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Section on Neonatal-Perinatal Medicine

ARTICLES OF INTEREST – October 2019

[Use of a modified early-onset sepsis risk calculator for neonates exposed to chorioamnionitis](#)

Sloane AJ, Coleman C, Carola DL, et al. *J Pediatr*.

The authors sought to validate the recently modified Kaiser Permanente early-onset sepsis (EOS) calculator with a higher baseline incidence in chorioamnionitis exposed neonates. The risk and management categories were calculated using the calculator with an EOS incidence of 4/1000. The results were compared with a previous analysis of the same cohort that used an EOS incidence of 0.5/1000. When using an EOS risk of 4 of 1000 in infants exposed to mothers with chorioamnionitis, the EOS calculator has the ability to capture an increased number of neonates with culture-positive EOS. However, this change also leads to nearly a 3-fold increase in the use of empiric antibiotics and an evaluation with blood culture in almost all infants born to mothers with chorioamnionitis.

[Morbidity of persistent pulmonary hypertension of the newborn in the first year of life](#)

Steurer MA, Baer RJ, Oltman S, et al. *J Pediatr*.

This population-based study examined an administrative database which included 7,847 infants, ≥ 34 weeks' gestational age diagnosed with PPHN between 2005 to 2012 in California. The primary outcome was defined as post-discharge mortality or hospital readmission during the first year of life. Compared to 2,477 infants without PPHN, infants with mild PPHN had an adjusted risk ratio of 2.2 (95% CI, 2.0-2.5), infants with congenital diaphragmatic hernia as an etiology for PPHN had an adjusted risk ratio of 8.6 (95% CI, 7.0-10.6), and infants with meconium aspiration syndrome as an etiology had an adjusted risk ratio of 4.0 (95% CI, 3.6-4.4)

[Repurposing azithromycin for neonatal neuroprotection](#)

Barks JDE, Liu Y, Wang L, et al. *Pediatr Res*.

Using a neonatal rodent model of hypoxic ischemic brain injury, the authors evaluated the neuroprotective efficacy of azithromycin, a widely available antibiotic with anti-inflammatory properties. Effects of various doses as well as timing of administration was also evaluated. Outcomes included measures of sensorimotor function and brain damage by neuropathology. All azithromycin doses improved function and reduced brain damage compared to saline controls, with dose dependent efficacy and improved outcomes noted with 3 injections over 48hrs. The authors concluded that with their result demonstrating improved functional and neuropathology outcomes, azithromycin is an attractive candidate drug to evaluate for neonatal neuroprotection in clinical trials.

[Elective induction of labor at 39 weeks compared with expectant management: a meta-analysis of cohort studies](#)

Grobman WA and Caughey AB. *Am J Obstet Gynecol*.

In this systematic review and meta-analysis of 6 cohort studies, the authors sought to assess whether elective induction of labor at 39 weeks among low-risk nulliparous women has reduced the chance of cesarean and other adverse maternal and perinatal outcomes, outside of research settings. They identified 6 cohort studies out of the initial 375 studies shortlisted that met inclusion criteria, with 66,019 women undergoing elective labor induction at 39 weeks and 584,390 undergoing expectant management. Elective induction at 39 weeks was associated with a significantly lower frequency of cesarean delivery, peripartum infection, neonatal respiratory morbidity, meconium aspiration syndrome NICU admission and perinatal mortality.

[Controlled trial of two incremental milk-feeding rates in preterm infants](#)

Dorling J, Abbott J, Berrington J, et al. *N Engl J Med*.

This is a prospective multicenter randomized control trial comparing slower feed increments (18ml/kg/day) to faster increments (30ml/kg/day) involving 2804 infants (born <32 weeks or <1500g) born between 2013 to 2015 from 55 hospitals. The faster group reached full feeds at a median of 7 days vs 9 days in slower group. The study showed no significant difference in survival without moderate or severe neurodevelopmental disability at 24 months (68.1% vs 65.5%, slower vs faster increment groups respectively; p=0.16). Late onset sepsis, necrotizing enterocolitis, death during hospitalization, weight and head-circumference at discharge were not different between the groups.

[Prevalence of survival without major comorbidities among adults born prematurely](#)

Crump C, Winkleby MA, Sundquist J, et al. *JAMA*.

This is a national cohort study of all 2 566 699 persons born in Sweden between 1973 and 1997, followed up for survival and comorbidities through December 2015. Median age was 29.8 years at the end of the study. The Adolescent and Young Adult Health Outcomes and Patient Experience (AYA HOPE) Comorbidity Index was used to define comorbidities. Further stratification of the 5.8% born preterm showed that 54.6% were alive with no comorbidities vs 63% for persons born full term, with a much lower prevalence of 22.3% for those born extremely preterm. The study concluded that majority survived to adulthood without major comorbidities, with significantly worse outcomes in those born extremely preterm.

[Surfactant plus budesonide decreases lung and systemic responses to injurious ventilation in preterm sheep](#)

Hillman NH, Kothe TB, Schmidt AF, et al. *Am J Physiol Lung Cell Mol Physiol*.

To test whether Budesonide and surf (surf) would decrease the injury from injurious and normal tidal volume (VT) ventilation, the authors exposed preterm sheep to normal VT + surf (prior to ventilation) or injurious VT (high pressure, 100% O₂ prior to surf + saline or surf + budesonide). They found that the addition of budesonide to surf improved lung physiology, and decreased pro-inflammatory cytokines in the lung, liver, and brain to levels similar to lambs receiving normal VT.

[Impact of peri-intraventricular haemorrhage and periventricular leukomalacia in the neurodevelopment of preterms: A systematic review and meta-analysis.](#)

Gotardo JW, Volkmer NFV, Stangler GP, et al. PLoS One.

To determine the impact of PVL and PIVH on the incidence of cerebral palsy (CP) and development impairment in preterm neonates, the authors performed a meta-analysis using established databases. They found no evidence that PIVH causes impairment in neuropsychomotor development though newer studies showed an increased risk for lower intelligence in severe lesions. They also found that children with any PIVH, especially those < 1000 grams and severe PIVH, are at increased risk of developing CP, as well as children with PVL.

[Lack of equipoise in the PDA-tolerate trial: a comparison of eligible infants enrolled in the trial and those treated outside the trial](#)

Liebowitz M, Katheria A, Sauberan J, et al. *J Pediatr*.

The PDA-TOLERATE trial randomized infants with moderate or large PDA born <28 weeks to observation or PDA treatment. 202 infants were randomized, and there were no overall differences in any primary or secondary outcome. This report compares the 202 PDA-TOLERATE patients to 137 patients who were not eligible for randomization due to “lack-of-physician-eupoise” (LPE). The LPE group was treated prior to randomization based on a feeling they were too sick to wait for randomization. There were important differences in clinical characteristics between the groups. The LPE group was less mature and required more respiratory support but had earlier closure of the ductus and lower mortality. LPE treatment at ≤5 days of age was associated with decreased mortality and decreased BPD compared to LPE treatment ≥6 days of age. This suggests there may be a benefit of early treatment in a select group of premature neonates; however, optimal timing and patient selection remains unclear.

Pediatrics

Newborn screening for sickle cell disease using point-of-care testing in low-income setting

<https://www.ncbi.nlm.nih.gov/pubmed/31530717>

Neonatal CPAP for respiratory distress across Malawi and mortality

<https://www.ncbi.nlm.nih.gov/pubmed/31540968>

Journal of Pediatrics

The holy grail of ascertainment of early-onset neonatal sepsis

<https://www.ncbi.nlm.nih.gov/pubmed/31256915>

Altered functional brain network integration, segregation, and modularity in infants born very preterm at term-equivalent age

<https://www.ncbi.nlm.nih.gov/pubmed/31358292>

Volume of neonatal care and survival without disability at 2 years in very preterm infants: results of a French national cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/31280891>

Parent preferences regarding home oxygen use for infants with bronchopulmonary dysplasia

<https://www.ncbi.nlm.nih.gov/pubmed/31256913>

A prospective study of parent health-related quality of life before and after discharge from the neonatal intensive care unit

<https://www.ncbi.nlm.nih.gov/pubmed/31256914>

Upper airway pathology contributes to respiratory symptoms in children born very preterm

<https://www.ncbi.nlm.nih.gov/pubmed/31402143>

Use of a modified early-onset sepsis risk calculator for neonates exposed to chorioamnionitis

<https://www.ncbi.nlm.nih.gov/pubmed/31208783>

Morbidity of persistent pulmonary hypertension of the newborn in the first year of life

<https://www.ncbi.nlm.nih.gov/pubmed/31399244>

Social adjustment in adolescents born very preterm: evidence for a cognitive basis of social problems

<https://www.ncbi.nlm.nih.gov/pubmed/31402139>

T-cell receptor excision circles in newborns with congenital heart disease

<https://www.ncbi.nlm.nih.gov/pubmed/31277900>

Damaging variants in proangiogenic genes impair growth in fetuses with cardiac defects

<https://www.ncbi.nlm.nih.gov/pubmed/31227283>

Prematurity as an independent risk factor for the development of pulmonary disease

<https://www.ncbi.nlm.nih.gov/pubmed/31262531>

Making a genetic diagnosis in a level iv neonatal intensive care unit population: who, when, how, and at what cost?

<https://www.ncbi.nlm.nih.gov/pubmed/31255390>

Percutaneous closure of the patent ductus arteriosus in very low weight infants: considerations following us food and drug administration approval of a novel device

<https://www.ncbi.nlm.nih.gov/pubmed/31255391>

Lack of equipoise in the PDA-tolerate trial: a comparison of eligible infants enrolled in the trial and those treated outside the trial

<https://www.ncbi.nlm.nih.gov/pubmed/31255386>

Elevated nucleated red blood cells in neonates with down syndrome and pulmonary hypertension

<https://www.ncbi.nlm.nih.gov/pubmed/31262527>

Unicoronal synostosis

<https://www.ncbi.nlm.nih.gov/pubmed/31255389>

Dieulafoy lesion: an unusual cause of excessive gastric bleeding in a neonate

<https://www.ncbi.nlm.nih.gov/pubmed/31201025>

Myofibroma—a common congenital lesion

<https://www.ncbi.nlm.nih.gov/pubmed/31201027>

Pediatric Research

Repurposing azithromycin for neonatal neuroprotection

<https://www.ncbi.nlm.nih.gov/pubmed/31100754>

Increased miR-214 expression suppresses cell migration and proliferation in Hirschsprung disease by interacting with PLAGL2

<https://www.nature.com/articles/s41390-019-0324-9>

How skin anatomy influences transcutaneous bilirubin determinations: an in vitro evaluation

<https://www.nature.com/articles/s41390-019-0471-z>

Blunted sympathoadrenal activation accompanies hemodynamic stability after early ventilation and delayed cord clamping at birth in preterm lambs

<https://www.ncbi.nlm.nih.gov/pubmed/31181565>

Caspase-1 involves in bilirubin-induced injury of cultured rat cortical neurons

<https://www.ncbi.nlm.nih.gov/pubmed/31195405>

Placental clearance/synthesis of neurobiomarkers GFAP and UCH-L1 in healthy term neonates and those with moderate–severe neonatal encephalopathy

<https://www.ncbi.nlm.nih.gov/pubmed/31132788>

Fetal exposure to mercury and lead from intrauterine blood transfusions

<https://www.ncbi.nlm.nih.gov/pubmed/31216568>

Cerebral oxygenation and blood flow in normal term infants at rest measured by a hybrid near-infrared device (BabyLux)

<https://www.ncbi.nlm.nih.gov/pubmed/31234195>

Comparison of the INTERGROWTH-21st standard and a new reference for head circumference at birth among newborns in Southern China

<https://www.ncbi.nlm.nih.gov/pubmed/31158843>

Archives of Disease in Childhood - Fetal & Neonatal Edition

Cardiac arrest with pulseless electrical activity rhythm in newborn infants: a case series (PDF)

<https://fn.bmj.com/content/fetalneonatal/104/6/F572.full.pdf>

Neonatal outcomes in preterm multiples receiving delayed cord clamping (PDF)

<https://fn.bmj.com/content/fetalneonatal/104/6/F575.full.pdf>

Respiratory monitors to teach newborn facemask ventilation: a randomised trial

<https://www.ncbi.nlm.nih.gov/pubmed/30636691>

Aeration strategy at birth influences the physiological response to surfactant in preterm lambs

<https://www.ncbi.nlm.nih.gov/pubmed/31498776>

Validation of the disposable T-piece resuscitator (Neo-Tee): a bench study

<https://www.ncbi.nlm.nih.gov/pubmed/30782967>

Rapidly maturing fentanyl clearance in preterm neonates

<https://www.ncbi.nlm.nih.gov/pubmed/31498775>

New short-term heat inactivation method of cytomegalovirus (CMV) in breast milk: impact on CMV inactivation, CMV antibodies and enzyme activities

<https://www.ncbi.nlm.nih.gov/pubmed/30728181>

Effects of tracheal occlusion on the neonatal cardiopulmonary transition in an ovine model of diaphragmatic hernia

<https://www.ncbi.nlm.nih.gov/pubmed/30728180>

Neonatal cardiopulmonary transition in an ovine model of congenital diaphragmatic hernia

<https://www.ncbi.nlm.nih.gov/pubmed/30728182>

Assessing the deprivation gap in stillbirths and neonatal deaths by cause of death: a national population-based study

<https://www.ncbi.nlm.nih.gov/pubmed/30842208>

Duration of mechanical ventilation and neurodevelopment in preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/30894396>

Minimally invasive surfactant therapy failure: risk factors and outcome

<https://www.ncbi.nlm.nih.gov/pubmed/31036700>

One-year outcomes of infants born with congenital diaphragmatic hernia: a national population cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/31154421>

Cerebral oxygenation and blood flow in term infants during postnatal transition: BabyLux project

<https://www.ncbi.nlm.nih.gov/pubmed/31085677>

Less invasive surfactant administration (LISA): chances and limitations (PDF)

<https://fn.bmj.com/content/fetalneonatal/104/6/F655.full.pdf>

Radiological feature of skip-segment Hirschsprung's disease

<https://www.ncbi.nlm.nih.gov/pubmed/31401615>

Congenital scars: a rare presentation of neonatal lupus

<https://www.ncbi.nlm.nih.gov/pubmed/31362938>

Scrotal ulcerations in a newborn secondary to unnoticed prenatal intestinal perforation

<https://www.ncbi.nlm.nih.gov/pubmed/31273008>

Letter: Current clinical practice in neonatologist-performed echocardiography in the UK

<https://www.ncbi.nlm.nih.gov/pubmed/30737242>

Letter: Tactile stimulation in the delivery room: do we practice what we preach?

<https://www.ncbi.nlm.nih.gov/pubmed/30824474>

Letter: Compromised pressure and flow during suction mask ventilation

<https://www.ncbi.nlm.nih.gov/pubmed/30824473>

Letter: 'Catch-up' growth of infants with IUGR does not significantly contribute to the whole-cohort weight gain pattern

<https://www.ncbi.nlm.nih.gov/pubmed/31362940>

Journal of Perinatology

The journal of perinatology turns a page

<https://www.ncbi.nlm.nih.gov/pubmed/31551512>

Sleep in infants with myelomeningocele—an opportunity to improve outcomes?

<https://www.ncbi.nlm.nih.gov/pubmed/31420583>

Transpyloric feeds and bronchopulmonary dysplasia

<https://www.ncbi.nlm.nih.gov/pubmed/31413309>

Reply to: Transpyloric feeds and bronchopulmonary dysplasia

<https://www.ncbi.nlm.nih.gov/pubmed/31431655>

Postnatal intervention for the treatment of FNAIT: a systematic review

<https://www.ncbi.nlm.nih.gov/pubmed/30971767>

The association of patient preferences and attitudes with trial of labor after cesarean

<https://www.ncbi.nlm.nih.gov/pubmed/31270433>

Amniotic fluid transitioning from clear to meconium stained during labor—prevalence and association with adverse maternal and neonatal outcomes

<https://www.ncbi.nlm.nih.gov/pubmed/31320720>

Health related quality of life (HRQoL) in mothers of premature infants at NICU discharge

<https://www.ncbi.nlm.nih.gov/pubmed/31417142>

Automated movement analysis to predict motor impairment in preterm infants: a retrospective study

<https://www.ncbi.nlm.nih.gov/pubmed/31431653>

Racial association and pharmacotherapy in neonatal opioid withdrawal syndrome

<https://www.ncbi.nlm.nih.gov/pubmed/31388115>

Treating infants with neonatal abstinence syndrome: an examination of three protocols

<https://www.ncbi.nlm.nih.gov/pubmed/31383946>

Extracorporeal membrane oxygenation and bloodstream infection in congenital diaphragmatic hernia

<https://www.ncbi.nlm.nih.gov/pubmed/31383944>

Families as educators: a family-centered approach to teaching communication skills to neonatology fellows

<https://www.ncbi.nlm.nih.gov/pubmed/31371832>

Transferring preterm infants into an open cot using a heated mattress at ≤ 1400 g

<https://www.ncbi.nlm.nih.gov/pubmed/31388119>

Tube feeding outcomes of infants in a Level IV NICU

<https://www.ncbi.nlm.nih.gov/pubmed/31388118>

Sleep-disordered breathing: an under-recognized problem in infants with myelomeningocele defects regardless of timing of repair

<https://www.ncbi.nlm.nih.gov/pubmed/31320719>

Prevention of excessive hypothermia in infants with hypoxic ischemic encephalopathy prior to admission to a quaternary care center: a neonatal outreach educational project

<https://www.ncbi.nlm.nih.gov/pubmed/31092886>

Journal Club: Morphine compared to placebo for procedural pain in preterm infants: safety, efficacy and equipoise

<https://www.nature.com/articles/s41372-019-0476-9.pdf>

Response to Dr. Kumar: Cord milking in preterm

<https://www.ncbi.nlm.nih.gov/pubmed/31413310>

Neonatology

Evidence-based practice: improving the quality of perinatal care

<https://www.ncbi.nlm.nih.gov/pubmed/31167207>

Heart rate monitoring in newborn babies: a systematic review (PDF)

<https://www.karger.com/article/pdf/499675>

Surfactant administration via thin catheter: a practical guide

<https://www.ncbi.nlm.nih.gov/pubmed/31461712>

Neurodevelopmental outcomes in preterm infants with white matter injury using a new MRI classification

<https://www.ncbi.nlm.nih.gov/pubmed/31108490>

Patent ductus arteriosus and the effects of its late closure in preterm infants with severe bronchopulmonary dysplasia (PDF)

<https://www.karger.com/article/pdf/500269>

The clinical risk index for babies ii for prediction of time-dependent mortality and short-term morbidities in very low birth weight infants

<https://www.ncbi.nlm.nih.gov/pubmed/31307048>

Delayed cord clamping versus early cord clamping in elective cesarean section: a randomized controlled trial

<https://www.ncbi.nlm.nih.gov/pubmed/31266035>

Cardiac output measurement using the ultrasonic cardiac output monitor: a validation study in newborn infants

<https://www.ncbi.nlm.nih.gov/pubmed/31326967>

Immune system regulation affected by a murine experimental model of bronchopulmonary dysplasia: genomic and epigenetic findings

<https://www.ncbi.nlm.nih.gov/pubmed/31454811>

Cardiorespiratory physiology following minimally invasive surfactant therapy in preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/31487729>

Commentary on "infant formulas containing hydrolysed protein for prevention of allergic disease and food allergy" (PDF)

<https://www.karger.com/article/pdf/495316>

Mitochondrial disease caused by a novel homozygous mutation (gly106del) in the sco1 gene

<https://www.ncbi.nlm.nih.gov/pubmed/31352446>

Life-threatening extreme methemoglobinemia during standard dose nitric oxide therapy

<https://www.ncbi.nlm.nih.gov/pubmed/31454813>

Topical coconut oil contributes to systemic monolaurin levels in very preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/31330518>

Developmental outcomes following topical coconut oil in very preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/31401634>

American Journal of Perinatology

The accuracy and cost-effectiveness of selective fetal echocardiography for the diagnosis of congenital heart disease in patients with pregestational diabetes stratified by hemoglobin A1C

<https://www.ncbi.nlm.nih.gov/pubmed/30991442>

Sex-specific differences in late preterm neonatal outcomes

<https://www.ncbi.nlm.nih.gov/pubmed/30991441>

Health care professionals' perceptions about sensory-based interventions in the NICU

<https://www.ncbi.nlm.nih.gov/pubmed/30577058>

Pilot study of pharyngoesophageal dysmotility mechanisms in dysphagic infants of diabetic mothers

<https://www.ncbi.nlm.nih.gov/pubmed/30577057>

Variation in gastrostomy tube placement in premature infants in the United States

<https://www.ncbi.nlm.nih.gov/pubmed/30577056>

Patterns of preterm birth among women of native Hawaiian and Pacific Islander descent

<https://www.ncbi.nlm.nih.gov/pubmed/30577054>

Evolution of the bacillus Calmette–Guerin scar and its association with birth and pregnancy characteristics in a prospective cohort of infants in Iquitos, Peru

<https://www.ncbi.nlm.nih.gov/pubmed/30583300>

Understanding state-level variations in the US infant mortality: 2000 to 2015

<https://www.ncbi.nlm.nih.gov/pubmed/30583299>

Updating a perinatal risk scoring system to predict infant mortality

<https://www.ncbi.nlm.nih.gov/pubmed/30593081>

Early-onset neonatal sepsis and antibiotic use in northeast Thailand

<https://www.ncbi.nlm.nih.gov/pubmed/30597491>

Outcomes of congenital diaphragmatic hernia in one of the twins

<https://www.ncbi.nlm.nih.gov/pubmed/30609432>

Antepartum contraceptive counseling in women with preterm birth

<https://www.ncbi.nlm.nih.gov/pubmed/30609431>

Maternal Health, Neonatology and Perinatology

Perceptions of health professionals regarding minimally invasive tissue sampling (MITS) to identify the cause of death in stillbirths and neonates: results from a qualitative study (PDF)

<https://mhnjournal.biomedcentral.com/track/pdf/10.1186/s40748-019-0112-x>

Application of 4% chlorhexidine to the umbilical cord stump of newborn infants in lower income countries: a systematic review and meta-analysis (PDF)

<https://mhnjournal.biomedcentral.com/track/pdf/10.1186/s40748-019-0111-y>

Neoreviews

Historical perspectives: low birthweight and preterm infants in Indonesia

<https://neoreviews.aappublications.org/content/20/10/e548>

Maternal mortality in the United States: updates on trends, causes, and solutions

<https://neoreviews.aappublications.org/content/20/10/e561>

Fetal Doppler assessment in neonatal care: analysis of fetal Doppler abnormalities and neonatal outcomes

<https://neoreviews.aappublications.org/content/20/10/e575>

Update on prenatal laboratory screening: joint commission required elements

<https://neoreviews.aappublications.org/content/20/10/e584>

Case 1: apnea and hypotonia in a 1-month-old infant

<https://neoreviews.aappublications.org/content/20/10/e592>

Case 2: abdominal distention in a term infant with unilateral ventriculomegaly

<https://neoreviews.aappublications.org/content/20/10/e594>

Case 3: hydrops fetalis, pancytopenia, and hemolytic jaundice in a preterm neonate: a diagnosis made after 3 months

<https://neoreviews.aappublications.org/content/20/10/e597>

Strip of the month: preterm premature rupture of membranes with recurrent variable decelerations

<https://neoreviews.aappublications.org/content/20/10/e600>

A neonate with facial asymmetry

<https://neoreviews.aappublications.org/content/20/10/e608>

Intrauterine fetal transfusion

<https://neoreviews.aappublications.org/content/20/10/e612>

JAMA Pediatrics

The role of equity in US states' breastfeeding policies

<https://www.ncbi.nlm.nih.gov/pubmed/31403682>

Association between maternal fluoride exposure during pregnancy and IQ scores in offspring in Canada

<https://www.ncbi.nlm.nih.gov/pubmed/31424532>

National trends in the provision of human milk at hospital discharge among very low-birth-weight infants

<https://www.ncbi.nlm.nih.gov/pubmed/31479097>

Risk of wrong-patient orders among multiple vs singleton births in the neonatal intensive care units of 2 integrated health care systems

<https://www.ncbi.nlm.nih.gov/pubmed/31449284>

BMC Pediatrics

Thyroid dysfunction in preterm infants born before 32 gestational weeks (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1792-0>

Clinical findings in congenital infection by Zika virus: a retrospective study in a reference hospital in Central-West Brazil (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1762-6>

Effect of skill drills on neonatal ventilation performance in a simulated setting- observation study in Nepal (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1723-0>

Prevalence of exclusive breastfeeding practice in the first six months of life and its determinants in Iran: a systematic review and meta-analysis (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1776-0>

Nasal continuous positive airway pressure with head cap fixation as a contributing factor to extensive scalp necrosis in a preterm neonate with early-onset sepsis and scalp hematoma (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1721-2>

A state-level study of opioid use disorder treatment access and neonatal abstinence syndrome (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1718-x>

Immunoreactive trypsinogen levels in newborn screened infants with an inconclusive diagnosis of cystic fibrosis (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1756-4>

Identifying medication errors in neonatal intensive care units: a two-center study (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1748-4>

Effects of closed-loop automatic control of the inspiratory fraction of oxygen (FiO₂-C) on outcome of extremely preterm infants – study protocol of a randomized controlled parallel group multicenter trial for safety and efficacy (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1735-9>

Mortality and severe morbidity of very preterm infants: comparison of two French cohort studies (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1700-7>

Factors affecting the growth of infants diagnosed with cystic fibrosis by newborn screening (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1727-9>

Initial and delayed thyroid-stimulating hormone elevation in extremely low-birth-weight infants (PDF)

<https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1730-1>

Pediatric Critical Care Medicine

The effect of levosimendan versus milrinone on the occurrence rate of acute kidney injury following congenital heart surgery in infants: a randomized clinical trial

<https://www.ncbi.nlm.nih.gov/pubmed/31274775>

Plasma neutrophil gelatinase-associated lipocalin is associated with acute kidney injury and clinical outcomes in neonates undergoing cardiopulmonary bypass

<https://www.ncbi.nlm.nih.gov/pubmed/31206501>

Short- and long-term outcomes of extremely preterm infants in japan according to outborn/inborn birth status

<https://www.ncbi.nlm.nih.gov/pubmed/31232855>

New England Journal of Medicine

Modeling the placenta with stem cells

<https://www.ncbi.nlm.nih.gov/pubmed/31644851>

Controlled trial of two incremental milk-feeding rates in preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/31597020>

JAMA

Prevalence of survival without major comorbidities among adults born prematurely

<https://www.ncbi.nlm.nih.gov/pubmed/31638681>

Association of maternal gastric bypass surgery with offspring birth defects

<https://www.ncbi.nlm.nih.gov/pubmed/31613339>

BMJ

Association of early postnatal transfer and birth outside a tertiary hospital with mortality and severe brain injury in extremely preterm infants: observational cohort study with propensity score matching (PDF)

<https://www.bmj.com/content/bmj/367/bmj.l5678.full.pdf>

Pediatric Cardiology

Assessment of the fetal myocardial performance index in well-controlled gestational diabetics and to determine whether it is predictive of adverse perinatal outcome

<https://www.ncbi.nlm.nih.gov/pubmed/31324952>

Postnatal outcome following prenatal diagnosis of discordant atrioventricular and ventriculoarterial connections

<https://www.ncbi.nlm.nih.gov/pubmed/31342118>

Propofol formulation affects myocardial function in newborn infants

<https://www.ncbi.nlm.nih.gov/pubmed/31414158>

Pediatric Neurology

Recent advances in craniosynostosis

<https://www.ncbi.nlm.nih.gov/pubmed/31421914>

Hand preference develops across childhood and adolescence in extremely preterm children: the epicure study

<https://www.ncbi.nlm.nih.gov/pubmed/31128891>

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