

Publications Working Group

[Ayan Rajgarhia](#), Page Editor - Children's Mercy Hospital

Craig Nankervis - Nationwide Children's Hospital

Christopher Rouse - Massachusetts General Hospital for Children

Vineet Lamba - University of Tennessee Health Science Center

Ranjith Kamity - NYU Long Island School of Medicine

L. Corbin Downey - Atrium Health Wake Forest Baptist

American Academy
of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN®

Section on Neonatal-Perinatal Medicine

ARTICLES OF INTEREST – September 2022

[Clinical practice guideline revision: management of hyperbilirubinemia in the newborn infant 35 or more weeks of gestation](#)

Alex R Kemper, Thomas B Newman, Jonathan L Slaughter, et al. *Pediatrics*.

This clinical practice guideline updates and replaces the 2004 AAP clinical practice guideline for the management and prevention of hyperbilirubinemia in the newborn infant 35 or more weeks gestation. Updates include new treatment threshold curves, screening of DAT positive infants, transcutaneous bilirubin evaluation (including post-phototherapy), evaluation of infants requiring phototherapy, length of phototherapy, and timing of bilirubin rebound evaluation and follow-up.

[Two-year neurodevelopmental outcome in children born extremely preterm: the EPI-DAF study](#)

Pauline E van Beek, Monique Rijken, Lisa Broeders, et al. *Arch Dis Child Fetal Neonatal Ed*.

The nationwide Extremely Preterm Infants – Dutch Analysis on Follow-up Study reports two-year neurodevelopmental outcomes after the Dutch practice regarding initiation of active treatment in extremely preterm infants was lowered from 25 completed weeks to 24 completed weeks gestation in 2010. This study included all Dutch live-born infants, born between 24 0/7 weeks and 26 6/7 weeks GA, who were 2 years corrected age (CA) in 2018–2020. 651 of 991 live born infants (66%) survived to 2 years' CA and overall, 62% had no impairment, 29% mild impairment and 9% moderate-to-severe impairment (NDI). While there were differences in survival, the percentage of surviving children with NDI was comparable between 24 weeks, 25 weeks and 26 weeks gestation (around 9%). NDI-free survival was 48%, 67% and 75% in NICU-admitted infants at 24 weeks, 25 weeks and 26 weeks gestation, respectively. After multivariable analysis, severe brain injury and low maternal education were associated with higher odds of NDI.

[Blood pressure, organ dysfunction, and mortality in preterm neonates with late-onset sepsis](#)

Faith Zhu, Michelle Baczynski, Ashraf Kharrat, et al. *Pediatr Res*.

This two-center retrospective study over 6 years examined 147 neonates <35 weeks gestational age to investigate the association between systolic, diastolic, and mean blood pressures (SBP, DBP, and MBP) and adverse outcomes with late-onset sepsis (LOS) in this population. Outcome measures were organ dysfunction (ODF) using the predefined criteria and post-ODF mortality (≤ 7 days from LOS onset). 147 neonates with blood \pm cerebrospinal fluid culture positive for organisms other than coagulase-negative Staphylococcus at >72 h age were included for analyses. The mean GA and weight at birth and at LOS were 25.9 ± 1.9 and 829 ± 258 and 29.2 ± 3.6 weeks and 1045 ± 529 g, respectively. 70 (48%) neonates fulfilled the predefined criteria for ODF, of which 20 (29%) died. The median (interquartile range [IQR]) time to ODF from LOS onset was 3.4 (0.8, 9.5) h; 28 had ODF at presentation. ODF was more frequently associated with gram-negative bacteremia and meningitis. While baseline BPs were similar between

groups, the ODF group demonstrated significantly lower SBP, MBP, and DBP, starting within the first 12-h period after LOS onset ($p < 0.01$ for all). Mortality was associated with a greater reduction in SBP $[-13 (-19, -8)$ vs. $-4 (-8, 0)$; $p < 0.01$] and MBP $[-9 (-13, -5)$ vs. $+1 (-1, +4)$; $p = 0.03$] 0–12 h post-LOS onset.

[The administration of amnion-derived multipotent cell secretome ST266 protects against necrotizing enterocolitis in mice and piglets](#)

Chhinder P Sodhi, Raheel Ahmad, Hongpeng Jia, et al. *Am J Physiol Gastrointest Liver Physiol*.

This work reveals that the secreted product of amniotic progenitor cells (called ST266) can prevent or treat NEC in mice, piglet, and “NEC-in-a-dish” models of this disease. Mechanistically, ST266 prevented bacterial signaling, and a detailed transcriptomic analysis revealed effects on gut differentiation, immunity, and metabolism. Thus, an amniotic secretome may offer novel approaches for NEC.

[The effects of caffeine following hypoxic-ischemic encephalopathy: A systematic review of animal Studies](#)

Matteo Bruschetti, Alvaro Moreira, Ana Beatriz Pizarro, et al. *Brain Res*.

Seven studies met inclusion criteria for this systematic review with meta-analysis assessing the effects of caffeine on the prevention and treatment of neurological morbidity caused by hypoxic-ischemic encephalopathy (HIE) in preclinical studies. Caffeine had a positive effect on overall functional outcome (SDM 0.92(95%CI 0.25 to 1.59)). Animals treated with caffeine performed better on Morris water maze and rotarod tests (SDM -1.39(95%CI -0.36 to -2.41)) and (SDM 1.03(95%CI 0.03 to 2.04)), respectively. Caffeine treated animals performed worse on open field test compared to the controls (SDM -1.11(95%CI -3.01 to 0.80)). Early caffeine exposure in preclinical rodent models of HIE is associated with improved selective functional and neurological outcomes, although the certainty of the evidence is limited.

[Routine use of cerebral magnetic resonance imaging in infants born extremely preterm](#)

Julia Buchmayer, Gregor Kaspran, Vito Giordano, et al. *J Pediatr*.

The authors sought to describe cerebral abnormalities and their risk factors in a contemporary cohort of infants born extremely premature after the introduction of routine cerebral magnetic resonance imaging (cMRI) at term-equivalent age. After routine cMRI, without preconfirmed pathology by cranial ultrasonography, low-grade IVH, noncystic white matter disease, and cerebellar injuries were the most frequently found abnormalities. The clinical value and long-term benefit of the detection of these low-grade pathologies have yet to be confirmed.

[The impact of mode of delivery on maternal and neonatal outcomes during periviable birth \(22–25 weeks\)](#)

Jared T Roeckner, Erica Peterson, Jennifer Rizzo, et al. *Am J Perinatol*.

The authors conducted a retrospective cohort study of 230 periviable deliveries (22–25 weeks) from 2013 to 2020 at a tertiary teaching institution. Deliveries were grouped by the mode of delivery. They found that periviable birth has a high rate of maternal morbidity with a trend toward the highest risk among women undergoing cesarean delivery. Neonatal survival to discharge was not different between the groups and among the 172 neonates discharged alive, there was no difference in BPD, IVH, NEC, PDA, ROP, or intact survival.

[Association of racial disparities with in-hospital outcomes in severe bronchopulmonary dysplasia](#)

Tamora R Lewis, Matthew J Kielt, Valencia P Walker, et al. *JAMA Pediatr*.

In a multicenter severe BPD cohort, study results suggest that infants born to Black mothers had increased likelihood of death and increased length of hospital stay compared with infants born to White mothers. Prospective studies are needed to define the sociodemographic mechanisms underlying disparate health outcomes for Black infants with severe BPD.

[Umbilical cord blood culture in neonatal early-onset sepsis: a systematic review and meta-analysis](#)

Thomas H Dierikx, Anton H L C van Kaam, Tim G J de Meij, et al. *Pediatr Res*.

This systematic review shows that, compared to Peripheral Blood Culture, Umbilical Cord Blood Culture has higher sensitivity and comparable specificity for clinical Early Onset Sepsis (EOS) and might be considered as diagnostic test for EOS. Due to the limited number of studies, low incidences of EOS cases, and the imperfect reference standards for EOS, results should be interpreted cautiously.

OTHER NOTEWORTHY PUBLICATIONS – September, 2022

COVID-19

Policy Statement: COVID-19 vaccines in infants, children, and adolescents

<https://pubmed.ncbi.nlm.nih.gov/35716376>

Safety of booster doses of coronavirus disease 2019 (COVID-19) vaccine in pregnancy in the vaccine adverse event reporting system

<https://pubmed.ncbi.nlm.nih.gov/35926203/>

Maternal COVID-19 infection and possible associated adverse neurological fetal outcomes, two case reports

<https://pubmed.ncbi.nlm.nih.gov/34814196/>

SARS-CoV-2 in infant urine and fecal samples after in utero COVID-19 exposure

<https://pubmed.ncbi.nlm.nih.gov/34718351/>

Effects of prenatal exposure to maternal COVID-19 and perinatal care on neonatal outcome: results from the INTERCOVID Multinational Cohort Study

<https://pubmed.ncbi.nlm.nih.gov/35452653/>

Increase in preterm stillbirths in association with reduction in iatrogenic preterm births during COVID-19 lockdown in Australia: a multicenter cohort study

<https://pubmed.ncbi.nlm.nih.gov/35452655/>

Maternal and neonatal outcomes of pregnancies with COVID-19 after medically assisted reproduction: results from the prospective COVID-19-Related Obstetrical and Neonatal Outcome Study

<https://pubmed.ncbi.nlm.nih.gov/35452651/>

Pediatrics

Neonatal outcomes of mothers with a disability

<https://pubmed.ncbi.nlm.nih.gov/35934737>

Racism and quality of neonatal intensive care: voices of black mothers

<https://pubmed.ncbi.nlm.nih.gov/35965288>

Outcomes after positive syphilis screening

<https://pubmed.ncbi.nlm.nih.gov/36000336>

Autism risk and perinatal antibiotic use

<https://pubmed.ncbi.nlm.nih.gov/36017659>

Clinical practice guideline revision: management of hyperbilirubinemia in the newborn infant 35 or more weeks of gestation

<https://pubmed.ncbi.nlm.nih.gov/35927462>

Technical report: diagnosis and management of hyperbilirubinemia in the newborn infant 35 or more weeks of gestation

<https://pubmed.ncbi.nlm.nih.gov/35927519>

Policy statement: scope of health care benefits for neonates, infants, children, adolescents, and young adults through age 26

<https://pubmed.ncbi.nlm.nih.gov/36032024>

Research brief: predicting the need for phototherapy after discharge: update for 2022 phototherapy guidelines

<https://pubmed.ncbi.nlm.nih.gov/35927471>

Research brief: race and ethnicity in neonatal group B streptococcal disease in England: 2016–2020

<https://pubmed.ncbi.nlm.nih.gov/35979728>

Review articles: supraglottic airways compared with face masks for neonatal resuscitation: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/35948789>

State-of-the-art review: retinopathy of prematurity: a global perspective and recent developments

<https://pubmed.ncbi.nlm.nih.gov/35948728>

Quality Reports: Interdisciplinary quality improvement project increases vitamin D supplementation in infants

<https://pubmed.ncbi.nlm.nih.gov/36039691>

Case report: kidney replacement therapy in low birth weight preterm newborns

<https://pubmed.ncbi.nlm.nih.gov/35945293>

Journal of Pediatrics

Evidence-based genetic testing for individuals with congenital diaphragmatic hernia

<https://pubmed.ncbi.nlm.nih.gov/35667445/>

Disparities and early engagement associated with the 18- to 36-month high-risk infant follow-up visit among very low birthweight infants in California

<https://pubmed.ncbi.nlm.nih.gov/35597303/>

Severe anemia at birth—incidence and implications

<https://pubmed.ncbi.nlm.nih.gov/35660494/>

Prevalence and predictors of postpartum cosleeping practices after midwife-led births in the US

<https://pubmed.ncbi.nlm.nih.gov/35660492/>

Ventricular volume in infants born very preterm: relationship with brain maturation and neurodevelopment at age 4.5 years

<https://pubmed.ncbi.nlm.nih.gov/35561806/>

Cerebral sinus venous thrombosis in infants after surgery for congenital heart disease

<https://pubmed.ncbi.nlm.nih.gov/35667448/>

Routine use of cerebral magnetic resonance imaging in infants born extremely preterm

<https://pubmed.ncbi.nlm.nih.gov/35738315/>

Trametinib for refractory chylous effusions and systemic complications in children with noonan syndrome

<https://pubmed.ncbi.nlm.nih.gov/35605646/>

The genomics of congenital diaphragmatic hernia: a 10-year retrospective review

<https://pubmed.ncbi.nlm.nih.gov/35430246/>

Pediatric Research

Umbilical cord blood culture in neonatal early-onset sepsis: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/34711944/>

Iron transport across the human placenta is regulated by hepcidin

<https://pubmed.ncbi.nlm.nih.gov/33069164/>

Severe intraventricular hemorrhage causes long-lasting structural damage in a preterm rabbit pup model

<https://pubmed.ncbi.nlm.nih.gov/35505079/>

Azithromycin reduces inflammation-amplified hypoxic–ischemic brain injury in neonatal rats

<https://pubmed.ncbi.nlm.nih.gov/34625655/>

Exposure to high levels of oxygen in neonatal rats induce a decrease in hemoglobin levels

<https://pubmed.ncbi.nlm.nih.gov/34718354/>

Glucocorticoids in a neonatal hyperoxic lung injury model: pulmonary and neurotoxic effects

<https://pubmed.ncbi.nlm.nih.gov/34725500/>

Splanchnic oxygen saturation during reoxygenation with 21% or 100% O₂ in newborn piglets

<https://pubmed.ncbi.nlm.nih.gov/34725499/>

Irradiance footprint of phototherapy devices: a comparative study

<https://pubmed.ncbi.nlm.nih.gov/34728809/>

Neonatal encephalopathy plasma metabolites are associated with neurodevelopmental outcomes

<https://pubmed.ncbi.nlm.nih.gov/34621028/>

Language function following preterm birth: prediction using machine learning

<https://pubmed.ncbi.nlm.nih.gov/34635792/>

Newborn screen metabolic panels reflect the impact of common disorders of pregnancy

<https://pubmed.ncbi.nlm.nih.gov/34671094/>

Blood pressure, organ dysfunction, and mortality in preterm neonates with late-onset sepsis

<https://pubmed.ncbi.nlm.nih.gov/34671093/>

Long-term cognitive outcomes in term newborns with watershed injury caused by neonatal encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/34702974/>

Ventilatory control instability as a predictor of persistent periodic breathing in preterm infants

<https://pubmed.ncbi.nlm.nih.gov/34716421/>

Anti-reflux medication use in preterm infants

<https://pubmed.ncbi.nlm.nih.gov/34716422/>

Preterm birth and Kawasaki disease: a nationwide Japanese population-based study

<https://pubmed.ncbi.nlm.nih.gov/34625654/>

Sports participation and preterm birth: a nationwide birth cohort in Japan

<https://pubmed.ncbi.nlm.nih.gov/34707251/>

Archives of Disease in Childhood - Fetal & Neonatal Edition

Neonatal and fetal therapy of congenital diaphragmatic hernia-related pulmonary hypertension

<https://www.ncbi.nlm.nih.gov/pubmed/34952853>

Two-year neurodevelopmental outcome in children born extremely preterm: the EPI-DAF study

<https://www.ncbi.nlm.nih.gov/pubmed/35236745>

Dual-site blood culture yield and time to positivity in neonatal late-onset sepsis

<https://www.ncbi.nlm.nih.gov/pubmed/34753783>

Impact of maternal obesity on neonatal heart rate and cardiac size

<https://www.ncbi.nlm.nih.gov/pubmed/34789488>

Single versus continuous sustained inflations during chest compressions and physiological-based cord clamping in asystolic lambs

<https://www.ncbi.nlm.nih.gov/pubmed/34844983>

Parental perspective on important health outcomes of extremely preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/34815239>

Effect of prophylactic dextrose gel on the neonatal gut microbiome

<https://www.ncbi.nlm.nih.gov/pubmed/34857640>

Effects of tactile stimulation on spontaneous breathing during face mask ventilation

<https://www.ncbi.nlm.nih.gov/pubmed/34862191>

Global incidence proportion of intraventricular haemorrhage of prematurity: a meta-analysis of studies published 2010–2020

<https://www.ncbi.nlm.nih.gov/pubmed/34930831>

MRI-based brain volumes of preterm infants at term: a systematic review and meta-analysis

<https://www.ncbi.nlm.nih.gov/pubmed/35078779>

Severe neonatal hyperbilirubinaemia: lessons learnt from a national perinatal audit

<https://www.ncbi.nlm.nih.gov/pubmed/35091450>

Associations of body composition with regional brain volumes and white matter microstructure in very preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/35058276>

Preliminary study of automated oxygen titration at birth for preterm infant

<https://www.ncbi.nlm.nih.gov/pubmed/35140115>

Predictors of anastomotic strictures following oesophageal atresia repair

<https://www.ncbi.nlm.nih.gov/pubmed/35217569>

Lung volume distribution in preterm infants on non-invasive high-frequency ventilation

<https://www.ncbi.nlm.nih.gov/pubmed/35101993>

Saliva cortisol diurnal variation and stress responses in term and preterm infant

<https://www.ncbi.nlm.nih.gov/pubmed/35256524>

Journal of Perinatology

Hemodynamic consequences of respiratory interventions in preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/35690691>

Short and long-term outcomes of children with autoimmune congenital heart block treated with a combined maternal-neonatal therapy. A comparison study

<https://www.ncbi.nlm.nih.gov/pubmed/35717457>

Blood pressure values and hypotension management in extremely preterm infants: a multi-center study

<https://www.ncbi.nlm.nih.gov/pubmed/35715600>

Lower pass threshold ($\geq 93\%$) for critical congenital heart disease screening at high altitude prevents repeat screening and reduces false positives

<https://www.ncbi.nlm.nih.gov/pubmed/35978107>

Being small for gestational age is not an independent risk factor for mortality in neonates with congenital diaphragmatic hernia: a multicenter study

<https://www.ncbi.nlm.nih.gov/pubmed/35449444>

Improved survival for infants with severe congenital diaphragmatic hernia

<https://www.ncbi.nlm.nih.gov/pubmed/35461332>

Image-based prenatal predictors correlate with postnatal survival, extracorporeal life support use, and defect size in left congenital diaphragmatic hernia

<https://www.ncbi.nlm.nih.gov/pubmed/35228684>

Image-based prenatal predictors of postnatal survival, extracorporeal life support, and defect size in right congenital diaphragmatic hernia

<https://www.ncbi.nlm.nih.gov/pubmed/35922665>

Does videolaryngoscopy improve tracheal intubation first attempt success in the NICU? A report from the NEAR4NEOS

<https://www.ncbi.nlm.nih.gov/pubmed/35922664>

Association of multiple tracheal intubation attempts with clinical outcomes in extremely preterm infants: a retrospective single-center cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/35474128>

Impact of multiple intubation attempts on adverse tracheal intubation associated events in neonates: a report from the NEAR4NEOS

<https://www.ncbi.nlm.nih.gov/pubmed/35982243>

Point of care lung ultrasound service in neonatal intensive care: Five years of experience in Manitoba, Canada

<https://www.ncbi.nlm.nih.gov/pubmed/35831578>

Pulmonary hemorrhage in extremely low birth weight infants: Significance of the size of left to right shunting through a valve incompetent patent foramen ovale

<https://www.ncbi.nlm.nih.gov/pubmed/35851183>

Evaluation of three non-invasive ventilation modes after extubation in the treatment of preterm infants with severe respiratory distress syndrome

<https://www.ncbi.nlm.nih.gov/pubmed/35953535>

Brief Communication: Chronic lung disease-related mortality in the US from 1999–2017: trends and racial disparities

<https://www.ncbi.nlm.nih.gov/pubmed/35906284>

Factors associated with discontinuation of pulmonary vasodilator therapy in children with bronchopulmonary dysplasia-associated pulmonary hypertension

<https://www.ncbi.nlm.nih.gov/pubmed/35676536>

Brief Communication: Prevention of bronchopulmonary dysplasia: a cross-sectional survey of clinical practices in Canada

<https://www.ncbi.nlm.nih.gov/pubmed/35461331>

Brief Communication: Pattern of postnatal steroid use for bronchopulmonary dysplasia in extremely preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/35264697>

Improving management of ventilator associated tracheitis in a level IV NICU

<https://www.ncbi.nlm.nih.gov/pubmed/35449445>

Neonatology

No new content

American Journal of Perinatology

The impact of mode of delivery on maternal and neonatal outcomes during periviable birth (22–25 weeks)

<https://pubmed.ncbi.nlm.nih.gov/35253122/>

Antimicrobial prophylaxis use in the neonatal intensive care unit: an antimicrobial stewardship target that deserves attention!

<https://pubmed.ncbi.nlm.nih.gov/33454950/>

Does the head position affect neonatal lateral ventricular volume?

<https://pubmed.ncbi.nlm.nih.gov/33374023/>

Umbilical cord management in late preterm and term infants: a randomized controlled trial

<https://pubmed.ncbi.nlm.nih.gov/33472241/>

Nasal intermittent positive pressure ventilation versus continuous positive airway pressure and apnea of prematurity: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/33450781/>

Role of cord blood carboxyhemoglobin in detecting significant hyperbilirubinemia in term neonates with abo alloimmunization

<https://pubmed.ncbi.nlm.nih.gov/33395710/>

Effectiveness of dual medication therapy (oral acetaminophen and oral ibuprofen) for the management of patent ductus arteriosus in extremely premature infants: a feasibility trial

<https://pubmed.ncbi.nlm.nih.gov/33454945/>

Antenatal steroids and acute kidney injury in preterm infants

<https://pubmed.ncbi.nlm.nih.gov/33406538/>

Isolated and on guard: preparing neonatal intensive care unit families for life with hydrocephalus

<https://pubmed.ncbi.nlm.nih.gov/33454943/>

Neurodevelopmental outcome in very low birth weight infants exposed to donor milk

<https://pubmed.ncbi.nlm.nih.gov/33406537/>

Frequency and severity of chlorothiazide-induced hyponatremia in the neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/33406536/>

Prevalence, risk factors, and short-term outcomes of full-term low birth weight infants born at a tertiary academic center: a prospective case–control study

<https://pubmed.ncbi.nlm.nih.gov/33406535/>

Effect of hypothermia on serum myelin basic protein and tumor necrosis factor- α in neonatal hypoxic-ischemic encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/33454948/>

Journal of Neonatal-Perinatal Medicine

No new content

Maternal Health, Neonatology and Perinatology

Case report of congenital methemoglobinemia: an uncommon cause of neonatal cyanosis (PDF)

<https://mhnpjournal.biomedcentral.com/counter/pdf/10.1186/s40748-022-00142-0.pdf>

Prenatal exposure to tobacco and adverse birth outcomes: effect modification by folate intake during pregnancy (PDF)

<https://mhnpjournal.biomedcentral.com/counter/pdf/10.1186/s40748-022-00141-1.pdf>

Nasolabial and distal limbs dry gangrene in newborn due to hypernatremic dehydration with disseminated intravascular coagulation: a case report (PDF)

<https://mhnpjournal.biomedcentral.com/counter/pdf/10.1186/s40748-022-00140-2.pdf>

Neoreviews

Neonatal conjunctivitis

<https://pubmed.ncbi.nlm.nih.gov/36047752>

Neonatal laryngotracheal anomalies

<https://pubmed.ncbi.nlm.nih.gov/36047759>

Use of albumin in the NICU: an evidence-based review

<https://pubmed.ncbi.nlm.nih.gov/36047753>

An uncommon diagnosis for diarrhea and failure to thrive in a 6-week-old infant

<https://pubmed.ncbi.nlm.nih.gov/36047754>

Unexpected MRI finding after whole body cooling for neonatal encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/36047751>

A hypotonic neonate

<https://pubmed.ncbi.nlm.nih.gov/36047756>

Shoulder dystocia: neonatal implications

<https://pubmed.ncbi.nlm.nih.gov/36047758>

A neonatal abdominal wall defect

<https://pubmed.ncbi.nlm.nih.gov/36047757>

A neonate with unexpected external genitalia at birth

<https://pubmed.ncbi.nlm.nih.gov/36047755>

JAMA Pediatrics

Disparities in lung disease of prematurity—when does exposure to racism begin?

<https://pubmed.ncbi.nlm.nih.gov/35913709/>

Association of racial disparities with in-hospital outcomes in severe bronchopulmonary dysplasia

<https://pubmed.ncbi.nlm.nih.gov/35913704/>

Geographical differences and temporal improvements in forced expiratory volume in 1 second of preterm-born children: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/35759258/>

Associations between prenatal urinary biomarkers of phthalate exposure and preterm birth: a pooled study of 16 US cohorts

<https://pubmed.ncbi.nlm.nih.gov/35816333/>

BMC Pediatrics

Understanding the risk factors for adverse events during exchange transfusion in neonatal hyperbilirubinemia using explainable artificial intelligence (PDF)

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-022-03615-5.pdf>

Transplantation of maternal intestinal flora to the newborn after elective cesarean section (SECFLOr): study protocol for a double blinded randomized controlled trial (PDF)

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-022-03609-3.pdf>

Attitudes towards the neurological examination in an unwell neonate: a mixed methods approach (PDF)

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-022-03616-4.pdf>

Factors associated with 5-min APGAR score, death and survival in neonatal intensive care: a case-control study (PDF)

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-022-03592-9.pdf>

Reference values for diaphragm electrical activity (Edi) in newborn infants (PDF)

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-022-03619-1.pdf>

Outcome of neonatal hypoxemic respiratory failure: a livebirth population-based retrospective survey (PDF)

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-022-03603-9.pdf>

Maternal preterm birth prediction in the United States: a case-control database study (PDF)

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-022-03591-w.pdf>

Tidal volumes during delivery room stabilization of (near) term infants (PDF)

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-022-03600-y.pdf>

Machine learning for prediction of bronchopulmonary dysplasia-free survival among very preterm infants

<https://pubmed.ncbi.nlm.nih.gov/36100848/>

Severe neonatal hyperbilirubinemia secondary to combined RhC hemolytic disease, congenital hypothyroidism and large adrenal hematoma: a case report

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-022-03594-7.pdf>

Prognostic risk score development to predict birth asphyxia using maternal and fetal characteristics in South Gondar zone hospitals, north West Ethiopia

<https://bmcpediatr.biomedcentral.com/counter/pdf/10.1186/s12887-022-03582-x.pdf>

Pediatric Critical Care Medicine

No relevant articles

New England Journal of Medicine

No relevant articles

Lancet

No relevant articles

JAMA

No relevant articles

BMJ

No relevant articles

Pediatric Infectious Disease Journal

Discordant congenital toxoplasmosis and cytomegalovirus infection in dichorionic diamniotic twins

<https://pubmed.ncbi.nlm.nih.gov/35797707/>

The loss of respiratory syncytial virus seasonality and the effects on palivizumab administration

<https://pubmed.ncbi.nlm.nih.gov/35763694/>

Pediatric Cardiology

No new content

Pediatric Neurology

Association between early EEG background and outcomes in infants with mild hie undergoing therapeutic hypothermia

<https://pubmed.ncbi.nlm.nih.gov/35835026/>

Extremity movement score in infants with all Narakas types of obstetric brachial plexus palsy

<https://pubmed.ncbi.nlm.nih.gov/35772228/>

Obstetrics and Gynecology

Defining a cesarean delivery rate for optimizing maternal and neonatal outcomes
<https://pubmed.ncbi.nlm.nih.gov/35930389/>

American Journal of Obstetrics & Gynecology

Percutaneous/mini-laparotomy fetoscopic repair of open spina bifida: a novel surgical technique
<https://pubmed.ncbi.nlm.nih.gov/35752302/>

Maternal obesity during pregnancy leads to derangements in one-carbon metabolism and the gut microbiota: implications for fetal development and offspring wellbeing
<https://pubmed.ncbi.nlm.nih.gov/35452650/>

Fetal reduction of triplet pregnancies to twins vs singletons: a meta-analysis of survival and pregnancy outcome
<https://pubmed.ncbi.nlm.nih.gov/35351408/>

Antenatal intravenous immunoglobulins in pregnancies at risk of fetal and neonatal alloimmune thrombocytopenia: comparison of neonatal outcome in treated and nontreated pregnancies
<https://pubmed.ncbi.nlm.nih.gov/35500612/>

Severity of intrapartum fever and neonatal outcomes
<https://pubmed.ncbi.nlm.nih.gov/35598690/>

Hospital Pediatrics

No relevant content

BASIC SCIENCE SELECTION

A single intravenous injection of cyclosporin A-loaded lipid nanocapsules prevents retinopathy of prematurity

Marilena Bohley, Andrea E Dillinger, Frank Schweda, et al. *Sci Adv.*
<https://www.ncbi.nlm.nih.gov/pubmed/36149956>

Immunomodulation of MiRNA-223-based nanoplatfrom for targeted therapy in retinopathy of prematurity

Keke Huang, Zhiqing Lin, Yuanyuan Ge, et al. *J Control Release.*
<https://www.ncbi.nlm.nih.gov/pubmed/35961472>

Changes of oxidative stress-related gene expression in an in vitro model of neonatal hypoxic-ischemic encephalopathy

Carlo Dani, Simone Pratesi, Giuseppe Ranieri, et al. *Neonatology.*
<https://www.ncbi.nlm.nih.gov/pubmed/36096109>

Novel pharmacological inhibition of JMJD3 improves necrotizing enterocolitis by attenuating the inflammatory response and ameliorating intestinal injury

Shurong Ma, Lingqi Xu, Lulu Chen, et al. *Biochem Pharmacol.*
<https://www.ncbi.nlm.nih.gov/pubmed/35803318>

Targeting persistent neuroinflammation after hypoxic-ischemic encephalopathy-is exendin-4 the answer?

Kelly Q Zhou, Simerdeep K Dhillon, Laura Bennet, et al. *Int J Mol Sci.*
<https://www.ncbi.nlm.nih.gov/pubmed/36077587>

The administration of amnion-derived multipotent cell secretome ST266 protects against necrotizing enterocolitis in mice and piglets

Chhinder P Sodhi, Raheel Ahmad, Hongpeng Jia, et al. *Am J Physiol Gastrointest Liver Physiol.*
<https://www.ncbi.nlm.nih.gov/pubmed/35819175>

The effects of caffeine following hypoxic-ischemic encephalopathy: A systematic review of animal studies

Matteo Bruschetti, Alvaro Moreira, Ana Beatriz Pizarro, et al. *Brain Res.*

<https://www.ncbi.nlm.nih.gov/pubmed/35753391>

Clinical

Efficacy of empiric antibiotic treatment of late-onset neonatal sepsis caused by Enterobacteriaceae: A systematic review

A B Akselsen, C C Sheth and V Veses. *Lett Appl Microbiol.*

<https://www.ncbi.nlm.nih.gov/pubmed/34951709>

Prefeeding interventions improve oral feeding in preterm infants

Gaoyan Chen, Xiaogang Li and Rui Pan. *Int J Pediatr Otorhinolaryngol.*

<https://www.ncbi.nlm.nih.gov/pubmed/36137472>

Neonates undergoing pyloric stenosis repair are at increased risk of difficult airway management: secondary analysis of the NEonate and Children audiT of Anaesthesia pRactice IN Europe

Nicola Disma, Thomas Engelhardt and Tom G Hansen. *Br J Anaesth.*

<https://www.ncbi.nlm.nih.gov/pubmed/36085092>

Mild controlled hypothermia for necrotizing enterocolitis treatment to preterm neonates: low technology technique description and safety analysis

Walusa Assad Gonçalves-Ferri, Cristina Helena Faleiros Ferreira, Lara Malosso Sgarbi Albuquerque, et al. *Eur J Pediatr.*

<https://www.ncbi.nlm.nih.gov/pubmed/35840777>

Is intravenous immunoglobulin a risk factor for necrotizing enterocolitis in neonates with haemolytic disease of the newborn? A retrospective cohort study

Jie Li, Xiao-Yun Zhong, Si-Jie Song, et al. *Vox Sang.*

<https://www.ncbi.nlm.nih.gov/pubmed/35613867>

Pausing TPN to decrease abnormal newborn screens: a nicu quality initiative

Jaclyn B Wiggins, Mariam Khan, Brooke D Vergales, et al. *Pediatr Qual Saf.*

<https://www.ncbi.nlm.nih.gov/pubmed/36128332>