

Publications Working Group

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Section on Neonatal-Perinatal Medicine

ARTICLES OF INTEREST – April 2022

[Predictive ability of 10-minute Apgar scores for mortality and neurodevelopmental disability](#)

Vivek V Shukla, Carla M Bann, Maran Ramani, et al. *Pediatrics*.

This secondary analysis of the Optimizing Cooling Trial included infants ≥ 36 weeks' gestational age with hypoxic-ischemic encephalopathy and 18- to 22-month outcomes from 18 US centers in the National Institute of Child Health and Human Development Neonatal Research Network. The study revealed that 50% (13 of 26) of infants with a 10-minute Apgar score of 0 survived; 46% (6 of 13) had no disability, 16% (2 of 13) had mild disability, and 38% (5 of 13) had moderate or severe disability. The authors conclude that the study provides evidence in support of the 2020 American Heart Association/International Liaison Committee on Resuscitation recommendation for continuing resuscitative efforts for infants who need cardiopulmonary resuscitation at 10 minutes after birth.

[Updates for the neonatal resuscitation program and resuscitation guidelines](#)

Gary M Weiner and Jeanette Zaichkin. *Neoreviews*.

This article reviews the 2020 NRP updates included in the Textbook of Neonatal Resuscitation, 8th edition (released in June 2021). While the updated guidelines have not changed the basic approach to neonatal resuscitation, several practices have changed which include the prebirth questions, initial steps, use of electronic cardiac monitors, the initial dose of epinephrine, the flush volume after intravascular epinephrine, and the duration of resuscitation with an absent heart rate. In addition, the program has enhanced components of the textbook to improve learning, added new course delivery options, and offers 2 course levels to allow learners to study the material that is most relevant to their role during neonatal resuscitation.

[Early antibiotic exposure and adverse outcomes in very preterm infants at low risk of early-onset sepsis: the epipage-2 cohort study](#)

Mathilde Letouzey, Elsa Lorthe, Laetitia Marchand-Martin, et al. *J Pediatr*.

The authors sought to assess the association between early empirical antibiotics and neonatal adverse outcomes in very preterm infants without risk factors for early-onset sepsis (EOS). Among 648 very preterm infants at low risk of EOS, 173 (26.2%) had received early antibiotic treatment. They found that early empirical antibiotic therapy administered in very preterm infants at low risk of EOS was associated with a higher risk of severe cerebral lesions and moderate-severe BPD.

[The randomized Tracheal Occlusion To Accelerate Lung growth \(TOTAL\)-trials on fetal surgery for congenital diaphragmatic hernia: reanalysis using pooled data](#)

Ben Van Calster, Alexandra Benachi, Kypros H Nicolaides, et al. *Am J Obstet Gynecol*.

The authors pooled data from two randomized controlled trials which compared neonatal and infant outcomes after fetoscopic endoluminal tracheal occlusion with expectant prenatal management in fetuses with severe and moderate isolated congenital diaphragmatic hernia, respectively. The combined data involved 287 patients (196 with moderate hypoplasia and 91 with severe hypoplasia). Their analysis suggests that fetoscopic endoluminal tracheal occlusion increases survival for both moderate and severe lung hypoplasia.

[Neonatal sepsis: a systematic review of core outcomes from randomised clinical trials](#)

Cían J Henry, Gergana Semova, Ellen Barnes, et al. *Pediatr Res*.

This article aims to establish a core outcome set for neonatal sepsis. Among 884 abstracts identified, 90 randomised controlled trials (RCTs) were included in this review. Only 30 manuscripts explicitly stated the primary and/or secondary outcomes. A total of 88 distinct outcomes were recorded across all 90 studies included. These were then assigned to seven different domains in line with the taxonomy for classification proposed by the COMET initiative. The most frequently reported outcome was survival with 74% (n = 67) of the studies reporting an outcome within this domain.

[Effect of enteral zinc supplementation on growth and neurodevelopment of preterm infants: a systematic review and meta-analysis](#)

Belal Alshaikh, Moaaz Abo Zeed, Kamran Yusuf, et al. *J Perinatol*.

This is a systemic review and meta-analysis of randomized trials addressing the effect of zinc supplementation on growth at 3-6 months post-term and neurodevelopment outcomes at 6-12 months post-term among preterm infants. The authors identified 8 RCTs including 742 preterm infants. Despite considerable heterogeneity among studies, zinc supplementation was associated with increased weight z-score (WMD = 0.50; 95% CI 0.23–0.76, heterogeneity I² = 89.1%; P < 0.01) and length z-score (WMD = 1.12; 95% CI 0.63–1.61, heterogeneity I² = 96.0%; P < 0.01). There was additional benefit for weight gain in studies that had a greater difference in zinc dose between groups (supplementation with >3 mg/kg/day or diet without routine zinc supplementation). There was an association with increased head circumferences among SGA infants. Zinc was associated with improved motor developmental score (WMD = 9.54; 95% CI 6.6–12.4, heterogeneity I² = 0%; P = 0.52) but not total neurodevelopment score. Secondary outcomes included a reduction in mortality, reduction in NEC, and no adverse outcomes with zinc supplementation.

[Characteristics and outcomes of a multi-institution cohort of infants with necrotizing enterocolitis totalis](#)

Allison T Rose, Isabella Zaniletti, Matthew T Santore, et al. *J Perinatol*.

This is a retrospective study to describe the management and outcomes of infants referred to Children's Hospital NICUs with either NEC totalis or surgical NEC non-totalis. 1059 infants across 31 centers were identified in the Children's Hospital Neonatal Database from 2010-2016; 15% had NEC totalis. Median gestational age was 27 weeks with birthweight of 9140 grams. 57% were intubated in the DR, 47% received antenatal steroids, 41% were treated with postnatal steroids prior to admission, and 64% received surfactant. PMA at NEC diagnosis was a median of 30 weeks for both groups. Chronologic age at NEC diagnosis was a median of 17 (25-75 percentile: 12-27) days for NEC totalis and 12 days (7-24) for surgical NEC. Totalis patients were more likely to have pre-operative acidosis and less likely to have signs of bowel perforation (39 vs 67%, p<0.001). Mortality among NEC totalis patients was 97% vs 27% (p<0.001) with more than 50% dying ≤12 hours from admission and 94% of the deaths attributed directly to the intra-abdominal catastrophe.

[A quality improvement initiative to standardize time to initiation of enteral feeds after non-surgical necrotizing enterocolitis using a consensus-based guideline](#)

Ekta U Patel, William T Head, Allison Rohrer, et al. *J Perinatol*.

This is a quality improvement initiative aimed at decreasing time to reach full enteral feeds after non-surgical necrotizing enterocolitis using a consensus-based guideline. This initiative reduced average days to initiate enteral feed after stage II NEC from 9.4 to 5.1 days, and average days to full enteral feeds were decreased by 35% from 24 to 15.7 days. The authors did not report any increase in NEC recurrence and post-NEC strictures. The report concluded that the multidisciplinary consensus-based NEC earlier feeding guideline decreased time to reach full enteral feeds and reduced central line days without adverse events.

[Nasal high-flow therapy during neonatal endotracheal intubation.](#)

Kate A Hodgson, Louise S Owen, C Omar F Kamlin, et al. *N Engl J Med*.

This is a randomized, controlled trial comparing nasal high-flow therapy with standard care (no nasal high-flow therapy or supplemental oxygen) in neonates undergoing oral endotracheal intubation at two Australian tertiary neonatal intensive care units. Physiological instability was defined as an absolute decrease in oxygen saturations >20% from pre-intubation baseline, or bradycardia <100 beats/min. Of 251 intubations in 202 infants (median postmenstrual age 27.9 weeks; median weight at intubation 920g), 62/124 (50%; high flow group) and 40/127 (31.5%; standard group) were successful at first attempt (NNT 6 for 1 infant to benefit). The authors concluded that nasal high-flow therapy improved the likelihood of successful intubation on the first attempt without physiological instability.

[Infantile cocktail of erythropoietin and melatonin restores gait in adult rats with preterm brain injury](#)

Lauren Jantzie, Sankar Muthukumar, Yuma Kitase, et al. *Dev Neurosci*.

Given the lack of effective pharmacologic interventions available for the treatment of cerebral palsy (CP), the authors gave infant-toddler rats with prenatal injury resulting in abnormal gait, a combination of erythropoietin (EPO) and melatonin (MLT) on day 15-20 of life. They found EPO+MLT restored compared to vehicle-treated rats at day 30. These results provide evidence that pharmacological interventions may be beneficial to infants and toddlers who are diagnosed with CP.

OTHER NOTEWORTHY PUBLICATIONS – April, 2022

COVID-19

Illness severity indicators in newborns by COVID-19 status in the United States, March–December 2020 (PDF)

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8561086/pdf/41372_2021_Article_1243.pdf

Neonatal cerebral venous thrombosis following maternal SARS-CoV-2 infection in pregnancy (PDF)

<https://www.karger.com/Article/Pdf/520537>

Impact of COVID-19 pandemic on developmental service delivery in children with a history of neonatal seizures

<https://pubmed.ncbi.nlm.nih.gov/35149302/>

Psychological risks to mother–infant bonding during the COVID-19 pandemic

<https://pubmed.ncbi.nlm.nih.gov/34645943/>

Preterm birth after the introduction of COVID-19 mitigation measures in Norway, Sweden, and Denmark: a registry-based difference-in-differences study (PDF)

[https://www.ajog.org/article/S0002-9378\(21\)01231-X/pdf](https://www.ajog.org/article/S0002-9378(21)01231-X/pdf)

Pediatrics

Maternity care practices and breastfeeding intentions at one month among low-income women

<https://pubmed.ncbi.nlm.nih.gov/35253063>

Predictive ability of 10-minute Apgar scores for mortality and neurodevelopmental disability

<https://pubmed.ncbi.nlm.nih.gov/35296895>

Making decisions about Krabbe disease newborn screening

<https://pubmed.ncbi.nlm.nih.gov/35229104>

Hamnet in the NICU

<https://pubmed.ncbi.nlm.nih.gov/35362062>

Tactile stimulation in newborn infants with inadequate respiration at birth: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/35257181>

Glycerin suppositories and enemas in premature infants: a meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/35332357>

Journal of Pediatrics

Neonatal seizure management: what is timely treatment and does it influence neurodevelopment?

<https://pubmed.ncbi.nlm.nih.gov/34896429/>

Gastroschisis: progress and challenges

<https://pubmed.ncbi.nlm.nih.gov/34958830/>

Reduction in mechanical ventilation: necessary but not sufficient to prevent bronchopulmonary dysplasia in infants born extremely preterm?

<https://pubmed.ncbi.nlm.nih.gov/34974061/>

Effects of pharmacologic treatment for neonatal abstinence syndrome on DNA methylation and neurobehavior: a prospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/34971656/>

Randomized trial of perfusion-based circulatory management in infants of very low birth weight

<https://pubmed.ncbi.nlm.nih.gov/34942176/>

Standardizing the clinical definition of opioid withdrawal in the neonate

<https://pubmed.ncbi.nlm.nih.gov/34942181/>

Severity of bronchopulmonary dysplasia and neurodevelopmental outcome at 2 and 5 years corrected age

<https://pubmed.ncbi.nlm.nih.gov/34929243/>

Evaluation of trends in bronchopulmonary dysplasia and respiratory support practice for very low birth weight infants: a population-based cohort study

<https://pubmed.ncbi.nlm.nih.gov/34838581/>

Clinical and genetic etiologies of neonatal unconjugated hyperbilirubinemia in the China neonatal genomes project

<https://pubmed.ncbi.nlm.nih.gov/34953813/>

Neonatal seizure management: is the timing of treatment critical?

<https://pubmed.ncbi.nlm.nih.gov/34626667/>

High healthcare use at age 5 years in a European cohort of children born very preterm

<https://pubmed.ncbi.nlm.nih.gov/34921871/>

Sex differences in the association of pretransfusion hemoglobin levels with brain structure and function in the preterm infant

<https://pubmed.ncbi.nlm.nih.gov/34968498/>

Community, hope, and resilience: parental perspectives on peer support in neonatology

<https://pubmed.ncbi.nlm.nih.gov/34843711/>

Early antibiotic exposure and adverse outcomes in very preterm infants at low risk of early-onset sepsis: the epipage-2 cohort study

<https://pubmed.ncbi.nlm.nih.gov/34942178/>

Evaluating care in safety net hospitals: clinical outcomes and neonatal intensive care unit quality of care in California

<https://pubmed.ncbi.nlm.nih.gov/34890584/>

Lower maternal chronic physiological stress and better child behavior at 18 months: follow-up of a cluster randomized trial of neonatal intensive care unit family integrated care

<https://pubmed.ncbi.nlm.nih.gov/34971651/>

Predicting factors of protracted intestinal failure in children with gastroschisis

<https://pubmed.ncbi.nlm.nih.gov/34748742/>

Development and validation of a prediction model for infant fat mass

<https://pubmed.ncbi.nlm.nih.gov/34971655/>

Laboratory indices in patients with positive and borderline flow cytometry eosin-5-maleimide-screening test results for hereditary spherocytosis

<https://pubmed.ncbi.nlm.nih.gov/35033565/>

Early abnormalities in gas exchange in infants with congenital diaphragmatic hernia

<https://pubmed.ncbi.nlm.nih.gov/34929245/>

Chromosomal microarray reinterpretation: applications to pediatric practice

<https://pubmed.ncbi.nlm.nih.gov/34953820/>

Purulent discharge from stensen duct in neonatal suppurative parotitis

<https://pubmed.ncbi.nlm.nih.gov/34952006/>

Congenital bronchobiliary fistula with bright yellow serous sputum

<https://pubmed.ncbi.nlm.nih.gov/34890585/>

Pediatric Research

Neonatal sepsis: a systematic review of core outcomes from randomised clinical trials (PDF)

<https://www.nature.com/articles/s41390-021-01883-y.pdf>

Early development of sleep and brain functional connectivity in term-born and preterm infants

<https://pubmed.ncbi.nlm.nih.gov/33859364/>

Neuroplacentology in congenital heart disease: placental connections to neurodevelopmental outcomes

<https://pubmed.ncbi.nlm.nih.gov/33864014/>

Respiratory muscle function in the newborn: a narrative review

<https://pubmed.ncbi.nlm.nih.gov/33875805/>

Early diagnosis and targeted approaches to pulmonary vascular disease in bronchopulmonary dysplasia

<https://pubmed.ncbi.nlm.nih.gov/33674739/>

Measuring communication quality in the Neonatal Intensive Care Unit

<https://pubmed.ncbi.nlm.nih.gov/33854213/>

Molecular regulation of lung maturation in near-term fetal sheep by maternal daily vitamin C treatment in late gestation

<https://pubmed.ncbi.nlm.nih.gov/33859366/>

Severity of neonatal opioid withdrawal syndrome with prenatal exposure to serotonin reuptake inhibitors

<https://pubmed.ncbi.nlm.nih.gov/34588611/>

Metabolic control during the neonatal period in phenylketonuria: associations with childhood IQ

<https://pubmed.ncbi.nlm.nih.gov/34497359/>

Validation of published rebound hyperbilirubinemia risk prediction scores during birth hospitalization after initial phototherapy: a retrospective chart review

<https://pubmed.ncbi.nlm.nih.gov/33824457/>

Whole-exome sequencing with targeted analysis and epilepsy after acute symptomatic neonatal seizures

<https://pubmed.ncbi.nlm.nih.gov/33846556/>

Interactions between PDA-associated polymorphisms and genetic ancestry alter ductus arteriosus gene expression

<https://pubmed.ncbi.nlm.nih.gov/33837257/>

Body temperature, heart rate and long-term outcome of cooled infants: an observational study

<https://pubmed.ncbi.nlm.nih.gov/33846554/>

Blood protein profiles related to preterm birth and retinopathy of prematurity (PDF)

<https://www.nature.com/articles/s41390-021-01528-0.pdf>

Sex-specific cytokine responses and neurocognitive outcome after blood transfusions in preterm infants

<https://pubmed.ncbi.nlm.nih.gov/33911194/>

Seizure burden in preterm infants and smaller brain volume at term-equivalent age

<https://pubmed.ncbi.nlm.nih.gov/33903729/>

Human milk cholesterol is associated with lactation stage and maternal plasma cholesterol in Chinese populations

<https://pubmed.ncbi.nlm.nih.gov/33846555/>

Prevalence of acid gastroesophageal reflux disease in infants with esophageal atresia/tracheoesophageal fistula

<https://pubmed.ncbi.nlm.nih.gov/33864015/>

Determinants of neonatal, post-neonatal and child mortality in Afghanistan using frailty models

<https://pubmed.ncbi.nlm.nih.gov/33879851/>

Archives of Disease in Childhood - Fetal & Neonatal Edition

No new content

Journal of Perinatology

Spontaneous intestinal perforation (SIP) will soon become the most common form of surgical bowel disease in the extremely low birth weight (ELBW) infant

<https://www.ncbi.nlm.nih.gov/pubmed/35177793>

Effect of enteral zinc supplementation on growth and neurodevelopment of preterm infants: a systematic review and meta-analysis

<https://www.ncbi.nlm.nih.gov/pubmed/34006967>

Characteristics and outcomes of a multi-institution cohort of infants with necrotizing enterocolitis totalis

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8397862/pdf/41372_2021_Article_1191.pdf

Duration of noninvasive respiratory support and risk for bronchopulmonary dysplasia or death

<https://www.ncbi.nlm.nih.gov/pubmed/35034096>

Association between postmenstrual age and furosemide dosing practices in very preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/35075306>

Poractant alfa versus bovine lipid extract surfactant: prospective comparative effectiveness study

<https://www.ncbi.nlm.nih.gov/pubmed/35177795>

Developing a digitally innovative ethics and professionalism curriculum for neonatal-perinatal medicine fellows: a 3-year multicenter pilot study

<https://www.ncbi.nlm.nih.gov/pubmed/34504300>

Associations between maternal pre-pregnancy body mass index and neonatal neurobehavior in infants born before 30 weeks gestation

<https://www.ncbi.nlm.nih.gov/pubmed/35132152>

Exceeding expectations after perinatal risks for poor development: associations in term- and preterm-born preschoolers

<https://www.ncbi.nlm.nih.gov/pubmed/34711935>

Long-term neurodevelopmental outcomes among preterm infants born to mothers with diabetes mellitus

<https://www.ncbi.nlm.nih.gov/pubmed/34716383>

Making the invisible visible: New perspectives on the intersection of human–environment interactions of clinical teams in intensive care

<https://www.ncbi.nlm.nih.gov/pubmed/34420042>

Upholding the identity of perinatal hospice

<https://www.ncbi.nlm.nih.gov/pubmed/34429507>

Is it time to study routine car seat tolerance screening in a randomized controlled trial? An international survey of current practice and clinician equipoise

<https://www.ncbi.nlm.nih.gov/pubmed/34453111>

Safe sleep and reading guidance during prenatal care? findings from a pilot trial using specially designed children's books

<https://www.ncbi.nlm.nih.gov/pubmed/34671101>

There is a lack of contraindications for live music listening for preterm and term infants in the neonatal intensive care unit

<https://www.ncbi.nlm.nih.gov/pubmed/35169230>

Improving safe sleep practices in an urban inpatient newborn nursery and neonatal intensive care unit

<https://www.ncbi.nlm.nih.gov/pubmed/34987167>

A quality improvement initiative to standardize time to initiation of enteral feeds after non-surgical necrotizing enterocolitis using a consensus-based guideline

<https://www.ncbi.nlm.nih.gov/pubmed/35091710>

Essentials of neonatal-perinatal medicine fellowship: scholarship perspective

<https://www.ncbi.nlm.nih.gov/pubmed/33597741>

Training pathways and careers for neonatologists interested in cardiovascular care

<https://www.ncbi.nlm.nih.gov/pubmed/35181763>

Is aerosolized calfactant effective and safe in the treatment of respiratory distress syndrome?

<https://www.ncbi.nlm.nih.gov/pubmed/35177794>

Linear growth is associated with successful respiratory support weaning in infants with bronchopulmonary dysplasia

<https://www.ncbi.nlm.nih.gov/pubmed/35094020>

National professional society augments career development and leadership amongst neonatal fellows and early career neonatologists

<https://www.ncbi.nlm.nih.gov/pubmed/34294879>

Correction: Duration of noninvasive respiratory support and risk for bronchopulmonary dysplasia or death

<https://www.ncbi.nlm.nih.gov/pubmed/35314760>

Neonatology

Analgesation before less-invasive surfactant administration: a systematic review (PDF)

<https://www.karger.com/Article/Pdf/521553>

Demographic risk factors of retinopathy of prematurity: a systematic review of population-based studies (PDF)

<https://www.karger.com/Article/Pdf/519635>

Zinc supplementation and the prevention and treatment of sepsis in young infants: a systematic review and meta-analysis (PDF)

<https://www.karger.com/Article/Pdf/521275>

Retinopathy of prematurity requiring treatment is closely related to head growth during neonatal intensive care unit hospitalization in very low birth weight infants (PDF)

<https://www.karger.com/Article/Pdf/519714>

Neonatal resuscitation practices in Europe: a survey of the Union of European neonatal and perinatal societies

<https://www.ncbi.nlm.nih.gov/pubmed/35051924>

Urine proteomics for noninvasive monitoring of biomarkers in bronchopulmonary dysplasia (PDF)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8940649/pdf/nihms-1765922.pdf>

MicroRNA expression profiles as diagnostic and prognostic biomarkers of perinatal asphyxia and hypoxic-ischaemic encephalopathy

<https://www.ncbi.nlm.nih.gov/pubmed/35073542>

Consent for delivery room studies: what can be learned from perceptions of parents (PDF)

<https://www.karger.com/Article/Pdf/521587>

Early mental trajectories predict different cognitive levels at school age in very preterm children

<https://www.ncbi.nlm.nih.gov/pubmed/35124677>

Accuracy of a novel transcutaneous PCO₂ and PO₂ sensor with optical PO₂ measurement in neonatal intensive care: a single-centre prospective clinical trial (PDF)

<https://www.karger.com/Article/Pdf/521809>

Gastric transposition for repair of long-gap esophageal atresia: indications, complications, and outcome of minimally invasive and open surgery

<https://www.ncbi.nlm.nih.gov/pubmed/35235935>

Body composition of preterm infants following rapid transition to enteral feeding

<https://www.ncbi.nlm.nih.gov/pubmed/35038714>

Nucleated red blood cell counts of neonates born emergently 1–4 h after a maternal cardiac arrest

<https://www.ncbi.nlm.nih.gov/pubmed/35045419>

Efficiency of continuous subcutaneous insulin infusion for premature neonate: a case report

<https://www.ncbi.nlm.nih.gov/pubmed/35130548>

Feasibility of a novel ECG electrode placement method in newborn infants (PDF)

<https://www.karger.com/Article/Pdf/521530>

American Journal of Perinatology

No new content

Journal of Neonatal-Perinatal Medicine

No new content

Maternal Health, Neonatology and Perinatology

Prematurity and low birth weight: geospatial analysis and recent trends (PDF)

<https://mhnpjournal.biomedcentral.com/track/pdf/10.1186/s40748-022-00137-x.pdf>

Neoreviews

Research in the delivery room: can you tell me it's evolution?

<https://pubmed.ncbi.nlm.nih.gov/35362035>

Updates for the Neonatal Resuscitation Program and resuscitation guidelines

<https://pubmed.ncbi.nlm.nih.gov/35362042>

Appropriate management of the nonvigorous meconium-stained newborn

<https://pubmed.ncbi.nlm.nih.gov/35362037>

Term male infant with abdominal mass

<https://pubmed.ncbi.nlm.nih.gov/35362038>

An uncommon cause for respiratory failure in a preterm neonate

<https://pubmed.ncbi.nlm.nih.gov/35362034>

Preterm infant with respiratory distress, hypotonia, and hypoglycemia

<https://pubmed.ncbi.nlm.nih.gov/35362036>

A case of dropped beats: Management of a common fetal arrhythmia

<https://pubmed.ncbi.nlm.nih.gov/35362039>

Newborn with microcephaly

<https://pubmed.ncbi.nlm.nih.gov/35362040>

A nonimmune hydrops case

<https://pubmed.ncbi.nlm.nih.gov/35362041>

JAMA Pediatrics

Modeling genomic screening in newborns

<https://pubmed.ncbi.nlm.nih.gov/35072705/>

BMC Pediatrics

Advances in our understanding of the molecular pathogenesis of necrotizing enterocolitis (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-022-03277-3.pdf>

Association of MTHFR and MS/MTR gene polymorphisms with congenital heart defects in North Indian population (Jammu and Kashmir): a case–control study encompassing meta-analysis and trial sequential analysis (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-022-03227-z.pdf>

Breastfed and mixed fed infants who do not consume infant cereal are at risk for inadequate iron intake: data from the feeding infants and toddlers study 2016, a cross-sectional survey (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-022-03104-9.pdf>

Evaluation of community health worker's performance at home-based newborn assessment supported by mHealth in rural Bangladesh (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-022-03282-6.pdf>

Red blood cell transfusions post diagnosis of necrotizing enterocolitis and the deterioration of necrotizing enterocolitis in full-term and near-term infants: a propensity score adjustment retrospective cohort study

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-022-03276-4.pdf>

The quality of service provision to newborns in the primary healthcare, West Gojjam zone, North-West of Ethiopia: a cross-sectional survey (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-022-03272-8.pdf>

Risk factors that affect the degree of bronchopulmonary dysplasia in very preterm infants: a 5-year retrospective study (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-022-03273-7.pdf>

Suspected clinical chorioamnionitis with peak intrapartum temperature <38°C: the prevalence of confirmed chorioamnionitis and short term neonatal outcome (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-022-03239-9.pdf>

Increased expression of OLFM4 and lysozyme during necrotizing enterocolitis in neonates: an observational research study (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-022-03260-y.pdf>

Pediatric Critical Care Medicine

Associations with extubation failure and predictive value of risk analytics algorithms with extubation readiness tests following congenital cardiac surgery

<https://pubmed.ncbi.nlm.nih.gov/35184097/>

New England Journal of Medicine

Nasal high-flow therapy during neonatal endotracheal intubation.

<https://pubmed.ncbi.nlm.nih.gov/35476651/>

Lancet

No relevant articles

JAMA

Risk of adverse pregnancy outcomes among pregnant individuals with gestational diabetes by race and ethnicity in the United States, 2014-2020

<https://pubmed.ncbi.nlm.nih.gov/35412565/>

BMJ

No relevant articles

Pediatric Infectious Disease Journal

Severe congenital syphilis in the neonatal intensive care unit: a retrospective case series

<https://pubmed.ncbi.nlm.nih.gov/34620796/>

Intraventricular vancomycin treatment for shunt-related ventriculitis caused by methicillin-resistant staphylococcus aureus in a preterm infant: a case report

<https://pubmed.ncbi.nlm.nih.gov/34845150/>

Postnatal Cytomegalovirus infection of preterm and very-low-birth-weight infants through maternal breast milk: does it matter?

<https://pubmed.ncbi.nlm.nih.gov/34840311/>

Molds and more: rare fungal infections in preterm infants <24 weeks of gestation

<https://pubmed.ncbi.nlm.nih.gov/34817413/>

A novel algorithm with paired predictive indexes to stratify the risk levels of neonates with invasive bacterial infections: a multicenter cohort study

<https://pubmed.ncbi.nlm.nih.gov/34955526/>

Campylobacter jejuni bacteremia in the term infant a rare cause of neonatal hematochezia

<https://pubmed.ncbi.nlm.nih.gov/35027512/>

Pediatric Cardiology

Stepwise treatment for heterotaxy syndrome and functional single ventricle complicated by infracardiac total anomalous pulmonary venous connection with ductus venosus stent placement and subsequent occlusion

<https://pubmed.ncbi.nlm.nih.gov/35013751/>

Fetal tricuspid valve agenesis/atresia: testing predictions of the embryonic etiology

<https://pubmed.ncbi.nlm.nih.gov/34988599/>

A survey of pediatric cardiologists regarding non-emergent echocardiographic findings in asymptomatic newborns

<https://pubmed.ncbi.nlm.nih.gov/34999921/>

The effect of size and asymmetry at birth on brain injury and neurodevelopmental outcomes in congenital heart disease

<https://pubmed.ncbi.nlm.nih.gov/34853878/>

Echocardiographic predictors of ductal tissue-related branch pulmonary artery stenosis in pulmonary atresia

<https://pubmed.ncbi.nlm.nih.gov/35022807/>

Arrhythmias requiring ECMO in infants without structural congenital heart disease

<https://pubmed.ncbi.nlm.nih.gov/35037091/>

Management of hypertrophic cardiomyopathy in a newborn with dextro-transposition of the great arteries

<https://pubmed.ncbi.nlm.nih.gov/35307751/>

Pediatric Neurology

Topiramate is safe for refractory neonatal seizures: a multicenter retrospective cohort study of necrotizing enterocolitis risk

<https://pubmed.ncbi.nlm.nih.gov/35131568/>

Early spontaneous movements and postural patterns in infants with extremely low birth weight

<https://pubmed.ncbi.nlm.nih.gov/35240363/>

Acoustic cry characteristics of infants as a marker of neurological dysfunction: a systematic review and meta-analysis

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