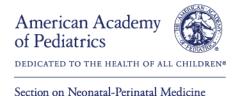
Publications Working Group

Ayan Rajgarhia, Page Editor - Children's Mercy Hospital
Jonathan P. Mintzer - Stony Brook Children's Hospital
Jayasree Nair - University at Buffalo
Craig Nankervis - Nationwide Children's Hospital
Christopher Rouse - The Elliot Hospital + USUHS
Jeffrey Shenberger - Baystate Medical Center
Mark Weems - University of Tennessee Health Science Center



ARTICLES OF INTEREST – March 2019

<u>Pharmacological treatments for neonatal abstinence syndrome a systematic review and network meta-</u> analysis

Disher T, Gullickson C, Singh B, et al. JAMA Pediatr.

In this meta-analysis of 18 randomized clinical trials (N=1072), pharmacologic therapies for neonatal abstinence syndrome were compared for the primary outcome of length of treatment. Length of hospital stay, additional therapies, and adverse events were secondary outcomes. Therapies included buprenorphine, clonidine, diluted tincture of opium and clonidine, diluted tincture of opium, morphine, methadone, and phenobarbital. Sublingual buprenorphine was associated with the shortest length of treatment and length of stay. Monotherapy with either morphine or phenobarbital was associated with the longest length of treatment and the longest length of stay.

Epidemiology of invasive early-onset and late-onset group B Streptococcal disease in the United States, 2006 to 2015 multistate laboratory and population-based surveillance
Nanduri SA, Petit S, Smelser C, et al. *JAMA Pediatr*.

The authors used the Active Bacterial Core surveillance program to describe the incidence rates, case characteristics, antimicrobial resistance, and serotype distribution of early- and late-onset GBS disease in the United States from 2006 to 2015. Early-onset GBS declined from 0.37 to 0.23 per 1000 live births (p<.001), but late-onset disease remained approximately 0.31 per 1000 live births. In early-onset disease, 48% of mothers had no indications for IAP and 22% had indications but did not receive IAP. The 6 most common serotypes (Ia, Ib, II, III, IV, and V) caused 99.3% of early-onset and 99.7% of late-onset cases. No β -lactam resistance was identified.

<u>Neonatal Glycaemia and Neurodevelopmental Outcomes: A Systematic Review and Meta-Analysis.</u> Shah R, Harding J, Brown J, et al. *Neonatology*.

The authors sought to assess the association between neonatal hypoglycaemia on neurodevelopment outcomes in childhood and adolescence. In this systematic review they found that neonatal hypoglycaemia is associated with a two- to threefold increased risk of specific cognitive deficits in early childhood (2–5 years), including visual-motor impairment and executive dysfunction, and general cognitive impairment and literacy and numeracy problems in later childhood (6–11 years). Carefully designed intervention trials are needed to determine the optimal management of neonates at risk of hypoglycaemia to improve long-term outcomes.

<u>Successful use of an artificial placenta to support extremely preterm ovine fetuses at the border of viability</u>

Usuda H, Watanabe S, Saito M, et al. Am J Obstet Gynecol.

The authors utilized an ex-vivo uterine environment (EVE) therapy to support extremely preterm sheep fetuses (600-700 g / 95 d gestation; equivalent to 24 weeks of human gestation) compared to gestational controls (CON). Seven of eight EVE fetuses completed 120 h of therapy. There were no significant inter-group differences in final weight and length, brain weight, IVH, infection, inflammatory markers, or hematologic parameters compared to CON. They conclude that the use of artificial placenta technology, EVE, to support extremely preterm ovine fetuses in a stable, growth-normal state for 120 h is feasible and has the potential for clinical therapy.

<u>Long-term ventilation for children with chronic lung disease of infancy</u> Baker CD. *Curr Opin Pediatr*.

The author reviews the current literature to assist in answering: do infants benefit from tracheostomy placement for chronic ventilation; what is the timing of tracheotomy surgery; what are the optimal strategies for mechanical ventilation; is multidisciplinary care in both the inpatient and outpatient settings feasible; and what is the appropriate time for weaning mechanical ventilation and tracheostomy decannulation? When chronic respiratory insufficiency limits a preterm infant's ability to grow and develop, chronic invasive ventilation may facilitate neurodevelopmental progress and may lead to an improved long-term outcome.

<u>Duration of initial empirical antibiotic therapy and outcomes in very low birth weight infants</u> Ting JY, Roberts A, Sherlock R, et al. *Pediatrics*.

The association of mortality or any major morbidity (severe neurologic injury, retinopathy of prematurity, necrotizing enterocolitis, chronic lung disease, or hospital-acquired infection) and antibiotics was looked at in VLBW who were exposed to antibiotics in the first week of life and did not have culture proven sepsis. Antibiotic exposure for 4-7 days was associated with higher odds of the composite outcome. Each additional day of antibiotic exposure was associated with increased odds of composite outcome.

Should therapeutic hypothermia be offered to babies with mild neonatal encephalopathy in the first 6 h after birth?

El-Dib M, Inder TE, Chalak LF, et al. Pediatr Res.

This article, by an expert panel from the Neonatal Neurocritical Care Special Interest Group annual meeting, summarizes the evidence to date regarding neurodevelopmental outcomes of infants with mild neonatal encephalopathy (both treated and untreated with therapeutic hypothermia). The authors describe animal models for mild hypoxic-ischemic injury and agree that these findings as a whole suggest that early treatment of infants with milder hypoxic-ischemic encephalopathy would likely be effective. The article concludes with a proposed definition of mild neonatal encephalopathy and a framework for a randomized clinical trial.

Efficacy and safety of pulmonary application of corticosteroids in preterm infants with respiratory distress syndrome: a systematic review and meta-analysis

Delara M, Chauhan BF, Le ML, et al. Arch Dis Child Fetal Neonatal Ed.

In a systematic review and meta-analysis, the authors identified 873 potential citations and 12 RCTs evaluating the efficacy and safety of pulmonary application of corticosteroids in preterm infants with RDS. Pulmonary corticosteroid therapy was associated with a significant reduction in the composite outcome of BPD or death (relative risk (RR) 0.85, 95% CI 0.76 to 0.96), incidence of patent ductus

arteriosus (PDA) (RR 0.82, 95% CI 0.74 to 0.92) and pneumonia (RR 0.57, 95% CI 0.35 to 0.92). The authors concluded that pulmonary administration of corticosteroids reduced the incidence of BPD or death, pneumonia, PDA without causing any major side effects in preterm infants with RDS.

<u>Cord milking versus immediate clamping in preterm infants: a randomized controlled trial</u> El-Naggar W, Simpson D, Hussain A, et al. *Arch Dis Child Fetal Neonatal Ed.*

In a single center randomized clinical trial on 73 preterm infants (24-31 weeks GA), the authors evaluated the effect of umbilical cord milking (UCM-3 times) vs immediate cord clamping (ICC). The primary outcome was systemic blood flow as represented by superior vena cava (SVC) flow at 4–6 hrs after birth. Secondary outcomes included cardiac output, neonatal morbidities and mortality. While infants with UCM had higher hemoglobin on admission, there were no differences in primary or other secondary outcomes between the groups. The study concluded that UCM at birth did not result in any adverse outcomes but did not reduce morbidity or mortality in their study population.

OTHER NOTEWORTHY PUBLICATIONS - March, 2019

Pediatrics

Infant regulation and child mental health concerns: a longitudinal study

https://www.ncbi.nlm.nih.gov/pubmed/30737245

Duration of initial empirical antibiotic therapy and outcomes in very low birth weight infants

https://www.ncbi.nlm.nih.gov/pubmed/30819968

Public health surveillance of prenatal opioid exposure in mothers and infants

https://www.ncbi.nlm.nih.gov/pubmed/30655335

Antibiotic stewardship in the neonatal intensive care unit: lessons from oxygen

https://www.ncbi.nlm.nih.gov/pubmed/30819970

Reducing invasive care for low-risk febrile infants through implementation of a clinical pathway

https://www.ncbi.nlm.nih.gov/pubmed/30728272

Congenital methemoglobinemia identified by pulse oximetry screening

https://www.ncbi.nlm.nih.gov/pubmed/30733239

Response from the neonatal resuscitation program (NRP) steering committee

https://www.ncbi.nlm.nih.gov/pubmed/30819973

Journal of Pediatrics

rhIGF-1/rhIGFBP-3 in preterm infants: a phase 2 randomized controlled trial

https://www.ncbi.nlm.nih.gov/pmc/articles/pmc6389415/

The metabolic costs 30 years after preterm birth

https://www.ncbi.nlm.nih.gov/pubmed/30798821

Genetic disorders of lung development

https://www.ncbi.nlm.nih.gov/pubmed/30798833

Thirteen-year outcomes in very preterm children associated with diffuse excessive high signal intensity on neonatal magnetic resonance imaging

https://www.ncbi.nlm.nih.gov/pubmed/30414629

Cardiovascular autonomic control is altered in children born preterm with sleep disordered breathing https://www.ncbi.nlm.nih.gov/pubmed/30442411

Pediatricians advocating breastfeeding: let's start with supporting our fellow pediatricians first https://www.ncbi.nlm.nih.gov/pubmed/30798838

Detrimental impact of low birth weight on circulating number and functional capacity of endothelial progenitor cells in healthy children: role of angiogenic factors

https://www.ncbi.nlm.nih.gov/pubmed/30798839

50 years ago in the journal of pediatrics: a chromosome survey of 2400 normal newborn infants

https://www.ncbi.nlm.nih.gov/pubmed/30798827

Sleep, autonomic control, and preterm birth—complex interrelationships with important health consequences

https://www.ncbi.nlm.nih.gov/pubmed/30798823

A pilot study of soluble form of lox-1 as a novel biomarker for neonatal hypoxic-ischemic encephalopathy

https://www.ncbi.nlm.nih.gov/pubmed/30553539

Parental cannabis use is associated with cannabis initiation and use in offspring

https://www.ncbi.nlm.nih.gov/pubmed/30454963

50 years ago in the journal of pediatrics: normal inner-canthal and outer orbital dimensions

https://www.ncbi.nlm.nih.gov/pubmed/30798837

Metabolic syndrome in very low birth weight young adults and controls: the New Zealand 1986 VLBW study

https://www.ncbi.nlm.nih.gov/pubmed/30545563

Exposure to diabetes in utero is associated with earlier pubertal timing and faster pubertal growth in the offspring: the EPOCH study

https://www.ncbi.nlm.nih.gov/pubmed/30528762

50 years ago in the journal of pediatrics: serum immunoglobulin levels in newborn infants i: evaluation of a radial diffusion plate method

https://www.ncbi.nlm.nih.gov/pubmed/30798840

The association of Mediterranean diet during pregnancy with longitudinal body mass index trajectories and cardio metabolic risk in early childhood

https://www.ncbi.nlm.nih.gov/pubmed/30429079

50 years ago in the journal of pediatrics: a chromosome survey of unselected live-born children with congenital abnormalities.

https://www.ncbi.nlm.nih.gov/pubmed/30798825

Different growth patterns persist at 24 months of age in formula-fed infants randomized to consume a meat- or dairy-based complementary diet from 5 to 12 months of age

https://www.ncbi.nlm.nih.gov/pubmed/30413312

Assessment of hemodynamic parameters in the assessment of a patent ductus arteriosus: it is still a puzzle

https://www.ncbi.nlm.nih.gov/pubmed/30559021

Reply (to Assessment of hemodynamic parameters in the assessment of a patent ductus arteriosus: it is still a puzzle)

https://www.ncbi.nlm.nih.gov/pubmed/30573212

Future research in the immune system of human milk

https://www.ncbi.nlm.nih.gov/pubmed/30528758

Time versus treatment: interpreting longitudinal data analysis of Treprostinil

https://www.ncbi.nlm.nih.gov/pubmed/30559020

Reply (to Time versus treatment: interpreting longitudinal data analysis of Treprostinil)

https://www.ncbi.nlm.nih.gov/pubmed/30559020

Neonatal lung disease associated with *tbx4* mutations

https://www.ncbi.nlm.nih.gov/pubmed/30413314

Diaper rash in an infant with seizures

https://www.ncbi.nlm.nih.gov/pubmed/30392870

Pediatric Research

Spontaneous premature birth as a target of genomic research

https://www.ncbi.nlm.nih.gov/pubmed/30353040

Preventing bronchopulmonary dysplasia: new tools for an old challenge

Should therapeutic hypothermia be offered to babies with mild neonatal encephalopathy in the first 6 h after birth?

https://www.ncbi.nlm.nih.gov/pubmed/30733613

Continuous pulse oximetry and respiratory rate trends predict short-term respiratory and growth outcomes in premature infants

https://www.ncbi.nlm.nih.gov/pubmed/30679791

Osteopontin in human milk and infant formula affects infant plasma osteopontin concentrations https://www.ncbi.nlm.nih.gov/pubmed/30636771

Galectin-3 expression and effect of supplementation in neonatal mice with disseminated Candida albicans infection

https://www.ncbi.nlm.nih.gov/pubmed/30679793

aEEG and neurologic exam findings correlate with hypoxic—ischemic brain damage severity in a piglet survival model

https://www.ncbi.nlm.nih.gov/pubmed/30675020

Effect of polyunsaturated fatty acids on postnatal ileum development using the fat-1 transgenic mouse model

https://www.ncbi.nlm.nih.gov/pubmed/30653193

Maternal folic acid supplementation reduces the severity of cleft palate in Tgf- β 3 null mutant mice https://www.ncbi.nlm.nih.gov/pubmed/30683931

Absence of gut microbial colonization attenuates the sympathoadrenal response to hypoglycemic stress in mice: implications for human neonates

https://www.ncbi.nlm.nih.gov/pubmed/30675019

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

Archives of Disease in Childhood - Fetal & Neonatal Edition

T-piece resuscitators: how do they compare?

https://www.ncbi.nlm.nih.gov/pubmed/29728414

Human milk as a protective factor for bronchopulmonary dysplasia: a systematic review and metaanalysis

https://www.ncbi.nlm.nih.gov/pubmed/29907614

Efficacy and safety of pulmonary application of corticosteroids in preterm infants with respiratory distress syndrome: a systematic review and meta-analysis

https://www.ncbi.nlm.nih.gov/pubmed/29666203

Cord milking versus immediate clamping in preterm infants: a randomized controlled trial

https://www.ncbi.nlm.nih.gov/pubmed/29903720

Breastfeeding outcomes in European NICUs: impact of parental visiting policies

https://www.ncbi.nlm.nih.gov/pubmed/29954880

Dose-interval study of a dual probiotic in preterm infants

https://www.ncbi.nlm.nih.gov/pubmed/29925539

Accuracy of five formulae to determine the insertion length of umbilical venous catheters

https://www.ncbi.nlm.nih.gov/pubmed/29550770

Safety of meningococcal group B vaccination in hospitalized premature infants

https://www.ncbi.nlm.nih.gov/pubmed/29636385

Estimating neonatal length of stay for babies born very preterm

https://www.ncbi.nlm.nih.gov/pubmed/29588296

Detection of exhaled carbon dioxide following intubation during resuscitation at delivery

https://www.ncbi.nlm.nih.gov/pubmed/29550769

***Adverse effects of small for gestational age differ by gestational week among very preterm infants https://www.ncbi.nlm.nih.gov/pubmed/29730594

Nutritional role of amniotic fluid: clues from infants with congenital obstruction of the digestive tract

https://www.ncbi.nlm.nih.gov/pubmed/29666202

Learning from claims: hyperbilirubinemia and kernicterus

https://www.ncbi.nlm.nih.gov/pubmed/29802103

Safe and effective glycemic control in premature infants: observational clinical results from the computerized STAR-GRYPHON protocol

https://www.ncbi.nlm.nih.gov/pubmed/29930148

Pulseless electrical activity: a misdiagnosed entity during asphyxia in newborn infants?

https://www.ncbi.nlm.nih.gov/pubmed/29895572

Does the use of an iodine-containing contrast agent to visualize the PICC tip in preterm babies cause hypothyroidism? A randomized controlled trial

https://www.ncbi.nlm.nih.gov/pubmed/29807945

Time interval for preterm infant weight gain velocity calculation precision

https://www.ncbi.nlm.nih.gov/pubmed/29997166

Postnatal cardiovascular adaptation

https://www.ncbi.nlm.nih.gov/pubmed/30049726

Journal of Perinatology

To transfuse or not transfuse a premature infant: the new complex question

https://www.ncbi.nlm.nih.gov/pubmed/30651578

Neonatologist salary: factors, equity and gender

https://www.ncbi.nlm.nih.gov/pubmed/30617285

Vascular changes in fetal growth restriction: clinical relevance and future therapeutics

https://www.ncbi.nlm.nih.gov/pubmed/30518801

Reducing parental trauma and stress in neonatal intensive care: systematic review and meta-analysis of hospital interventions

https://www.ncbi.nlm.nih.gov/pubmed/30659239

"Golden Hour" quality improvement intervention and short-term outcome among preterm infants https://www.ncbi.nlm.nih.gov/pubmed/30341403

Early red cell transfusion is associated with development of severe retinopathy of prematurity https://www.ncbi.nlm.nih.gov/pubmed/30459388

Genetic variants associated with patent ductus arteriosus in extremely preterm infants Journal of Neonatal-Perinatal Medicine

https://www.ncbi.nlm.nih.gov/pubmed/30518802

Reduced rate of treated retinopathy of prematurity after implementing lower oxygen saturation targets https://www.ncbi.nlm.nih.gov/pubmed/30617284

Death or resolution: the "natural history" of pulmonary hypertension in bronchopulmonary dysplasia https://www.ncbi.nlm.nih.gov/pubmed/30617286

The use of less invasive surfactant administration (LISA) in the United States with review of the literature.

https://www.ncbi.nlm.nih.gov/pubmed/30635595

Neonatologists' preferences regarding guidelines for periviable deliveries: do we really know what we want?

https://www.ncbi.nlm.nih.gov/pubmed/30659238

Impact of patient handover structure on neonatal perioperative safety

https://www.ncbi.nlm.nih.gov/pubmed/30655594

Data electronically extracted from the electronic health record require validation

https://www.ncbi.nlm.nih.gov/pubmed/30679823

Vasa previa and extreme prematurity: a population-based study

https://www.ncbi.nlm.nih.gov/pubmed/30692614

Elevated umbilical cord arterial lactate at birth and electronic fetal monitoring characteristics on admission and in the active phase

https://www.ncbi.nlm.nih.gov/pubmed/30692611

Neuroimaging and Bayley-III correlates of early hand function in extremely preterm children https://www.ncbi.nlm.nih.gov/pubmed/30692613

Comparison of macronutrient content in human milk measured by mid-infrared human milk analyzer and reference methods

https://www.ncbi.nlm.nih.gov/pubmed/30552375

Improving extrauterine growth: evaluation of an optimized, standardized neonatal parenteral nutrition protocol

https://www.ncbi.nlm.nih.gov/pubmed/30531931

Neonatology

Pulseless electrical activity complicating neonatal resuscitation

https://www.ncbi.nlm.nih.gov/pubmed/3035243

Accelerated small-world property of structural brain networks in preterm infants at term-equivalent age https://www.ncbi.nlm.nih.gov/pubmed/30384384

Prescription drug shortages: impact on neonatal intensive care

https://www.ncbi.nlm.nih.gov/pubmed/30384374

Neonatal glycaemia and neurodevelopmental outcomes: a systematic review and meta-analysis https://www.ncbi.nlm.nih.gov/pubmed/30408811

Outcome of infants with therapeutic hypothermia after perinatal asphyxia and early-onset sepsis https://www.ncbi.nlm.nih.gov/pubmed/30419568

Disulphide bridges in surfactant protein b analogues affect their activity in synthetic surfactant preparations

https://www.ncbi.nlm.nih.gov/pubmed/30453306

Ophthalmic insert versus eye drops for mydriasis in neonates: a randomized clinical trial

https://www.ncbi.nlm.nih.gov/pubmed/30481790

Platelet-neutrophil interactions are lower in cord blood of premature newborns

https://www.ncbi.nlm.nih.gov/pubmed/30481769

A randomized controlled trial of immediate versus delayed umbilical cord clamping in multiple-birth infants born preterm

https://www.ncbi.nlm.nih.gov/pubmed/30481760

The impact of late onset arterial hypotension on respiratory outcome in extremely premature infants https://www.ncbi.nlm.nih.gov/pubmed/30485857

The tubular damage markers: neutrophil gelatinase-associated lipocalin and kidney injury molecule-1 in newborns with intrauterine growth restriction

https://www.ncbi.nlm.nih.gov/pubmed/30513528

Nasal high-flow therapy as primary respiratory support for preterm infants without the need for rescue with nasal continuous positive airway pressure

https://www.ncbi.nlm.nih.gov/pubmed/30513521

Early-stage translational research in perinatal medicine

https://www.ncbi.nlm.nih.gov/pubmed/30522108

American Journal of Perinatology

Risk of cesarean delivery among nulliparous Asian-Indian women with term singleton pregnancies https://www.ncbi.nlm.nih.gov/pubmed/30282108

Time to delivery after scheduled Shirodkar cerclage removal in singleton gestations based on the original indication for cerclage placement

https://www.ncbi.nlm.nih.gov/pubmed/30282107

Modern neonatal transport: sound and vibration levels and their impact on physiological stability https://www.ncbi.nlm.nih.gov/pubmed/30112755

Function, exercise capacity, and exhaled nitric oxide levels: outcomes following neonatal treatment with inhaled nitric oxide to prevent bronchopulmonary dysplasia

https://www.ncbi.nlm.nih.gov/pubmed/30121944

Sevoflurane for short painful procedures in the neonatal intensive care unit

https://www.ncbi.nlm.nih.gov/pubmed/30121942

Cross-generational contributors to preterm birth in California: singletons based on race/ethnicity https://www.ncbi.nlm.nih.gov/pubmed/30121941

Tele monitoring of neonatal intensive care units: preliminary experience in the state of Minas Gerais, Brazil

https://www.ncbi.nlm.nih.gov/pubmed/30130823

Cervical ripening using foley balloon with or without oxytocin: a systematic review and meta-analysis https://www.ncbi.nlm.nih.gov/pubmed/30130821

Prenatal diagnosis of vasa previa: outpatient versus inpatient management

https://www.ncbi.nlm.nih.gov/pubmed/30130820

Infants born to mothers with clinical chorioamnionitis: a cross-sectional survey on the use of early-onset sepsis risk calculator and prolonged use of antibiotics

https://www.ncbi.nlm.nih.gov/pubmed/30130819

Journal of Neonatal-Perinatal Medicine

The relationship of cervical microbiota diversity with race and disparities in preterm birth https://www.ncbi.nlm.nih.gov/pubmed/30198877

Maternal Health, Neonatology and Perinatology

Maternal infections during pregnancy and offspring midlife inflammation (PDF)

https://mhnpjournal.biomedcentral.com/track/pdf/10.1186/s40748-019-0099-3

Does the safe childbirth checklist (SCC) program save newborn lives? Evidence from a realistic quasi-experimental study, Rajasthan, India (PDF)

https://mhnpjournal.biomedcentral.com/track/pdf/10.1186/s40748-019-0098-4

Neoreviews

Historical perspectives: telemedicine in neonatology

https://neoreviews.aappublications.org/content/20/3/e113

When to include a lumbar puncture in the evaluation for neonatal sepsis

https://neoreviews.aappublications.org/content/20/3/e124

***Antibiotic resistance in the neonatal intensive care unit

https://neoreviews.aappublications.org/content/20/3/e135

Challenging the "culture" of the tracheal aspirate

https://neoreviews.aappublications.org/content/20/3/e145

Case 1: a neonate with severe pallor

https://neoreviews.aappublications.org/content/20/3/e152

Case 2: recurrent hypoglycemia in early neonatal period

https://neoreviews.aappublications.org/content/20/3/e155

Case 3: an abnormal nose mass

https://neoreviews.aappublications.org/content/20/3/e158

Strip of the month: intrauterine growth restriction with abnormal umbilical artery doppler studies

https://neoreviews.aappublications.org/content/20/3/e161

Microcephalic newborn with forehead nevus flammeus, bulging eyes, and clenched fists

https://neoreviews.aappublications.org/content/20/3/e170

Delayed umbilical cord clamping in preterm infants

https://neoreviews.aappublications.org/content/20/3/e174

JAMA Pediatrics

Carelessness about surfactant dose—a cultural problem, a legal issue, or an open research question? https://www.ncbi.nlm.nih.gov/pubmed/30615035

When is death in a child's best interest?: examining decisions following severe brain injury

https://www.ncbi.nlm.nih.gov/pubmed/30640386

Epidemiology of invasive early-onset and late-onset group B Streptococcal disease in the United States, 2006 to 2015 multistate laboratory and population-based surveillance

https://www.ncbi.nlm.nih.gov/pubmed/30640366

Preventing neonatal group B Streptococcus disease the limits of success

https://www.ncbi.nlm.nih.gov/pubmed/30640370

Pharmacological treatments for neonatal abstinence syndrome a systematic review and network metaanalysis

https://www.ncbi.nlm.nih.gov/pubmed/30667476

Pharmacologic treatment for neonatal abstinence syndrome which medication is best?

https://www.ncbi.nlm.nih.gov/pubmed/30667482

Association of rates of smoking during pregnancy with corporate tobacco sales policies

https://www.ncbi.nlm.nih.gov/pubmed/30640377

Association of maternal probiotic supplementation with human milk oligosaccharide composition https://www.ncbi.nlm.nih.gov/pubmed/30667484

Fish consumption during pregnancy

https://www.ncbi.nlm.nih.gov/pubmed/30640383

Fish consumption during pregnancy—reply

https://www.ncbi.nlm.nih.gov/pubmed/30640387

Extending antenatal pertussis immunization to second trimester or at-birth pertussis immunization of premature infants?

https://www.ncbi.nlm.nih.gov/pubmed/30688981

Extending antenatal pertussis immunization to second trimester or at-birth pertussis immunization of premature infants?—reply

https://www.ncbi.nlm.nih.gov/pubmed/30688976

Protecting infants from pertussis disease

https://www.ncbi.nlm.nih.gov/pubmed/30208466

BMC Pediatrics

Congenital emphysematous lung disease associated with a novel Filamin A mutation. Case report and literature review (PDF)

https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1460-4

Randomized controlled trial protocol to improve multisensory neural processing, language and motor outcomes in preterm infants (PDF)

https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1455-1

Case report: A newborn with seizures born to a mother diagnosed with primary carnitine deficiency (PDF)

https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1452-4

Case report: Cholecystoduodenostomy for cholestatic liver disease in a premature infant with cystic fibrosis and short gut syndrome (PDF)

https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1443-5

A case report of a challenging diagnosis of biliary atresia in a patient receiving total parenteral nutrition (PDF)

https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1446-2

Impact of birthweight on health-care utilization during early childhood – a birth cohort study (PDF)

https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1424-8

Practice variation in anti-epileptic drug use for neonatal hypoxic-ischemic encephalopathy among regional NICUs (PDF)

https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-019-1441-7

Pediatric Critical Care Medicine

Procalcitonin and other common biomarkers do not reliably identify patients at risk for bacterial infection after congenital heart surgery

https://www.ncbi.nlm.nih.gov/pubmed/30575697

Catecholaminergic polymorphic ventricular tachycardia: The cardiac arrest where epinephrine is contraindicated

https://www.ncbi.nlm.nih.gov/pubmed/30640888

New England Journal of Medicine

Preventing preeclampsia by silencing soluble flt-1? https://www.ncbi.nlm.nih.gov/pubmed/30865806

Lancet

Association of adverse perinatal outcomes of intrahepatic cholestasis of pregnancy with biochemical markers: results of aggregate and individual patient data meta-analyses

https://www.ncbi.nlm.nih.gov/pubmed/30773280

Medically assisted reproduction and birth outcomes: a within-family analysis using Finnish population registers

https://www.ncbi.nlm.nih.gov/pubmed/30655015

JAMA

High-dose vitamin d supplementation during pregnancy and asthma in offspring at the age of 6 years https://www.ncbi.nlm.nih.gov/pubmed/30860552

BMJ

Learning from birthing stories on Twitter

https://www.ncbi.nlm.nih.gov/pubmed/30862695

Prenatal and infant exposure to ambient pesticides and autism spectrum disorder in children: population based case-control study

https://www.ncbi.nlm.nih.gov/pubmed/30894343

Role of maternal age and pregnancy history in risk of miscarriage: prospective register based study https://www.ncbi.nlm.nih.gov/pubmed/30894356

Pediatric Infectious Disease Journal

Spinal tuberculosis in young HIV-exposed infants: two cases of probable congenital transmission

https://www.ncbi.nlm.nih.gov/pubmed/29794650

Perinatal yellow fever: a case report

https://www.ncbi.nlm.nih.gov/pubmed/29634624

Antibiotic overuse in premature low birth weight infants in a developing country

https://www.ncbi.nlm.nih.gov/pubmed/29613975

Successful treatment of a South African pediatric case of acute liver failure caused by perinatal transmission of Hepatitis B

https://www.ncbi.nlm.nih.gov/pubmed/29601455

Genetic relatedness of Staphylococcus haemolyticus in gut and skin of preterm neonates and breast milk of their mothers

https://www.ncbi.nlm.nih.gov/pubmed/29613973

Pediatric Cardiology

Prenatal diagnosis influences preoperative status in neonates with congenital heart disease: an analysis of the Society of Thoracic Surgeons congenital heart surgery database

https://www.ncbi.nlm.nih.gov/pubmed/30341588

A novel brain injury biomarker correlates with cyanosis in infants with congenital heart disease https://www.ncbi.nlm.nih.gov/pubmed/30430186

Z-score reference ranges for fetal heart functional measurements in a large Brazilian pregnant women sample

https://www.ncbi.nlm.nih.gov/pubmed/30415382

Utilization of neurally adjusted ventilatory assist (NAVA) mode in infants and children undergoing congenital heart surgery: a retrospective review https://www.ncbi.nlm.nih.gov/pubmed/30600371

School-age developmental and educational outcomes following cardiac procedures in the first year of life: a population-based record linkage study

https://www.ncbi.nlm.nih.gov/pubmed/30535960

Selective use of temporary epicardial pacing leads in early infancy following cardiac surgery: feasibility and determinants of clinical application

https://www.ncbi.nlm.nih.gov/pubmed/30564866

In utero aortic arch thrombosis masquerading as interrupted aortic arch: a case report and review of the literature

https://www.ncbi.nlm.nih.gov/pubmed/30734851

Variable treatment approaches for extracorporeal membrane oxygenation complications in neonates: a case series

https://www.ncbi.nlm.nih.gov/pubmed/30758519

Pediatric Neurology

Successful surgical treatment of refractory status epilepticus in a 12-day-old infant https://www.ncbi.nlm.nih.gov/pubmed/30578051

Obstetrics and Gynecology

Elective induction at 39 weeks of gestation and the implications of a large, multicenter, randomized controlled trial

https://www.ncbi.nlm.nih.gov/pubmed/30741803

Contemporary trends in cesarean delivery utilization for live births between 22 0/7 and 23 6/7 weeks of gestation

https://www.ncbi.nlm.nih.gov/pubmed/30741810

Noninvasive prenatal whole genome sequencing: pregnant women's views and preferences

https://www.ncbi.nlm.nih.gov/pubmed/30741804

Umbilical cord blood banking (PDF)

https://journals.lww.com/greenjournal/Fulltext/2019/03000/ACOG Committee Opinion No 771 Summary Umbilical.40.aspx#epub-link

American Journal of Obstetrics & Gynecology

Fertility treatment use and breastfeeding outcomes

https://www.ncbi.nlm.nih.gov/pubmed/30513338

Does the human placenta delivered at term have a microbiota? Results of cultivation, quantitative real-time PCR, 16S rRNA gene sequencing, and metagenomics

https://www.ncbi.nlm.nih.gov/pubmed/30832984

Computerized analysis of cardiotocograms and ST signals is associated with significant reductions in hypoxic-ischemic encephalopathy and cesarean delivery: an observational study in 38,466 deliveries https://www.ncbi.nlm.nih.gov/pubmed/30594567

Plasma and cerebrospinal fluid inflammatory cytokines in perinatal depression

https://www.ncbi.nlm.nih.gov/pubmed/30557551

Maternal and newborn outcomes with elective induction of labor at term

https://www.ncbi.nlm.nih.gov/pubmed/30716284

A case for not adjusting birthweight customized standards for ethnicity: observations from a unique Australian cohort

BASIC SCIENCE SELECTIONS

Comprehensive preterm breast milk metabotype associated with optimal infant early growth pattern Alexandre-Gouabau MC, Moyon T, David-Sochard A, et al. *Nutrients*.

https://www.ncbi.nlm.nih.gov/pubmed/30823457

Targeting progesterone receptors in newborn males and females: from the animal model to a new perspective for the treatment of apnea of prematurity?

Bairam A, Boukari R and Joseph V. Respir Physiol Neurobiol.

https://www.ncbi.nlm.nih.gov/pubmed/30880277

Surfactant plus budesonide decreases lung and systemic inflammation in mechanically ventilated preterm sheep

Kothe TB, Kemp MW, Schmidt AF, et al. Am J Physiol Lung Cell Mol Physiol.

https://www.ncbi.nlm.nih.gov/pubmed/30838863

Antenatal betamethasone augments early rise in pulmonary perfusion at birth in preterm lambs: role of ductal shunting and right ventricular outflow distribution

Smolich JJ, Kenna KR and Mynard JP. Am J Physiol Regul Integr Comp Physiol.

https://www.ncbi.nlm.nih.gov/pubmed/30840485

Successful use of an artificial placenta to support extremely preterm ovine fetuses at the border of viability

Usuda H, Watanabe S, Saito M, et al. Am J Obstet Gynecol.

https://www.ncbi.nlm.nih.gov/pubmed/30853365

https://www.ncbi.nlm.nih.gov/pubmed/30837582

Early neuropathological and neurobehavioral consequences of preterm birth in a rabbit model Van der Merwe J, Van der Veeken L, Ferraris S, et al. *Sci Rep.*

ADDITIONAL JOURNAL SELECTIONS

Exploring clinical, echocardiographic and molecular biomarkers to predict bronchopulmonary dysplasia Alvarez-Fuente M, Moreno L, Lopez-Ortego P, et al. *PLoS One*.

https://www.ncbi.nlm.nih.gov/pubmed/30840669

Dynamic prediction of bleeding risk in thrombocytopenic preterm neonates Fustolo-Gunnink SF, Fijnvandraat K, Putter H, et al. *Haematologica*. https://www.ncbi.nlm.nih.gov/pubmed/30819913

Postnatal nutritional deficit is an independent predictor of bronchopulmonary dysplasia among extremely premature infants born at or less than 28 weeks gestation Malikiwi AI, Lee YM, Davies-Tuck M, et al. *Early Hum Dev.* https://www.ncbi.nlm.nih.gov/pubmed/30825742

A feasibility study to detect neonatal hypoglycemia in infants of diabetic mothers using real-time continuous glucose monitoring

Nally LM, Bondy N, Doiev J, et al. Diabetes Technol Ther.

The possibility of early discharge for newborns being monitored for neonatal abstinence syndrome based on modified Finnegan score distributions

Oji-Mmuo CN, Schaefer EW, Liao L, et al. *Clin Pediatr (Phila)*.

https://www.ncbi.nlm.nih.gov/pubmed/30813757

Long-term ventilation for children with chronic lung disease of infancy Baker CD. *Curr Opin Pediatr.*

https://www.ncbi.nlm.nih.gov/pubmed/30893186

Gastroesophageal Reflux Disease in the Neonatal Intensive Care Unit Infant: Who Needs to Be Treated and What Approach Is Beneficial?

Gulati IK and Jadcherla SR. Pediatr Clin North Am.