

Publications Working Group

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Section on Neonatal-Perinatal Medicine

ARTICLES OF INTEREST – July 2021

[End-organ saturations correlate with aortic blood flow estimates by echocardiography in the extremely premature newborn – an observational cohort study](#)

Gabriel Altit, Shazia Bhombal, Valerie Y Chock, et al. BMC Pediatr.

This is a single center study comparing echocardiography derived markers of ascending aorta (AscAo) and descending aorta (DesAo) blood flow with Near-infrared spectroscopy (NIRS) measures of cerebral saturation (Csat) and renal saturation (Rsat) obtained during the echo in extreme preterm infants <29 weeks gestation. The study included 49 neonates with 75 Csat-ECHO and 62 Rsat-ECHO observations (Mean PMA at echo 28.3 ± 3.8 weeks). Renal and cerebral fractional tissue oxygen extraction (rFTOE and cFTOE, respectively) were calculated. Preductal measures (AscAo velocity time integral (VTI) and AscAo output) correlated with Csat or cFTOE, while postductal measures (DesAo VTI, DesAo peak systolic velocity, and estimated DesAo output) more closely correlated with Rsat or rFTOE. The authors concluded that NIRS measures correlated with echocardiographic aortic blood flow measurements.

[Methadone effectively attenuates acute and long-term consequences of neonatal repetitive procedural pain in a rat model](#)

Nynke J van den Hoogen, Thomas J de Geus, Jacob Patijn, et al. Pediatr Res.

This study used methadone analgesia to prevent acute and long-term hypersensitivity associated with neonatal procedural pain in rat pups. Rat pups received either methadone (1 mg/kg) or saline prior to repetitive needle pricks into the left hind paw from postnatal day P0 to P7, while control littermates received a tactile stimulus. Mechanical sensitivity to Von Frey filaments was assessed during the neonatal period (P0-P7), from weaning to adulthood (3-7 weeks) and following surgical re-injury of the same dermatome in adulthood. The results showed that Methadone completely reversed acute hypersensitivity from P0 to P7. Long-term hypersensitivity was also prevented after re-injury in adulthood, without affecting sensitivity from weaning to adulthood.

[Assessment of 2-year neurodevelopmental outcomes in extremely preterm infants receiving opioids and benzodiazepines](#)

Mihai Puia-Dumitrescu, Bryan A Comstock, Sijia Li, et al. JAMA Netw Open.

Secondary analysis of the PENUT Trial sought to describe the association between opioid/benzodiazepine exposure and 2-year neurodevelopmental outcomes among infants born from 24 to 27 weeks at 19 US NICUs. Infants exposed to both opioids and benzodiazepines had adjusted OR of 9.7 for NEC and 1.7 for sBPD. They had a mean of 34 days longer hospital stay and had lower Bayley scores at 2 years of age. Prolonged exposure of any opioid or benzodiazepine (>7 days) was associated

with lower Bayley scores compared to non-exposed infants while short exposure (≤ 7 days) was not different. This study highlights variability in practice regarding the use of opioids and benzodiazepines in this population and questions the benefit of using these medications.

[Hypotension in Preterm Infants \(HIP\) randomised trial](#)

Eugene M Dempsey, Keith J Barrington, Neil Marlow, et al. Arch Dis Child Fetal Neonatal Ed.

10 NICUs across Europe and Canada participated in this RCT to study the early use of inotropes in hypotensive infants born < 28 weeks. Patients with hypotension were treated with a 10mL/kg saline bolus followed by dopamine infusion or placebo; starting dose was 5mcg/kg/min and titration was allowed up to 20mcg/kg/min over 2 hours. Hypotension was defined as mean BP $<$ gestational age for at least 15 minutes in the first 72 hours after birth. The primary outcome was survival to 36 weeks without ultrasound findings of severe brain injury. 58 patients were randomized with a mean gestational age of 25 weeks and mean birthweight ~ 700 g. The dopamine group had fewer patients who required a second inotrope, but there were no differences in primary or secondary outcomes. The study was stopped early due to poor recruitment, and the authors conclude they did not detect any differences between the standard or restrictive approach to hypotension.

[Safety and immunogenicity of a prototype recombinant alpha-like protein subunit vaccine \(GBS-NN\) against Group B Streptococcus in a randomised placebo-controlled double-blind phase 1 trial in healthy adult women](#)

Per Fischer, Andrzej Pawlowski, Duoqia Cao, et al. Vaccine.

Given that GBS is the leading cause of life-threatening infections in newborns, the authors sought to evaluate the safety and immunogenicity of a prototype vaccine consisting of the fused N-terminal domains of the AlphaC and Rib surface proteins of (GBS-NN). GBS-NN was well-tolerated and significantly increased antibody concentrations in healthy, non-pregnant women after two doses. The authors conclude that further testing and development of the vaccine are warranted.

[Nasal high-frequency jet ventilation \(NHFJV\) as a novel means of respiratory support in extremely low birth weight infants](#)

Jessica Keel, Theodore De Beritto, Rangasamy Ramanathan, et al. J Perinatol.

This retrospective study included 16 infants with BW < 1000 g who received Nasal High Frequency Jet Ventilation (NHFJV). Successful use was defined as avoiding intubation for at least 72 hrs after being placed on NHFJV. Median gestational age was 24.5 weeks (IQR 24, 25) and weight at the start of NHFJV was 1090g (IQR 905, 1250). NHFJV was used successfully in 13/16 (81%) infants with a mean duration of 7 days (IQR 3, 12).

[Delivery room care and neonatal resuscitation while on intact placental circulation: an open-label, single-arm study](#)

R UshaDevi, S Mangalabharathi, V Prakash, et al. J Perinatol.

This feasibility study evaluated 376 infants who received delivery room resuscitation with intact placental circulation (via trolley) at mother's bedside until 3 minutes after birth. Median gestational age was 38 (37-39) weeks and median birth weight was 2740 (2330-3120) grams. Of the 376 infants, 92 required resuscitation: 90 (97.8%) received PPV, 49 (53.2%) were intubated, and 13 (14.1%) received chest compressions.

[Multisystem inflammatory syndrome in infants \$< 12\$ months of age, United States, May 2020–January 2021](#)

Shana Godfred-Cato, Clarisse A Tsang, Jennifer Giovanni, et al. Pediatr Infect Dis J.

The authors sought to describe the clinical course, laboratory findings, therapeutics and outcomes among infants diagnosed with multisystem inflammatory syndrome in children (MIS-C). Infants of age <12 months with MIS-C were identified by reports to the CDC's MIS-C national surveillance system. Eighty-five infants with MIS-C were identified and 83 (97.6%) tested positive for SARS-CoV-2 infection with a median age of 7.7 months. Rash, diarrhea, and vomiting were the most common signs and symptoms reported. Laboratory abnormalities included elevated C-reactive protein, ferritin, d-dimer, and fibrinogen. Infants appear to have a milder course of MIS-C than older children with resolution of their illness after hospital discharge. The full clinical picture of MIS-C across the pediatric age spectrum is evolving.

[Association of preterm birth with long-term risk of heart failure into adulthood](#)

Casey Crump, Alan Groves, Jan Sundquist, et al. JAMA Pediatr.

In this national cohort study conducted in Sweden including all singleton births during 1973-2014, the authors' objective was to determine whether preterm birth is associated with increased risk of heart failure (HF) from childhood into mid-adulthood. Out of 4 193 069 individuals included, 4158 persons (0.1%) were identified as having HF. Preterm birth (gestational age <37 weeks) was associated with increased risk of HF at ages < 1 year, 1-17 years, and 18-43 years compared with full-term birth (gestational age, 39-41 weeks). Between 18-43 years, HF incidence rates (per 100 000 person-years) were 31.7 for extremely preterm births (22-27 weeks), 13.8 for moderately preterm births (28-33 weeks), 8.7 for late preterm births (34-36 weeks), and 7.3 for early term births (37-38 weeks) compared with 6.6 for full-term births. The authors concluded that in this large national cohort, preterm birth was associated with increased risk of new-onset HF into adulthood and highlighted the need for long-term clinical follow-up into adulthood for risk reduction and monitoring for HF for survivors of preterm birth.

[Outcomes of a uniformly active approach to infants born at 22–24 weeks of gestation](#)

Fanny Söderström, Erik Normann, Maria Jonsson, et al. Arch Dis Child Fetal Neonatal Ed.

This was a single center retrospective cohort study to determine survival and outcomes in infants born at 22-24 weeks of gestation in a center with a uniformly active approach to management of extremely preterm infants born between 2006 and 2015. Short-term morbidities (such as retinopathy of prematurity, necrotizing enterocolitis, patent ductus arteriosus, intraventricular hemorrhage, periventricular leukomalacia and bronchopulmonary dysplasia) and Neurodevelopmental outcomes (including incidence of cerebral palsy, visual impairment, hearing impairment and developmental delay) were assessed. Total survival was 64% (143/222), ranging from 52% at 22 weeks to 70% at 24 weeks. Of 133 (93%) children available for follow-up at 2.5 years corrected age, 34% had neurodevelopmental impairment with 11% classified as moderately to severely impaired. The authors conclude that a uniformly active approach to all extremely preterm infants results in more than 50% survival even in infants at 22 weeks with a majority being unimpaired at 2.5 years.

OTHER NOTEWORTHY PUBLICATIONS

COVID – 19

Multisystem inflammatory syndrome in infants <12 months of age, United States, May 2020–January 2021

<https://www.ncbi.nlm.nih.gov/pubmed/33872279>

Neonatal brain injury from SARS-COV-2: fact or fiction?

<https://www.ncbi.nlm.nih.gov/pubmed/34016835>

Covid-19-associated cerebral white matter injury in a newborn infant with afebrile seizure

<https://www.ncbi.nlm.nih.gov/pubmed/33902081>

Covid-19 as a cause of acute neonatal encephalitis and cerebral cytotoxic edema

<https://www.ncbi.nlm.nih.gov/pubmed/33902082>

Correspondence: Vertical transmission of SARS-CoV-2 from infected pregnant mother to the neonate detected by cord blood real-time polymerase chain reaction (RT-PCR)

<https://pubmed.ncbi.nlm.nih.gov/33106558/>

Comment: Clinical experience on video consultation in preterm follow-up care in times of the COVID-19 pandemic

<https://pubmed.ncbi.nlm.nih.gov/32961545/>

Severe acute respiratory syndrome coronavirus 2 serology levels in pregnant women and their neonates (PDF)

[https://www.ajog.org/article/S0002-9378\(21\)00053-3/pdf](https://www.ajog.org/article/S0002-9378(21)00053-3/pdf)

Anti-severe acute respiratory syndrome coronavirus 2 antibodies induced in breast milk after Pfizer-BioNTech/BNT162b2 vaccination (PDF)

[https://www.ajog.org/article/S0002-9378\(21\)00211-8/pdf](https://www.ajog.org/article/S0002-9378(21)00211-8/pdf)

Probable case of vertical transmission of SARS-CoV-2 in a newborn in Mexico

<https://pubmed.ncbi.nlm.nih.gov/33957638>

Pediatrics

Home visiting for NICU graduates: impacts of following baby back home

<https://pubmed.ncbi.nlm.nih.gov/34083358/>

Severity of bronchopulmonary dysplasia among very preterm infants in the United States

<https://pubmed.ncbi.nlm.nih.gov/34078747/>

Neonatal mastitis and concurrent serious bacterial infection

<https://pubmed.ncbi.nlm.nih.gov/34187909/>

An infant carrier intervention and breastfeeding duration: a randomized controlled trial

<https://pubmed.ncbi.nlm.nih.gov/34193622/>

Intubation competence during neonatal fellowship training

<https://pubmed.ncbi.nlm.nih.gov/34172556/>

Improving the life chances of NICU graduates

<https://pubmed.ncbi.nlm.nih.gov/34083359/>

Assessing intubation competence during neonatal fellowship training

<https://pubmed.ncbi.nlm.nih.gov/34172557/>

Transition to a safe home sleep environment for the NICU patient

<https://pubmed.ncbi.nlm.nih.gov/34155134/>

Transition to a safe home sleep environment for the NICU patient

<https://pubmed.ncbi.nlm.nih.gov/34155135/>

Changing systems that influence birth outcomes in marginalized zip codes

<https://pubmed.ncbi.nlm.nih.gov/34078748/>

Out-of-pocket spending for deliveries and newborn hospitalizations among the privately insured

<https://pubmed.ncbi.nlm.nih.gov/34140392/>

Devices for administering ventilation at birth: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/34135096/>

An initiative to decrease laboratory testing in a NICU

<https://pubmed.ncbi.nlm.nih.gov/34088759/>

Use of propranolol in the treatment of chylous effusions in infants

<https://pubmed.ncbi.nlm.nih.gov/34187907/>

Uncertain, not unimportant: callosal dysgenesis and variants of uncertain significance in robo1

<https://pubmed.ncbi.nlm.nih.gov/34193621/>

Complete absence of the extrahepatic biliary tree in a newborn with pigmented stools

<https://pediatrics.aappublications.org/content/148/1/e2020038596>

Journal of Pediatrics

Early-onset neonatal sepsis: Finding a needle in a haystack (Perspectives)

<https://www.jpeds.com/action/showPdf?pii=S0022-3476%2821%2900454-6>

Performance of the early-onset-sepsis calculator in Israeli newborns (Perspectives) (PDF)

[https://www.jpeds.com/article/S0022-3476\(21\)00455-8/pdf](https://www.jpeds.com/article/S0022-3476(21)00455-8/pdf)

Early systemic steroids in preventing bronchopulmonary dysplasia: are we moving closer to a benefit–risk-adapted treatment strategy? (PDF)

[https://www.jpeds.com/article/S0022-3476\(21\)00137-2/pdf](https://www.jpeds.com/article/S0022-3476(21)00137-2/pdf)

Timing of intervention for posthemorrhagic ventricular dilatation: an ongoing debate (PDF)

[https://www.jpeds.com/article/S0022-3476\(21\)00135-9/pdf](https://www.jpeds.com/article/S0022-3476(21)00135-9/pdf)

Effect of a novel oxygen saturation targeting strategy on mortality, retinopathy of prematurity, and bronchopulmonary dysplasia in neonates born extremely preterm

<https://pubmed.ncbi.nlm.nih.gov/33737029/>

Actual and potential impact of a home nasogastric tube feeding program for infants whose neonatal intensive care unit discharge is affected by delayed oral feedings (PDF)

[https://www.jpeds.com/article/S0022-3476\(21\)00290-0/pdf](https://www.jpeds.com/article/S0022-3476(21)00290-0/pdf)

Associations between neonatal magnetic resonance imaging and short- and long-term neurodevelopmental outcomes in a longitudinal cohort of very preterm children (PDF)

[https://www.jpeds.com/article/S0022-3476\(21\)00114-1/pdf](https://www.jpeds.com/article/S0022-3476(21)00114-1/pdf)

Timing of temporizing neurosurgical treatment in relation to shunting and neurodevelopmental outcomes in post-hemorrhagic ventricular dilatation of prematurity: a meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/33484696/>

Association between baseline cortisol serum concentrations and the effect of prophylactic hydrocortisone in extremely preterm infants (PDF)

[https://www.jpeds.com/article/S0022-3476\(20\)31567-5/pdf](https://www.jpeds.com/article/S0022-3476(20)31567-5/pdf)

Evaluation of implementation of early-onset sepsis calculator in newborns in Israel

<https://pubmed.ncbi.nlm.nih.gov/33857468/>

Stratification of culture-proven early-onset sepsis cases by the neonatal early-onset sepsis calculator: an individual patient data meta-analysis (PDF)

[https://www.jpeds.com/article/S0022-3476\(21\)00099-8/pdf](https://www.jpeds.com/article/S0022-3476(21)00099-8/pdf)

Risk factors of early mortality and morbidity in esophageal atresia with distal tracheoesophageal fistula: a population-based cohort study

<https://pubmed.ncbi.nlm.nih.gov/33667507/>

An all-inclusive perspective on bronchopulmonary dysplasia

<https://pubmed.ncbi.nlm.nih.gov/33811871/>

Novel method of calculating pulse pressure variation to predict fluid responsiveness to transfusion in very low birth weight infants

<https://pubmed.ncbi.nlm.nih.gov/33865859/>

Pediatric Research

Comment: Fronto-temporal horn ratio: yet another marker of ventriculomegaly?

<https://pubmed.ncbi.nlm.nih.gov/33531678/>

Comment: Is it time to replace morphine with methadone for the treatment of pain in the neonatal intensive care unit? (PDF)

<https://www.nature.com/articles/s41390-021-01472-z.pdf>

Review: Analgesia for fetal pain during prenatal surgery: 10 years of progress

<https://pubmed.ncbi.nlm.nih.gov/32971529/>

Review: The role of integrins in inflammation and angiogenesis (PDF)

<https://www.nature.com/articles/s41390-020-01177-9.pdf>

Review: Role of zinc in neonatal growth and brain growth: review and scoping review

<https://pubmed.ncbi.nlm.nih.gov/33010794/>

Review: Emerging antenatal therapies for congenital diaphragmatic hernia-induced pulmonary hypertension in preclinical models

<https://pubmed.ncbi.nlm.nih.gov/33038872/>

Sexual dimorphisms in brain gene expression in the growth-restricted guinea pig can be modulated with intra-placental therapy

<https://pubmed.ncbi.nlm.nih.gov/33531677/>

Methadone effectively attenuates acute and long-term consequences of neonatal repetitive procedural pain in a rat model

<https://pubmed.ncbi.nlm.nih.gov/33504957/>

Intrauterine inflammation induced white matter injury protection by fibrinogen-like protein 2 deficiency in perinatal mice

<https://pubmed.ncbi.nlm.nih.gov/33075801/>

The utility of the fronto-temporal horn ratio on cranial ultrasound in premature newborns: a ventriculomegaly marker

<https://pubmed.ncbi.nlm.nih.gov/33504959/>

Assessment of four pain scales for evaluating procedural pain in premature infants undergoing heel blood collection

<https://pubmed.ncbi.nlm.nih.gov/32599608/>

Association of high maternal blood alpha-fetoprotein level with risk of delivering small for gestational age: a meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/32919396/>

Reliability of routine anthropometric measurements to estimate body composition in term infants

<https://pubmed.ncbi.nlm.nih.gov/32919389/>

Infant body composition relationship to maternal adipokines and fat mass: the PONCH study

<https://pubmed.ncbi.nlm.nih.gov/32927470/>

Sex-typical behavior in children born preterm at very low birth weight

<https://pubmed.ncbi.nlm.nih.gov/32927469/>

Duration of breastmilk feeding of NICU graduates who live with individuals who smoke

<https://pubmed.ncbi.nlm.nih.gov/32937651/>

Postnatal growth of preterm infants 24 to 26 weeks of gestation and cognitive outcomes at 2 years of age

<https://pubmed.ncbi.nlm.nih.gov/32942289/>

Diaphragmatic activity and neural breathing variability during a 5-min endotracheal continuous positive airway pressure trial in extremely preterm infants

<https://pubmed.ncbi.nlm.nih.gov/32942291/>

Bifidobacterium breve BBG-001 and intestinal barrier function in preterm babies: Exploratory Studies from the PiPS Trial

<https://pubmed.ncbi.nlm.nih.gov/32947603/>

Autism spectrum disorders in extremely preterm infants and placental pathology findings: a matched case-control study

<https://pubmed.ncbi.nlm.nih.gov/32950030/>

The newborn infant parasympathetic evaluation index for acute procedural pain assessment in preterm infants

<https://pubmed.ncbi.nlm.nih.gov/32961546/>

Epigenome-wide analysis identifies genes and pathways linked to acoustic cry variation in preterm infants

<https://pubmed.ncbi.nlm.nih.gov/32967004/>

Archives of Disease in Childhood - Fetal & Neonatal Edition

Reviewing recordings of neonatal resuscitation with parents

<https://pubmed.ncbi.nlm.nih.gov/33514631/>

Cardiorespiratory monitoring in the delivery room using transcutaneous electromyography

<https://pubmed.ncbi.nlm.nih.gov/33214154/>

Disorders of vision in neonatal hypoxic-ischaemic encephalopathy: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/33246969/>

Retrospective analysis of neonatal deaths secondary to infections in England and Wales, 2013–2015

<https://pubmed.ncbi.nlm.nih.gov/33239280/>

Regional ventilation characteristics during non-invasive respiratory support in preterm infants

<https://pubmed.ncbi.nlm.nih.gov/33246967>

Documentation during neonatal resuscitation: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/33243927>

Physiological responses to facemask application in newborns immediately after birth

<https://pubmed.ncbi.nlm.nih.gov/33298407>

Bronchopulmonary dysplasia and postnatal growth following extremely preterm birth

<https://pubmed.ncbi.nlm.nih.gov/33334820>

Associations between family presence and neonatal intubation outcomes: a report from the National Emergency Airway Registry for Neonates: NEAR4NEOS

<https://pubmed.ncbi.nlm.nih.gov/33478956>

Hypotension in Preterm Infants (HIP) randomised trial

<https://pubmed.ncbi.nlm.nih.gov/33627329>

Comparison of inspiratory effort with three variable-flow nasal continuous positive airway pressure devices in preterm infants: a cross-over study

<https://pubmed.ncbi.nlm.nih.gov/33452219>

Absence of relationship between serum cortisol and critical illness in premature infants

<https://pubmed.ncbi.nlm.nih.gov/33541918>

Outcomes of a uniformly active approach to infants born at 22–24 weeks of gestation

<https://pubmed.ncbi.nlm.nih.gov/33452221>

No change in neurodevelopment at 11 years after extremely preterm birth

<https://pubmed.ncbi.nlm.nih.gov/33504573>

Changes over time in quality of life of school-aged children born extremely preterm: 1991-2005

<https://pubmed.ncbi.nlm.nih.gov/33597226>

Short report: Feasibility of non-invasive cardiac output monitoring at birth using electrical bioimpedance in term infants

<https://pubmed.ncbi.nlm.nih.gov/33272934>

Short report: Bench-top comparison of thermometers used in newborn infants

<https://pubmed.ncbi.nlm.nih.gov/33372006>

Short report: Randomised study of heart rate measurement in preterm newborns with ECG plus pulse oximetry versus oximetry alone

<https://pubmed.ncbi.nlm.nih.gov/33452217>

Review: Discharge planning considerations for the neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/33046524>

Review: Management of systemic hypotension in term infants with persistent pulmonary hypertension of the newborn: an illustrated review

<https://pubmed.ncbi.nlm.nih.gov/33478959>

Images in Neonatal Medicine: Unintentional longline insertion into the descending aorta in a neonate with left congenital diaphragmatic hernia

<https://pubmed.ncbi.nlm.nih.gov/32669359>

Images in Neonatal Medicine: Whirlpool sign on ultrasound imaging in a preterm infant with suspected malrotation volvulus

<https://pubmed.ncbi.nlm.nih.gov/33293277>

Journal of Perinatology

Review: Primary pulmonary vein stenosis during infancy: state of the art review

<https://pubmed.ncbi.nlm.nih.gov/33674714>

Review: A review of different resuscitation platforms during delayed cord clamping

<https://pubmed.ncbi.nlm.nih.gov/33850283>

Umbilical cord milking versus delayed cord clamping in term infants: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/32973280>

Delivery room care and neonatal resuscitation while on intact placental circulation: an open-label, single-arm study

<https://pubmed.ncbi.nlm.nih.gov/33510419>

Endotracheal tube manipulation during cardiopulmonary resuscitation in the neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/33594228>

Effect of two different chest compression techniques on ventilation during neonatal resuscitation

<https://pubmed.ncbi.nlm.nih.gov/33850287>

What happens to 35 week infants that receive delivery room continuous positive airway pressure?

<https://pubmed.ncbi.nlm.nih.gov/33293668>

Self-directed video versus instructor-based neonatal resuscitation training: a randomized controlled blinded non-inferiority multicenter international study

<https://pubmed.ncbi.nlm.nih.gov/33589725>

Brachial plexus birth palsy: incidence, natural-course, and prognostic factors during the first year of life

<https://pubmed.ncbi.nlm.nih.gov/33790402>

Early antenatal counseling in the outpatient setting for high-risk pregnancies: a randomized control trial

<https://pubmed.ncbi.nlm.nih.gov/33510421>

Postpartum depression in mothers with pregnancies complicated by fetal cardiac anomaly

<https://pubmed.ncbi.nlm.nih.gov/33712713>

Inadequacies of hospital-level critical congenital heart disease screening data reports: implications for research and quality efforts

<https://pubmed.ncbi.nlm.nih.gov/32792631>

Primary pulmonary vein stenosis among premature infants with single-vessel disease

<https://pubmed.ncbi.nlm.nih.gov/32989220>

Fingertip ultrasound evaluation of umbilical catheter position in the neonatal intensive care unit compared to conventional ultrasound radiography: a preliminary investigation

<https://pubmed.ncbi.nlm.nih.gov/33009492>

A novel and accurate method for estimating umbilical arterial and venous catheter insertion length

<https://pubmed.ncbi.nlm.nih.gov/34103672>

Agitated saline contrast to delineate central venous catheter position in neonates

<https://pubmed.ncbi.nlm.nih.gov/32728038>

Point-of-care ultrasound for the evaluation of venous cannula position in neonatal extracorporeal membrane oxygenation

<https://pubmed.ncbi.nlm.nih.gov/33795791>

Fetal cardiac dimensions in congenital diaphragmatic hernia: relationship with gestational age and postnatal outcomes

<https://pubmed.ncbi.nlm.nih.gov/33649439>

Association of antenatal steroids with neonatal mortality and morbidity in preterm infants born to mothers with diabetes mellitus and hypertension

<https://pubmed.ncbi.nlm.nih.gov/34035455>

Lung ultrasound (LUS) and surfactant treatment: looking for the best predictive moment

<https://pubmed.ncbi.nlm.nih.gov/33758395>

Effect of continuous positive airway pressure versus nasal cannula on late preterm and term infants with transient tachypnea of the newborn

<https://pubmed.ncbi.nlm.nih.gov/33986469>

Budesonide mixed with surfactant did not affect neurodevelopmental outcomes at 6 or 18 months corrected age in observational cohorts

<https://pubmed.ncbi.nlm.nih.gov/33986470>

High CPAP vs. NIPPV in preterm neonates — A physiological cross-over study

<https://pubmed.ncbi.nlm.nih.gov/34091605>

Nasal high-frequency jet ventilation (NHJV) as a novel means of respiratory support in extremely low birth weight infants

<https://pubmed.ncbi.nlm.nih.gov/34127792>

Response to first dose of inhaled albuterol in mechanically ventilated preterm infants

<https://pubmed.ncbi.nlm.nih.gov/34035457>

Adjustment of high flow nasal cannula rates using real-time work of breathing indices in premature infants with respiratory insufficiency

<https://pubmed.ncbi.nlm.nih.gov/33664469>

End-tidal capnography monitoring in infants ventilated on the neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/33649438>

Infant heart-rate measurement and oxygen desaturation detection with a digital video camera using imaging photoplethysmography

<https://pubmed.ncbi.nlm.nih.gov/33649437>

Medication utilization in children born preterm in the first two years of life

<https://pubmed.ncbi.nlm.nih.gov/33547407>

Association between neonatal intensive care unit medication safety practices, adverse events, and death

<https://pubmed.ncbi.nlm.nih.gov/33033390>

Medical and surgical interventions and outcomes for infants with trisomy 18 (T18) or trisomy 13 (T13) at children's hospitals neonatal intensive care units (NICUs)

<https://pubmed.ncbi.nlm.nih.gov/34112961>

Outcomes in gastroschisis: expectations in the postnatal period for simple vs complex gastroschisis

<https://pubmed.ncbi.nlm.nih.gov/34035447>

A quality improvement initiative to reduce hypothermia in a Baby-Friendly nursery – our story of algorithms, K-cards, and Key cards

<https://pubmed.ncbi.nlm.nih.gov/33986475>

What is the optimal initial dose of epinephrine during neonatal resuscitation in the delivery room?

<https://pubmed.ncbi.nlm.nih.gov/33712718>

Neonatology

Use of composite outcomes in neonatal trials: An analysis of the Cochrane Reviews

<https://pubmed.ncbi.nlm.nih.gov/33780936>

Bi-level noninvasive ventilation in neonatal respiratory distress syndrome: A systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/33756488>

Early PARacetamol (EPAR) trial: A randomized controlled trial of early paracetamol to promote closure of the ductus arteriosus in preterm infants

<https://pubmed.ncbi.nlm.nih.gov/33845473>

Effect of delayed cord clamping on neurodevelopment at 3 years: A randomized controlled trial

<https://pubmed.ncbi.nlm.nih.gov/33965945>

Factors associated with survival and survival without major morbidity in very preterm infants in two neonatal networks: SEN1500 and NEOCOSUR

<https://pubmed.ncbi.nlm.nih.gov/33631749>

Optic nerve sheath diameter in preterm infants: Suggested values

<https://pubmed.ncbi.nlm.nih.gov/33756456>

Neonatal jaundice in preterm infants with bilirubin encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/33744898>

Risk factors for mortality and neurodevelopmental impairment among neonates born at 22–23 weeks' gestation

<https://pubmed.ncbi.nlm.nih.gov/33744873>

Morbidity in late preterm birth: A retrospective cohort study assessing the role of Immaturity versus antecedent factors

<https://pubmed.ncbi.nlm.nih.gov/33895731>

Nasal high-frequency oscillatory ventilation in preterm infants with moderate respiratory distress syndrome: A multicenter randomized clinical trial

<https://pubmed.ncbi.nlm.nih.gov/33827081>

Effect of bias gas flow on tracheal cytokine concentrations in ventilated extremely preterm infants: A randomized controlled trial

<https://pubmed.ncbi.nlm.nih.gov/33827091>

Brief report: Dalteparin in newborn thrombosis, time for a new starting dose

<https://pubmed.ncbi.nlm.nih.gov/33735895>

Near-infrared spectroscopy monitoring of cerebral oxygenation and influencing factors in neonates from high-altitude areas

<https://pubmed.ncbi.nlm.nih.gov/34107488>

An accidental repetitive 10-fold overdose of sildenafil in a young infant with pulmonary hypertension

<https://pubmed.ncbi.nlm.nih.gov/33780926>

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A green-colored neonate

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An extremely preterm delivery

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Newborn rash: a diagnostic dilemma

<https://pubmed.ncbi.nlm.nih.gov/34210815/>

Recurrent episodes of abdominal distention

<https://pubmed.ncbi.nlm.nih.gov/34210816/>

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Preterm birth and heart failure in infancy and beyond - born with a broken heart? (editorial)

<https://pubmed.ncbi.nlm.nih.gov/33818589/>

Association of preterm birth with long-term risk of heart failure into adulthood

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Programmed cell death protein-1 (PD-1) protects liver damage by suppressing IFN- γ expression in T cells in infants and neonatal mice (PDF)

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Exploratory assessment of levosimendan in infants with congenital diaphragmatic hernia

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Infantile hepatic hemangiomas

<https://www.ncbi.nlm.nih.gov/pubmed/34260839>

Lancet

No relevant articles

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Association between iatrogenic delivery for suspected fetal growth restriction and childhood school outcomes

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Doctors question NICE recommendation to induce labor at 39 weeks in ethnic minority women

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Regional variation of early-onset neonatal group b streptococcal disease prevention strategies in mainland China

<https://www.ncbi.nlm.nih.gov/pubmed/34097659>

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No new content

Pediatric Neurology

Neonatal subpial hemorrhage: clinical factors, neuroimaging, and outcomes in a quaternary care children's center

<https://pubmed.ncbi.nlm.nih.gov/34020112/>

Placental histological features and neurodevelopmental outcomes at two years in very-low-birth-weight infants (PDF)

[https://www.pedneur.com/article/S0887-8994\(21\)00071-0/pdf](https://www.pedneur.com/article/S0887-8994(21)00071-0/pdf)

Hyperbilirubinemia and asphyxia in children with dyskinetic cerebral palsy

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Perinatal outcomes of two screening strategies for gestational diabetes mellitus: a randomized controlled trial

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Association of breastfeeding and child IQ score at age 5 years

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COVID-19 Section

Hospital Pediatrics

Vignettes identify variation in antibiotic use for suspected early onset sepsis

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[Acceleration of small intestine development and remodeling of the microbiome following hyaluronan 35 kDa treatment in neonatal mice](#)

Hala Chaaban, Kathryn Burge, Jeffrey Eckert, et al. *Nutrients*.

[Altered hypothalamic DNA methylation and stress-induced hyperactivity following early life stress](#)

Eamon Fitzgerald, Matthew C Sinton, Sara Wernig-Zorc, et al. *Epigenetics Chromatin*.

[Insulin-like growth factor 1 in the preterm rabbit pup: characterization of cerebrovascular maturation following administration of recombinant human insulin-like growth factor 1/insulin-like growth factor 1-binding protein 3](#)

Magnus Gram, Claes Ekström, Bo Holmqvist, et al. *Dev Neurosci*.

[Serum glial fibrillary acidic protein as a biomarker of brain injury in premature neonates](#)

Dimitra Metallinou, Grigorios Karampas, Georgia Nyktari, et al. *Bosn J Basic Med Sci*.

[Thyroid hormones during the perinatal period are necessary to respiratory network development of newborn rats](#)

Jean-Philippe Rousseau, Luana Tenorio-Lopes, Sergio Cortez Ghio, et al. *Exp Neurol*.

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[Risk factors for tracheobronchomalacia in preterm infants with bronchopulmonary dysplasia](#)

Ya-Ting Su, Chun-Che Chiu, Shen-Hao Lai, et al. *Front Pediatr*.

[Antibiotic-driven intestinal dysbiosis in pediatric short bowel syndrome is associated with persistently altered microbiome functions and gut-derived bloodstream infections](#)

Robert Thänert, Anna Thänert, Jocelyn Ou, et al. *Gut Microbes*.

[Opioid treatment for opioid withdrawal in newborn infants](#)

Angelika Zankl, Jill Martin, Jane G Davey, et al. *Cochrane Database Syst Rev*.

[*Assessment of 2-year neurodevelopmental outcomes in extremely preterm infants receiving opioids and benzodiazepines](#)

Mihai Puia-Dumitrescu, Bryan A Comstock, Sijia Li, et al. *JAMA Netw Open*.

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Yan Hui, Birgitte Smith, Martin Steen Mortensen, et al. *Gut Microbes*.

[Early high-dose caffeine improves respiratory outcomes in preterm infants](#)

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[Early postnatal oxygen exposure predicts choroidal thinning in neonates](#)

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[Determinants of fatty acid content and composition of human milk fed to infants born weighing <1250 g](#)

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[Safety and immunogenicity of a prototype recombinant alpha-like protein subunit vaccine \(GBS-NN\) against Group B Streptococcus in a randomised placebo-controlled double-blind phase 1 trial in healthy adult women](#)

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[Impact of 1% chlorhexidine gluconate bathing and emollient application on bacterial pathogen colonization dynamics in hospitalized preterm neonates - A pilot clinical trial](#)

Angela Dramowski, Sheylyn Pillay, Adrie Bekker, et al. *EClinicalMedicine*.