous 2% chlorhexidine, used in moderate preterm infants or extremely preterm infants after the first week of life, is safe and may be associated with a reduced incidence of catheter-related bloodstream infections

<https://pubmed.ncbi.nlm.nih.gov/39904602/>

Outcomes used to measure the clinical application of neonatal palliative and/or end-of-life care in neonatal settings: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/39890444/>

Cerebral injury and long-term neurodevelopment impairment in children following severe fetomaternal transfusion: a retrospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/39870509/>

Video analysis of neonatal intubations using video laryngoscopy: a prospective comparison of clinical practice with resuscitation guidelines

<https://pubmed.ncbi.nlm.nih.gov/39832821/>

Nasal mask ventilator-delivered versus face mask T-piece resuscitator positive pressure ventilation during resuscitation of preterm neonates: a cohort study

<https://pubmed.ncbi.nlm.nih.gov/39919826/>

Motor and functional characteristics in school-age survivors of congenital diaphragmatic hernia: a cross-sectional observational study

<https://pubmed.ncbi.nlm.nih.gov/39956558/>

Success and safety of neonatal endotracheal tube exchanges: a NEAR4NEOS multicentre retrospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/39922689/>

Association between maternal sociodemographic characteristics and exclusive mother's own milk feeding in preterm infants: a cohort study using data from the National Neonatal Research Database

<https://pubmed.ncbi.nlm.nih.gov/40011027/>

A novel human milk fortifier supports adequate growth in very low birth weight infants: a non-inferiority randomised controlled trial

<https://pubmed.ncbi.nlm.nih.gov/40037774/>

Letter: Modelling the association of reduction in PM_{2.5} with medically attended acute respiratory illness in infants with mild bronchopulmonary dysplasia

<https://pubmed.ncbi.nlm.nih.gov/40274379/>

Lingual swelling in a boy aged 4 days due to a foregut duplication cyst

<https://pubmed.ncbi.nlm.nih.gov/39537350/>

Journal of Perinatology

Artificial intelligence in pediatric medicine: a call for rigorous reporting standards

<https://pubmed.ncbi.nlm.nih.gov/40175711/>

Variation in NICU utilization: a narrative review and path forward

<https://pubmed.ncbi.nlm.nih.gov/39354210/>

Evaluation of risk factors and outcomes of neonates with hypoxic ischemic encephalopathy and acute kidney injury

<https://pubmed.ncbi.nlm.nih.gov/40759728/>

Racial disparities and outcomes in neonatal hypoxic-ischemic encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/40542125/>

Impact of tele neonatology on time to goal temperature in out born neonates with hypoxic-ischemic encephalopathy requiring therapeutic hypothermia

<https://pubmed.ncbi.nlm.nih.gov/40442292/>

Effect of therapeutic hypothermia on surfactant proteins, anti-inflammatory and pro-fibrotic mediators

<https://pubmed.ncbi.nlm.nih.gov/40175710/>

Changes in the treatment and outcomes of different severities of neonatal hypoxic ischemic encephalopathy in California: a retrospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/39865163/>

Association between cardiovascular care and neurodevelopmental outcomes in infants with neonatal encephalopathy and hemodynamic instability

<https://pubmed.ncbi.nlm.nih.gov/39962327/>

The effect of using dexmedetomidine versus morphine as sedation on long-term neurodevelopmental outcomes of encephalopathic neonates undergoing therapeutic hypothermia

<https://pubmed.ncbi.nlm.nih.gov/39979431/>

A prospective study describing splanchnic NIRS and clinical outcomes in encephalopathic neonates receiving minimal enteral nutrition during therapeutic hypothermia

<https://pubmed.ncbi.nlm.nih.gov/40210989/>

Clinical characteristics and treatment analysis of neonatal testicular torsion

<https://pubmed.ncbi.nlm.nih.gov/40016324/>

General movement assessments in neonates born with congenital gastrointestinal anomalies: a single site, retrospective study

<https://pubmed.ncbi.nlm.nih.gov/39979435/>

Inter-center variations in inpatient outcomes for infants with gastroschisis from the Children's Hospital's Neonatal Consortium

<https://pubmed.ncbi.nlm.nih.gov/39663394/>

A survey of long-term NICU developmental follow-up practices in gastroschisis patients

<https://pubmed.ncbi.nlm.nih.gov/40216999/>

Short-term and four-year feeding and respiratory outcomes of infants with micrognathia

<https://pubmed.ncbi.nlm.nih.gov/40221612/>

An advanced neonatal resuscitation educational program in a surgical neonatal intensive care unit: development, implementation and audit from 2014 to 2023

<https://pubmed.ncbi.nlm.nih.gov/39658644/>

Demographic and clinical predictors and inter-center variability of tube feeding in preterm NICU patients

<https://pubmed.ncbi.nlm.nih.gov/40274980/>

Association between 5-minute oxygen saturation and neonatal death and intraventricular hemorrhage among extremely preterm infants

<https://pubmed.ncbi.nlm.nih.gov/39663396/>

Quality improvement initiative to decrease severe intraventricular hemorrhage rates in preterm infants by implementation of a care bundle

<https://pubmed.ncbi.nlm.nih.gov/40148581/>

Towards a new taxonomy of preterm birth

<https://pubmed.ncbi.nlm.nih.gov/39567650/>

Amniotic fluid: its role in fetal development and beyond

<https://pubmed.ncbi.nlm.nih.gov/40341778/>

Resuscitation after birth and beyond in the neonatal intensive care unit: NRP or PALS?

<https://pubmed.ncbi.nlm.nih.gov/40730915/>

What is the best nutritional strategy for moderate to late preterm infants?

<https://pubmed.ncbi.nlm.nih.gov/40175713/>

Caveats when interpreting meta-analyses of randomized controlled trials for patent ductus arteriosus in preterm infants

<https://pubmed.ncbi.nlm.nih.gov/40011554/>

Neonatology

Non-invasive intermittent positive pressure ventilation: addressing the “achilles heel” of systematic reviews on non-invasive ventilation in premature infants – an argument for more contemporaneous, well-conducted trials

<https://pubmed.ncbi.nlm.nih.gov/40414216/>

Intermittent hypoxemia and neurodevelopmental impairment at 12 and 24 months in preterm infants

<https://pubmed.ncbi.nlm.nih.gov/40418912/>

Investigating the mechanisms of reduced blood transfusions after delayed umbilical cord clamping: the titans causal mediation analysis

<https://pubmed.ncbi.nlm.nih.gov/40159334/>

Changes in fetal hemoglobin associated with erythrocyte transfusions are clinically relevant in SpO₂ targeting: a retrospective cohort observational study

<https://pubmed.ncbi.nlm.nih.gov/40159229/>

Microstructural maturation of the splenium of corpus callosum and cognitive and motor outcome in very preterm infants

<https://pubmed.ncbi.nlm.nih.gov/39899995/>

Feeding dynamics in very preterm infants with delayed oral feeding attainment

<https://pubmed.ncbi.nlm.nih.gov/40090316/>

MicroRNA signatures in umbilical cord blood of neonates exposed to maternal SARS-CoV-2 infection during pregnancy

<https://pubmed.ncbi.nlm.nih.gov/40090320/>

Deep-learning-based multi-class classification for neonatal respiratory diseases on chest radiographs in neonatal intensive care units

<https://pubmed.ncbi.nlm.nih.gov/40049153/>

Association of two neonatal encephalopathy scores with neurophysiology in newborns with suspected hypoxic-ischemic encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/40349687/>

Inhaled nitric oxide for bronchopulmonary dysplasia-associated pulmonary hypertension: a systematic review and narrative synthesis

<https://pubmed.ncbi.nlm.nih.gov/40031892/>

Early postnatal weight loss and its association with outcomes in very preterm neonates: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/40049150/>

Dexmedetomidine as a promising neuroprotective sedoanalgesic in neonatal therapeutic hypothermia: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/40319876/>

Early postnatal weight loss: is it a problem?

<https://pubmed.ncbi.nlm.nih.gov/40159412/>

American Journal of Perinatology

Prospective cohort study investigating polyunsaturated fatty acids and chronic lung disease in preterm infants

<https://pubmed.ncbi.nlm.nih.gov/39638326>

Outcomes in neonates receiving therapeutic hypothermia and extracorporeal membrane oxygenation versus extracorporeal membrane oxygenation alone

<https://pubmed.ncbi.nlm.nih.gov/39662895>

Intratracheal administration of budesonide with surfactant for prevention of death or bronchopulmonary dysplasia in extremely low birth weight infants: a before–after study

<https://pubmed.ncbi.nlm.nih.gov/39701145>

Enteral feeding in neonatal hypoxic-ischemic encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/39761677>

Journal of Neonatal-Perinatal Medicine

No new articles

Maternal Health, Neonatology and Perinatology

Evaluating birthing individual and infant healthcare utilization and costs among individuals experiencing perinatal mood and anxiety disorders

<https://pubmed.ncbi.nlm.nih.gov/40754586/>

Meta-analysis of maternal and neonatal outcomes of cannabis use in pregnancy current to March 2024

<https://pubmed.ncbi.nlm.nih.gov/40745566/>

Neoreviews

Human milk banking and donor milk: effect on growth and nutrition in the nicu

<https://pubmed.ncbi.nlm.nih.gov/40744458/>

Protein requirements in the neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/40744460/>

Acute liver failure in a neonate <https://pubmed.ncbi.nlm.nih.gov/40744457/>

Persistent failed extubation in a 29-week preterm neonate

<https://pubmed.ncbi.nlm.nih.gov/40744462/>

Psychosis in pregnancy and the neonatal ripple effect

<https://pubmed.ncbi.nlm.nih.gov/40744459/>

Preterm newborn with blue abdominal discoloration on the first newborn day

<https://pubmed.ncbi.nlm.nih.gov/40744464/>

Tracheobronchomalacia in an infant with severe bronchopulmonary dysplasia

<https://pubmed.ncbi.nlm.nih.gov/40744463/>

JAMA Pediatrics

Outcomes of preterm infants born at 22 to 23 weeks' gestation in 11 international neonatal networks

<https://pubmed.ncbi.nlm.nih.gov/40853670>

Supplemental donor milk vs infant formula in moderate to late preterm infants: a randomized clinical trial

<https://pubmed.ncbi.nlm.nih.gov/40758360>

BMC Pediatrics

Association of early hyperglycemia with morbidity and mortality in very low birth weight infants

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-025-06035-3.pdf>

Development and validation of a perinatal risk prediction model for recurrent respiratory tract infections in moderate-to-late preterm infants: a retrospective cohort study

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-025-05937-6.pdf>

Significance of ultrasound combined with near-infrared spectroscopy in monitoring transfusion-associated intestinal injury in extremely preterm infants: a study protocol for a prospective, observational study

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-025-05946-5.pdf>

Bacteriological profile and antibiotic susceptibility of early-onset neonatal bacterial infection in a neonatal unit in Cameroon

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-025-06056-y.pdf>

Early postnatal right-to-left patent ductus arteriosus shunting and severe outcomes in neonates with congenital diaphragmatic hernia: a retrospective cohort study

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-025-05986-x.pdf>

Relationship between early neurological function and motor skills in Brazilian preterm infants: a cross-sectional study

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-025-05942-9.pdf>

Evaluation of commercial point-of-care glucometers for detection and monitoring of neonatal hypoglycemia in resource-constrained settings

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-025-05934-9.pdf>

The effect of tactile versus auditory stimulation on reducing pain associated with invasive procedures among preterm neonates at NICUs

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-025-05979-w.pdf>

Pediatric Critical Care Medicine

Infant organ donation after death by circulatory criteria: a literature scoping review

<https://pubmed.ncbi.nlm.nih.gov/40488577>

A conversation in the delivery room

<https://pubmed.ncbi.nlm.nih.gov/40439524>

New England Journal of Medicine

The corporatization of U.S. health care: a gilded age for patients? the broken promises of profit-driven medicine

<https://pubmed.ncbi.nlm.nih.gov/40757660/>

Restoring the infant mortality rate as a measure of societal health and well-being

<https://pubmed.ncbi.nlm.nih.gov/40768723/>

Medical education: educational strategies for clinical supervision of artificial intelligence use

<https://pubmed.ncbi.nlm.nih.gov/40834302/>

The path forward for vaccine policy in the United States

<https://pubmed.ncbi.nlm.nih.gov/40737616/>

Lancet

Screening for spinal muscular atrophy in the UK

<https://pubmed.ncbi.nlm.nih.gov/40752903/>

Childhood epilepsy

<https://pubmed.ncbi.nlm.nih.gov/40684779/>

Is Gaza still a place for newborn life?

<https://pubmed.ncbi.nlm.nih.gov/40840476/>

Resident doctor strikes in the UK: a lived reality

<https://pubmed.ncbi.nlm.nih.gov/40854324/>

JAMA

SPIRIT 2025 statement: updated guideline for protocols of randomized trials

<https://pubmed.ncbi.nlm.nih.gov/40294593/>

FDA approves new RSV monoclonal antibody to protect infants

<https://pubmed.ncbi.nlm.nih.gov/40601574/>

Trends in US children's mortality, chronic conditions, obesity, functional status, and symptoms

<https://pubmed.ncbi.nlm.nih.gov/40622733/>

How immigration policy threatens US medical training and patient care: a fragile pipeline

<https://pubmed.ncbi.nlm.nih.gov/40489315/>

The CDC no longer recommends COVID-19 shots during pregnancy—now what?

<https://pubmed.ncbi.nlm.nih.gov/40643928/>

Randomized experiment of recruitment letter design to maximize clinical trial enrollment

<https://pubmed.ncbi.nlm.nih.gov/40560551/>

Changed recommendations for COVID-19 vaccines for children and pregnant women: a failure of process, policy, and science

<https://pubmed.ncbi.nlm.nih.gov/40512714/>

Professional responsibility for COVID-19 vaccination in pregnancy

<https://pubmed.ncbi.nlm.nih.gov/40560687/>

BMJ

No relevant content

Pediatric Infectious Disease Journal

Sequential respiratory syncytial virus and bacterial infections in the nasopharynx of Zambian infants and mothers

<https://pubmed.ncbi.nlm.nih.gov/40063743/>

Disease burden of respiratory syncytial virus in Korean children: a nationwide cohort study

<https://pubmed.ncbi.nlm.nih.gov/40323064/>

Urinary biomarkers and attainment of cefepime therapeutic targets in critically ill children

<https://pubmed.ncbi.nlm.nih.gov/40073372/>

Central auditory processing in children is affected by perinatal HIV exposure

<https://pubmed.ncbi.nlm.nih.gov/40073390/>

Transfer of bacteria from mothers to infants through breast milk: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/40063731/>

The utility of cerebrospinal fluid analysis in guiding management of infants exposed to syphilis in utero

<https://pubmed.ncbi.nlm.nih.gov/40073381/>

Maternal and perinatal factors that influence susceptibility to childhood infections

<https://pubmed.ncbi.nlm.nih.gov/40440682/>

Pediatric Cardiology

Pulmonary atresia with intact ventricular septum, a national comparison between interventional and surgical approach, in combination with a systemic literature review

<https://pubmed.ncbi.nlm.nih.gov/38967792/>

Interatrial communications: prevalence and subtypes in 12,385 newborns—a Copenhagen baby heart study

<https://pubmed.ncbi.nlm.nih.gov/39003423/>

Pediatric Neurology

No relevant articles

Obstetrics and Gynecology

Association of maternity care deserts with maternal and pregnancy-related mortality

<https://pubmed.ncbi.nlm.nih.gov/40570350/>

Sepsis and septic shock during pregnancy and postpartum

<https://pubmed.ncbi.nlm.nih.gov/40570351/>

Factors and perinatal outcomes associated with intrapartum cesarean delivery in twin gestations

<https://pubmed.ncbi.nlm.nih.gov/40373309/>

Influenza vaccination during pregnancy and infant influenza in the first 6 months of life

<https://pubmed.ncbi.nlm.nih.gov/40570349/>

American Journal of Obstetrics & Gynecology

No difference in outcomes with early vs late antibiotic prophylaxis for term premature rupture of membranes: a multicenter analysis

<https://pubmed.ncbi.nlm.nih.gov/39848395>

Outcomes of extremely preterm infants exposed to prolonged prelabor rupture of membranes before 24 weeks of gestation

<https://pubmed.ncbi.nlm.nih.gov/39800181>

The association of cytomegalovirus hyperimmune globulin with adverse pregnancy outcomes

<https://pubmed.ncbi.nlm.nih.gov/40221073>

Perinatal use of nonalcoholic beverages that mirror alcohol

<https://pubmed.ncbi.nlm.nih.gov/40228708>

Hospital Pediatrics

Defining the hospitalist workforce in the care of newborns

<https://pubmed.ncbi.nlm.nih.gov/40234021>

Population-level changes in infant outcomes associated with State “Eat Sleep Console” initiative

<https://pubmed.ncbi.nlm.nih.gov/40721219>

“Burden of “Pokes” in newborns with hypoglycemia who require IV dextrose

<https://pubmed.ncbi.nlm.nih.gov/40695483>

Implementation frameworks, strategies, and outcomes in optimizing central venous access

device practice in neonates: a scoping review

<https://pubmed.ncbi.nlm.nih.gov/40690977>

BASIC SCIENCE SELECTIONS

The impact of hyperoxia and antibiotics on lung mesenchymal cells in experimental bronchopulmonary dysplasia

<https://www.ncbi.nlm.nih.gov/pubmed/40824908>

Caspase-8-driven NLRP3 inflammasome activation exacerbates bronchopulmonary dysplasia by increasing the apoptosis and pyroptosis crosstalk of alveolar epithelial cells

<https://www.ncbi.nlm.nih.gov/pubmed/40483833>

Brainstem microglial cell morphology in neonatal rats with necrotizing enterocolitis and the effects of prenatal heparin-binding epidermal growth factor-like growth factor

<https://www.ncbi.nlm.nih.gov/pubmed/40799955>

Correlation of serum miR-203a-3p with the severity of neonates with necrotizing enterocolitis and analysis of its molecular mechanism

<https://www.ncbi.nlm.nih.gov/pubmed/40772554>

Activin A exacerbates neonatal necrotizing enterocolitis via ALK4-mediated apoptosis and barrier disruption

<https://www.ncbi.nlm.nih.gov/pubmed/40494204>

Single-cell transcriptomic profiling of brain cells in newborn rats following hypoxic ischemic encephalopathy

<https://www.ncbi.nlm.nih.gov/pubmed/40799188>

Impaired glymphatic transport in hypoxic-ischemic encephalopathy

<https://www.ncbi.nlm.nih.gov/pubmed/40769430>

Clinical

Association of early postnatal decline in fetal hemoglobin with bronchopulmonary dysplasia in very low birth weight infants: a cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/40830437>

Prediction of bronchopulmonary dysplasia by diaphragmatic ultrasound in preterm infants: a prospective pilot study

<https://www.ncbi.nlm.nih.gov/pubmed/40791096>

Tracheostomy outcomes in children with bronchopulmonary dysplasia

<https://www.ncbi.nlm.nih.gov/pubmed/40211655>

Risk factors for 30-day mortality in patients with surgically treated necrotizing enterocolitis: a multicenter retrospective cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/40118095>

Stem cell therapy in neonates with hypoxic-ischemic encephalopathy: a systematic review and meta-analysis

<https://www.ncbi.nlm.nih.gov/pubmed/40847199>

Diminished cerebral oxygen extraction and metabolic rate in neonates with hypoxic ischemic encephalopathy

<https://www.ncbi.nlm.nih.gov/pubmed/40747539>

The influence of varied parenteral nutrition protocols on the surgical incidence and prognosis of retinopathy of prematurity in preterm neonates

<https://www.ncbi.nlm.nih.gov/pubmed/40843071>

Validation of the SCREENROP criteria for retinopathy of prematurity screening: a canadian model for consideration

<https://www.ncbi.nlm.nih.gov/pubmed/40250745>