

#### **Publications Working Group**

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American Academy  
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Section on Neonatal-Perinatal Medicine

### **ARTICLES OF INTEREST – June 2024**

[Influence of eat, sleep, and console on infants pharmacologically treated for opioid withdrawal: a post hoc subgroup analysis of the ESC-NOW randomized clinical trial.](#)

Lori A Devlin, Zhuopei Hu, Stephanie L Merhar, et al. JAMA Pediatr.

This post hoc subgroup analysis involved infants pharmacologically treated in ESC-NOW, a stepped-wedge cluster randomized clinical trial conducted at 26 US hospitals, and evaluated differences in opioid exposure and total length of hospital stay (LOS) for pharmacologically treated infants managed with the ESC care approach vs usual care with the Finnegan tool. In the ESC-NOW trial, 463 of 1305 infants were pharmacologically treated (143/603 [23.7%] in the ESC care approach group and 320/702 [45.6%] in the usual care group). Mean total opioid exposure was lower in the ESC care approach group with an absolute difference of 4.1 morphine milligram equivalents per kilogram (MME/kg) (95% CI, 1.3-7.0) when compared with usual care (4.8 MME/kg vs 8.9 MME/kg, respectively;  $P = .001$ ) and mean length of stay was 6.2 days shorter (95% CI, 3.0-9.4) with the ESC care approach than with usual care (16.7 vs 22.9 days, respectively;  $P < .001$ ).

[Bleeding complications in neonates receiving extracorporeal membrane oxygenation and controlled hypothermia](#)

Swosti Joshi, Vilmaris Quinones Cardona, Erica Poletto, et al. Am J Perinatol.

This single center retrospective study included 36 neonates  $\geq 35$  weeks' gestation with refractory PPHN who required ECMO. Study groups were divided into those receiving controlled hypothermia (CH)/ECMO versus ECMO only. Of these, 44.4% ( $n = 16$ ) received CH/ECMO and 55.6% ( $n = 20$ ) received ECMO only. Bleeding complications were more common in CH/ECMO group 50% ( $n = 8$ ) versus ECMO only 15% ( $n = 3$ ,  $p = 0.023$ ). Functional status and survival to discharge were comparable between groups. The authors concluded that neonates who received CH/ECMO had higher bleeding complications than the ECMO only group and functional status and survival to discharge were no different between the two groups.

[Right ventricular function indices and platelet parameters for early prediction value of bronchopulmonary dysplasia: a retrospective study](#)

Tianzi Li, Bei Xia, Suixin Liang, et al. BMC Pediatr.

In this retrospective study the authors sought to examine the value of early echocardiographic indices for the right ventricular function combined with platelet (PLT) parameters for predicting bronchopulmonary dysplasia (BPD) in preterm infants. Echocardiographic indices of right ventricular function including tricuspid annular plane systolic excursion (TAPSE) and right ventricular index of myocardial performance (RIMP) were measured on DOL 1, DOL 7, and DOL 14. The PLT parameters including the PLT count, mean platelet volume (MPV), platelet hematocrit (PCT) level, and platelet distribution width (PDW) were measured on DOL 1, DOL 7, and DOL 14. A total of 220 preterm infants were included in this study, and of these, 85 infants developed BPD. The authors conclude that TAPSE and RIMP combined with PLT count and MPV can help identify preterm infants at an increased risk of developing BPD.

[I-FABP protein/mRNA and IL-6 as biomarkers of intestinal barrier dysfunction in neonates with necrotizing enterocolitis and SPF BALB/c mouse models](#)

Jun Chen, Zheng Yan, Zhibing Lin, et al. J Int Med Res.

The authors investigated intestinal fatty acid binding protein (I-FABP), I-FABP mRNA, and interleukin-6 (IL-6) as potential diagnostic biomarkers in NEC. Forty mice were subjected to hypoxic-ischemic intestinal injury, and then serum I-FABP protein and mRNA levels were quantified. Samples from 30 human neonates with NEC and 30 healthy neonates had serum I-FABP protein/mRNA and IL-6 levels measured. RESULTS: The mouse ileal tissue pathological score and I-FABP levels, as well as serum I-FABP and I-FABP mRNA levels, were significantly higher in the model group than in the control group. Serum I-FABP, I-FABP mRNA, and IL-6 levels were significantly higher in human neonates with NEC than in the healthy group. I-FABP protein/mRNA and IL-6 levels are useful biomarkers of intestinal ischemic injury in neonates with NEC.

[Evaluation of beneficial effects of dexpanthenol on hypoxic-ischemic encephalopathy](#)

Cuneyt Tayman, Ufuk Çakır, Abdullah Kurt, et al. Biotech Histochem.

The authors examined some effects of dexpanthenol on the brains of week-old rat pups with HIE induced by obstruction of the right carotid artery followed by keeping in 8% O<sub>2</sub> for 2 hours. Protein, DNA, and lipid oxidation degradation products were assayed and hippocampal and cortical cell apoptosis and neuronal cell numbers were evaluated in stained sections. Dexpanthenol application reduced oxidative stress and inflammation. TNF-alpha and IL-6 cytokine levels in HIE also decreased with dexpanthenol treatment. The numbers of caspase-3 positive cells in the dentate gyrus and CA1/CA2/CA3 regions of the hippocampus was lower, and apoptosis was decreased in the dexpanthenol-treated animals. These findings suggest possible clinical applications of dexpanthenol in human HIE.

### [Neonatal and obstetrical outcomes of pregnancies complicated by alloimmunization](#)

Timothy M Bahr, Sarah M Tweddell, Jennifer M Zalla, et al. Pediatrics.

This retrospective cohort study examined 707 neonates were born after a positive maternal antibody screen result (3.0/1000 live births) over a 6-year period. The objective of this study was to calculate the frequency of alloimmunization and summarize the outcomes based on antibody specificity, titer, and other clinical factors. Of the 676 neonates exposed to alloantibodies, the direct antibody test (DAT) result was positive, showing antigen-positivity and evidence of hemolytic disease of the fetus and newborn in 37% of those tested. Neonatal disease was most severe with DAT-positive anti-Rh antibodies (c, C, D, e, E). All neonatal red blood cell transfusions (15) and exchange transfusions (6) were due to anti-Rh alloimmunization. No neonates born to mothers with anti-M, anti-S, anti-Duffy, anti-Kidd A, or anti-Lewis required NICU admission for hyperbilirubinemia or transfusion. The study concludes that alloimmunization to Rh-group antibodies continues to cause a majority of the severe HDFN cases in our hospital system. In neonates born to alloimmunized mothers, a positive DAT result revealing antigen-positivity is the best predictor of anemia and hyperbilirubinemia.

### [Academic performance in moderately and late preterm children in the United States: are they catching up?](#)

Nicole E Lock, Mark D DeBoer, Rebecca J Scharf, et al. J Perinatol.

This study evaluated elementary school outcomes and performance of children born between 32 and 36 6/7 weeks gestation compared to children born after 37 weeks. The data was obtained from the Early Childhood Longitudinal Study, Kindergarten Class of 2010-2011. Parents were asked about the gestational age of the children and cohorts were established accordingly. Outcomes were assessed using direct child assessments, teacher surveys, and parental surveys. The study results showed that children born between 32 and 34 6/7 weeks gestation have poor school performance and at risk for learning disabilities compared to term children.

### [Dextrose gel prophylaxis for neonatal hypoglycaemia and neurocognitive function at early school age: a randomised dosage trial](#)

Xingyu Wei, Nike Franke, Jane M Alsweiler, et al. Arch Dis Child Fetal Neonatal Ed.

This is an early school age follow up study to the initial study that assessed prophylactic oral dextrose gel for neonates at risk of hypoglycaemia. Population studied were children born at  $\geq 35$  weeks with  $\geq 1$  risk factor for neonatal hypoglycaemia (maternal diabetes, lga, sga, or late preterm). This follow up study saw no significant differences in the rate of neurocognitive impairment between those randomised to placebo and dextrose gel (200mg/kg to 1000 mg/kg groups). However, when children who were exposed to dextrose group was combined, compared to control/placebo, there was a lower risk of motor impairment and higher mean cognitive scores. Due to this potential benefit, further studies are needed.

## **OTHER NOTEWORTHY PUBLICATIONS – May 2024**

### Pediatrics

Enhancing NICU care and communication: perspectives of moderately preterm infant parents

<https://www.ncbi.nlm.nih.gov/pubmed/38716568>

Neonatal and obstetrical outcomes of pregnancies complicated by alloimmunization

<https://www.ncbi.nlm.nih.gov/pubmed/38784990>

### Journal of Pediatrics

Racial and ethnic inequities in therapeutic hypothermia and neonatal hypoxic–ischemic encephalopathy: a retrospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/38369239>

Exposure to paracetamol in early pregnancy and the risk of developing cerebral palsy: a case-control study using serum samples

<https://pubmed.ncbi.nlm.nih.gov/38369234>

Process and outcome measures for infants born moderate and late preterm in tertiary Canadian neonatal intensive care units

<https://pubmed.ncbi.nlm.nih.gov/38401787>

Screening for delayed thyroid stimulation hormone rise and atypical congenital hypothyroidism in infants born very preterm and infants with very low birth weight

<https://pubmed.ncbi.nlm.nih.gov/38401790>

The impact of prenatal alcohol exposure on longitudinal growth, nutritional status, and insulin-like growth factor 1 in early childhood in Leyte, the Philippines

<https://pubmed.ncbi.nlm.nih.gov/38401788>

Management of hematochezia in infants with congenital heart disease admitted to the acute care cardiology unit: a multicenter retrospective pilot study

<https://pubmed.ncbi.nlm.nih.gov/38417782>

Young infant mortality associated with preterm and small-for-gestational-age births in rural Bangladesh: a prospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/38432296>

Effect of minimization of early blood sampling losses among extremely premature neonates: a randomized clinical trial

<https://pubmed.ncbi.nlm.nih.gov/38447757>

Relationships of severity of bronchopulmonary dysplasia with adverse neurodevelopmental outcomes and poor respiratory function at 7-8 years of age

<https://pubmed.ncbi.nlm.nih.gov/38453001>

The association between breastfeeding and growth among infants with moderately low birth weight: a prospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/38447758>

Pediatric Research

No new content

Archives of Disease in Childhood - Fetal & Neonatal Edition

Prevalence of bradycardia in 4876 newborns in the first minute after birth and association with positive pressure ventilation: a population-based cross-sectional study

<https://pubmed.ncbi.nlm.nih.gov/37940377/>

Early and exclusive enteral nutrition in infants born very preterm

<https://pubmed.ncbi.nlm.nih.gov/38135494/>

Fetal single ventricle journey to first postnatal procedure: a multicentre UK cohort study

<https://pubmed.ncbi.nlm.nih.gov/38123956/>

Randomised crossover study on pulse oximeter readings from different sensors in very preterm infants <https://pubmed.ncbi.nlm.nih.gov/38129130/>

Non-invasive high-frequency oscillatory ventilation (NHFOV) versus nasal continuous positive airway pressure (NCPAP) for preterm infants: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/38228382/>

Assessing the influence of abdominal compression on time to return of circulation during resuscitation of asphyxiated newborn lambs: a randomised preclinical study

<https://pubmed.ncbi.nlm.nih.gov/38123977/>

Prevalence and early surgical outcome of congenital diaphragmatic hernia in the Netherlands: a population-based cohort study from the European Pediatric Surgical Audit

<https://pubmed.ncbi.nlm.nih.gov/38195217/>

\*Dextrose gel prophylaxis for neonatal hypoglycaemia and neurocognitive function at early school age: a randomised dosage trial <https://pubmed.ncbi.nlm.nih.gov/38307710/>

Sustained inflation and chest compression versus 3:1 chest compression to ventilation ratio during cardiopulmonary resuscitation of asphyxiated newborns (SURV1VE): A cluster randomised controlled trial <https://pubmed.ncbi.nlm.nih.gov/38212104/>

Parent-reported health outcomes at preschool age in preterm survivors: a population-based cohort study <https://pubmed.ncbi.nlm.nih.gov/38135493/>

Doxapram for apnoea of prematurity and neurodevelopmental outcomes at age 5–6 years  
<https://pubmed.ncbi.nlm.nih.gov/38228381/>

Continuous non-invasive measurement of cardiac output in neonatal intensive care using regional impedance cardiography: a prospective observational study  
<https://pubmed.ncbi.nlm.nih.gov/38123965/>

Journal of Perinatology

Fundamentals of designing high-quality surveys: revisiting neonatal perinatal medicine survey applications

<https://pubmed.ncbi.nlm.nih.gov/37863984/>

Caffeine for apnea and prevention of neurodevelopmental impairment in preterm infants: systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/38553606/>

Association of maternal pre-pregnancy or first trimester body mass index with neurodevelopmental impairment or death in extremely low gestational age neonates  
<https://pubmed.ncbi.nlm.nih.gov/38396053/>

Contemporary definitions of infant growth failure and neurodevelopmental and behavioral outcomes in extremely premature infants at two years of age

<https://pubmed.ncbi.nlm.nih.gov/38195921/>

Academic performance in moderately and late preterm children in the United States: are they catching up?

<https://pubmed.ncbi.nlm.nih.gov/38499752/>

Grade 7 school performance of children born preterm: a retrospective Canadian Cohort study  
<https://pubmed.ncbi.nlm.nih.gov/38438788/>

Health-related quality of life at age 10 years in children born extremely preterm  
<https://pubmed.ncbi.nlm.nih.gov/38760579/>

Estimation of the causal effect of sex on neonatal intensive care unit outcomes among very low birth weight infants

<https://pubmed.ncbi.nlm.nih.gov/38710836/>

Associations between sociodemographic characteristics and neonatal length of the stay  
<https://pubmed.ncbi.nlm.nih.gov/38773215/>

aEEG in the first 3 days after extremely preterm delivery relates to neurodevelopmental outcomes  
<https://pubmed.ncbi.nlm.nih.gov/38553599/>

The contribution of low Apgar scores in identifying neonates with short-term morbidities in a large single center cohort

<https://pubmed.ncbi.nlm.nih.gov/38548866/>

Banked term umbilical cord blood to meet the packed red blood cell transfusion needs of extremely-low-gestational-age neonates: a feasibility analysis

<https://pubmed.ncbi.nlm.nih.gov/38030793/>

Association of low hemoglobin at birth and neurodevelopmental outcomes in preterm neonates  $\leq 28$  weeks' gestation: a retrospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/38553601/>

Erythropoietin and retinopathy of prematurity: a retrospective cohort study in Japan, 2008–2018

<https://pubmed.ncbi.nlm.nih.gov/38514743/>

Efficacy of recombinant erythropoietin for the late treatment of anemia of prematurity in a level IV neonatal intensive care unit: a retrospective single-center cohort study

<https://pubmed.ncbi.nlm.nih.gov/38773216/>

End-tidal carbon monoxide concentrations measured within 48 hours of birth predict hemolytic hyperbilirubinemia

<https://pubmed.ncbi.nlm.nih.gov/38627593/>

Neonatology

Pancreatic insufficiency, digestive enzyme supplementation, and postnatal growth in preterm babies <https://pubmed.ncbi.nlm.nih.gov/38246160/>

Positive pressure ventilation in preterm infants in the delivery room: a review of current practices, challenges, and emerging technologies

<https://pubmed.ncbi.nlm.nih.gov/38467119/>

International online survey on the management of patent ductus arteriosus

<https://pubmed.ncbi.nlm.nih.gov/38211569/>

Gestational age-related urinary peptidome changes in preterm and term born infants

<https://pubmed.ncbi.nlm.nih.gov/38382482/>

Technical skills curriculum in neonatology: a modified European delphi study

<https://pubmed.ncbi.nlm.nih.gov/38408441/>

Association between intermittent hypoxemia and NICU length of stay in preterm infants

<https://pubmed.ncbi.nlm.nih.gov/38437802/>

The incidence of necrotizing enterocolitis and late-onset sepsis during the COVID-19 pandemic in Sweden: a population-based cohort study

<https://pubmed.ncbi.nlm.nih.gov/38442693/>

Early brain activity in very preterm infants of mothers with gestational diabetes mellitus: a pilot study <https://pubmed.ncbi.nlm.nih.gov/38346405/>

Close collaboration with parents affects the length of stay and growth in preterm infants: a register-based study in Finland

<https://pubmed.ncbi.nlm.nih.gov/38354726/>

High flow nasal cannula for weaning nasal continuous positive airway pressure in preterm infants: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/38412846/>

Association between antenatal antibiotic exposure and bronchopulmonary dysplasia: a systematic review and bayesian model-averaged meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/38310865/>

International cohort of neonatal timothy syndrome

<https://pubmed.ncbi.nlm.nih.gov/38211567/>

Association of neonatal antibiotic exposure with long-term growth trajectory faltering in preterm-birth children

<https://pubmed.ncbi.nlm.nih.gov/38286129/>

American Journal of Perinatology

Oxygen saturation profiles in healthy term infants in early postnatal life

<https://pubmed.ncbi.nlm.nih.gov/35815572/>

The validity of positive coagulase-negative staphylococcus cultures for the diagnosis of sepsis in the neonatal unit

<https://pubmed.ncbi.nlm.nih.gov/35381607/>

Delivery mode and neurological complications in very low birth weight infants

<https://pubmed.ncbi.nlm.nih.gov/35378547/>

Assessment of serum interleukin-27 and mean platelet volume in late-onset neonatal sepsis

<https://pubmed.ncbi.nlm.nih.gov/35580626/>

Outcomes of moderate preterm infants of insulin-dependent diabetic mothers

<https://pubmed.ncbi.nlm.nih.gov/35299277/>

Antiapoptotic effects of hydroxychloroquine on hypoxic-ischemic injury in neonatal rat brain: may hydroxychloroquine be an adjuvant therapy?

<https://pubmed.ncbi.nlm.nih.gov/35292947/>



Maternal blood angiogenic factors and the prediction of critical adverse perinatal outcomes among small-for-gestational-age pregnancies

<https://pubmed.ncbi.nlm.nih.gov/35292946>

Clinical outcomes of neonatal intensive care unit graduates with bridled nasogastric feeding tubes

<https://pubmed.ncbi.nlm.nih.gov/35580625>

Outcomes of nonvigorous neonates born through meconium-stained amniotic fluid after a practice change to no routine endotracheal suctioning from a developing country

<https://pubmed.ncbi.nlm.nih.gov/35288884>

Maternal stress experience in the neonatal intensive care unit after preterm delivery

<https://pubmed.ncbi.nlm.nih.gov/36029767>

A multicountry analysis of prevalence and mortality among neonates and children with bladder exstrophy

<https://pubmed.ncbi.nlm.nih.gov/35644130>

The mechanism of hyperoxia-induced neonatal renal injury and the possible protective effect of resveratrol

<https://pubmed.ncbi.nlm.nih.gov/35381611>

Neonatal outcomes among fetuses with an abdominal circumference <3rd %ile and estimated fetal weight 3rd to 9th %ile compared to fetuses with an EFW <3rd %ile

<https://pubmed.ncbi.nlm.nih.gov/38301725>

Systematic review of kangaroo care duration's impact in neonatal intensive care units on infant-maternal health

<https://pubmed.ncbi.nlm.nih.gov/36577443>

Factors associated with receiving no maternal or neonatal interventions among periviable deliveries

<https://pubmed.ncbi.nlm.nih.gov/35623626>

Risk factors of neonatal acute respiratory distress syndrome based on the Montreux definition in neonates with sepsis: a retrospective case-control study

<https://pubmed.ncbi.nlm.nih.gov/35253119>

Cord blood cell-free DNA concentration: a novel marker for neonatal wellbeing

<https://pubmed.ncbi.nlm.nih.gov/35240699>

Maternal body mass index and risk of bronchopulmonary dysplasia in extremely preterm infants

<https://pubmed.ncbi.nlm.nih.gov/35240704>

Resveratrol attenuates hyperoxia lung injury in neonatal rats by activating SIRT1/PGC-1 $\alpha$  signaling pathway

<https://pubmed.ncbi.nlm.nih.gov/35240708>

Bleeding complications in neonates receiving extracorporeal membrane oxygenation and controlled hypothermia

<https://pubmed.ncbi.nlm.nih.gov/35240700>

Vertical transmission of SARS-CoV-2 during pregnancy: a prospective Italian cohort study

<https://pubmed.ncbi.nlm.nih.gov/35263767>

Acquisition of behavioral skills after manikin-based simulation of neonatal resuscitation by fellows in neonatology

<https://pubmed.ncbi.nlm.nih.gov/35272385>

Hair cortisol concentrations in opioid-exposed versus nonexposed mother–infant dyads

<https://pubmed.ncbi.nlm.nih.gov/38160676>

Journal of Neonatal-Perinatal Medicine

No new content

Maternal Health, Neonatology and Perinatology

Racial and ethnic differences in the risk of recurrent preterm or small for gestational age births in the United States: a systematic review and stratified analysis

<https://www.ncbi.nlm.nih.gov/pubmed/38825670>

Neoreviews

Developmental outcomes after opioid exposure in the fetus and neonate

<https://www.ncbi.nlm.nih.gov/pubmed/38821910>

Neonatal seizures

<https://www.ncbi.nlm.nih.gov/pubmed/38821905>

Cerebral palsy: a current perspective

<https://www.ncbi.nlm.nih.gov/pubmed/38821909>

A preterm infant with petechial rash

<https://www.ncbi.nlm.nih.gov/pubmed/38821906>

Respiratory distress in a late preterm: is it sepsis or inborn error of metabolism?

<https://www.ncbi.nlm.nih.gov/pubmed/38821903>

A unique presentation of nodular masses in infancy

<https://www.ncbi.nlm.nih.gov/pubmed/38821908>

Syphilis in pregnancy: fetal and neonatal complications

<https://www.ncbi.nlm.nih.gov/pubmed/38821907>

Newborn with atypical progressive hydrocephalus

<https://www.ncbi.nlm.nih.gov/pubmed/38821911>

Nonimmune hydrops and left-sided cardiac defect: prenatal presentation of Kabuki Syndrome

<https://www.ncbi.nlm.nih.gov/pubmed/38821912>

JAMA Pediatrics

Influence of eat, sleep, and console on infants pharmacologically treated for opioid withdrawal: a post hoc subgroup analysis of the ESC-NOW randomized clinical trial

<https://pubmed.ncbi.nlm.nih.gov/38619854>

Clinical effectiveness of newborn screening for spinal muscular atrophy: a nonrandomized controlled trial

<https://pubmed.ncbi.nlm.nih.gov/38587854>

Relaxation therapy and human milk feeding outcomes: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/38709505>

Association of fetal catecholamines with neonatal hypoglycemia

<https://pubmed.ncbi.nlm.nih.gov/38557708>

Unintended perinatal health consequences associated with a Swedish family policy

<https://pubmed.ncbi.nlm.nih.gov/38587820>

BMC Pediatrics

Role of fibroblast growth factor-23 as an early marker of metabolic bone disease of prematurity

<https://pubmed.ncbi.nlm.nih.gov/38951759/>

Feeding modalities, HIV transmission and its predictors among HIV-exposed infants visited Gamo and Gofa zones public health facilities, Southern Ethiopia: a retrospective follow up study

<https://pubmed.ncbi.nlm.nih.gov/38926639/>

A term infant with severe hypereosinophilia secondary to CMV infection and the STAT1 gene mutation: a case report <https://pubmed.ncbi.nlm.nih.gov/38918745/>

Exploring factors influencing delayed first antibiotic treatment for suspected early-onset sepsis in preterm newborns: a study before quality improvement initiative  
<https://pubmed.ncbi.nlm.nih.gov/38918783/>

Educational outcomes among children with congenital heart disease compared to peers: a Scotland-wide record-linkage study of 715,850 schoolchildren

<https://pubmed.ncbi.nlm.nih.gov/38909207/>

Predictors for poor daily weight gain in preterm neonates exposed to different dose regimens of caffeine in ICU- a retrospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/38898410/>

The performance of the practices associated with the occurrence of severe intraventricular hemorrhage in the very premature infants: data analysis from the Chinese neonatal network  
<https://pubmed.ncbi.nlm.nih.gov/38877528/>

Successful treatment of retinopathy of prematurity in oculocutaneous albinism with OCA2 variants: a case report and review of literature

<https://pubmed.ncbi.nlm.nih.gov/38858617/>

Necrotizing enterocolitis in a term newborn after spontaneous cerebral parenchymal hemorrhage: a case report

<https://pubmed.ncbi.nlm.nih.gov/38851677/>

Dolphin CONTINUE: a multi-center randomized controlled trial to assess the effect of a nutritional intervention on brain development and long-term outcome in infants born before 30 weeks of gestation <https://pubmed.ncbi.nlm.nih.gov/38849784/>

Pediatric Critical Care Medicine

Nicardipine or nitroprusside for postoperative blood pressure control in infants after surgery for congenital heart disease: single-center retrospective noninferiority and cost analysis, 2016–2020  
<https://pubmed.ncbi.nlm.nih.gov/38299930/>

Nicardipine versus nitroprusside—the budget-friendly battle for baby blood pressure control  
<https://pubmed.ncbi.nlm.nih.gov/38836713/>

Association between neighborhood socioeconomic factors and length of stay after surgery for congenital heart disease

<https://pubmed.ncbi.nlm.nih.gov/38299943/>

Continuous renal replacement therapy: current state and future directions for worldwide practice  
<https://pubmed.ncbi.nlm.nih.gov/38511997/>

Should physicians caring for children with critical heart disease undergo specialized training and certification?

<https://pubmed.ncbi.nlm.nih.gov/38836715/>

Outcomes of prophylactic peritoneal dialysis catheter insertion in children undergoing cardiac surgery: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/38334438/>

New England Journal of Medicine

Efforts toward equity: expect with me — group prenatal care to reduce disparities

<https://pubmed.ncbi.nlm.nih.gov/38856191/>

Lancet

The road ahead for immediate kangaroo mother care in resource-constrained health systems

<https://pubmed.ncbi.nlm.nih.gov/38754456/>

Effectiveness of kangaroo mother care before clinical stabilisation versus standard care among neonates at five hospitals in Uganda (OMWaNA): a parallel-group, individually randomised controlled trial and economic evaluation

<https://pubmed.ncbi.nlm.nih.gov/38754454/>

JAMA

Assessing the real-world effectiveness of immunizations for respiratory syncytial virus

<https://pubmed.ncbi.nlm.nih.gov/38602685/>

BMJ

No relevant articles

Pediatric Infectious Disease Journal

Differential abundances of bdellovibrio and rheinheimera in the oral microbiota of neonates with and without clinical sepsis

<https://pubmed.ncbi.nlm.nih.gov/38295225/>

Comparison of bordetella pertussis antibody levels in pregnant women and umbilical cord blood: a multicenter study

<https://pubmed.ncbi.nlm.nih.gov/38451894/>

Specific IgA, but not IgG, in human milk from COVID-19-infected mothers neutralizes Sars-CoV-2

<https://pubmed.ncbi.nlm.nih.gov/38421196/>

Late neonatal sepsis in very-low-birth-weight premature newborns is associated with alterations in neurodevelopment at twenty-five months of age

<https://pubmed.ncbi.nlm.nih.gov/38359341/>

Behavioral problems and family impact in congenital cytomegalovirus infection

<https://pubmed.ncbi.nlm.nih.gov/38753994/>

Use of the “sepsis risk calculator” in Belgian newborns: a retrospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/38380927/>

Pulmonary complications of cytomegalovirus infection in neonates and infants: a systematic review of case reports and pooled analysis

<https://pubmed.ncbi.nlm.nih.gov/38380928/>

Pediatric Cardiology

No new content

Pediatric Neurology

Retrospective multicenter cohort study on safety and electroencephalographic response to lacosamide for neonatal seizures

<https://pubmed.ncbi.nlm.nih.gov/38579433/>

Risk factors for term-born spastic diplegic cerebral palsy: a case-control study

<https://pubmed.ncbi.nlm.nih.gov/38581726/>

Congenital cytomegalovirus infection with isolated “minor” lesions at fetal magnetic resonance imaging: long-term neurological outcome

<https://pubmed.ncbi.nlm.nih.gov/38631078/>

Obstetrics and Gynecology

No relevant articles

American Journal of Obstetrics & Gynecology

Preventing posttraumatic stress disorder following childbirth: a systematic review and meta-analysis <https://pubmed.ncbi.nlm.nih.gov/38122842/>

Intra-amniotic infection and/or inflammation is associated with fetal cardiac concentric hypertrophy and diastolic dysfunction in preterm labor and preterm prelabor rupture of membranes <https://pubmed.ncbi.nlm.nih.gov/38290925/>

Incidence of group B streptococcus early-onset sepsis in term neonates with second-line prophylaxis maternal intrapartum antibiotics: a multicenter retrospective study

<https://pubmed.ncbi.nlm.nih.gov/37890649/>

Maternal body mass index, birthweight, and placental glucose metabolism: evidence for a role of placental hexokinase

<https://pubmed.ncbi.nlm.nih.gov/37925123/>

Absence of adverse maternal and neonatal outcomes in patients with 1 or 2 abnormal values during early glucose tolerance testing

<https://pubmed.ncbi.nlm.nih.gov/38242338/>

Transplacental transmission of the COVID-19 vaccine messenger RNA: evidence from placental, maternal, and cord blood analyses postvaccination

<https://pubmed.ncbi.nlm.nih.gov/38307473/>

Hospital Pediatrics

Quality improvement project reducing sputum cultures for pediatric patients with a tracheostomy

<https://pubmed.ncbi.nlm.nih.gov/38916049/>

How pediatric hospitalists can support breastfeeding dyads using a helpful mnemonic: “breast”

<https://pubmed.ncbi.nlm.nih.gov/38845546/>

BASIC SCIENCE SELECTIONS

Leveraging integrated RNA sequencing to decipher adrenomedullin's protective mechanisms in experimental bronchopulmonary dysplasia

<https://www.ncbi.nlm.nih.gov/pubmed/38927741>

Decreased liver kinase B1 expression and impaired angiogenesis in a murine model of bronchopulmonary dysplasia

<https://www.ncbi.nlm.nih.gov/pubmed/38869353>

I-FABP protein/mRNA and IL-6 as biomarkers of intestinal barrier dysfunction in neonates with necrotizing enterocolitis and SPF BALB/c mouse models

<https://www.ncbi.nlm.nih.gov/pubmed/38867509>

Butyrate improves recovery from experimental necrotizing enterocolitis by metabolite hesperetin through potential inhibition the PI3K-Akt pathway

<https://www.ncbi.nlm.nih.gov/pubmed/38850657>

Evaluation of beneficial effects of dexpanthenol on hypoxic-ischemic encephalopathy

<https://www.ncbi.nlm.nih.gov/pubmed/38869860>

Diabetes drugs activate neuroprotective pathways in models of neonatal hypoxic-ischemic encephalopathy

<https://www.ncbi.nlm.nih.gov/pubmed/38783166>

Other relevant articles

Association between bronchopulmonary dysplasia severity and its risk factors and long-term outcomes in three definitions: a historical cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/38897634>

Navigating diagnostic and treatment challenges of pulmonary hypertension in infants with bronchopulmonary dysplasia

<https://www.ncbi.nlm.nih.gov/pubmed/38929946>

Platelet parameters for early prediction value of bronchopulmonary dysplasia: a retrospective study <https://www.ncbi.nlm.nih.gov/pubmed/38862972>

Repeated intravenous doses of human umbilical cord-derived mesenchymal stromal cells for bronchopulmonary dysplasia: results of a phase 1 clinical trial with 2-year follow-up

<https://www.ncbi.nlm.nih.gov/pubmed/38556960>

Measurement of lung oxygenation by near-infrared spectroscopy in preterm infants with bronchopulmonary dysplasia

<https://www.ncbi.nlm.nih.gov/pubmed/38441387>

Mitochondrial DNA mutations in extremely preterm infants with bronchopulmonary dysplasia

<https://www.ncbi.nlm.nih.gov/pubmed/38432533>

Lung ultrasound for prediction of surfactant requirement in Indian preterm neonates: a diagnostic accuracy study

<https://www.ncbi.nlm.nih.gov/pubmed/38829378>

Searching molecular biomarkers correlating with BSID-III at 24 months in infants with neonatal hypoxic-ischemic encephalopathy

<https://www.ncbi.nlm.nih.gov/pubmed/38916739>

Effectiveness and safety of dexmedetomidine in neonates with hypoxic ischemic encephalopathy undergoing therapeutic hypothermia

<https://www.ncbi.nlm.nih.gov/pubmed/38863848>

Exposure to persistent hemodynamically significant patent ductus arteriosus is associated with retinopathy of prematurity

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Treated cases of retinopathy of prematurity in germany: 10-year data from the retina.net  
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Two-year neurodevelopmental outcome in extremely preterm-born children: the austrian preterm  
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