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Section on Neonatal-Perinatal Medicine

ARTICLES OF INTEREST – January 2026

Urinary cytomegalovirus load at birth as a predictor of sequelae in congenital cytomegalovirus infection

María Ríos-Barnés, Roberto Pedrero, Clàudia Fortuny, et al. *Pediatr Infect Dis J*

The authors aimed to determine the association of urine cytomegalovirus (CMV) viral load (VL) at birth with symptomatic disease and the development of sequelae in a cohort of Spanish patients with cCMV. Patients for whom a positive quantitative CMV urine VL was available in the neonatal period were included. Sequelae were assessed in children with at least 6 months of follow-up. Overall, 357 patients were included and sequelae were assessed in 282 (79.0%). At birth, 30.2% were asymptomatic, 11.8% had mild and 58.0% had moderate-to-severe cCMV disease. Higher urine CMV VL at birth was associated with thrombocytopenia, chorioretinitis and neuroimaging abnormalities, but not with disease severity. At the last available follow-up (median age: 30.1 months), 68 (24.1%) children presented with sequelae, mainly sensorineural hearing loss (n = 60). Sequelae were more common among children with moderate-to-severe cCMV disease at birth. The authors conclude that urine CMV VL at birth was associated with some symptoms and signs of cCMV and positively correlated with the risk of sequelae.

Neurodevelopmental outcomes of 3-year-old children exposed to maternal severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection in utero

Lydia L Shook 1, Victor Castro, Laura Ibanez-Pintor, et al. *Obstet Gynecol*

The authors sought to determine whether in utero exposure to maternal severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection is associated with increased risk of adverse neurodevelopmental outcomes in children by age 3 years. They conducted a retrospective cohort study of 18,124 live births to individuals who delivered between March 1, 2020, and May 31, 2021, within the Mass General Brigham health system. The exposure of interest was maternal SARS-CoV-2 infection, defined as a positive SARS-CoV-2 polymerase chain reaction test result during pregnancy. The outcome of interest was presence of any neurodevelopmental diagnosis up to 36 months after birth. Among the 861 individuals with SARS-CoV-2-exposed pregnancies (4.8%), 140 offspring (16.3%) received a neurodevelopmental diagnosis by 36 months after birth, compared with 1,680 of 17,263 unexposed offspring (9.7%). The authors conclude that maternal SARS-CoV-2 infection in pregnancy was associated with increased risk of adverse neurodevelopmental diagnoses by age 3 years, with effects most pronounced after third-trimester exposure and in male offspring.

Outcomes of universal newborn G6PD deficiency screening in a large urban cohort

Retrospective study evaluating outcomes of a large cohort of 5,470 newborns who underwent universal G6PD deficiency screening as part of newborn care. The prevalence of G6PD deficiency in the cohort was 1.7%, with an additional 2.4% having intermediate enzyme levels, and deficiency was more common among male infants. Compared with G6PD-sufficient newborns, G6PD-deficient infants had higher bilirubin levels during birth hospitalization and were more likely to require phototherapy both during the initial hospital stay and upon readmission after discharge. Serious complications like exchange transfusions and bilirubin-induced neurotoxicity were rare but this could be because of standardized bilirubin monitoring and protocols. The study suggest that universal screening helps identify at-risk infants earlier, allowing for timely interventions that may reduce morbidity from hyperbilirubinemia.

Temporal trends in red blood cell and platelet transfusion thresholds for extremely low birth weight infants

Ravi M Patel, Jeanne E Hendrickson, Rebecca Birch, et al. J Pediatr

This paper examines whether clinical practices for extremely low birth weight (ELBW) infants shifted following major randomized trials on transfusion thresholds. Analyzing 981 ELBW infants across five U.S. centers from 2019 to 2023, the study found a significant decline in pretransfusion hemoglobin levels ($P < 0.0001$), particularly from the third postnatal week onward, indicating a shift toward more restrictive red blood cell

transfusion practices. In contrast, pretransfusion platelet counts remained stable over the same period ($P = 0.24$), despite 23% of the cohort receiving 934 platelet transfusions. The authors conclude that while recent evidence supporting lower hemoglobin thresholds has been successfully integrated into neonatal care, similar evidence regarding platelet thresholds has not yet resulted in a comparable change in clinical practice.

Implementation of nasogastric tube feedings at discharge in a large quaternary NICU: a literature review, proposed algorithm, and our center experience

John Ibrahim, Abeer Azzuqa, Jennifer Kloesz, et al. *Am J Perinatol*

This article explores the safety and feasibility of discharging neonates with nasogastric (NG) tubes to facilitate earlier transitions home when the only remaining inpatient requirement is achieving full oral feeds. Reviewing their level IV NICU's experience since December 2020, the authors report that 25 patients were discharged on NG feeds, with only 1 infant (4%) eventually requiring gastrostomy tube placement, suggesting the program successfully avoids more invasive surgical interventions for most infants. The study highlights that this approach provides developmental advantages for the neonates and increases parent satisfaction, provided there is a structured education program and remote monitoring, such as telehealth, in place. Ultimately, the authors conclude that for a carefully selected neonatal population, NG feeds at discharge is a safe, cost-effective alternative to prolonged hospitalization or surgical tube placement.

Neonatal toxicology testing: ethical considerations for pediatricians

Christine M Gold, Leela Sarathy, Jayme Congdon, et al. *Hosp Pediatr*

This article addresses pediatricians' responsibility to identify and manage prenatal substance exposure and neonatal opioid withdrawal syndrome while ensuring coordinated, family-centered care. Although neonatal toxicology testing (NTT) is widely used, its risks may outweigh its benefits, and inconsistent practices contribute to bias, inequitable screening, and family separation. Ethical frameworks should guide clinical care and policy so testing aligns with evidence, legal requirements, and infants' best interests. This article argues that pediatricians can lead by educating clinicians, shaping policy, and challenging rigid legislative uses of NTT results. In partnership with health systems, the authors argue that punitive testing approaches should be replaced with supportive, equity-focused care for affected newborns and families.

Shifting outlooks after neonatal encephalopathy in the era of therapeutic hypothermia

Kelsey Christoffel & Sarah B Mulkey. *Pediatr Res.*

This review summarizes current evidence on long-term outcomes of infants treated with therapeutic hypothermia for hypoxic-ischemic encephalopathy (HIE), many of whom do not develop cerebral palsy or show significant neonatal brain injury. Even in the absence of clear abnormalities on post-cooling MRI, children with a history of moderate to severe HIE remain at risk for a range of neurodevelopmental challenges that may emerge at school age or later. Because neonatal neuroimaging and early developmental assessments do not reliably predict later functioning, prognostication during the NICU stay and early follow-up period can be difficult. For this reason, clinicians should counsel families about the full spectrum of possible outcomes and ensure ongoing neurodevelopmental surveillance into adolescence for all children with perinatal HIE, regardless of early imaging findings.

Assessment of the protective effects of milk osteopontin in necrotizing enterocolitis neonatal rat model

Lan Liu, Xuexue Li, Chenming Lin, et al. J Nutr Biochem

Osteopontin (OPN) is a multifunctional milk protein with various potential health benefits. This study investigates the protective effects of milk OPN against necrotizing enterocolitis (NEC). In NEC-affected rat pups, milk OPN enhanced the survival rates, and alleviated the ileum tissue damage. Immunofluorescence staining revealed that milk OPN significantly promoted intestinal cell proliferation and migration ($P < .05$). Moreover, milk OPN was found to reduced the expression of pro-inflammatory cytokines IL-6 and TNF-alpha in ileum tissue ($P < .05$). The activation of Toll-like receptor 4 (TLR4) and nuclear factor kappa-B (NF-kappaB), which are key regulators of cell proliferation and inflammation in NEC, were inhibited by milk OPN. The author's findings demonstrate the protective effects of milk OPN on NEC and propose that milk OPN may be utilized as a preventive measure against inflammatory intestinal diseases in early developmental stages.

An interventional study on the late treatment of severe bronchopulmonary dysplasia in preterm infants using mesenchymal stromal cells

Sukran Yildirim. Stem Cells Int

Research on the use of mesenchymal stromal cells (MSCs) as a late-term therapeutic strategy for established bronchopulmonary dysplasia (BPD) is still in its early stages, indicating a need for further studies to evaluate their effectiveness and optimal application. This study investigates the results of seven extremely preterm infants who underwent an MSC therapy for severe established BPD. A cohort of seven infants diagnosed with severe BPD (sBPD) received MSC therapy to assist in their transition to

spontaneous breathing. All infants were successfully extubated to nCPAP following MSC treatment. Secondary benefits were observed, including improvements in intraventricular hemorrhage (IVH) and retinopathy of prematurity (ROP), a decrease in the number of packed red blood cell transfusions, and fewer episodes of sepsis. These findings indicate that administering up to four treatment cycles may be more effective for the long-term management of sBPD.

OTHER NOTEWORTHY PUBLICATIONS – January 2026

Pediatrics

Outcomes of universal newborn G6PD deficiency screening in a large urban cohort

<https://pubmed.ncbi.nlm.nih.gov/41325981/>

Ankyloglossia, breastfeeding, and infant weight gain: a mixed-methods study

<https://pubmed.ncbi.nlm.nih.gov/41380726/>

Improving rates of delayed cord clamping in Ethiopian hospitals: a virtual quality collaborative <https://pubmed.ncbi.nlm.nih.gov/41338246/>

Journal of Pediatrics

Therapeutic hypothermia in low- and middle-income countries: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/40850397/>

Evaluating differences in nonsyndromic orofacial clefts by infant sex: national birth defects prevention study, 1997-2011

<https://pubmed.ncbi.nlm.nih.gov/40158840/>

Temporal trends in red blood cell and platelet transfusion thresholds for extremely low birth weight infants

<https://pubmed.ncbi.nlm.nih.gov/40887015/>

Effects of remote patient monitoring on neonatal intensive care unit patients discharged with nasogastric tube feeding

<https://pubmed.ncbi.nlm.nih.gov/40945579/>

Maternal coronavirus disease 2019 test positivity and neonatal intensive care unit outcomes for infants born extremely preterm

<https://pubmed.ncbi.nlm.nih.gov/41016465/>

From hospital to home: continuity between skin-to-skin care and later verbal engagement in infants born preterm

<https://pubmed.ncbi.nlm.nih.gov/41016462/>

Pediatric Research

Neonatal encephalopathy and hypoxic-ischemic encephalopathy: the state of the art

<https://pubmed.ncbi.nlm.nih.gov/40128590>

Neuroprognostication in neonatal encephalopathy due to presumed hypoxic-ischemic encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/40188218>

Beyond hearing loss: exploring neurological and neurodevelopmental sequelae in asymptomatic congenital cytomegalovirus infection

<https://pubmed.ncbi.nlm.nih.gov/40629082>

Neurodevelopment in congenital heart disease: a review of antenatal mechanisms and therapeutic potentials

<https://pubmed.ncbi.nlm.nih.gov/40935884>

Shifting outlooks after neonatal encephalopathy in the era of therapeutic hypothermia

<https://pubmed.ncbi.nlm.nih.gov/40467976>

A scoping review of genetic risk factors possibly impacting virally induced brain injury after Zika infection

<https://pubmed.ncbi.nlm.nih.gov/40593187>

Emerging modalities for neuroprognostication in neonatal encephalopathy: harnessing the potential of artificial intelligence

<https://pubmed.ncbi.nlm.nih.gov/40830411>

School readiness in children born preterm

<https://pubmed.ncbi.nlm.nih.gov/40962861>

Archives of Disease in Childhood - Fetal & Neonatal Edition

Electronic monitoring of infants at home: for many families a questionable practice that may come at a cost

<https://pubmed.ncbi.nlm.nih.gov/40480795/>

Distraction in neonatal resuscitation and the human factors' 'Dirty Dozen'

<https://pubmed.ncbi.nlm.nih.gov/40425287/>

Respiratory function monitoring for neonatal resuscitation: a narrative review

<https://pubmed.ncbi.nlm.nih.gov/40750335/>

Diagnostic accuracy of an over-the-counter infant pulse oximeter for cardiorespiratory events

<https://pubmed.ncbi.nlm.nih.gov/40355254/>

Normative range of MRI-derived fetal brain volume throughout gestation: a prospective study

<https://pubmed.ncbi.nlm.nih.gov/40579049/>

Effect of enteral supplementation of DHA with or without ARA in preterm infants: a meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/40233974/>

Effect of gestational age on special education: a population-based matched cohort analysis

<https://pubmed.ncbi.nlm.nih.gov/40355253/>

Dynamic lung aeration after birth does not impede pulmonary blood flow in preterm lambs

<https://pubmed.ncbi.nlm.nih.gov/40360238/>

Automated tactile stimulation in response to cardiorespiratory events in preterm infants: a feasibility study

<https://pubmed.ncbi.nlm.nih.gov/40393693/>

Relationship between applied face mask force and mask leak during simulated neonatal ventilation: a randomised simulation study

<https://pubmed.ncbi.nlm.nih.gov/40393694/>

Treatment of hypotension of prematurity: a randomised trial

<https://pubmed.ncbi.nlm.nih.gov/40413017/>

Function over diagnoses: parents of extremely preterm infants give recommendations to clinicians about their information needs

<https://pubmed.ncbi.nlm.nih.gov/40425288/>

Postnatal dexamethasone treatment for preterm infants at high risk for bronchopulmonary dysplasia is associated with improved regional brain volumes: a prospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/40360237/>

Volume of umbilical cord blood collection in the era of delayed cord clamping: a multicentre, prospective, feasibility study

<https://pubmed.ncbi.nlm.nih.gov/40473396/>

Evaluation of infants born to a parent with gene-positive long QT syndrome: a retrospective single-centre review

<https://pubmed.ncbi.nlm.nih.gov/40480796/>

Journal of Perinatology

Prophylactic surfactant therapy in the era of less invasive surfactant delivery

<https://pubmed.ncbi.nlm.nih.gov/40987836/>

Data variables reported during neonatal transport: a systematic literature review

<https://pubmed.ncbi.nlm.nih.gov/41193650/>

Diagnostic accuracy of real-time point-of-care tracheal ultrasonography for the confirmation of proper endotracheal tube placement in neonatal acute care settings: a systematic review and diagnostic test accuracy meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/41261147/>

National survey of diagnostic point of care ultrasound practices and program development in academic neonatal-perinatal medicine centers

<https://pubmed.ncbi.nlm.nih.gov/40263426/>

Lung ultrasound score and left ventricular eccentricity index in preterm infants with respiratory failure – a pilot study

<https://pubmed.ncbi.nlm.nih.gov/40962825/>

Validation of a novel Bayesian predictive algorithm for detection of carbon dioxide retention using retrospective neonatal ICU data

<https://pubmed.ncbi.nlm.nih.gov/40702156/>

Endotracheal tube exchange in preterm infants with evolving chronic lung disease: safety, outcomes, and impacts on pulmonary mechanics

<https://pubmed.ncbi.nlm.nih.gov/41094131/>

Deep learning to assess laryngoscope insertion depth during neonatal intubation with video laryngoscopy

<https://pubmed.ncbi.nlm.nih.gov/41145730/>

Duration of noninvasive respiratory support in preterm infants: Association with gestational age and risk factors for delayed weaning

<https://pubmed.ncbi.nlm.nih.gov/41203900/>

Three studies needed to inform the design of the U-BET (umbilical cord blood for extremely low-gestational-age transfusions) clinical trial

<https://pubmed.ncbi.nlm.nih.gov/40721652/>

Advanced thermoregulation by access port covers in neonatal transport incubators: computational fluid dynamics analysis

<https://pubmed.ncbi.nlm.nih.gov/40830595/>

Phototherapy exposure variability in extremely preterm neonates due to different treatment protocols and devices: cross-sectional study

<https://pubmed.ncbi.nlm.nih.gov/41193651/>

The impact of the COVID-19 pandemic on phototherapy usage for neonatal hyperbilirubinemia

<https://pubmed.ncbi.nlm.nih.gov/41286414/>

Readmission rates before and after the implementation of 2022 revised AAP clinical practice guidelines for the management of neonatal hyperbilirubinemia - a single center study

<https://pubmed.ncbi.nlm.nih.gov/41361030/>

Confirmation of less invasive surfactant administration catheter placement with capnography

<https://pubmed.ncbi.nlm.nih.gov/41145728/>

Hypoalbuminemia, kernicterus, and the bilirubin/albumin ratio

<https://pubmed.ncbi.nlm.nih.gov/40702157/>

Quicker team launch times for urgent priority neonatal retrievals: A Quality Improvement Initiative study

<https://pubmed.ncbi.nlm.nih.gov/40702154/>

Less invasive surfactant administration in the delivery room: A quality improvement initiative

<https://pubmed.ncbi.nlm.nih.gov/40640548/>

Neonatal point-of-care ultrasound—steps for program development

<https://pubmed.ncbi.nlm.nih.gov/40751093/>

Neonatal point-of-care ultrasound—guidelines for training, credentialing and quality assurance

<https://pubmed.ncbi.nlm.nih.gov/40751094/>

A step towards the expansion of neonatal point-of-care ultrasound (POCUS)

<https://pubmed.ncbi.nlm.nih.gov/41188539/>

Response to hemolysis and DAT positivity

<https://pubmed.ncbi.nlm.nih.gov/40325157/>

Identifying severe hypoalbuminemia in the newborn: a clinical priority for neonatologists

<https://pubmed.ncbi.nlm.nih.gov/41139157/>

Neonatology

No January content

American Journal of Perinatology

Neonatal outreach training: identifying needs in the community

<https://pubmed.ncbi.nlm.nih.gov/40342017/>

Neonatal and maternal outcomes following shoulder dystocia resolution utilizing \geq versus < 3 maneuvers

<https://pubmed.ncbi.nlm.nih.gov/40239714/>

Use of artificial intelligence in recognition of fetal open neural tube defect on prenatal ultrasound

<https://pubmed.ncbi.nlm.nih.gov/40239713/>

National survey of neonatal–perinatal medicine fellows on postresuscitation debriefing

<https://pubmed.ncbi.nlm.nih.gov/40355103/>

The relationship between hip ultrasound result and the diagnosis of developmental dysplasia of the hip in premature infants

<https://pubmed.ncbi.nlm.nih.gov/40267978/>

Implementation of nasogastric tube feedings at discharge in a large quaternary Nicu: a literature review, proposed algorithm, and our center experience

<https://pubmed.ncbi.nlm.nih.gov/40355104/>

A nomogram model for prenatal predicting survival in infants with congenital diaphragmatic hernia

<https://pubmed.ncbi.nlm.nih.gov/40267980>

Mortality trends in preterm infants with birth weight less than 500 grams in the United States

<https://pubmed.ncbi.nlm.nih.gov/40267979>

Increased respiratory syncytial virus-associated hospitalizations and ambulatory visits in very preterm infants in the first year of life following discontinuation of access to palivizumab

<https://pubmed.ncbi.nlm.nih.gov/39788540>

The relationship between various measures of perinatal quality

<https://pubmed.ncbi.nlm.nih.gov/39821750>

Telemedicine consultations in community hospitals improve neonatal encephalopathy assessment

<https://pubmed.ncbi.nlm.nih.gov/39970935>

Orofacial cleft and poor birth health outcomes: a populational cross-sectional study

<https://pubmed.ncbi.nlm.nih.gov/40398489>

Perinatal outcomes based on placental cord insertion site

<https://pubmed.ncbi.nlm.nih.gov/40324464>

Decreased newborn size following covid-19 infection during pregnancy: the role of timing of infection

<https://pubmed.ncbi.nlm.nih.gov/40324465>

Monitoring methods for monoamniotic twin pregnancies: multicenter retrospective study of 149 cases

<https://pubmed.ncbi.nlm.nih.gov/40436394>

Delayed enrollment in medicaid by eligible families with children admitted to the neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/40436393>

Proportion of time in category II fetal heart rate tracing and adverse outcomes

<https://pubmed.ncbi.nlm.nih.gov/40334683>

Parents and health care providers' perspectives on vital signs monitoring technologies in the neonatal intensive care unit: an international survey

<https://pubmed.ncbi.nlm.nih.gov/40441133>

Predicting clinical outcomes of severe bronchopulmonary dysplasia through new definitions and phenotypes

<https://pubmed.ncbi.nlm.nih.gov/40037521>

Journal of Neonatal-Perinatal Medicine

No new articles

Maternal Health, Neonatology and Perinatology

Stuck in transition - admission to the neonatal intensive care unit after shoulder dystocia: analysis of risk factors and assessment of postnatal care

<https://pubmed.ncbi.nlm.nih.gov/41501964/>

Change in maternal income status following stillbirth, neonatal death and severe neonatal morbidity

<https://pubmed.ncbi.nlm.nih.gov/41566388/>

Neoreviews

Improving platelet transfusion practice

<https://pubmed.ncbi.nlm.nih.gov/41475413/>

Hematological conditions in infants with Trisomy 21

<https://pubmed.ncbi.nlm.nih.gov/41475411/>

Infant readmission with severe acute respiratory failure

<https://pubmed.ncbi.nlm.nih.gov/41475410/>

An unusual surgical presentation in a newborn

<https://pubmed.ncbi.nlm.nih.gov/41475412/>

Cytomegalovirus infection in pregnancy: neonatal implications

<https://pubmed.ncbi.nlm.nih.gov/41475409/>

Short phallic length in a well-appearing newborn available

<https://pubmed.ncbi.nlm.nih.gov/41475415/>

Neurodevelopmental follow-up of a child with congenital cytomegalovirus infection

<https://pubmed.ncbi.nlm.nih.gov/41475414/>

JAMA Pediatrics

Parent-led early intervention in very preterm infants and executive function at school age: secondary analysis of a randomized clinical trial

<https://pubmed.ncbi.nlm.nih.gov/41557341/>

BMC Pediatrics

Understanding the challenges: preterm birth and middle childhood psychomotor skills - a case control study

<https://link.springer.com/content/pdf/10.1186/s12887-025-06356-3.pdf>

Prevalence and factors associated with preterm small-for-gestational-age neonates: a multi-center survey in China

<https://link.springer.com/content/pdf/10.1186/s12887-025-06384-z.pdf>

Cluster-randomized evaluation of neonatal intensive care unit quality improvement interventions in extremely preterm infants: secondary analysis of the INTACT trial

<https://link.springer.com/content/pdf/10.1186/s12887-025-06351-8.pdf>

Prenatal-postnatal integrated management model improves outcomes of neonatal cardiac surgery in critical congenital heart disease: a retrospective cohort study

<https://link.springer.com/content/pdf/10.1186/s12887-025-06378-x.pdf>

Association between maternal exposure to mercury during pregnancy and birth weight: a systematic review and meta-analysis

<https://link.springer.com/content/pdf/10.1186/s12887-025-06323-y.pdf>

Impact of gestational weight gain on adverse pregnancy outcomes in women with gestational diabetes: a retrospective cohort study

<https://link.springer.com/content/pdf/10.1186/s12887-025-06371-4.pdf>

Predictors of neonatal mortality in Iranian cases of preterm birth: a retrospective cohort study

<https://link.springer.com/content/pdf/10.1186/s12887-025-06480-0.pdf>

Partially hydrolyzed cow's milk protein formula with an added prebiotic is well-tolerated, safe, and supports age-appropriate growth in healthy term infants through one year of age: DBRCT

https://link.springer.com/content/pdf/10.1186/s12887-025-06454-2_reference.pdf

The influence of early intravenous immunoglobulin administration on the prognosis of severe hemolytic disorders in neonates

https://link.springer.com/content/pdf/10.1186/s12887-025-06508-5_reference.pdf

Analysis of factors affecting postoperative feeding intolerance in neonates following intestinal surgery

https://link.springer.com/content/pdf/10.1186/s12887-025-06491-x_reference.pdf

Prognostic value of modified KDIGO staging for acute kidney injury in neonates: a prospective observational study in a level IIIB NICU

https://link.springer.com/content/pdf/10.1186/s12887-025-06457-z_reference.pdf

Neonatal thyrotoxicosis secondary to maternal graves' disease: a case report

https://link.springer.com/content/pdf/10.1186/s12887-026-06527-w_reference.pdf

Membranous esophageal atresia without tracheoesophageal fistula in a neonate: a rare case report and literature review

https://link.springer.com/content/pdf/10.1186/s12887-026-06541-y_reference.pdf

Group-based trajectory modelling and interpretable machine learning to identify factors associated with neurodevelopmental trajectories in preterm infants

<https://link.springer.com/content/pdf/10.1186/s12887-025-06476-w.pdf>

Can large language models provide quality, reliable and readable information about sudden infant death syndrome?

https://link.springer.com/content/pdf/10.1186/s12887-025-06486-8_reference.pdf

Hypoglycemia on admission, associated factors, and early outcome among neonates admitted to the neonatal unit at Muhimbili National Hospital

https://link.springer.com/content/pdf/10.1186/s12887-026-06519-w_reference.pdf

Revisiting selected risk factors and their association with ultrasonographic hip types in developmental dysplasia of the hip: a multivariate regression analysis

https://link.springer.com/content/pdf/10.1186/s12887-025-06426-6_reference.pdf

The profile and rehabilitation of neonatal brachial plexus injury in two selected hospitals, Rwanda

https://link.springer.com/content/pdf/10.1186/s12887-025-06434-6_reference.pdf

Prevalence of acute kidney injury and nephrotoxic drug exposure in premature and low birth weight neonates admitted to intensive care units at Muhimbili National Hospital, Dar es Salaam

https://link.springer.com/content/pdf/10.1186/s12887-025-05988-9_reference.pdf

Is dorsal inlay graft (DIG) with TIP repair superior to TIP alone for primary hypospadias? A randomized clinical trial

<https://link.springer.com/content/pdf/10.1186/s12887-025-06247-7.pdf>

Maternal–infant vitamin D coupling and neonatal hypocalcemia: a six-year cohort integrating preterm risk, onset timing, and pandemic effects

https://link.springer.com/content/pdf/10.1186/s12887-026-06532-z_reference.pdf

Impact of different hemodynamic states of patent ductus arteriosus on cerebral, mesenteric, and renal perfusion in preterm infants: a doppler ultrasound analysis

https://link.springer.com/content/pdf/10.1186/s12887-026-06565-4_reference.pdf

Practice-informed barriers and contextual solutions in neonatal habilitation across Indian Neonatal Intensive Care Units: A qualitative exploration of therapists' perspectives

https://link.springer.com/content/pdf/10.1186/s12887-026-06533-y_reference.pdf

Pediatric Critical Care Medicine

No new relevant content

Lancet

Scheduled birth at term for the prevention of pre-eclampsia (PREVENT-PE): an open-label randomised controlled trial

<https://pubmed.ncbi.nlm.nih.gov/41354041/>

Maternal and neonatal outcomes after infection with monkeypox virus clade I during pregnancy in DR Congo: a pooled, prospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/41429130/>

JAMA

Pharmacologic treatment of perinatal depression

<https://pubmed.ncbi.nlm.nih.gov/41259042/>

The role of vaccination in maternal and perinatal outcomes associated with COVID-19 in pregnancy

<https://pubmed.ncbi.nlm.nih.gov/41396589/>

Trends in Vitamin K administration among infants

<https://pubmed.ncbi.nlm.nih.gov/41359326/>

COVID-19 in pregnancy linked with risk of neurodevelopmental disorders in early childhood

<https://pubmed.ncbi.nlm.nih.gov/41481306/>

NEJM

Osteogenesis imperfecta

<https://pubmed.ncbi.nlm.nih.gov/41460114/>

Congenital zika syndrome

<https://pubmed.ncbi.nlm.nih.gov/41467652/>

Atretic cephalocele

<https://pubmed.ncbi.nlm.nih.gov/41499734/>

Financing telehealth — moving beyond payment parity

<https://pubmed.ncbi.nlm.nih.gov/41534097/>

The essential role of states in protecting immunization access

<https://pubmed.ncbi.nlm.nih.gov/41406475/>

BMJ

Preimplantation genetic testing for aneuploidy versus no genetic testing in couples undergoing intracytoplasmic sperm injection for severe male infertility: multicentre, open label, randomised controlled trial

<https://pubmed.ncbi.nlm.nih.gov/41436190/>

Pediatric Infectious Disease Journal

Prognostic factors of late-onset hearing loss in infants with congenital cytomegalovirus and normal audiologic assessment at birth

<https://pubmed.ncbi.nlm.nih.gov/40838764/>

Emergence of antiviral drug resistance in congenital cytomegalovirus infection during treatment: an updated review of literature and case report

<https://pubmed.ncbi.nlm.nih.gov/40829133/>

Loss of health-related quality of life among hospitalized children with respiratory syncytial virus and their caregivers

<https://pubmed.ncbi.nlm.nih.gov/40924757/>

Effectiveness of nirsevimab in preventing respiratory syncytial virus-related burden: a test-negative case-control study in infants with bronchiolitis in Lombardy region, Italy

<https://pubmed.ncbi.nlm.nih.gov/41104905/>

Pediatric Cardiology

Follow-up brain MRI after carotid reconstruction or ligation in neonatal venoarterial extracorporeal membrane oxygenation: single-center retrospective cohort, 2009–2022

<https://pubmed.ncbi.nlm.nih.gov/41307464>

Echocardiographic changes in infants with severe congenital diaphragmatic hernia after fetoscopic endoluminal tracheal occlusion (FETO)

<https://pubmed.ncbi.nlm.nih.gov/39672938>

Preoperative oral feeding in infants with congenital heart disease within the first month of life is associated with a higher likelihood of freedom from tube feeding at time of postoperative discharge

<https://pubmed.ncbi.nlm.nih.gov/39779518>

Patent ductus arteriosus morphology changes in preterm neonates undergoing transcatheter device closure

<https://pubmed.ncbi.nlm.nih.gov/39812796>

Prenatal diagnosis of congenital heart disease in liveborn infants in the New England region

<https://pubmed.ncbi.nlm.nih.gov/39849107>

Pediatric Neurology

Epilepsy after electroencephalographically verified neonatal seizures: a Swedish population-based matched cohort study

<https://pubmed.ncbi.nlm.nih.gov/41166784>

Obstetrics and Gynecology

Lasting influence of prenatal severe acute respiratory syndrome Coronavirus 2 (Sars-CoV-2) infection on offspring neurodevelopmental health and functioning

<https://pubmed.ncbi.nlm.nih.gov/41411664/>

Measles in pregnancy: clinical considerations and challenges

<https://pubmed.ncbi.nlm.nih.gov/41411665/>

Emerging substances and perinatal health: a narrative review

<https://pubmed.ncbi.nlm.nih.gov/41166713/>

Artificial intelligence for the detection of fetal ultrasound findings concerning for major congenital heart defects

<https://pubmed.ncbi.nlm.nih.gov/40773751/>

Use of artificial intelligence–based software to aid in the identification of ultrasound findings associated with fetal congenital heart defects

<https://pubmed.ncbi.nlm.nih.gov/41100866/>

Maternal and neonatal outcomes after respiratory syncytial virus prefusion F protein vaccination during pregnancy: analysis from the 2024–2025 immunization campaign in France

<https://pubmed.ncbi.nlm.nih.gov/41232114/>

Maternal respiratory syncytial virus vaccination and preterm birth: a Utah statewide retrospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/41289590/>

American Journal of Obstetrics & Gynecology

Pre-operative ultrasound before cesarean delivery: reviewing findings during the first surgical time-out to improve maternal and infant safety

<https://pubmed.ncbi.nlm.nih.gov/41485830/>

A new perinatal quality measure in nulliparous term singleton vertex births: integrating cesarean rate, maternal, and neonatal outcomes into a single maternal-newborn dyadic metric

<https://pubmed.ncbi.nlm.nih.gov/40436310/>

The impacted fetal head at cesarean delivery, incidence, complications and management options, including a new device

<https://pubmed.ncbi.nlm.nih.gov/41485822/>

Neonatal outcomes after reduction of nulliparous term singleton vertex cesarean deliveries

Cesarean delivery before term – neonatal and pediatric aspects

<https://pubmed.ncbi.nlm.nih.gov/41485828/>

The impact of maternal microbial transfer on the infant gut microbiome after cesarean delivery: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/41485840/>

Why do cesarean delivery rates persistently rise despite evidence-based efforts to reduce them?

<https://pubmed.ncbi.nlm.nih.gov/41485842/>

Hospital Pediatrics

Neonatal toxicology testing: ethical considerations for pediatricians

<https://pubmed.ncbi.nlm.nih.gov/41401846/>

BASIC SCIENCE SELECTIONS

Dexamethasone regulates the SIRT1/NF-kappaB signaling pathway in neonatal rats with bronchopulmonary dysplasia to counteract NLRP3-inflammasome-induced pyroptosis and oxidative stress

<https://www.ncbi.nlm.nih.gov/pubmed/41418852>

Observations on IL-2-inducible tyrosine kinase expression and Th17/Treg cell ratio in hyperoxia-induced bronchopulmonary dysplasia in neonatal rats

<https://www.ncbi.nlm.nih.gov/pubmed/41371184>

IRF4 exacerbates pulmonary inflammation in bronchopulmonary dysplasia mice model by regulating macrophage polarization and phagocytosis

<https://www.ncbi.nlm.nih.gov/pubmed/41205517>

ALAS2 prevents neonatal necrotizing enterocolitis by improving ferroptosis in intestinal epithelial cells through inhibition of oxidative stress

<https://www.ncbi.nlm.nih.gov/pubmed/41509986>

Disruption of bile acid homeostasis potentiates Paneth cell ablation by activating the intestinal Farnesoid X receptor in necrotizing enterocolitis

<https://www.ncbi.nlm.nih.gov/pubmed/41507219>

Assessment of the protective effects of milk osteopontin in necrotizing enterocolitis neonatal rat model

<https://www.ncbi.nlm.nih.gov/pubmed/40953610>

Intercellular adhesion molecule (ICAM)-1 is required to control Toxoplasma gondii infection in uterine tissues and establish a successful gestation in a murine model of congenital toxoplasmosis

<https://www.ncbi.nlm.nih.gov/pubmed/40204594>

Other noteworthy publications

An interventional study on the late treatment of severe bronchopulmonary dysplasia in preterm infants using mesenchymal stromal cells

<https://www.ncbi.nlm.nih.gov/pubmed/41522418>

The use of treprostinil for bronchopulmonary dysplasia associated pulmonary hypertension

<https://www.ncbi.nlm.nih.gov/pubmed/41521648>

Is small for gestational age associated with reduced oxygen saturation to FiO₂ ratio at 36 weeks postmenstrual age in preterm infants, independent of bronchopulmonary dysplasia? A retrospective Italian two-center cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/41484426>

Intestinal fatty acid binding protein (I-FABP) as a sensitive and specific biomarker for necrotizing enterocolitis (NEC) in pre-term infants

<https://www.ncbi.nlm.nih.gov/pubmed/41135872>

Arnold Schwarzenegger or Danny DeVito? The fate of twins with necrotizing enterocolitis in the NICU

<https://www.ncbi.nlm.nih.gov/pubmed/40812408>

Hemodynamic changes in neonatal hypoxic-ischemic encephalopathy requiring therapeutic hypothermia

<https://www.ncbi.nlm.nih.gov/pubmed/41559489>

Cardiovascular performance in neonates with hypoxic-ischemic encephalopathy under therapeutic hypothermia: evaluation by conventional and advanced echocardiographic techniques

<https://www.ncbi.nlm.nih.gov/pubmed/39847070>

Automated diagnosis of early-stage retinopathy of prematurity

<https://www.ncbi.nlm.nih.gov/pubmed/41286176>

Comparison of creatinine- and cystatin C-based definitions of acute kidney injury in neonates with congenital diaphragmatic hernia

<https://www.ncbi.nlm.nih.gov/pubmed/41580574>