

#### **Publications Working Group**

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Section on Neonatal-Perinatal Medicine

## **ARTICLES OF INTEREST – December, 2017**

### **[Magnesium induces preconditioning of the neonatal brain via profound mitochondrial protection](#)**

Koning G, Leverin AL, Nair S, et al. *J Cereb Blood Flow Metab.*

To determine if prenatally-administered MgSO<sub>4</sub> induces neuroprotection in infants by preconditioning, the authors administered MgSO<sub>4</sub> at various time-points before/after unilateral hypoxia-ischemia (HI) in seven-day-old rats. They found that MgSO<sub>4</sub> administered between 6 days and 12 h prior to HI markedly reduced the neonatal brain injury by preserving mitochondrial respiration, reducing ROS production and inflammation after HI.

### **[Survival in very preterm infants: an international comparison of 10 national neonatal networks](#)**

Helenius K, Sjörs G, Shah PS, et al. *Pediatrics.*

In a cohort study of very preterm infants born between 24 and 29 weeks gestation and weighing < 1500g admitted to participating units between 2007 and 2013 in the international network for evaluating outcomes of neonates, the network ranking of survival rates for very preterm infants remained largely unchanged as GA increased, however survival rates showed marked variation at lower gestational ages (35% - 84%). Survival was highest in Japan (SR: 1.10; 99% confidence interval: 1.08-1.13) and lowest in Spain (SR: 0.88; 99% confidence interval: 0.85-0.90).

### **[Impact of the neonatal resuscitation program—recommended low oxygen strategy on outcomes of infants born preterm](#)**

Kapadia VS, Lal CV, Kakkilaya V, et al. *J Pediatr.*

In this retrospective study of 199 preterm infants <28 weeks' gestation, 110 were resuscitated with 100% O<sub>2</sub> (HOX) and 89 were resuscitated with 21% O<sub>2</sub> and titrating to meet NRP—recommended transitional target oxygen saturations (LOX). Subjects in the LOX group had lower O<sub>2</sub> exposure in the delivery room, spent fewer days on O<sub>2</sub>, had lower odds of developing BPD, and had greater motor composite scores on Bayley Scales. No difference in mortality was noted between HOX and LOX groups. Prospective studies are needed to confirm these findings.

[In vitro and in vivo characterization of poractant alfa supplemented with budesonide for safe and effective intratracheal administration](#)

Ricci F, Catozzi C, Ravanetti F, et al. *Pediatr Res*.

This study evaluated the properties of poractant alfa and budesonide in 27 non-surfactant depleted preterm and 24 surfactant depleted adult rabbits. The rabbits were divided into 4 groups: untreated, budesonide, poractant alpha, and budesonide+poractant alpha. The authors found that the addition of budesonide to poractant alfa did not affect the physiological response to surfactant treatment in the RDS animal models and was associated with a significant reduction of lung inflammation in surfactant-depleted rabbits.

[Abstinence or intervention for isolated hypotension in the first 3 days of life in extremely preterm infants: association with short-term outcomes in the EPIPAGE 2 cohort study](#)

Durrmeyer X, Marchand-Martin L, Porcher R, et al. *Arch Dis Child Fetal Neonatal Ed*.

In an analysis of the EPIPAGE-2 population based cohort of 60 NICUs in France in 2011, investigators evaluated the association between treatment for hypotension (fluid bolus, inotropes or corticosteroids) and survival to hospital discharge without major morbidity. Infants who received treatment for hypotension (n=131), compared to untreated infants (n=325), had a higher rate of survival without major morbidity (61.3% vs 48.7%; OR, 1.67, 95% CI 1.00 to 2.78, p=0.049).

[Effect of prophylactic indomethacin administration and early feeding on spontaneous intestinal perforation in extremely low-birth-weight infants](#)

Stavel M, Wong J, Cieslak Z, et al. *J Perinatol*.

In a multicenter, retrospective cohort study of 4268 extremely low birth weight infants from Canada, investigators evaluated the association between prophylactic indomethacin, early enteral feeding and risk of spontaneous intestinal perforation (SIP). Compared to infants who did not receive prophylactic indomethacin, infants who received prophylactic indomethacin had an approximately 2.5 fold higher odds of SIP. Early feeding was not associated with a higher or lower risk of SIP.

[Diagnosing neonatal encephalopathy as hypoxic-ischemic encephalopathy: interpreting test results in real time](#)

Dysart KC. *NeoReviews*.

In this review, the major diagnostic modalities and their accuracy for a timely diagnosis of HIE are discussed with a proposed diagnostic path and method focused on probabilities and likelihoods. Intrapartum assessments are thought to lack specificity and their use in predicting encephalopathic outcome is limited. Other parameters evaluated were Apgar score, metabolic acidosis, aEEG and Sarnat scale. T1/T2 weighted images obtained in the second week of life, persistence of an abnormal EEG at 72 hrs after birth, and no improvement in Sarnat staging are all compelling signs for poor neurodevelopmental outcome.

### [Feasibility and safety of controlled active hypothermia treatment during transport in neonates with hypoxic-ischemic encephalopathy](#)

Szakmar E, Kovacs K, Meder U, et al. *Pediatr Crit Care Med*.

This cohort study compared 136 newborns with moderate-to-severe hypoxic-ischemic encephalopathy who were actively cooled during transport to 78 historic controls treated with standard transport intensive care. The authors found that for the group who received active cooling, the target temperature of 33-34°C was achieved 1.83 hours earlier (median 2.42 [1.58-3.63] vs 4.25 [2.42-6.08] hours after birth, respectively;  $p < 0.0001$ ) with no increase in adverse events leading to pulmonary or circulatory failure. The authors concluded that therapeutic hypothermia during transport is feasible and safe, allowing for significantly earlier initiation and achievement of target temperature, possibly providing further benefit for neonates with hypoxic-ischemic encephalopathy.

### [Delayed versus immediate cord clamping in preterm infants](#)

Tarnow-Mordi W, Morris J, Kirby A, et al. *N Engl J Med*.

The preferred timing of umbilical-cord clamping in preterm infants remains unclear. The authors randomly assigned 1566 fetuses from women who were expected to deliver before 30 weeks of gestation to either immediate clamping of the umbilical cord ( $\leq 10$  seconds after delivery) or delayed clamping ( $\geq 60$  seconds after delivery). The primary composite outcome was death or major morbidity (defined as severe brain injury on postnatal ultrasonography, severe retinopathy of prematurity, necrotizing enterocolitis, or late-onset sepsis) by 36 weeks of postmenstrual age. Among preterm infants, delayed cord clamping did not result in a lower incidence of the combined outcome of death or major morbidity at 36 weeks of gestation compared to immediate cord clamping.

## **OTHER NOTEWORTHY PUBLICATIONS – December, 2017**

### **Pediatrics**

Trends in intravenous antibiotic duration for urinary tract infections in young infants

<https://www.ncbi.nlm.nih.gov/pubmed/29097611>

Computer-aided recognition of facial attributes for fetal alcohol spectrum disorders

<https://www.ncbi.nlm.nih.gov/pubmed/29187580>

Combination analgesia for neonatal circumcision: a randomized controlled trial (PDF)

<http://pediatrics.aappublications.org.ezproxy.cmh.edu/content/pediatrics/140/6/e20171935.full.pdf>

Weighing the social and ethical considerations of maternal-fetal surgery

<https://www.ncbi.nlm.nih.gov/pubmed/29101225>

Perinatal outcomes after treatment with ADHD medication during pregnancy

<https://www.ncbi.nlm.nih.gov/pubmed/29127207>

State variations in infant feeding regulations for child care

<https://www.ncbi.nlm.nih.gov/pubmed/29093136>

Infant neuromotor development and childhood problem behavior

<https://www.ncbi.nlm.nih.gov/pubmed/29138362>

Presentation and diagnosis of tuberous sclerosis complex in infants (PDF)

<http://pediatrics.aappublications.org.ezproxy.cmh.edu/content/pediatrics/140/6/e20164040.full.pdf>

Mortality in infants affected by preterm birth and severe small-for-gestational age birth weight

<https://www.ncbi.nlm.nih.gov/pubmed/29117948>

Ring block of the penis: a proven addition to multimodal pain relief for newborn circumcision (PDF)

<http://pediatrics.aappublications.org.ezproxy.cmh.edu/content/pediatrics/140/6/e20172678.full.pdf>

Early child care and education: a key component of obesity prevention in infancy

<https://www.ncbi.nlm.nih.gov/pubmed/29093134>

Diagnostic accuracy of neonatal assessment for gestational age determination: a systematic review (PDF)

<http://pediatrics.aappublications.org.ezproxy.cmh.edu/content/pediatrics/140/6/e20171423.full.pdf>

Implementation of a guideline to decrease use of acid-suppressing medications in the NICU (PDF)

<http://pediatrics.aappublications.org.ezproxy.cmh.edu/content/pediatrics/140/6/e20171715.full.pdf>

Two-year neurodevelopmental outcome of an infant born at 21 weeks' 4 days'

<https://www.ncbi.nlm.nih.gov/pubmed/29097614>

Diagnosing infection in a neonate using whole-body screening magnetic resonance imaging

<https://www.ncbi.nlm.nih.gov/pubmed/29146620>

Successful reversal of furosemide-induced secondary hyperparathyroidism with cinacalcet

<https://www.ncbi.nlm.nih.gov/pubmed/29192005>

### **Journal of Pediatrics**

Chronic pulmonary insufficiency of prematurity: developing optimal endpoints for drug development

<http://www.ncbi.nlm.nih.gov/pubmed/29173299>

Predicting mortality or intestinal failure in infants with surgical necrotizing enterocolitis

<http://www.ncbi.nlm.nih.gov/pubmed/29173311>

Ventricular performance is associated with need for extracorporeal membrane oxygenation in newborns with congenital diaphragmatic hernia

<http://www.ncbi.nlm.nih.gov/pubmed/29037794>

Pulmonary artery pressures in school-age children born prematurely

<http://www.ncbi.nlm.nih.gov/pubmed/29173320>

Caffeine citrate dosing adjustments to assure stable caffeine concentrations in preterm neonates

<http://www.ncbi.nlm.nih.gov/pubmed/29173321>

Delayed breastfeeding initiation is associated with infant morbidity

<http://www.ncbi.nlm.nih.gov/pubmed/29173323>

Intestinal microbiota composition in sudden infant death syndrome and age-matched controls

<http://www.ncbi.nlm.nih.gov/pubmed/29173325>

Maternal substance use disorders and infant outcomes in the first year of life among Massachusetts Singletons, 2003-2010

<http://www.ncbi.nlm.nih.gov/pubmed/29050752>

Capillary blood ketone levels as an indicator of inadequate breast milk intake in the early neonatal period

<http://www.ncbi.nlm.nih.gov/pubmed/29173326>

Fibrosis-related gene expression in single ventricle heart disease

<http://www.ncbi.nlm.nih.gov/pubmed/29050751>

Surgical interventions in infants born preterm with congenital heart defects: an analysis of the kids' inpatient database

<http://www.ncbi.nlm.nih.gov/pubmed/28964428>

Lactobacillus reuteri for infants with colic: a double-blind, placebo-controlled, randomized clinical trial

<http://www.ncbi.nlm.nih.gov/pubmed/28969890>

### **Pediatric Research**

"Pressure" to feed the preterm newborn: associated with "positive" outcomes?

<https://www.ncbi.nlm.nih.gov/pubmed/28902187>

Controversies in the identification and management of acute pulmonary hypertension in preterm neonates

<https://www.ncbi.nlm.nih.gov/pubmed/28820870>

Nasal continuous positive airway pressure influences bottle-feeding in preterm lambs

<https://www.ncbi.nlm.nih.gov/pubmed/28700565>

Gestational age-dependent relationship between cerebral oxygen extraction and blood pressure

<https://www.ncbi.nlm.nih.gov/pubmed/28902182>

The relationship between infancy growth rate and the onset of puberty in both genders

<https://www.ncbi.nlm.nih.gov/pubmed/28902184>

The impact of hemoglobin on the efficacy of phototherapy in hyperbilirubinemic infants

<https://www.ncbi.nlm.nih.gov/pubmed/28876328>

N-terminal B-type natriuretic peptide urinary concentrations and retinopathy of prematurity

<https://www.ncbi.nlm.nih.gov/pubmed/28738027>

Effect of red blood cell storage time on markers of hemolysis and inflammation in transfused very low birth weight infants

<https://www.ncbi.nlm.nih.gov/pubmed/28738026>

Neonatal basal ganglia and thalamic volumes: very preterm birth and 7-year neurodevelopmental outcomes

<https://www.ncbi.nlm.nih.gov/pubmed/28700568>

Kidneys in 5-year-old preterm-born children: a longitudinal cohort monitoring of renal function

<https://www.ncbi.nlm.nih.gov/pubmed/28665930>

Effect of frequency on pressure cost of ventilation and gas exchange in newborns receiving high-frequency oscillatory ventilation

<https://www.ncbi.nlm.nih.gov/pubmed/28665929>

Term vs. preterm cord blood cells for the prevention of preterm brain injury

<https://www.ncbi.nlm.nih.gov/pubmed/28723885>

Loss of CD73-mediated extracellular adenosine production exacerbates inflammation and abnormal alveolar development in newborn mice exposed to prolonged hyperoxia

<https://www.ncbi.nlm.nih.gov/pubmed/28832580>

Inhibition of I $\kappa$ B $\beta$ /NF $\kappa$ B signaling prevents LPS-induced IL1 $\beta$  expression without increasing apoptosis in the developing mouse lung

<https://www.ncbi.nlm.nih.gov/pubmed/28753596>

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

Extensive retinal haemorrhages in a neonate

<https://www.ncbi.nlm.nih.gov/pubmed/28970324>

Interhospital transfer of premature neonates from intensive to lower care settings: impact on the clinical condition

<https://www.ncbi.nlm.nih.gov/pubmed/28970320>

Dual-strain probiotics reduce NEC, mortality and neonatal bloodstream infections among extremely low birthweight infants

<https://www.ncbi.nlm.nih.gov/pubmed/28923984>

Epidemiology, management and outcome of ultrashort bowel syndrome in infancy

<https://www.ncbi.nlm.nih.gov/pubmed/28866623>

Neurodevelopmental follow-up for high-risk neonates: current practice in Great Britain

<https://www.ncbi.nlm.nih.gov/pubmed/28866622>

Why or how does the prone sleep position increase the risk of unexpected and unexplained infant death?

<https://www.ncbi.nlm.nih.gov/pubmed/28839107>

Variation of practice and poor outcomes for extremely low gestation births: ordained before birth?

<https://www.ncbi.nlm.nih.gov/pubmed/28839106>

Inotropes for preterm babies during the transition period after birth: friend or foe?

<https://www.ncbi.nlm.nih.gov/pubmed/28818851>

How to feed a baby recovering from necrotising enterocolitis when maternal milk is not available

<https://www.ncbi.nlm.nih.gov/pubmed/28780499>

Pulse oximetry screening for critical congenital heart defects: a repeat UK national survey  
<https://www.ncbi.nlm.nih.gov/pubmed/28780498>

Changes in cardiac output and cerebral oxygenation during prone and supine sleep positioning in healthy term infants  
<https://www.ncbi.nlm.nih.gov/pubmed/28747363>

Acral self-healing collodion baby  
<https://www.ncbi.nlm.nih.gov/pubmed/28735267>

A curious case of PICC line knot formation  
<https://www.ncbi.nlm.nih.gov/pubmed/28735266>

Providing active antenatal care depends on the place of birth for extremely preterm births: the EPIPAGE 2 cohort study  
<https://www.ncbi.nlm.nih.gov/pubmed/28667191>

Using exhaled CO<sub>2</sub> to guide initial respiratory support at birth: a randomised controlled trial  
<https://www.ncbi.nlm.nih.gov/pubmed/28596379>

Dextrose gel treatment does not impair subsequent feeding  
<https://www.ncbi.nlm.nih.gov/pubmed/28536206>

Severe retinopathy of prematurity predicts delayed white matter maturation and poorer neurodevelopment  
<https://www.ncbi.nlm.nih.gov/pubmed/28536205>

Short-term and long-term outcomes of preterm neonates with acute severe pulmonary hypertension following rescue treatment with inhaled nitric oxide  
<https://www.ncbi.nlm.nih.gov/pubmed/28483819>

Newborn infants with bilious vomiting: a national audit of neonatal transport services  
<https://www.ncbi.nlm.nih.gov/pubmed/28483818>

Contribution of targeted saliva screening for congenital CMV-related hearing loss in newborns who fail hearing screening  
<https://www.ncbi.nlm.nih.gov/pubmed/28468898>

Emergency laparotomy in infants born at <26 weeks gestation: a neonatal network-based cohort study of frequency, surgical pathology and outcomes  
<https://www.ncbi.nlm.nih.gov/pubmed/28468896>

A first-in-human clinical study of a new SP-B and SP-C enriched synthetic surfactant (CHF5633) in preterm babies with respiratory distress syndrome  
<https://www.ncbi.nlm.nih.gov/pubmed/28465315>

### **Journal of Perinatology**

Prenatally diagnosed congenital diaphragmatic hernia: optimal mode of delivery?  
<https://www.ncbi.nlm.nih.gov/pubmed/28055024>

Post-term surveillance and birth outcomes in South Asian-born compared with Australian-born women  
<https://www.ncbi.nlm.nih.gov/pubmed/27929532>

Roadmap to a successful quality improvement project  
<https://www.ncbi.nlm.nih.gov/pubmed/27906193>

Risk factors for group B streptococcal disease in neonates of mothers with negative antenatal testing (PDF)  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5280520/>

Contextual factors influencing the implementation of the obstetrics hemorrhage initiative in Florida  
<https://www.ncbi.nlm.nih.gov/pubmed/27853321>

Impact of a dedicated neonatal stabilization room and process changes on stabilization time  
<https://www.ncbi.nlm.nih.gov/pubmed/27831550>

Meconium exposure and autism risk  
<https://www.ncbi.nlm.nih.gov/pubmed/27809298>

Risk factors for persistent disability in children with obstetric brachial plexus palsy

<https://www.ncbi.nlm.nih.gov/pubmed/27763629>

Reliability of transcutaneous bilirubinometry from shielded skin in neonates receiving phototherapy: a prospective cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/27763628>

Inhaled hydrofluoroalkane-beclomethasone dipropionate in bronchopulmonary dysplasia. A double-blind, randomized, controlled pilot study

<https://www.ncbi.nlm.nih.gov/pubmed/27735931>

Prenatal visit utilization and outcomes in pregnant women with type II and gestational diabetes

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5280571/>

International variations in application of the best-interest standard across the age spectrum

<https://www.ncbi.nlm.nih.gov/pubmed/27735929>

Evaluation of the management of pregnancies and infants at risk for congenital syphilis: La Réunion, 2008 to 2014

<https://www.ncbi.nlm.nih.gov/pubmed/27711044>

Improving fortification with weekly analysis of human milk for VLBW infants

<https://www.ncbi.nlm.nih.gov/pubmed/27684418>

Placental transfusion: a review

<https://www.ncbi.nlm.nih.gov/pubmed/27654493>

## **Neonatology**

Should all extremely premature infants be screened for pulmonary hypertension? (PDF)

<https://www.karger.com/Article/FullText/481526>

Splanchnic-cerebral oxygenation ratio decreases during enteral feedings in anemic preterm infants: observations under near-infrared spectroscopy

<https://www.ncbi.nlm.nih.gov/pubmed/29131125>

An echocardiographic screening program helps to identify pulmonary hypertension in extremely low birthweight infants with and without bronchopulmonary dysplasia: a single-center experience

<https://www.ncbi.nlm.nih.gov/pubmed/29131022>

Hypoxemia episodes during day and night and their impact on oxygen saturation targeting in mechanically ventilated preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/29084407>

Congenital diaphragmatic hernia: 10-year evaluation of survival, extracorporeal membrane oxygenation, and foetoscopic endotracheal occlusion in four high-volume centres

<https://www.ncbi.nlm.nih.gov/pubmed/29080897>

Racial and ethnic disparities in preterm infant mortality and severe morbidity: a population-based study

<https://www.ncbi.nlm.nih.gov/pubmed/29073624>

Efficacy of antenatal corticosteroid treatment on neurodevelopmental outcome according to head circumference at birth

<https://www.ncbi.nlm.nih.gov/pubmed/29073596>

Effect of concurrent Src kinase inhibition with short-duration hypothermia on Ca<sup>2+</sup>/Calmodulin kinase IV activity and neuropathology after hypoxia-ischemia in the newborn swine brain

<https://www.ncbi.nlm.nih.gov/pubmed/29024930>

The impact of maternal gestational hypertension and the use of anti-hypertensives on neonatal myocardial performance

<https://www.ncbi.nlm.nih.gov/pubmed/28954269>

Cerebellar infarction: unusual manifestation with facial palsy, focal seizures, and secondary generalization

<https://www.ncbi.nlm.nih.gov/pubmed/28946144>

First trimester vaginal ureaplasma biovar colonization and preterm birth: results of a prospective multicenter study

<https://www.ncbi.nlm.nih.gov/pubmed/28934751>

Temperature probe placement during preterm infant resuscitation: a randomised trial

<https://www.ncbi.nlm.nih.gov/pubmed/28934746>

Early electroencephalography suppression and postnatal morbidities correlate with cerebral volume at term-equivalent age in very preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/28934743>

Impact of minimally invasive surfactant therapy in preterm infants at 29-32 weeks gestation

<https://www.ncbi.nlm.nih.gov/pubmed/28922658>

### **American Journal of Perinatology**

Management of the third stage of labor: how delayed umbilical cord clamping can affect neonatal outcome

<http://www.ncbi.nlm.nih.gov/pubmed/28591905>

Melatonin and neonatal sepsis: a promising antioxidant adjuvant agent

<http://www.ncbi.nlm.nih.gov/pubmed/28704851>

Oropharyngeal administration of colostrum increases salivary secretory IgA levels in very low-birth-weight infants

<http://www.ncbi.nlm.nih.gov/pubmed/28575910>

Association of resident duty hour reform and neonatal outcomes of very preterm infants

<http://www.ncbi.nlm.nih.gov/pubmed/28582791>

A self-inflating bag may cause hypocapnia in a rabbit model of manual ventilation compared to the t-piece resuscitator

<http://www.ncbi.nlm.nih.gov/pubmed/28614868>

Prospective comparison of Enfamil and Similac liquid human milk fortifier on clinical outcomes in premature infants

<http://www.ncbi.nlm.nih.gov/pubmed/28637062>

Multifetal pregnancy reduction of trichorionic triplet gestations: what is the benefit?

<http://www.ncbi.nlm.nih.gov/pubmed/28637061>

Angles, traction, and time after delivery of fetal head: interobserver variation of novel visual analogs

<http://www.ncbi.nlm.nih.gov/pubmed/28651257>

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

Isolated neonatal MRI punctate white matter lesions in very preterm neonates and quality of life at school age

<https://www.ncbi.nlm.nih.gov/pubmed/28854519>

Intestinal perforation in the premature infant

<https://www.ncbi.nlm.nih.gov/pubmed/28854518>

The effect of meconium exposure on the expression and differentiation of amniotic fluid mesenchymal stem cells

<https://www.ncbi.nlm.nih.gov/pubmed/28854517>

Risk of morbidity following catheter removal among neonates with catheter associated bloodstream infection

<https://www.ncbi.nlm.nih.gov/pubmed/28854516>

Intravenous immunoglobulin in the management of a rare cause of hemolytic disease of the newborn: anti-SARA antibodies

<https://www.ncbi.nlm.nih.gov/pubmed/28854515>

Reduction in necrotizing enterocolitis and improved outcomes in preterm infants following routine supplementation with lactobacillus GG in combination with bovine lactoferrin

<https://www.ncbi.nlm.nih.gov/pubmed/28854514>

Preoperative metabolic acidosis in infants with gastroschisis

<https://www.ncbi.nlm.nih.gov/pubmed/28854513>

Cerebral oxygenation and desaturations in preterm infants - a longitudinal data analysis

<https://www.ncbi.nlm.nih.gov/pubmed/28854512>

Neonatal complex arrhythmias possibly related to a TTN mutation

<https://www.ncbi.nlm.nih.gov/pubmed/28854511>

Troponin-T as a biomarker in neonates with perinatal asphyxia

<https://www.ncbi.nlm.nih.gov/pubmed/28854510>

The influence of the built environment on adverse birth outcomes

<https://www.ncbi.nlm.nih.gov/pubmed/28854508>

Improving handover between the transport team and neonatal intensive care unit staff in neonatal transports using the plan-do-study-act tool

<https://www.ncbi.nlm.nih.gov/pubmed/28854507>

Transfusion-related acute lung injury following PDA ligation in a preterm neonate

<https://www.ncbi.nlm.nih.gov/pubmed/28854506>

Impact of prenatal diagnosis of fetus-in-fetu

<https://www.ncbi.nlm.nih.gov/pubmed/28854505>

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

Folic acid level and preterm birth among Sudanese women (PDF)

<https://mhnpjournal.biomedcentral.com/articles/10.1186/s40748-017-0065-x>

Nuchal cord and its implications (PDF)

<https://mhnpjournal.biomedcentral.com/articles/10.1186/s40748-017-0068-7>

Docosahexaenoic acid and the preterm infant (PDF)

<https://mhnpjournal.biomedcentral.com/articles/10.1186/s40748-017-0061-1>

NEC-zero recommendations from scoping review of evidence to prevent and foster timely recognition of necrotizing enterocolitis (PDF)

<https://mhnpjournal.biomedcentral.com/articles/10.1186/s40748-017-0062-0>

### **Neoreviews**

Thermoregulation: advances in preterm infants

<http://neoreviews.aappublications.org/content/18/12/e692>

Case 1: Fever, rash, and hyperleukocytosis in a newborn

<http://neoreviews.aappublications.org/content/18/12/e712>

Case 2: Neonate with an eye mask

<http://neoreviews.aappublications.org/content/18/12/e715>

Strip of the month: Uterine rupture complicating a vaginal trial of labor

<http://neoreviews.aappublications.org/content/18/12/e721>

An acute event in a newborn

<http://neoreviews.aappublications.org/content/18/12/e717>

A cyst in the umbilical cord

<http://neoreviews.aappublications.org/content/18/12/e729>

### **JAMA Pediatrics**

Anesthetics and cognitive impairments in developing children. What is our responsibility?

<http://www.ncbi.nlm.nih.gov/pubmed/28973500>

Prenatal air pollution and newborns' predisposition to accelerated biological aging

<http://www.ncbi.nlm.nih.gov/pubmed/29049509>

Association between early-life antibiotic use and the risk of islet or celiac disease autoimmunity

<http://www.ncbi.nlm.nih.gov/pubmed/29052687>

Association of acute kidney injury with concomitant vancomycin and piperacillin/tazobactam treatment among hospitalized children

<http://www.ncbi.nlm.nih.gov/pubmed/28973124>

Use of exome sequencing for infants in intensive care units. Ascertainment of severe single-gene disorders and effect on medical management

<http://www.ncbi.nlm.nih.gov/pubmed/28973083>

### **BMC Pediatrics**

Low birth weight contributed to increased serum IL-6 levels in infantile respiratory syncytial virus infection

<https://www.ncbi.nlm.nih.gov/pubmed/29246125>

Enteral vitamin A for reducing severity of bronchopulmonary dysplasia in extremely preterm infants: a randomised controlled trial

<https://www.ncbi.nlm.nih.gov/pubmed/29246130>

### **Pediatric Critical Care Medicine**

Extubation failure is associated with increased mortality following first stage single ventricle reconstruction operation

<https://www.ncbi.nlm.nih.gov/pubmed/28922269>

Neutrophil phenotype correlates with postoperative inflammatory outcomes in infants undergoing cardiopulmonary bypass

<https://www.ncbi.nlm.nih.gov/pubmed/29068910>

Discussing benefits and risks of tracheostomy: what physicians actually say

<https://www.ncbi.nlm.nih.gov/pubmed/28938289>

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

Outcomes of a coaching-based WHO safe childbirth checklist program in India

<https://www.ncbi.nlm.nih.gov/pubmed/29236628>

Improving birth outcomes in low- and middle-income countries

<https://www.ncbi.nlm.nih.gov/pubmed/29236634>

The timing of cord clamping for preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/29262278>

### **Lancet**

Mapping under-5 and neonatal mortality in Africa, 2000–15: a baseline analysis for the sustainable development goals

<https://www.ncbi.nlm.nih.gov/pubmed/28958464>

An update on Zika virus infection

<https://www.ncbi.nlm.nih.gov/pubmed/28647173>

Changes in cause-specific neonatal and 1–59-month child mortality in India from 2000 to 2015: a nationally representative survey

<https://www.ncbi.nlm.nih.gov/pubmed/28939096>

### **JAMA**

The success of state newborn screening policies for critical congenital heart disease

<https://www.ncbi.nlm.nih.gov/pubmed/29209703>

Association of US state implementation of newborn screening policies for critical congenital heart disease with early infant cardiac deaths

<https://www.ncbi.nlm.nih.gov/pubmed/29209720>

### **BMJ**

Vitamin D supplementation during pregnancy: state of the evidence from a systematic review of randomised trials

<https://www.ncbi.nlm.nih.gov/pubmed/29187358>

Perinatal pathologists have a vital role in stillbirth review

<https://www.ncbi.nlm.nih.gov/pubmed/29212763>

### **Pediatric Infectious Disease Journal**

Should first-line empiric treatment strategies for neonates cover coagulase-negative staphylococcal infections in Kenya?

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Outbreak caused by Escherichia coli O18:K1H7 sequence type 95 in a neonatal intensive care unit in Barcelona, Spain

<https://www.ncbi.nlm.nih.gov/pubmed/28650938>

### **Pediatric Cardiology**

Prenatal echocardiographic predictors of postnatal management strategy in the fetus with right ventricle hypoplasia and pulmonary atresia or stenosis

<http://www.ncbi.nlm.nih.gov/pubmed/28770306>

Predictors of mortality in children with pulmonary atresia with intact ventricular septum

<http://www.ncbi.nlm.nih.gov/pubmed/28871366>

Post-operative outcomes in children undergoing Fontan palliation in a regionalized surgical system

<http://www.ncbi.nlm.nih.gov/pubmed/28831564>

The impact of 22q11.2 microdeletion on cardiac surgery postoperative outcome

<http://www.ncbi.nlm.nih.gov/pubmed/28940032>

Anatomic repair of congenitally corrected transposition of the great arteries: single-center intermediate-term experience

<http://www.ncbi.nlm.nih.gov/pubmed/28918529>

## **Pediatric Neurology**

The dreadful knowledge of truth: newborn screening in the modern age

<http://www.ncbi.nlm.nih.gov/pubmed/29173969>

A historical and current review of newborn screening for neuromuscular disorders from around the world: lessons for the United States

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Variability in preferred management of electrographic seizures in neonatal hypoxic ischemic encephalopathy

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Visual and quantitative electroencephalographic analysis in healthy term neonates within the first six hours and the third day of life

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Breastfeeding during infancy is associated with a lower future risk of pediatric multiple sclerosis

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## **Obstetrics and Gynecology**

Travel characteristics and pretravel health care among pregnant or breastfeeding U.S. women preparing for international travel

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Progesterone for prevention of preterm birth: shortcomings and unintended consequences of the Orphan Drug Act

<https://www.ncbi.nlm.nih.gov/pubmed/29112651>

Practice bulletin no. 187 summary: neural tube defects

<https://www.ncbi.nlm.nih.gov/pubmed/29189691>

## **American Journal of Obstetrics & Gynecology**

The use of intrapartum ultrasound to diagnose malpositions and cephalic malpresentations

<https://www.ncbi.nlm.nih.gov/pubmed/28743440>

Management of premature rupture of membranes at term: the need to correct a recurring mistake in articles, chapters, and recommendations of professional organizations

<https://www.ncbi.nlm.nih.gov/pubmed/28893527>

Brief latency after premature rupture of the membranes at term: correction of a propagated error

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The prediction of fetal death with a simple maternal blood test at 24-28 weeks: a role for angiogenic index-1 (PIGF/sVEGFR-1 ratio)

<https://www.ncbi.nlm.nih.gov/pubmed/29037482>

Altered angiogenesis as a common mechanism underlying preterm birth, small for gestational age, and stillbirth in women living with HIV

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Aspirin for evidence-based preeclampsia prevention trial: influence of compliance on beneficial effect of aspirin in prevention of preterm preeclampsia

<https://www.ncbi.nlm.nih.gov/pubmed/28888591>

Hydralazine vs nifedipine for acute hypertensive emergency in pregnancy: a randomized controlled trial

<https://www.ncbi.nlm.nih.gov/pubmed/28867601>

New labor management guidelines and changes in cesarean delivery patterns

<https://www.ncbi.nlm.nih.gov/pubmed/29037483>

Positive predictive value estimates for cell-free noninvasive prenatal screening from data of a large referral genetic diagnostic laboratory (PDF)

[http://www.ajog.org/article/S0002-9378\(17\)31187-0/pdf](http://www.ajog.org/article/S0002-9378(17)31187-0/pdf)

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