

## **Publications Working Group**

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Section on Neonatal-Perinatal Medicine

## **ARTICLES OF INTEREST – November 2025**

[Management of the patent ductus arteriosus among infants born at 23 to 32 weeks' gestation between 2011 to 2022: a report from in the Children's Hospitals Neonatal Consortium](#)

Mark F Weems, Molly K Ball, Isabella Zaniletti, et al. *J Perinatol*

This 12-year (2011-2022) retrospective study of premature infants (< 33 weeks) included 19,843 infants with PDA from NICU's included in Children's Hospitals Neonatal Consortium. The use of pharmacotherapy increased 44% (relative) over time, mostly with increased acetaminophen use. There was a 12.7-fold increase in exposure to multiple PDA medications over the study period. While the rate of definitive closure did not change, use of transcatheter PDA closure increased from 0 to 20.3% and surgical ligation decreased from 25.1% to 3.6%.

[Neurodevelopmental outcomes at age 3 years of preterm infants born at 22–31 weeks' gestation](#)

Yumi Kono, Satoshi Kusuda, Toshihiko Nishida, et al. *J Perinatol*

This secondary analysis of neurodevelopmental outcomes included infants born before 32 weeks' gestation (2012-2014) from the Improvement of NICU practices and Team Approach Cluster randomized controlled Trial (INTACT). Among 2,722 infants, NICU survival rate was 96.5% (range 72.1-99.6%) at 22-31 weeks. At age three years, 2,336 (89.5% of 2,610 survivors) were completely assessed; 303 had moderate neurodevelopmental impairment and 183 had severe neurodevelopmental impairment. Of these, the proportions of infants surviving without neurodevelopmental impairment

increased with gestational age; 45.2% at 22 weeks, 57.5% at 23 weeks, 88.1% at 31 weeks. The authors concluded that although survival without neurodevelopmental impairment varied by gestational age, more than half (55.0%, 83/151) of infants born at 22-23 weeks who survived to age three years were without neurodevelopmental sequelae.

#### [Late antibiotic use among preterm infants admitted to the neonatal intensive care unit](#)

The authors sought to describe late antibiotic use patterns in preterm infants aged over 3 days. This retrospective cross-sectional cohort study using the Premier Health Database, included infants at or under 34 weeks' gestation who were admitted to a neonatal intensive care unit (NICU) from 2009 to 2023. Late antibiotic regimens were defined by initiation on or after day 4 and categorized by the antibiotics prescribed on the first day of each course. Among 420,687 eligible infants admitted to 699 centers over 15 years, 65 398 infants (15.5%) were administered late antibiotics. Antibiotic administration was inversely correlated with gestational age, with 75.0% of infants born 22 to 24 weeks given late antibiotics. Vancomycin and gentamicin (19.2%) and ampicillin and gentamicin (12.0%) were the most frequent late regimens. Antibiotic choice changed over the NICU care course, with cefazolin being the dominant exposure after 90 days of age. Significant heterogeneity in late antibiotic administration and content supports the need for late antibiotic stewardship guidance among preterm infants.

#### [Prognostic accuracy of BPD definitions for long-term outcomes in preterm infants: a systematic review](#)

The authors sought to identify the BPD definition with the optimal predictive performance for long-term respiratory and neurological outcomes in preterm infants. An electronic search identified studies in Medline and Embase from inception to August 2024. Studies assessing the performance of one or more BPD definitions for predicting long-term respiratory and/or neurological outcomes were included. Of the 6045 identified studies, 18 were included. Heterogeneity between studies resulted in inconsistent prognostic accuracy for long-term outcomes. The 2001 NIH definition showed higher prognostic accuracy for respiratory and neurological outcomes compared with the 1988 Shennan BPD definition. This systematic review shows that comparisons between the 2001 NIH definition and newer BPD definitions yield inconsistent results for predicting long-term outcomes. None of the current BPD definitions consistently provided sufficient prognostic accuracy for long-term respiratory and neurodevelopmental sequelae in very preterm infants.

[Neurodevelopmental challenges at age four following fetal exposure to maternal opioid maintenance treatment](#)

Minna M Kanervo, Sarimari J Tupola, Eeva M Nikkola, et al. *Pediatr Res*

A population-based cohort study comparing neurodevelopment of children with intrauterine exposure to buprenorphine/naloxone or methadone (n = 123) to typically developing children (n = 434) at age 4. using standardized language, motor-perceptual, and attention-behavioral skills screening tests. Children with prenatal OMT exposure exhibited significantly higher rates of developmental challenges, including speech and language disorders, ADHD, conduct, emotional, and social disorders with ORs ranging from 8.97 to 210.21. Close monitoring, stable environment and early support for these children who are exposed prenatally to opioids are crucial.

[Breastfeeding duration and risk of depressive symptoms in adolescents](#)

Sandrine Mengue M'efoue, Yoshihiro Miyake, Hisafumi Kihara, et al. *Pediatr Res*.

A prospective cohort study examining whether breastfeeding duration is associated with depressive symptoms in adolescence. Among 872 adolescents assessed at age 13 using the CES-D scale, 23% screened positive for depressive symptoms (score  $\geq 16$ ).

Breastfeeding between 6 and <18 months was associated with a significantly lower risk of depressive symptoms (adjusted OR 0.58, 95% CI 0.34–0.99) compared with breastfeeding for <6 months, while breastfeeding for  $\geq 18$  months did not show a statistically significant reduction (adjusted OR 0.78, 95% CI 0.46–1.32). This study suggests that breastfeeding for at least 6 months may be beneficial for reducing adolescent depressive symptoms. This provides additional evidence of long term benefits from breastfeeding.

[MIF/CD74 axis regulates alveolar epithelial type II cell apoptosis, autophagy, and transdifferentiation in bronchopulmonary dysplasia via the TGFbeta1/SMAD4 pathway](#)

Mengyao Fan, Shaohua Wang, Zhenzhuang Zou, et al. *Respir Res*

The migration inhibitory factor (MIF), its receptor CD74, and the TGFbeta/Smad signaling cascade play pivotal roles in the regulation of alveolar epithelial type II cells (AECIIs) during lung development. This study investigated whether the MIF/CD74 axis regulates AECIIs by modulating the TGFbeta/Smad pathway in BPD. The author's findings revealed that LPS inhibited AECII proliferation, induced transdifferentiation, apoptosis, autophagy, and upregulated MIF, CD74, TGFbeta, and phosphorylated Smad proteins both in vitro and in vivo. MIF supplementation and CD74/SMAD4 overexpression reversed LPS-induced effects by promoting proliferation and reducing transdifferentiation, apoptosis, and autophagy in

AECIIs. Conversely, MIF inhibition or CD74/SMAD4 knockdown exacerbated these effects. In vivo, MIF and TGFbeta1 counteracted the effects of LPS, whereas LL1 enhanced LPS-induced damage. Conclusion: The MIF/CD74 axis regulates AECII phenotypes in BPD via the TGFbeta1/Smad4 pathway, underscoring the potential for targeted therapies against the MIF/CD74 axis and TGFbeta/Smad signaling for the prevention and treatment of BPD

[Distinct microbiota profiles in non-survivors in preterm infants with surgical necrotizing enterocolitis: Insights from FFPE intestinal tissue analysis](#)

Pengbo Zhang, Padma P Garg, Liang Liu, et al. *J Neonatal Perinatal Med*

The authors aimed to analyze remnant formalin fixed paraffin-embedded (FFPE) intestine tissue for microbiome profiling in preterm infants with surgical NEC. They compared the FFPE microbiota profiles in survivors and non-survivors. FFPE intestinal tissue enabled retrospective and spatially relevant microbiota assessment at the disease site. The non-survivors had complex microbiota and had distinct bacterial communities compared to survivors. These findings suggest that the gut microbiome is a key factor related to prognosis, independent of other measures of NEC severity.

[Maternal paracetamol \(acetaminophen\) use during pregnancy and risk of autism spectrum disorder and attention deficit/hyperactivity disorder in offspring: umbrella review of systematic reviews](#)

Jameela Sheikh, John Allotey, Soha Sobhy, et al. *BMJ*.

An umbrella review of nine systematic reviews, which synthesized evidence from 40 primary studies, concludes that existing evidence does not clearly link maternal paracetamol (acetaminophen) use during pregnancy with autism spectrum disorder or attention deficit/hyperactivity disorder (ADHD) in offspring. The review found that confidence in the published systematic reviews was generally rated as low to critically low based on the AMSTAR 2 criteria, primarily due to multiple methodological flaws, including a lack of proper protocol registration and inadequate assessment of bias in the primary studies. Furthermore, the systematic reviews had a very high overlap of primary studies, with a corrected covered area of 23%, indicating that the reviews were largely based on the same, potentially flawed, original research. The most critical finding stems from comparing results between standard whole cohort analyses and more rigorous sibling-controlled analyses. While whole cohort data often suggested a small, positive association—for example, a Hazard Ratio (HR) of 1.05 for ever use of paracetamol and autism—these estimates failed to account for shared familial genetic and environmental factors. When the analysis was restricted to sibling comparisons, which inherently control for these

confounders, the association disappeared. Specifically, the HR for autism dropped to 0.98 (indicating no link), and the positive association for ADHD (whole cohort HR up to 2.02 in one study) was similarly attenuated to between 0.98 and 1.06 in the sibling-controlled groups. The consistency of this attenuation suggests that the previously reported associations were likely driven by these unmeasured familial factors, not the paracetamol exposure itself.

## **OTHER NOTEWORTHY PUBLICATIONS – November 2025**

### **Pediatrics**

Toward trustworthy pediatric AI: a call to action from the national academy of medicine

<https://pubmed.ncbi.nlm.nih.gov/41031708/>

Trends in lower respiratory tract diagnoses and nonrecommended bronchiolitis therapies

<https://pubmed.ncbi.nlm.nih.gov/41151618/>

Late antibiotic use among preterm infants admitted to the neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/41093303/>

Prognostic accuracy of bpd definitions for long-term outcomes in preterm infants: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/41083181/>

The complex challenge of defining bronchopulmonary dysplasia

<https://pubmed.ncbi.nlm.nih.gov/41083182/>

Recommendations for COVID-19 vaccines in infants, children, and adolescents: policy statement

<https://pubmed.ncbi.nlm.nih.gov/40826495/>

Recommendations for the prevention of RSV disease in infants and children: policy statement

<https://pubmed.ncbi.nlm.nih.gov/40826311/>

### **Journal of Pediatrics**

Shaping neonatal hemodynamics: the journey and future of targeted neonatal echocardiography

<https://pubmed.ncbi.nlm.nih.gov/40645280/>

Retinopathy of prematurity and risk of structural brain abnormalities on magnetic resonance imaging at term among infants born at less than or equal to 32 weeks of gestation

<https://pubmed.ncbi.nlm.nih.gov/40582695/>

Low-grade germinal matrix hemorrhage-intraventricular hemorrhage and concomitant preterm brain injuries: neurodevelopmental outcomes at 3 years of age

<https://pubmed.ncbi.nlm.nih.gov/40614896/>

Bronchopulmonary dysplasia in Asian American, native Hawaiian, and pacific islander infants with very low birth weight in California

<https://pubmed.ncbi.nlm.nih.gov/40581095/>

Claudin-3, lipopolysaccharide binding protein, and jaundice clearance in infants with biliary atresia

<https://pubmed.ncbi.nlm.nih.gov/40562300/>

Race is an incomplete surrogate for skin pigmentation in neonates, with potential relevance for pulse oximetry

<https://pubmed.ncbi.nlm.nih.gov/40651554/>

Short-term outcomes of implementing less invasive surfactant therapy in infants born less than 30 weeks: a retrospective trend analysis

<https://pubmed.ncbi.nlm.nih.gov/40645281/>

Atropine versus placebo for neonatal nonemergent intubation: a randomized clinical trial

<https://pubmed.ncbi.nlm.nih.gov/40645282/>

### **Pediatric Research**

Sex differences in the risk of bronchopulmonary dysplasia and pulmonary hypertension: a Bayesian meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/40425846/>

Systematic review and meta-analysis of enteral protein intake effects on growth in preterm infants <https://pubmed.ncbi.nlm.nih.gov/40473805/>

Visuospatial outcomes of a prospective national cohort of young adults with very low birthweight <https://pubmed.ncbi.nlm.nih.gov/39920404/>

Breastfeeding duration and risk of depressive symptoms in adolescents

<https://pubmed.ncbi.nlm.nih.gov/40119039/>

Neurodevelopmental challenges at age four following fetal exposure to maternal opioid maintenance treatment

<https://pubmed.ncbi.nlm.nih.gov/40148474/>

Neonatal encephalopathy in India: spatiotemporal variations in declining mortality

<https://pubmed.ncbi.nlm.nih.gov/40169740/>

Brain MRI T2 hyperintensity and neurodevelopmental outcomes in neonatal encephalopathy <https://pubmed.ncbi.nlm.nih.gov/39905143/>

Regional lung function in congenital diaphragmatic hernia assessed using electrical impedance tomography

<https://pubmed.ncbi.nlm.nih.gov/40533505/>

Placental epigenetic age and adolescent blood pressure: the extremely low gestational age newborn cohort

<https://pubmed.ncbi.nlm.nih.gov/40335643/>

Transitional haemodynamic profiles of intrauterine growth-restricted preterm infants: correlation with antenatal Doppler characteristics

<https://pubmed.ncbi.nlm.nih.gov/40555781/>

Global developmental delay: comparison of developmental profiles between gene-positive/suspicious positive and gene-negative cases

<https://pubmed.ncbi.nlm.nih.gov/40307499/>

Physiological responses to retinopathy of prematurity screening: indirect ophthalmoscopy versus ultra-widefield retinal imaging

<https://pubmed.ncbi.nlm.nih.gov/39948384/>

Cord blood cytokines/chemokines linked to delays in toddlers exposed to sars-cov-2 prenatally <https://pubmed.ncbi.nlm.nih.gov/40500279/>

Functional brain connectivity in early adolescence after hypothermia-treated neonatal hypoxic-ischemic encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/40025254/>

Evaluating 3D-printed models for congenital heart disease: impact on parental anxiety and procedural understanding

<https://pubmed.ncbi.nlm.nih.gov/40097827/>

Association between early-phase opioid use and outcomes in extremely preterm infants: A nationwide study

<https://pubmed.ncbi.nlm.nih.gov/40097830/>

Multi-organ dysfunction across the neonatal encephalopathy spectrum

<https://pubmed.ncbi.nlm.nih.gov/40108429/>

School-age child neurodevelopment following antenatal zika virus exposure

<https://pubmed.ncbi.nlm.nih.gov/40108430/>

The diagnostic accuracy of presepsin for late-onset neonatal sepsis: a multicenter prospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/40113999/>

Anesthesia, extremely premature infants and full-scale intelligence quotient at 5 years of age <https://pubmed.ncbi.nlm.nih.gov/40158020/>

Decreased endothelial micro-rna-30b-5p impairs angiogenesis in fetal lambs with persistent pulmonary hypertension

<https://pubmed.ncbi.nlm.nih.gov/40329081/>

### **Archives of Disease in Childhood - Fetal & Neonatal Edition**

Video versus direct laryngoscopy for urgent tracheal intubation in neonates: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/40404346/>

Minimisation of blood sampling losses in preterm neonates: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/40037775>

Outcomes of extremely preterm infants who participated in a randomised trial of dopamine for treatment of hypotension (the HIP trial) at 2 years corrected age

<https://pubmed.ncbi.nlm.nih.gov/39832819>

Facilitators and barriers to the practice of neonatal family integrated care from the perspective of healthcare professionals: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/40081879>

Research priorities for the most premature babies born <25 weeks' gestation: results of an international priority setting partnership

<https://pubmed.ncbi.nlm.nih.gov/39988355>

Effects of liberal versus restrictive transfusion strategies on intermittent hypoxaemia in extremely low birthweight infants: secondary analyses of the ETTNO randomised controlled trial

<https://pubmed.ncbi.nlm.nih.gov/40139741>

Reducing device-related pressure injuries in high-risk neonates receiving nasal continuous positive airway pressure: a quality improvement study

<https://pubmed.ncbi.nlm.nih.gov/40139739>

Reduced calf muscle growth in NICU graduates compared with typically developing term infants: 12-month longitudinal study of infant muscle growth

<https://pubmed.ncbi.nlm.nih.gov/40274380>

Seven-day versus 14-day antibiotic course for culture-proven neonatal sepsis: a multicentre randomised non-inferiority trial in a low and middle-income country

<https://pubmed.ncbi.nlm.nih.gov/40280737>

Surgeons and neonatologists views about surgical decision-making in necrotising enterocolitis

<https://pubmed.ncbi.nlm.nih.gov/40280739>

Near-infrared spectroscopy during respiratory support at birth: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/40306761>

Effect of timing of umbilical cord clamping on cerebral regional tissue oxygenation: a secondary analysis of the COSGOD III trial

<https://pubmed.ncbi.nlm.nih.gov/40306760>

T-piece resuscitator versus self-inflating bag for resuscitation in the delivery room in preterm neonates: a randomised controlled trial

<https://pubmed.ncbi.nlm.nih.gov/40316439>

Alcohol-impregnated port protectors to reduce central line-associated bloodstream infection in the neonatal intensive care unit: a quality improvement study

<https://pubmed.ncbi.nlm.nih.gov/40316438>

**Journal of Perinatology**

Association of unplanned extubations and neurodevelopmental outcomes in very low birthweight infants

<https://pubmed.ncbi.nlm.nih.gov/39733197>

Evidence on the effect of in-utero cannabis exposure in neonates

<https://pubmed.ncbi.nlm.nih.gov/40797024>

Reporting of management and outcomes in the hemolytic disease of the fetus and newborn: a systematic literature review

<https://pubmed.ncbi.nlm.nih.gov/40973723>

Neonatal mortality among disaggregated Asian American and Native Hawaiian/Pacific Islander populations

<https://pubmed.ncbi.nlm.nih.gov/39397056>

Prenatal homelessness, food insecurity, and unemployment and adverse infant outcomes in a California cohort, 2007–2020

<https://pubmed.ncbi.nlm.nih.gov/39548269>

Early drug treatment in preterm patients with large patent ductus arteriosus at 28 weeks or less gestational age: systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/39420074>

Management of the patent ductus arteriosus among infants born at 23 to 32 weeks' gestation between 2011 to 2022: a report from the Children's Hospitals Neonatal Consortium

<https://pubmed.ncbi.nlm.nih.gov/40089581>

Insensible water loss in extremely preterm infants cared for in incubators with 70% and 90% relative humidity

<https://pubmed.ncbi.nlm.nih.gov/40089583>

The effect of maternal position on cerebral oxygenation in premature infants during Kangaroo care: a randomised controlled trial

<https://pubmed.ncbi.nlm.nih.gov/40186001>

Neurodevelopmental outcomes at age 3 years of preterm infants born at 22–31 weeks' gestation

<https://pubmed.ncbi.nlm.nih.gov/40140596>

Immediate heart rate changes in late preterm infants receiving resuscitation in the delivery room

<https://pubmed.ncbi.nlm.nih.gov/39948353>

NeoScore: a new tool to assess technical and non-technical skills during neonatal resuscitation

<https://pubmed.ncbi.nlm.nih.gov/39824896>

Feasibility of virtual reality-based simulation for neonatal resuscitation training: a pilot study at an international site

<https://pubmed.ncbi.nlm.nih.gov/40836117>

Neonatal SONography Assisted Resuscitation (NeoSONAR): Scoping review of the current literature and future directions

<https://pubmed.ncbi.nlm.nih.gov/41162590>

Nebulized salbutamol for the treatment of transient tachypnea of the newborn: a randomized controlled trial

<https://pubmed.ncbi.nlm.nih.gov/39690178>

Duration of continuous positive airway pressure: associations with length of stay and oral feeding patterns in a level IV neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/39934377>

Identifying performance differences between two pulse oximetry systems in simulated critical neonatal conditions

<https://pubmed.ncbi.nlm.nih.gov/40738966>

Long-term feeding outcomes after infant tracheostomy

<https://pubmed.ncbi.nlm.nih.gov/39824895>

Improving commitment to family-centered care in the NICU: a multicenter collaborative quality improvement project

<https://pubmed.ncbi.nlm.nih.gov/39979434>

A quality improvement project improving post-operative transitions of care in a level IV NICU

<https://pubmed.ncbi.nlm.nih.gov/40011555>

Reducing the risk of sudden unexpected infant death: the caffeine hypothesis

<https://pubmed.ncbi.nlm.nih.gov/40494910>

A clinician's musings on oxygen: Too little or too much with life in the balance

<https://pubmed.ncbi.nlm.nih.gov/40836116>

## **Neonatology**

No new content

## **American Journal of Perinatology**

Gut–brain axis in preterm infants with surgical necrotizing enterocolitis

<https://pubmed.ncbi.nlm.nih.gov/40112874/>

Utility of abdominal near infrared spectroscopy in the management of neonates: a review

<https://pubmed.ncbi.nlm.nih.gov/40148222/>

Hemolytic disease of the fetus and newborn in an integrated health care system

<https://pubmed.ncbi.nlm.nih.gov/40245931/>

### **Journal of Neonatal-Perinatal Medicine**

No new content

### **Maternal Health, Neonatology and Perinatology**

Maternal and neonatal outcomes in singleton pregnancies conceived using donor oocytes: a retrospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/41207888/>

How did we get here? A qualitative study of contributors to traumatic birth experiences in NICU parents

<https://pubmed.ncbi.nlm.nih.gov/41199395/>

Neonatal malnutrition, body composition, and childhood obesity in critically ill infants

<https://pubmed.ncbi.nlm.nih.gov/41194224/>

Determinants of neonatal near miss among newborns admitted to SOS Mother & Child Hospital, Benadir region, Somalia: a case-control study

<https://pubmed.ncbi.nlm.nih.gov/41188980/>

Development and validation of a nomogram for predicting neonatal acute kidney injury in very low birth weight infants

<https://pubmed.ncbi.nlm.nih.gov/41185079/>

“Ringleader who has no power”: a qualitative study of parent uncertainty during a NICU admission unrelated to prematurity

<https://pubmed.ncbi.nlm.nih.gov/41177888/>

### **Neoreviews**

Neonatal spinal cord injury

<https://pubmed.ncbi.nlm.nih.gov/41173296/>

Neurodevelopmental outcomes of moderate to late preterm infants: a population at risk

<https://pubmed.ncbi.nlm.nih.gov/41173293/>

Building a neonatal neurocritical care program: a practical guide to initial implementation

<https://pubmed.ncbi.nlm.nih.gov/41173295/>

Fever, diarrhea, and dehydration in a term neonate: beyond common causes

<https://pubmed.ncbi.nlm.nih.gov/41173291/>

Refractory hypertension in an infant with bronchopulmonary dysplasia

<https://pubmed.ncbi.nlm.nih.gov/41173294/>

Severe chronic hypertension in pregnancy: a case-based review of management and outcomes

<https://pubmed.ncbi.nlm.nih.gov/41173292/>

A term newborn with abnormal appearance of right eye

<https://pubmed.ncbi.nlm.nih.gov/41173298/>

Prenatal diagnosis of a large lymphovascular malformation

<https://pubmed.ncbi.nlm.nih.gov/41173299/>

Follow-up of a term neonate with a large cerebellar hemorrhage: with parent perspective

<https://pubmed.ncbi.nlm.nih.gov/41173297/>

### **JAMA Pediatrics**

Planned community birth and birth outcomes

<https://pubmed.ncbi.nlm.nih.gov/41284269/>

### **BMC Pediatrics**

Incidence and risk factors for neonatal jaundice in a teaching hospital in Northern Ghana

<https://pubmed.ncbi.nlm.nih.gov/41316102/>

The burden of extra uterine growth restriction on postnatal growth in very low birth weight preterm newborns

<https://pubmed.ncbi.nlm.nih.gov/41299332/>

Development and internal validation of a clinical prediction model for the needed level of care in preterm neonates

<https://pubmed.ncbi.nlm.nih.gov/41291564/>

Development and validation of machine learning models for predicting bronchopulmonary dysplasia risk in preterm neonates based on antenatal determinants: a retrospective cohort study <https://pubmed.ncbi.nlm.nih.gov/41291560/>

Clinical determinants of time to full enteral feeding in preterm infants with neonatal respiratory distress syndrome: a retrospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/41291568/>

Early aminophylline is a potential therapy for preventing bronchopulmonary dysplasia in premature infants: a retrospective study

<https://pubmed.ncbi.nlm.nih.gov/36564309/>

Analysis of risk factors and establishment of a predictive model for brain injury in neonates with surgical necrotizing enterocolitis: a retrospective study

<https://bmcpediatr.biomedcentral.com/articles/10.1186/s12887-025-06324-x>

Effectiveness of a digital-based gradual exercise training program for preventing relapse in congenital clubfoot: a protocol for a randomized controlled clinical trial

<https://pubmed.ncbi.nlm.nih.gov/41250053/>

Causal links between congenital malformations, birth weight, and neuroblastoma: insights from Mendelian randomization

<https://pubmed.ncbi.nlm.nih.gov/41239340/>

Narrative review of neurodevelopmental and psychiatric complications associated with prematurity

<https://pubmed.ncbi.nlm.nih.gov/41239334/>

The application of pre-discharge delta total bilirubin to predict the need for post-discharge phototherapy in healthy neonates 35 weeks' gestation or later

<https://pubmed.ncbi.nlm.nih.gov/41239338/>

Impact of patent ductus arteriosus treatment on neonatal outcomes in preterm infants with or without perinatal acidosis: a nationwide cohort study

<https://pubmed.ncbi.nlm.nih.gov/41214586/>

The effects of short- and long-duration kangaroo mother care and conventional care on improving weight gain in low birth weight infants: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/41214601/>

Walking experience affects locomotor exploration in infants born prematurely: a comparative cross-sectional study

<https://pubmed.ncbi.nlm.nih.gov/41204343/>

Anthropometric measurements as surrogate for identifying low birth weight: comparison with gold standard of measuring weight among neonates at a tertiary hospital in Tanzania

<https://pubmed.ncbi.nlm.nih.gov/41194056/>

### **Pediatric Critical Care Medicine**

Severe neonatal respiratory failure and transfer for higher level intensive care: early factors associated with mortality and other outcomes in a retrospective cohort, 2018–2020

<https://pubmed.ncbi.nlm.nih.gov/40920039/>

### **New England Journal of Medicine**

No new articles

### **Lancet**

No new articles

### **JAMA**

No new articles

### **BMJ**

Gestational weight gain and risk of adverse maternal and neonatal outcomes in observational data from 1.6 million women: systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/12628306/>

Maternal paracetamol (acetaminophen) use during pregnancy and risk of autism spectrum disorder and attention deficit/hyperactivity disorder in offspring: umbrella review of systematic reviews

<https://pubmed.ncbi.nlm.nih.gov/41207796>

### **Pediatric Infectious Disease Journal**

Severe neutropenia in infants with congenital cytomegalovirus on antiviral therapy

<https://pubmed.ncbi.nlm.nih.gov/40674644>

Molecular characterization of a rare esbl e. coli strain causing a necrotizing enterocolitis outbreak in preterm infants

<https://pubmed.ncbi.nlm.nih.gov/40472237>

Comparing clinical practice to calculated risks: a retrospective study on early-onset neonatal sepsis in a level-1 hospital

<https://pubmed.ncbi.nlm.nih.gov/40720838>

### **Pediatric Cardiology**

No November issue

### **Pediatric Neurology**

Hematological parameters at birth fail to predict intraventricular hemorrhage in very preterm infants

<https://pubmed.ncbi.nlm.nih.gov/40912067/>

Navigating the emotional and practical challenges of newborn screening for late-onset pompe disease: insights from parental perspectives

<https://pubmed.ncbi.nlm.nih.gov/40912068/>

### **Obstetrics and Gynecology**

No new articles

### **American Journal of Obstetrics & Gynecology**

Hypoxic-ischemic encephalopathy following intrapartum asphyxia: is it avoidable?

<https://pubmed.ncbi.nlm.nih.gov/40348116/>

Preterm prelabor rupture of membranes: the use of amniocentesis to detect intraamniotic infection reduces maternal and neonatal duration of antibiotic exposure

<https://pubmed.ncbi.nlm.nih.gov/40505796/>

Late preterm prelabor rupture of membrane (>33 weeks): the risk of intraamniotic inflammation and fetal inflammation is influenced by the cervical microbial ecosystem and cervical inflammation

<https://pubmed.ncbi.nlm.nih.gov/40516585/>

Evaluating the clinical utility and strategy of whole-exome sequencing testing for fetuses with increased nuchal translucency

<https://pubmed.ncbi.nlm.nih.gov/40381797/>

Discordance in maximum velocities in the middle cerebral arteries of monochorionic twins: beyond twin anemia-polycythemia sequence

<https://pubmed.ncbi.nlm.nih.gov/40409445/>

Small for gestational age subgroups have differential morbidity, growth, and neurodevelopment at age 2: the interbio-21st newborn study

<https://pubmed.ncbi.nlm.nih.gov/40414409/>

Placental lesions in small for gestational age fetuses with and without clinical features of fetal growth restriction: a secondary analysis of the doppler ratio in fetal growth restriction intervention trial at (near) term (drigitat) study

<https://pubmed.ncbi.nlm.nih.gov/40451449/>

## **Hospital Pediatrics**

Statewide needs assessment of neonatal readiness at delivery hospitals in maine

<https://pubmed.ncbi.nlm.nih.gov/41115677/>

## **BASIC SCIENCE SELECTIONS**

MIF/CD74 axis regulates alveolar epithelial type II cell apoptosis, autophagy, and transdifferentiation in bronchopulmonary dysplasia via the TGFbeta1/SMAD4 pathway

<https://www.ncbi.nlm.nih.gov/pubmed/41291682>

m6A-dependent upregulation of PFKFB3 drives macrophage-mediated inflammation in necrotizing enterocolitis

<https://www.ncbi.nlm.nih.gov/pubmed/41239917>

Enteral and intravenous supplementation of arginine and citrulline fail to prevent necrotizing enterocolitis in preterm neonatal pigs

<https://www.ncbi.nlm.nih.gov/pubmed/41221582>

The BHMT2/MAT1A/AHSG axis promotes M1 macrophage activation and exacerbates necrotizing enterocolitis

<https://www.ncbi.nlm.nih.gov/pubmed/41219226>

Distinct microbiota profiles in non-survivors in preterm infants with surgical necrotizing enterocolitis: Insights from FFPE intestinal tissue analysis

<https://www.ncbi.nlm.nih.gov/pubmed/40556262>

CYP46A1 activation improves retinal neovascularization in a mouse model of retinopathy of prematurity

<https://www.ncbi.nlm.nih.gov/pubmed/41279888>

### **Clinical**

Bronchopulmonary dysplasia definitions as predictors of early childhood pulmonary function <https://www.ncbi.nlm.nih.gov/pubmed/41277294>

Comparison of nSOFA and RSS for predicting bronchopulmonary dysplasia in preterm infants: a retrospective cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/41266104>

Urinary metabolome at birth in patients with hypoxic-ischemic encephalopathy treated with therapeutic hypothermia and long-term neurodevelopmental outcomes: a 7-year follow up <https://www.ncbi.nlm.nih.gov/pubmed/41286887>

Prediction models for recurrence of retinopathy of prematurity after intravitreal ranibizumab or laser photocoagulation treatment: a multicenter cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/41222874>