

#### **Publications Working Group**

[Jonathan P. Mintzer](#), Page Editor - Stony Brook Children's Hospital

Ravi Mangal Patel - Emory University

Ayan Rajgarhia - Children's Mercy Hospital

Craig Nankervis - Nationwide Children's Hospital

Christopher Rouse - The Elliot Hospital + USUHS

Jeffrey Shenberger - Baystate Medical Center

Rangasamy Ramanathan - LAC+USC Medical Center and Children's Hospital

Los Angeles

American Academy  
of Pediatrics



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Section on Neonatal-Perinatal Medicine

## **ARTICLES OF INTEREST – October 2018**

### [Neuroprotective exendin-4 enhances hypothermia therapy in a model of hypoxic-ischaemic encephalopathy](#)

Rocha-Ferreira E, Poupon L, Zelco A, et al. *Brain*.

The authors hypothesized that Exendin-4, a drug used to treat type 2 diabetes mellitus that has also demonstrated neuroprotective properties would protect newborn mice from HIE. Exendin-4 started at 0h resulted in significant neuroprotection, impacting tissue infarction, cell death, astrogliosis, microglial and endothelial activation. Exendin-4 also resulted in significant neuroprotection alone, and enhanced the cerebroprotective effect of therapeutic hypothermia. Given the safety and tolerance of high dose therapy and its neuroprotective effect, exendin-4 may be a novel adjunctive medication for HIE.

### [Thrombocytopenia is associated with severe retinopathy of prematurity](#)

Cakir B, Liegl R, Hellgren G, et al. *JCI Insight*.

In 202 preterm infants, the authors found that thrombocytopenia ( $<100 \times 10^9/l$ ) at  $\geq 30$  weeks age was independently associated with severe ROP requiring treatment. In a mouse oxygen-induced retinopathy model of ROP, platelet counts were lower at peak of neovascularization compared to controls. Platelet transfusions suppressed neovascularization and decreased VEGF expression while platelet depletion had the opposite effects. These data suggest that platelet release has a local antiangiogenic effect on endothelial cells to exert a downstream suppression of VEGFA in neural retina.

### [Childhood seizures after phototherapy](#)

Newman TB, Wu YW, Kuzniewicz MW, et al. *Pediatrics*.

In this retrospective review of 37,683 infants who received phototherapy, followed from 1995 – 2011, with a mean follow-up time of 8.1 years, there was a slightly higher risk of seizures, with an adjusted hazard ratio of 1.22 (95% CI: 1.05 to 1.42;  $P = .009$ ). The risk was more significant in boys with a higher overall risk of seizures and higher hazard risk ratio for phototherapy.

### [Monitoring cerebral oxygenation of the immature brain: a neuroprotective strategy?](#)

van Bel F & Mintzer JP. *Pediatr Res*.

This review article discusses the possible neuroprotective role of “pattern recognition” of NIRS-derived cerebral oxygenation. The authors discuss areas where monitoring cerebral oxygenation may help minimize severe IVH and hypoxia/hyperoxia-related white matter injury and include hypo/hypercapnia, hypotension, impaired cerebral autoregulation, hemodynamically significant PDA, anemia,

hypoglycemia, and post-hemorrhagic hydrocephalus. The article concludes with a call for international consensus and a brief discussion of legal implications.

[Vitamin D and associated perinatal-neonatal outcomes among extremely low-birth-weight infants](#)

Shah BA, Padbury JF, Anderson MP, et al. *J Perinatol*.

In this prospective cohort study of 60 extremely low birth weight infants, circulating 25-OH Vitamin D concentrations were assessed in the first 3 days after birth. Among the enrolled infants, 22% were Vitamin D deficient (level <20 ng/mL), 25% were insufficient (level 20-30 ng/mL) and 53% had adequate 25-OH Vitamin D levels (> 30 ng/mL). Initial 25-OH Vitamin D concentrations were associated with fetal growth restriction and prolonged rupture of the membranes.

[Bronchopulmonary dysplasia appropriateness as a surrogate marker for long-term pulmonary outcomes: a systematic review](#)

Corwin BK, Trembath AN, & Hibbs AM. *J Neonatal Perinatal Med*.

Five studies were included in this systematic review of large, multi-centered blinded, randomized control trials to evaluate the use of BPD as a surrogate marker for long term pulmonary outcomes. Only one study found a consistent risk reduction in both BPD and pulmonary outcomes. Hence BPD was found to be an imperfect surrogate marker; furthermore, there was wide variation in the definitions of BPD and pulmonary outcomes measured.

[Anesthetic exposure and neurodevelopmental outcomes in the neonate](#)

Vinson AE & Houck CS. *NeoReviews*.

Children exposed to anesthetic agents before age 4 are at higher risk for behavioral and learning deficits, potentially resulting from anesthesia-related hemodynamic disturbances and/or hypocapnea. Ongoing research is exploring the preclinical dose-response relationship to neurotoxicity, comparisons of drugs that mitigate neurotoxicity and specific translatable biomarkers. Inflammation and inflammatory markers are also being explored.

[Effects of myo-inositol on type 1 retinopathy of prematurity among preterm infants <28 weeks' gestational age: a randomized clinical trial](#)

Phelps DL, Watterberg KL, Nolen TL, et al. *JAMA*.

This randomized clinical trial to test the adverse events and efficacy of myo-inositol to reduce type 1 ROP included 638 premature infants younger than 28 weeks' gestational age enrolled from 18 neonatal intensive care centers throughout the US. The trial was terminated early due to a statistically significantly higher mortality rate in the myo-inositol group. Among premature infants younger than 28 weeks' gestational age, treatment with myo-inositol for up to 10 weeks did not reduce the risk of type 1 ROP or death vs. placebo. These findings do not support the use of myo-inositol among premature infants; however, the early termination of the trial limits definitive conclusions.

**OTHER NOTEWORTHY PUBLICATIONS – October, 2018**

**Pediatrics**

Hyperbilirubinemia, phototherapy, and childhood asthma (PDF)

<http://pediatrics.aappublications.org/content/pediatrics/142/4/e20180662.full.pdf>

Infant feeding and weight gain: separating breast milk from breastfeeding and formula from food

<https://www.ncbi.nlm.nih.gov/pubmed/30249624>

Incidence of congenital hypothyroidism over 37 years in Ireland

<https://www.ncbi.nlm.nih.gov/pubmed/30242075>

Modes of death within a children's hospital

<https://www.ncbi.nlm.nih.gov/pubmed/30232217>

Infant walker–related injuries in the United States

<https://www.ncbi.nlm.nih.gov/pubmed/30224365>

Eye findings in infants with suspected or confirmed antenatal Zika virus exposure

<https://www.ncbi.nlm.nih.gov/pubmed/30213843>

Epigenetic programming by maternal behavior in the human infant (PDF)

<http://pediatrics.aappublications.org/content/pediatrics/142/4/e20171890.full.pdf>

The role of integrated care in a medical home for patients with a fetal alcohol spectrum disorder

<https://www.ncbi.nlm.nih.gov/pubmed/30201625>

Eliciting narratives to inform care for infants with trisomy 18

<https://www.ncbi.nlm.nih.gov/pubmed/30190348>

### **Journal of Pediatrics**

Respiratory compliance in late preterm infants (34 0/7-34 6/7 weeks) after antenatal steroid therapy

<http://www.ncbi.nlm.nih.gov/pubmed/29954604>

Greater breastfeeding in early infancy is associated with slower weight gain among high birth weight infants

<http://www.ncbi.nlm.nih.gov/pubmed/30007772>

A randomized controlled trial of a barrier dressing to reduce nasal injury in preterm infants receiving binasal noninvasive respiratory support

<http://www.ncbi.nlm.nih.gov/pubmed/30251638>

Among children born extremely preterm a higher level of circulating neurotrophins is associated with lower risk of cognitive impairment at school age

<http://www.ncbi.nlm.nih.gov/pubmed/30029870>

The impact of being born preterm or small for gestational age on early vascular aging in adolescents

<http://www.ncbi.nlm.nih.gov/pubmed/29960764>

Preterm infant outcomes after randomization to initial resuscitation with FiO<sub>2</sub> 0.21 or 1.0

<http://www.ncbi.nlm.nih.gov/pubmed/230251639>

An assessment of public preferences for newborn screening using best–worst scaling

<http://www.ncbi.nlm.nih.gov/pubmed/230025667>

Pre-, perinatal, and parental predictors of body mass index trajectory milestones

<http://www.ncbi.nlm.nih.gov/pubmed/29960766>

Neonatal sepsis of early onset, and hospital-acquired and community-acquired late onset: a prospective population-based cohort study

<http://www.ncbi.nlm.nih.gov/pubmed/230054165>

Impact of blood donor sex on transfusion-related outcomes in preterm infants

<http://www.ncbi.nlm.nih.gov/pubmed/29784518>

Delayed cord clamping in infants with suspected intrauterine growth restriction

<http://www.ncbi.nlm.nih.gov/pubmed/29954605>

The effect of noninvasive high-frequency oscillatory ventilation on desaturations and bradycardia in very preterm infants: a randomized crossover trial

<http://www.ncbi.nlm.nih.gov/pubmed/29954606>

Association between video laryngoscopy and adverse tracheal intubation-associated events in the neonatal intensive care unit

<http://www.ncbi.nlm.nih.gov/pubmed/29980290>

Moving beyond race and ethnicity to understand the effect of inhaled nitric oxide on bronchopulmonary dysplasia prevention

<http://www.ncbi.nlm.nih.gov/pubmed/30029858>

### **Pediatric Research**

Defining outcomes following congenital diaphragmatic hernia using standardized clinical assessment and management plan (SCAMP) methodology within the CDH EURO consortium

<https://www.ncbi.nlm.nih.gov/pubmed/29915407>

Prenatal, perinatal, and neonatal risk factors of autism spectrum disorder

<https://www.ncbi.nlm.nih.gov/pubmed/29538366>

Predictors of anemia and iron status at birth in neonates born to women carrying multiple fetuses

<https://www.ncbi.nlm.nih.gov/pubmed/29907852>

Extreme neonatal hyperbilirubinemia, acute bilirubin encephalopathy, and kernicterus spectrum disorder in children with galactosemia

<https://www.ncbi.nlm.nih.gov/pubmed/29892033>

Gastric fluid used to assess changes during the latency period in preterm prelabor rupture of membranes

<https://www.ncbi.nlm.nih.gov/pubmed/29892034>

Cerebral blood flow and serum neuron-specific enolase in early-onset neonatal sepsis

<https://www.ncbi.nlm.nih.gov/pubmed/29907848>

Altered metabolites in newborns with persistent pulmonary hypertension (PDF)

<https://www.nature.com/articles/s41390-018-0023-y.pdf>

Incidence of neonatal hypertension from a large multicenter study [Assessment of Worldwide Acute Kidney Injury Epidemiology in Neonates—AWAKEN]

<https://www.ncbi.nlm.nih.gov/pubmed/29795211>

Does prolonged severe hypercapnia interfere with normal cerebrovascular function in piglets?

<https://www.ncbi.nlm.nih.gov/pubmed/29907849>

### **Neonatologist Performed Echocardiography (NPE) Special Edition**

Education, training, and accreditation of neonatologist performed echocardiography in Europe—framework for practice

<https://www.ncbi.nlm.nih.gov/pubmed/30072809>

Introduction to neonatologist-performed echocardiography

<https://www.ncbi.nlm.nih.gov/pubmed/30072808>

The role of neonatologist performed echocardiography in the assessment and management of neonatal shock

<https://www.ncbi.nlm.nih.gov/pubmed/30072807>

Tissue doppler velocity imaging and event timings in neonates: a guide to image acquisition, measurement, interpretation, and reference values

<https://www.ncbi.nlm.nih.gov/pubmed/30072806>

Application of neonatologist performed echocardiography in the assessment and management of persistent pulmonary hypertension of the newborn

<https://www.ncbi.nlm.nih.gov/pubmed/30072805>

Deformation imaging and rotational mechanics in neonates: a guide to image acquisition, measurement, interpretation, and reference values

<https://www.ncbi.nlm.nih.gov/pubmed/30072804>

Application of NPE in the assessment of a patent ductus arteriosus

<https://www.ncbi.nlm.nih.gov/pubmed/30072803>

Application of neonatologist performed echocardiography in the assessment and management of neonatal heart failure unrelated to congenital heart disease

<https://www.ncbi.nlm.nih.gov/pubmed/30072802>

Role of neonatologist-performed echocardiography in the assessment and management of patent ductus arteriosus physiology in the newborn

<https://www.ncbi.nlm.nih.gov/pubmed/29551482>

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

Improved pregnant women's understanding of research information by an enhanced informed consent form: a randomised controlled study nested in neonatal research

<https://www.ncbi.nlm.nih.gov/pubmed/28818850>

Analysis of unsuccessful intubations in neonates using videolaryngoscopy recordings

<https://www.ncbi.nlm.nih.gov/pubmed/29127153>

Trainees success rates with intubation to suction meconium at birth

<https://www.ncbi.nlm.nih.gov/pubmed/29636384>

Respiratory adaptation in term infants following elective caesarean section

<https://www.ncbi.nlm.nih.gov/pubmed/28970317>

Care bundles to reduce central line-associated bloodstream infections in the neonatal unit: a systematic review and meta-analysis

<https://www.ncbi.nlm.nih.gov/pubmed/29175985>

Effect of a smaller target range on the compliance in targeting and distribution of oxygen saturation in preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/28970321>

Sensory exposure of neonates in single-room environments (SENSE): an observational study of light

<https://www.ncbi.nlm.nih.gov/pubmed/28970325>

Always a burden? Healthcare providers' perspectives on moral distress

<https://www.ncbi.nlm.nih.gov/pubmed/28970316>

Outcomes of oxygen saturation targeting during delivery room stabilisation of preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/28988158>

Chest compression during sustained inflation versus 3:1 chest compression:ventilation ratio during neonatal cardiopulmonary resuscitation: a randomised feasibility trial

<https://www.ncbi.nlm.nih.gov/pubmed/28988159>

One-year outcomes following surgery for necrotising enterocolitis: a UK-wide cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/29092912>

Tobacco, alcohol and illicit drugs during pregnancy and risk of neuroblastoma: systematic review

<https://www.ncbi.nlm.nih.gov/pubmed/29162685>

Antimicrobial resistance in UK neonatal units: neonIN infection surveillance network

<https://www.ncbi.nlm.nih.gov/pubmed/29074716>

Validity of neurodevelopmental outcomes of children born very preterm assessed during routine clinical follow-up in England

<https://www.ncbi.nlm.nih.gov/pubmed/29079650>

Retrospective cohort analysis on pancreatic enzyme substitution in very low birthweight infants with postnatal growth failure

<https://www.ncbi.nlm.nih.gov/pubmed/29122829>

Comparison of infant heart rate assessment by auscultation, ECG and oximetry in the delivery room

<https://www.ncbi.nlm.nih.gov/pubmed/29802102>

Case of membranous oesophageal atresia

<https://www.ncbi.nlm.nih.gov/pubmed/29643126>

Clinical aspects of incorporating cord clamping into stabilisation of preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/29680790>

### **Journal of Perinatology**

Lenticulostriate vasculopathy in preterm infants: a new classification, clinical associations and neurodevelopmental outcome

<https://www.ncbi.nlm.nih.gov/pubmed/30115968>

Stress during pregnancy, gestational weight gain, and body mass index

<https://www.ncbi.nlm.nih.gov/pubmed/30108344>

Whole-exome sequencing in fetuses with central nervous system abnormalities

<https://www.ncbi.nlm.nih.gov/pubmed/30108342>

Calprotectin and necrotizing enterocolitis: it's not the assay, it's the definition

<https://www.ncbi.nlm.nih.gov/pubmed/30108341>

Use of car beds for infant travel: a review of the literature

<https://www.ncbi.nlm.nih.gov/pubmed/30097654>

Use and perceived safety of stylets for neonatal endotracheal intubation: a national survey

<https://www.ncbi.nlm.nih.gov/pubmed/30093617>

Sucrose vs. skin to skin care for preterm neonatal pain control-a randomized control

<https://www.ncbi.nlm.nih.gov/pubmed/30087456>

Flipping the classroom: a national pilot curriculum for physiology in neonatal-perinatal medicine

<https://www.ncbi.nlm.nih.gov/pubmed/30087455>

Racial/ethnic differences in necrotizing enterocolitis incidence and outcomes in premature very low birth weight infants

<https://www.ncbi.nlm.nih.gov/pubmed/30087454>

Comparison of neurodevelopmental outcomes between monochorionic and dichorionic twins with birth weight  $\leq 1500$  g in Japan: a register-based cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/30082774>

Systematic ultrasound examinations in neonates admitted to NICU: evolution of portal vein thrombosis

<https://www.ncbi.nlm.nih.gov/pubmed/30082773>

Decreasing use of autopsy for stillbirths and infant deaths: missed opportunity

<https://www.ncbi.nlm.nih.gov/pubmed/30076403>

Higher intake of coagulase-negative staphylococci from maternal milk promotes gut colonization with mecA-negative Staphylococcus epidermidis in preterm neonates

<https://www.ncbi.nlm.nih.gov/pubmed/30076401>

Integrated evaluation of hemodynamics: a novel approach for the assessment and management of preterm infants with compromised systemic circulation

<https://www.ncbi.nlm.nih.gov/pubmed/30072708>

Risk factors for neonatal group B streptococcus vertical transmission: a prospective cohort study of 1815 mother-baby pairs

<https://www.ncbi.nlm.nih.gov/pubmed/30068969>

Thyroid gland volumes in premature infants using serial ultrasounds

<https://www.ncbi.nlm.nih.gov/pubmed/30061589>

Prediction of long-term neurodevelopmental outcome in preterm infants using trajectories of general movement assessments

<https://www.ncbi.nlm.nih.gov/pubmed/30054588>

Standard care with plastic bag or portable thermal nest to prevent hypothermia at birth: a three-armed randomized controlled trial

<https://www.ncbi.nlm.nih.gov/pubmed/30054587>

Preterm infants are less likely to have a family-centered medical home than term-born peers

<https://www.ncbi.nlm.nih.gov/pubmed/30046181>

Prethreshold retinopathy of prematurity: VEGF inhibition without VEGF inhibitors

<https://www.ncbi.nlm.nih.gov/pubmed/30046180>

Selenium and neonatal outcomes

<https://www.ncbi.nlm.nih.gov/pubmed/30042469>

Reference intervals for stool calprotectin in preterm neonates and their utility for the diagnosis of necrotizing enterocolitis

<https://www.ncbi.nlm.nih.gov/pubmed/29740189>

## **Neonatology**

Head ultrasound in neonatal hypoxic-ischemic injury and its mimickers for clinicians: a review of the patterns of injury and the evolution of findings over time

<https://www.ncbi.nlm.nih.gov/pubmed/29936499>

Cardiac valve annulus diameters in extremely preterm infants: a cross-sectional echocardiographic study (PDF)

<https://www.karger.com/article/pdf/488387>

Reduced prevalence of severe intraventricular hemorrhage in very preterm infants delivered after maternal preeclampsia

<https://www.ncbi.nlm.nih.gov/pubmed/29940569>

The so-called “protective effect” of preeclampsia on perinatal brain damage

<https://www.ncbi.nlm.nih.gov/pubmed/29940598>

Gestational age and the cord blood lipidomic profile in late preterm and term infants

<https://www.ncbi.nlm.nih.gov/pubmed/29940570>

Hemolysis and glucose-6-phosphate dehydrogenase deficiency-related neonatal hyperbilirubinemia

<https://www.ncbi.nlm.nih.gov/pubmed/29940590>

Maternal intrapartum antibiotic administration and infantile colic: is there a connection?

<https://www.ncbi.nlm.nih.gov/pubmed/29940563>

Assessing the surgical experience to identify risk factors associated with severe retinopathy of prematurity and laser intervention

<https://www.ncbi.nlm.nih.gov/pubmed/29940578>

Neonatal phototherapy: a novel therapy to prevent allergic skin disease for at least 5 years

<https://www.ncbi.nlm.nih.gov/pubmed/29940600>

Survival of immunoglobulins from human milk to preterm infant gastric samples at 1, 2, and 3 h postprandial

<https://www.ncbi.nlm.nih.gov/pubmed/29940583>

MRI changes in the thalamus and basal ganglia of full-term neonates with perinatal asphyxia (PDF)

<https://www.karger.com/article/pdf/489159>

Language exposure of preterm infants in the neonatal unit: a systematic review

<https://www.ncbi.nlm.nih.gov/pubmed/29975954>

Risk factors for necrotizing enterocolitis: a prospective multicenter case-control study (PDF)

<https://www.karger.com/article/pdf/489677>

### **American Journal of Perinatology**

Neonatal outcomes associated with noncephalic presentation at delivery in preterm birth

<http://www.ncbi.nlm.nih.gov/pubmed/29310142>

Reevaluation of protein intake for preterm infants

<http://www.ncbi.nlm.nih.gov/pubmed/29689579>

The impact of hypoxemia on the development of retinopathy of prematurity in infants less than 29 weeks of gestation

<http://www.ncbi.nlm.nih.gov/pubmed/29653452>

Optimal timing of delivery in women with higher order cesareans: a cohort study

<http://www.ncbi.nlm.nih.gov/pubmed/29660752>

Clinician perceptions of the NICU infant experience: is the NICU hospitalization traumatic?

<http://www.ncbi.nlm.nih.gov/pubmed/29669364>

Couples facing the birth of a newborn with a congenital anomaly: PTSD symptoms in the first year

<http://www.ncbi.nlm.nih.gov/pubmed/29669363>

Peripartum morbidity after cesarean delivery for arrest of dilation at 4 to 5 cm compared with 6 to 10 cm

<http://www.ncbi.nlm.nih.gov/pubmed/29689578>

Decreased circulating insulin-like growth factor 1 levels are associated with cardiac diastolic dysfunction in small for gestational age infants

<http://www.ncbi.nlm.nih.gov/pubmed/29689577>

Development of a neuroNICU with a broader focus on all newborns at risk of brain injury: the first 2 years

<http://www.ncbi.nlm.nih.gov/pubmed/29702712>

Acute post-tracheostomy clinical decompensations in infants—are there predictive markers?

<http://www.ncbi.nlm.nih.gov/pubmed/29702711>

Neonatal morbidities among moderately preterm infants with and without exposure to antenatal corticosteroids

<http://www.ncbi.nlm.nih.gov/pubmed/29702710>

Lung ultrasound findings in congenital pulmonary airway malformation

<http://www.ncbi.nlm.nih.gov/pubmed/29715700>

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

A rare case of fetal extensive intracranial hemorrhage and whole-cerebral hypoplasia due to latent maternal vitamin K deficiency

<https://www.ncbi.nlm.nih.gov/pubmed/29843264>

Occult large epidural hemorrhage in a newborn infant after in-hospital fall

<https://www.ncbi.nlm.nih.gov/pubmed/29843268>

Successful exchange transfusion in extremely preterm infant after symptomatic lipid overdose

<https://www.ncbi.nlm.nih.gov/pubmed/29843263>

Unusual complication of fulminant congenital cytomegalovirus infection

<https://www.ncbi.nlm.nih.gov/pubmed/29843259>

Coexistence of Kasabach–Merritt Syndrome and placental chorioangioma in a premature infant

<https://www.ncbi.nlm.nih.gov/pubmed/29991142>

Mounting evidence favoring single-family room neonatal intensive care

<https://www.ncbi.nlm.nih.gov/pubmed/26485558>

Risk factors of stillbirth in Yemen

<https://www.ncbi.nlm.nih.gov/pubmed/29843265>

Correlation of maternal A1c with glucose infusion rate requirements in the newborn

<https://www.ncbi.nlm.nih.gov/pubmed/29843266>

Distribution, antimicrobial resistance and predictors of mortality in neonatal sepsis

<https://www.ncbi.nlm.nih.gov/pubmed/29991144>

Decreasing NICU admissions of asymptomatic infants of women with pregestational diabetes mellitus improves breastfeeding initiation rates

<https://www.ncbi.nlm.nih.gov/pubmed/29843274>

Effect of probiotics on C-reactive protein levels in preterm infants: Secondary analysis of a randomized controlled trial

<https://www.ncbi.nlm.nih.gov/pubmed/29843270>

Impact of a neuro-intensive care service for newborns

<https://www.ncbi.nlm.nih.gov/pubmed/29843267>

Perinatal asphyxia in a rural Nigerian hospital: Incidence and determinants of early outcome

<https://www.ncbi.nlm.nih.gov/pubmed/29966208>

Severity of hypoxic ischemic encephalopathy correlates with increased expression of angiogenin in neonates

<https://www.ncbi.nlm.nih.gov/pubmed/29991143>

Medico-legal implications of hypothermic neuroprotection in the newborn

<https://www.ncbi.nlm.nih.gov/pubmed/29710738>

Cerebral glucose deficiency versus oxygen deficiency in neonatal encephalopathy

<https://www.ncbi.nlm.nih.gov/pubmed/29710737>

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

A retrospective analysis of adverse obstetric and perinatal outcomes in adolescent pregnancy: the case of Luapula Province, Zambia (PDF)

<https://mhnpjournal.biomedcentral.com/track/pdf/10.1186/s40748-018-0088-y>

Magnitude and associated factors of postpartum morbidity in public health institutions of Debre Markos town, North West Ethiopia (PDF)

<https://www.ncbi.nlm.nih.gov/pubmed/30305915>

## **Neoreviews**

Educational perspectives: Advanced technology and high sensibility in providing safe neonatal care in intensive care units

<http://neoreviews.aappublications.org/content/neoreviews/19/10/e569.full.pdf>

Diagnosing and managing Hirschsprung disease in the newborn

<http://neoreviews.aappublications.org/content/neoreviews/19/10/e577.full.pdf>

Radiologic approach to the diagnosis of bowel emergencies in neonates

<http://neoreviews.aappublications.org/content/neoreviews/19/10/e589.full.pdf>

Case 1: Periorbital swelling and conjunctivitis in a preterm infant

<http://neoreviews.aappublications.org/content/19/10/e610.full-text.pdf>

Case 2: Metabolic alkalosis in a neonate 12 hours after birth

<http://neoreviews.aappublications.org/content/19/10/e613.full-text.pdf>

Case 3: A term newborn with intrauterine growth restriction and severe fetal brain anomalies

<http://neoreviews.aappublications.org/content/19/10/e616.full-text.pdf>

Strip of the Month: Term oligohydramnios and prolonged decelerations

<http://neoreviews.aappublications.org/content/19/10/e620.full-text.pdf>

Newborn with neck lesion

<http://neoreviews.aappublications.org/content/19/10/e633.full-text.pdf>

### **JAMA Pediatrics**

Association between temporal changes in neonatal mortality and spontaneous and clinician-initiated deliveries in the United States, 2006-2013

<http://www.ncbi.nlm.nih.gov/pubmed/30105352>

Association of prenatal maternal depression and anxiety symptoms with infant white matter microstructure

<http://www.ncbi.nlm.nih.gov/pubmed/30177999>

### **BMC Pediatrics**

Adherence to the neonatal resuscitation algorithm for preterm infants in a tertiary hospital in Spain (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-018-1288-3>

Neurodevelopmental and emotional-behavioral outcomes in late-preterm infants: an observational descriptive case study (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-018-1293-6>

Agreement test of transcutaneous bilirubin and bilistick with serum bilirubin in preterm infants receiving phototherapy (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-018-1290-9>

### **Pediatric Critical Care Medicine**

Accurate prediction of congenital heart surgical length of stay incorporating a procedure-based categorical variable

<https://www.ncbi.nlm.nih.gov/pubmed/30052551>

Population pharmacokinetics of vancomycin in pediatric extracorporeal membrane oxygenation

<https://www.ncbi.nlm.nih.gov/pubmed/30063652>

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

The name of the dog

<https://www.ncbi.nlm.nih.gov/pubmed/30281983>

### **Lancet**

Congenital syphilis in the USA

<https://www.ncbi.nlm.nih.gov/pubmed/30319097>

Global epidemiology of use of and disparities in caesarean sections

<https://www.ncbi.nlm.nih.gov/pubmed/30322584>

Short-term and long-term effects of caesarean section on the health of women and children

<https://www.ncbi.nlm.nih.gov/pubmed/30322585>

Interventions to reduce unnecessary caesarean sections in healthy women and babies

<https://www.ncbi.nlm.nih.gov/pubmed/30322586>

## **JAMA**

Effect of immediate vs delayed pushing on rates of spontaneous vaginal delivery among nulliparous women receiving neuraxial analgesia: a randomized clinical trial

<https://www.ncbi.nlm.nih.gov/pubmed/30304425>

Immediate vs delayed pushing during the second stage of labor

<https://www.ncbi.nlm.nih.gov/pubmed/30304414>

Breastfeeding report card

<https://www.ncbi.nlm.nih.gov/pubmed/30304434>

## **BMJ**

Pre-eclampsia and risk of dementia later in life: nationwide cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/30333106>

## **Pediatric Infectious Disease Journal**

Decline of seroprevalence and incidence of congenital toxoplasmosis despite changing prevention policy—three decades of cord-blood screening in north-western Switzerland

<https://www.ncbi.nlm.nih.gov/pubmed/29561516>

Maternal carriage of group B streptococcus and escherichia coli in a district hospital in Mozambique

<https://www.ncbi.nlm.nih.gov/pubmed/30312265>

Invasive fungal infections in neonates in Canada: epidemiology and outcomes

<https://www.ncbi.nlm.nih.gov/pubmed/29561508>

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Xenon combined with hypothermia in perinatal hypoxic-ischemic encephalopathy: a noble gas, a noble mission

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## **Obstetrics and Gynecology**

Marijuana use in pregnancy and while breastfeeding

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Systematic screening and treatment of toxoplasmosis during pregnancy: is the glass half full or half empty?

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