

Publications Working Group

[Ayan Rajgarhia](#), Page Editor - Children's Mercy Hospital

Jayasree Nair - University at Buffalo

Craig Nankervis - Nationwide Children's Hospital

Christopher Rouse - The Elliot Hospital + USUHS

Jeffrey Shenberger - Brenner Children's Hospital/Wake Forest School of Medicine

Mark Weems - University of Tennessee Health Science Center

Ranjith Kamity - NYU Winthrop Hospital

American Academy
of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN®

Section on Neonatal-Perinatal Medicine

ARTICLES OF INTEREST – January 2021

[Early assessment of lung aeration using an ultrasound score as a biomarker of developing bronchopulmonary dysplasia: a prospective observational study](#)

Oulego-Eroz I, Alonso-Quintela P, Terroba-Seara S, et al. *J Perinatol*.

In this study, preterm infants born <32 weeks were evaluated with lung ultrasound (LUS) on days 7 and 28. The US assessed 4 zones in each lung. Lung aeration in each zone was scored from 0 (normal) to 3 (extended consolidations). Scores were totaled for a range 0-24. 42 patients were included, 29 with no or mild BPD and 13 with moderate to severe BPD. The BPD group had higher LUS scores at both 7 and 28 days. The authors identified an optimal cutoff score of ≥ 8 at 7 days to predict moderate-severe BPD. Both intra- and inter-observer agreement in LUS scores was high. The authors conclude that LUS on day 7 may be used to predict moderate-severe BPD in preterm infants, and they suggest it may help identify patients who will benefit from BPD prevention strategies.

[A randomized trial of intravenous acetaminophen versus indomethacin for treatment of hemodynamically significant PDAs in VLBW infants](#)

Davidson JM, Ferguson J, Ivey E, et al. *J Perinatol*.

Preterm infants born 22-32 weeks were randomized to 1st PDA treatment with IV acetaminophen or IV indomethacin. Enrollment was open to patients ≤ 21 days of age. Acetaminophen dosing was 15mg/kg IV q6 hours x3 days (12 doses). Indomethacin dosing was 0.2-0.25 mg/kg IV every 12 hours for 3 doses. 37 patients were included with mean gestational age of 25 weeks and mean birth weight 0.77kg. Treatment was generally started from day 4-11. Only 1 patient in the acetaminophen group had successful closure of the PDA and nearly half were later treated with transcatheter PDA closure. 55% of the indomethacin group had successful closure and only 15% received transcatheter closure. The authors conclude the studied dose of IV acetaminophen was not as successful at closing the PDA as IV indomethacin.

[Amniotic fluid IL-6 and IL-8 are superior predictors of fetal lung injury compared to maternal or fetal plasma cytokines or placental histopathology in a nonhuman primate model](#)

McCartney SA, Kapur R, Liggitt HD, et al. *Am J Obstet Gynecol*.

Using a pregnant nonhuman primate model of GBS infection, the authors sought to determine if fetal lung injury is best predicted by placental histopathology or the cytokine response. They found that fetal lung injury score was significantly correlated with peak amniotic fluid cytokines IL-6 and IL-8 and that fetal lung scores were poorly correlated with maternal and fetal plasma cytokine levels and placental

pathology. The authors speculate that amniocentesis may predict neonatal lung morbidity intra-amniotic infection.

[Vancomycin-lock therapy for prevention of catheter-related bloodstream infection in very low body weight infants](#)

Liang H, Zhang L, Guo X, et al. *BMC Pediatr.*

This study evaluated the effectiveness and safety of vancomycin-lock therapy for the prevention of catheter-related bloodstream infection (CRBSI) in VLBW infants. They found that the rate of CRBSI in the vancomycin-lock group (4.4%) was significantly less than in the control group (21.7%). Total antibiotic exposure time during the whole observation period was significantly shorter in the group than in the control. The authors conclude that vancomycin-lock may effectively prevent CRBSI in Chinese VLBW infants and reduce the exposure time of antibiotics.

[Outcomes in infants < 29 weeks of gestation following single-dose prophylactic indomethacin](#)

Gillam-Krakauer M, Slaughter JC, Cotton RB, et al. *J Perinatol.*

This was a single unit retrospective cohort analysis in <29 week infants, evaluating the effect of single-dose indomethacin (SD-INDO) on PDA, IVH and motor function. 299 infants who received SD-INDO were compared to 85 infants who did not, in the same time period (2007-2014). Infants who received SD-INDO were more premature but had lower odds of PDA, PDA receiving treatment, death, and CP severity. There was less IVH, when adjusted for gestational age. The authors concluded that a single dose of indomethacin at 12 h of age was associated with short- and long-term benefits in very premature infants, specifically decreased PDA and CP severity and improved survival.

Associations between red blood cell and platelet transfusions and retinopathy of prematurity
Hengartner T, Adams M, Pfister RE, et al. *Neonatology.*

In this retrospective, national, case-control study all preterm infants <28 weeks GA born in Switzerland between 2013 and 2018 who developed higher stage ROP (\geq stage 2, n = 178) were compared to gestation and sex matched controls without ROP (n = 178). The aim of this study was to examine associations between transfusion of RBC or platelets (PLTs) and development of retinopathy of prematurity (ROP). Severe ROP was associated with the number of RBC transfusions per infant (OR= 1.081, 95% CI 1.020–1.146, p = 0.008) and the number of infants who received at least 1 PLT transfusion (OR = 2.502, 95% CI 1.566–3.998, p < 0.001). RBC transfusion volumes were less strongly associated (OR = 1.001, 95% CI 1.000–1.002, p = 0.182) and were, therefore, a worse predictor than the number of RBC transfusions. The authors conclude that multiple RBC and PLT transfusions are associated with higher stage ROP development, but further prospective studies are required to explore this association further.

[High early parenteral lipid in very preterm infants: a randomized-controlled trial](#)

Alburaki W, Yusuf K, Dobry J, et al. *J Pediatr.*

In this randomized controlled trial the authors sought to determine whether high early parenteral soybean oil lipid intake in very low birth weight (VLBW) infants in the first week after birth decreases the proportion of weight loss and subsequently the incidence of extrauterine growth restriction (EUGR). Lipid intake in the control group was started at 0.5-1 g/kg per day and increased daily by 0.5-1 g/kg per day till reaching 3 g/kg per day while the intervention group was started on 2 g/kg per day and increased to 3 g/kg per day the following day. Infants in the intervention group had a lower percentage of weight loss and a lower incidence of EUGR. In VLBW infants, provision of a high early dose of parenteral lipid in the first week of age results in less weight loss and lower incidence of EUGR.

[Effects of probiotics in preterm infants: A network meta-analysis](#)

Chi C, Li C, Buys N, et al. *Pediatrics*.

This meta-analysis, which included 45 trials and 12,320 participants, found that Bifidobacterium plus Lactobacillus was associated with lower rates of mortality (risk ratio 0.56; 95% credible interval 0.34-0.84) and NEC morbidity (0.47; 0.27-0.79) in comparison to the placebo; Lactobacillus plus prebiotic was associated with lower rates of NEC morbidity (0.06; 0.01-0.41) in comparison to the placebo; Bifidobacterium plus prebiotic had the highest probability of having the lowest rate of mortality (surface under the cumulative ranking curve 83.94%); and Lactobacillus plus prebiotic had the highest probability of having the lowest rate of NEC (surface under the cumulative ranking curve 95.62%).

[Sustained lung inflations during neonatal resuscitation at birth: A meta-analysis](#)

Kapadia VS, Urlesberger B, Soraisham A, et al. *Pediatrics*.

This is a meta-analysis of sustained inflation (SI) of the lung at birth (1 or more SI >5 seconds) by International Liaison Committee on Resuscitation authors. Ten trials enrolling 1502 preterm newborns were reviewed. There were no differences between SI and control groups for death before discharge or key morbidities. However, for death within the first 2 days and death before discharge for preterm infants <28wk gestation, risk ratios were 2.42 (95% CI = 1.15-5.09) and 1.38 (95% confidence interval = 1.00-1.91) respectively, suggesting potential harm of SI compared to controls. The authors did not find benefit in using SI in preterm infants at birth. SI has potential for increased death before discharge and among infants born ≤28 weeks gestation.

[Management of infants born to mothers with chorioamnionitis: A retrospective comparison of the three approaches recommended by the committee on fetus and newborn](#)

Sloane AJ, Carola DL, Lafferty MA, et al. *J Neonatal Perinatal Med*.

This is a retrospective study of 1,521 infants born ≥35 weeks to mothers with chorioamnionitis comparing the three approaches recommended by the committee on fetus and newborn for management of those with early onset sepsis (EOS) risk factors; namely 1. laboratory testing and empiric antibiotics, 2. frequent clinical examinations and close vital sign monitoring (CCA), and 3. Kaiser Permanente EOS risk calculator (SRC). Results showed that hypothetical application of SRC and CCA resulted in 79.6% and 76.8-85.1% respectively fewer infants allocated empiric antibiotic therapy. SRC and CCA recommended empiric antibiotics only for three of the six infants (0.39%) with EOS. The authors conclude that SRC and CCA can reduce antibiotic use but potentially delay antibiotic treatment.

OTHER NOTEWORTHY PUBLICATIONS – November, 2020

COVID – 19

Pasteurization inactivates SARS-CoV-2–spiked breast milk

<https://pubmed.ncbi.nlm.nih.gov/33087554>

A case study of the first pregnant woman with COVID-19 in Bukavu, eastern Democratic Republic of the Congo (PDF)

<https://mhnpjournal.biomedcentral.com/track/pdf/10.1186/s40748-021-00127-5.pdf>

Advancing health equity by translating lessons learned from NICU family visitations during the COVID-19 pandemic

<https://pubmed.ncbi.nlm.nih.gov/33386310>

Caring for critically ill children with suspected or proven coronavirus disease 2019 infection: recommendations by the scientific sections' collaborative of the European society of pediatric and neonatal intensive care (PDF)

https://journals.lww.com/pccmjournal/Fulltext/2021/01000/Caring_for_Critically_Ill_Children_With_Suspected.9.aspx

Vertical transmission of coronavirus disease 2019: a systematic review and meta-analysis (PDF)

<https://www.ajog.org/action/showPdf?pii=S0002-9378%2820%2930823-1>

Changes in preterm birth phenotypes and stillbirth at 2 Philadelphia hospitals during the SARS-CoV-2 pandemic, March-June 2020

<https://jamanetwork.com/journals/jama/fullarticle/2774087>

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) antibodies at delivery in women, partners, and newborns

<https://pubmed.ncbi.nlm.nih.gov/33116054>

Neonates hospitalized with community-acquired SARS-CoV-2 in a Colorado neonatal intensive care unit (PDF)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7316651/pdf/neo-0001.pdf>

Pediatrics

Identification of prenatal opioid exposure within health administrative databases

<https://pubmed.ncbi.nlm.nih.gov/33376211>

Site-level variation in the characteristics and care of infants with neonatal opioid withdrawal

<https://pubmed.ncbi.nlm.nih.gov/33386337>

Evaluating definitions for neonatal abstinence syndrome

<https://pubmed.ncbi.nlm.nih.gov/33268396>

Enteral vitamin A for reducing severity of bronchopulmonary dysplasia: A randomized trial

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

Prediction of in-hospital mortality after 24 hours in very low birth weight infants

<https://pubmed.ncbi.nlm.nih.gov/33310907>

Effects of probiotics in preterm infants: A network meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/33323491>

Sustained lung inflations during neonatal resuscitation at birth: A meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/33361356>

Disagreement about surgical intervention in Trisomy 18

<https://pubmed.ncbi.nlm.nih.gov/33298466>

Supplement 1: Part 5: Neonatal resuscitation 2020 American Heart Association guidelines for cardiopulmonary resuscitation and emergency cardiovascular care

<https://pubmed.ncbi.nlm.nih.gov/33087555>

Journal of Pediatrics

Predictive accuracy of transcutaneous bilirubin assessments (PDF)

<https://www.jpeds.com/action/showPdf?pii=S0022-3476%2820%2931387-1>

Intravenous lipid for preterm infants: the right amount, at the right time, of the right kind

<https://pubmed.ncbi.nlm.nih.gov/32889011>

Cardiovascular implications for offspring born to mothers with preeclampsia

<https://pubmed.ncbi.nlm.nih.gov/32795476>

High early parenteral lipid in very preterm infants: a randomized-controlled trial

<https://pubmed.ncbi.nlm.nih.gov/32798567>

Synchronized inflations generate greater gravity-dependent lung ventilation in neonates

<https://pubmed.ncbi.nlm.nih.gov/32827530>

Clinical factors influencing time to decannulation in children with tracheostomy and ventilator dependence secondary to bronchopulmonary dysplasia

<https://pubmed.ncbi.nlm.nih.gov/32861694>

Family integrated care for preterm infants in China: a cluster randomized controlled trial

<https://pubmed.ncbi.nlm.nih.gov/32898578>

Mother's own milk biomarkers predict coming to volume in pump-dependent mothers of preterm infants

<https://pubmed.ncbi.nlm.nih.gov/32916143>

Decision accuracy and safety of transcutaneous bilirubin screening at intermountain healthcare

<https://pubmed.ncbi.nlm.nih.gov/32890579>

Coronary dilatation and endothelial inflammation in neonates born to mothers with preeclampsia

<https://pubmed.ncbi.nlm.nih.gov/32712283>

A multi-interventional nutrition program for newborns with congenital heart disease

<https://pubmed.ncbi.nlm.nih.gov/32827527>

Up-regulation of nfat5 mrna and fzd4 mrna as a marker of poor outcome in neonatal hypoxic-ischemic encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/32828883>

A randomized placebo-controlled pilot trial of early targeted nonsteroidal anti-inflammatory drugs in preterm infants with a patent ductus arteriosus

<https://pubmed.ncbi.nlm.nih.gov/32858033>

Prevention of perinatal HIV transmission in an area of high HIV prevalence in the United States

<https://pubmed.ncbi.nlm.nih.gov/32971142>

Maternal stress during pregnancy predicts infant infectious and noninfectious illness

<https://pubmed.ncbi.nlm.nih.gov/32827529>

Evaluation of gastroesophageal reflux disease 1 year after esophageal atresia repair: paradigms lost from a single snapshot?

<https://pubmed.ncbi.nlm.nih.gov/32918920>

Association between nephrotoxic drug combinations and acute kidney injury in the neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/32818481>

Coronary involvement in cardiac neonatal lupus

<https://pubmed.ncbi.nlm.nih.gov/32918919>

Pediatric Research

January issue not released.

Archives of Disease in Childhood - Fetal & Neonatal Edition

Stressors and support system among parents of neonates hospitalised with systemic infections: qualitative study in South India (PDF)

<https://adc.bmj.com/content/archdischild/106/1/20.full.pdf>

Genetic landscape of congenital disorders in patients from Southeast Asia: results from sequencing using a gene panel for Mendelian phenotypes

<https://www.ncbi.nlm.nih.gov/pubmed/32978145>

Early-onset sepsis: can we screen fewer babies safely?

<https://www.ncbi.nlm.nih.gov/pubmed/31678929>

Letter: Early neonatal vitamin A supplementation and infant mortality: two alternative hypotheses

<https://www.ncbi.nlm.nih.gov/pubmed/31949034>

Journal of Perinatology

Surf early to higher tides: surfactant therapy to optimize tidal volume, lung recruitment, and iNO response (PDF)

<https://www.nature.com/articles/s41372-020-0764-4.pdf>

Ductal steal: does it affect pre-ductal arteries (PDF)

<https://www.nature.com/articles/s41372-020-00844-3.pdf>

Recent advances in pathophysiology and management of transient tachypnea of newborn

<https://www.ncbi.nlm.nih.gov/pubmed/32753712>

“Optimal surfactant delivery protocol using the bovine lipid extract surfactant: a quality improvement study” (PDF)

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7532933/pdf/41372_2020_Article_846.pdf

Epidemiology of readmissions in early infancy following nonelective cesarean delivery

<https://www.ncbi.nlm.nih.gov/pubmed/32669643>

Early use of combined exogenous surfactant and inhaled nitric oxide reduces treatment failure in persistent pulmonary hypertension of the newborn: a randomized controlled trial

<https://www.ncbi.nlm.nih.gov/pubmed/32792635>

Characteristics and outcomes of preterm neonates according to number of doses of surfactant received (PDF)

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7424238/pdf/41372_2020_Article_779.pdf

Effect of tidal volume and end tracheal tube leakage on end-tidal CO₂ in very low birth weight infants (PDF)

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7399592/pdf/41372_2020_Article_758.pdf

Inhaled bronchodilator exposure in the management of bronchopulmonary dysplasia in hospitalized infants (PDF)

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7404081/pdf/41372_2020_Article_760.pdf

Early assessment of lung aeration using an ultrasound score as a biomarker of developing bronchopulmonary dysplasia: a prospective observational study (PDF)

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7358564/pdf/41372_2020_Article_724.pdf

Burden of prematurity-associated recurrent wheezing: caregiver missed work in the D-Wheeze trial

<https://www.ncbi.nlm.nih.gov/pubmed/32694857>

Pulmonary function in extremely low birth weight infants with bronchopulmonary dysplasia before hospital discharge (PDF)

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7548054/pdf/41372_2020_Article_856.pdf

Clinical validity of systemic arterial steal among extremely preterm infants with persistent patent ductus arteriosus

<https://www.ncbi.nlm.nih.gov/pubmed/32393829>

A randomized trial of intravenous acetaminophen versus indomethacin for treatment of hemodynamically significant PDAs in VLBW infants

<https://www.ncbi.nlm.nih.gov/pubmed/32439957>

Hemodynamic and clinical consequences of early versus delayed closure of patent ductus arteriosus in extremely low birth weight infants

<https://www.ncbi.nlm.nih.gov/pubmed/32792636>

Outcomes in infants < 29 weeks of gestation following single-dose prophylactic indomethacin (PDF)

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7499931/pdf/41372_2020_Article_814.pdf

Association of chorioamnionitis and patent ductus arteriosus in a national U.S. cohort

<https://www.ncbi.nlm.nih.gov/pubmed/33093626>

Use of vasopressin in neonatal hypertrophic obstructive cardiomyopathy: case series

<https://www.ncbi.nlm.nih.gov/pubmed/32951013>

Effects of standardized feeding protocol on growth velocity and necrotizing enterocolitis in extremely low birth weight infants

<https://www.ncbi.nlm.nih.gov/pubmed/33281186>

Oral-feeding guidelines for preterm neonates in the NICU: a scoping review

<https://www.ncbi.nlm.nih.gov/pubmed/33288867>

Delay in achieving enteral autonomy and growth outcomes in very low birth weight infants with surgical necrotizing enterocolitis (PDF)

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7710157/pdf/41372_2020_Article_880.pdf

Early-onset sepsis in term infants admitted to neonatal intensive care units (2011–2016) (PDF)

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7568457/pdf/41372_2020_Article_860.pdf

A quality improvement project improving the value of iNO utilization in preterm and term infants

<https://www.ncbi.nlm.nih.gov/pubmed/32770031>

Critical decision-making in neonatology and pediatrics: the I–P–O framework

<https://www.ncbi.nlm.nih.gov/pubmed/32999448>

Ductal steal: does it affect pre-ductal arteries (PDF)

<https://www.nature.com/articles/s41372-020-00851-4.pdf>

Neonatology

Pressure versus sudden wean from nasal continuous positive airway pressure in preterm infants: a systematic review and meta-analysis (PDF)

<https://www.karger.com/Article/Pdf/507863>

Emerging role of the NLRP3 inflammasome and interleukin-1 β in neonates (PDF)

<https://www.karger.com/Article/Pdf/507584>

A prospective cohort study of fecal miR-223 and miR-451a as noninvasive and specific biomarkers for diagnosis of necrotizing enterocolitis in preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/33238267>

Associations between red blood cell and platelet transfusions and retinopathy of prematurity (PDF)

<https://www.karger.com/Article/Pdf/512020>

Effect of a dual-strain probiotic on necrotizing enterocolitis in neonates with ductal-dependent congenital heart disease: a retrospective cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/32781449>

The relationship between oxidative stress, intermittent hypoxemia, and hospital duration in moderate preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/32799210>

Congenital anomalies in very-low-birth-weight infants: a nationwide cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/32772029>

Managing preterm infants born to COVID-19 mothers: evidence from a retrospective cohort study in Wuhan, China

<https://www.ncbi.nlm.nih.gov/pubmed/32799197>

Delay in treatment of neonatal seizures: a retrospective cohort study (PDF)

<https://www.karger.com/Article/Pdf/509282>

RK Lactoferrin expression is not associated with late-onset sepsis in very preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/32862184>

Noninvasive detection of hemolysis with ETCOc measurement in neonates at risk for significant hyperbilirubinemia

<https://www.ncbi.nlm.nih.gov/pubmed/32894848>

Amoxicillin dosing regimens for the treatment of neonatal sepsis: balancing efficacy and neurotoxicity (PDF)

<https://www.karger.com/Article/Pdf/509751>

Validation of a new transcutaneous tcPO₂/tcPCO₂ sensor with an optical oxygen measurement in preterm neonates (PDF)

<https://www.karger.com/Article/Pdf/510659>

Creatinine at birth correlates with gestational age and birth weight: another factor of the imbroglio in early neonatal life

<https://www.ncbi.nlm.nih.gov/pubmed/32961538>

Moral distress and considering leaving in NICU nurses: direct effects and indirect effects mediated by burnout and the hospital ethical climate

<https://www.ncbi.nlm.nih.gov/pubmed/32750693>

High-Dose Erythropoietin in Extremely Low Gestational Age Neonates Does Not Alter Risk of Retinopathy of Prematurity

<https://www.ncbi.nlm.nih.gov/pubmed/33113526>

A parechovirus type 3 infection with a presumed intrauterine onset: a poor neurodevelopmental outcome (PDF)

<https://www.karger.com/Article/Pdf/509571>

American Journal of Perinatology

Maternal outcomes of ongoing pregnancies complicated by fetal life-limiting conditions

<https://pubmed.ncbi.nlm.nih.gov/32645723>

Outcomes of isolated fetal ventriculomegaly that resolve in utero

<https://pubmed.ncbi.nlm.nih.gov/32772358>

Ultrasound to localize the peripherally inserted central catheter tip position in newborn infants

<https://pubmed.ncbi.nlm.nih.gov/31412404>

Short-term outcomes following standardized admission of late preterm infants to family-centered care

<https://pubmed.ncbi.nlm.nih.gov/31430819>

Youtube as a source of patient information for prenatal repair of myelomeningocele

<https://pubmed.ncbi.nlm.nih.gov/31430813>

Systemic to pulmonary collaterals in extremely low birth weight infants: incidence, clinical significance, and hemodynamic features

<https://pubmed.ncbi.nlm.nih.gov/31430815>

Macrosomic newborns delivered at term after labor among nondiabetic women: maternal and neonatal morbidities

<https://pubmed.ncbi.nlm.nih.gov/31430814>

Regional contribution of previable infant deaths to infant mortality rates in the United States

<https://pubmed.ncbi.nlm.nih.gov/31480083>

The association between positive antenatal depression screening and breastfeeding initiation and continuation

<https://pubmed.ncbi.nlm.nih.gov/31480085>

Prone versus supine position for lung ultrasound in neonates with respiratory distress

<https://pubmed.ncbi.nlm.nih.gov/31480084>

New strategies to tackle the combined biological and social context of preterm birth

<https://pubmed.ncbi.nlm.nih.gov/31480082>

Journal of Neonatal-Perinatal Medicine

Pilot study of cerebral and somatic autoregulation using NIRS in preterm neonates

<https://pubmed.ncbi.nlm.nih.gov/33459669>

Spontaneous intestinal perforation associated with premature twin infants

<https://pubmed.ncbi.nlm.nih.gov/33459668>

Peripherally inserted central catheter migration in neonates: Incidence, timing and risk factors

<https://pubmed.ncbi.nlm.nih.gov/33459671>

Infantile spinal muscular atrophy —the potential for cure of a fatal disease

<https://pubmed.ncbi.nlm.nih.gov/33459670>

Standardized delivery room management for neonates with a prenatal diagnosis of congenital heart disease: A model for improving interdisciplinary delivery room care

<https://pubmed.ncbi.nlm.nih.gov/33361613>

Accuracy of a spontaneous breathing trial for extubation of neonates

<https://pubmed.ncbi.nlm.nih.gov/33337394>

Neurodevelopmental outcome of healthy term newborn with serum bilirubin >15 mg/dl at one year

<https://pubmed.ncbi.nlm.nih.gov/33337390>

A case of neonatal diabetes insipidus following dexamethasone for bronchopulmonary dysplasia

<https://pubmed.ncbi.nlm.nih.gov/33337391>

Breastfeeding initiation among women with preeclampsia with and without severe features

<https://pubmed.ncbi.nlm.nih.gov/33337389>

Bolus versus continuous feedings following treatment for medical necrotizing enterocolitis

<https://pubmed.ncbi.nlm.nih.gov/33337396>

Management of infants born to mothers with chorioamnionitis: A retrospective comparison of the three approaches recommended by the committee on fetus and newborn

<https://pubmed.ncbi.nlm.nih.gov/33337392>

Short-term outcome of very low-birth-weight infants in a tertiary care hospital in Saudi Arabia over a decade

<https://pubmed.ncbi.nlm.nih.gov/33337393>

Biomarkers as point of care tests (POCT) in neonatal sepsis: A state of science review

<https://pubmed.ncbi.nlm.nih.gov/33337395>

Postnatally acquired CMV meningitis diagnosed via BioFire FilmArray: A case report

<https://pubmed.ncbi.nlm.nih.gov/33325402>

Delayed cord clamping in infants born less than 35 weeks: A retrospective study

<https://pubmed.ncbi.nlm.nih.gov/33325400>

A case of neonate effectively treated with everolimus for giant hepatic hemangioma complicated with congenital duodenal atresia and Kasabach–Merritt syndrome

<https://pubmed.ncbi.nlm.nih.gov/33325401>

Role of lung ultrasound in the assessment of recruitment maneuvers in ventilated preterm neonates with respiratory distress syndrome and its correlation with tracheal IL-6 levels: A randomized controlled trial

<https://pubmed.ncbi.nlm.nih.gov/33325403>

Anal skin tag – an unusual presenting feature of food protein-induced allergic proctocolitis in a neonate

<https://pubmed.ncbi.nlm.nih.gov/33216045>

Behavioral and neuroanatomical outcomes following altered serotonin expression in a hypoxic-ischemic injury neonate rodent model

<https://pubmed.ncbi.nlm.nih.gov/33164949>

TLR2 and TLR4 expressions in late-onset neonatal sepsis: Is it a potential novel biomarker?

<https://pubmed.ncbi.nlm.nih.gov/33164948>

Obstetrician patterns of steroid administration for the prenatal management of congenital pulmonary airway malformations

<https://pubmed.ncbi.nlm.nih.gov/33164951>

Comparison of outcomes of infants with giant omphaloceles over two decades

<https://pubmed.ncbi.nlm.nih.gov/33164950>

Urinary tract infections in very low birthweight infants: A two-center analysis of microbiology, imaging and heart rate characteristics

<https://pubmed.ncbi.nlm.nih.gov/33136069>

Primary neuronal dysmaturation in preterm brain: Important and likely modifiable

<https://pubmed.ncbi.nlm.nih.gov/33136070>

Which long line do we use in very low birth weight neonates; umbilical venous catheter or peripherally inserted central catheter?

<https://pubmed.ncbi.nlm.nih.gov/33104045>

Serum cytokine profiling in neonates with hypoxic ischemic encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/33074195>

Basal ganglia echogenicity in preterm infants: A case series

<https://pubmed.ncbi.nlm.nih.gov/33074194>

Predictability of transcutaneous bilirubinometry in late preterm and term infants at risk for pathological hyperbilirubinemia

<https://pubmed.ncbi.nlm.nih.gov/33074197>

Survival rate of very low birth weight infants over a quarter century (1994 –2019): A single-institution experience

<https://pubmed.ncbi.nlm.nih.gov/33074199>

Effect of head covering on phototherapy induced hypocalcemia in term neonates with hyperbilirubinemia: A randomised controlled study

<https://pubmed.ncbi.nlm.nih.gov/33074196>

Nonimmune hydrops fetalis management from the perspective of fetal cardiologists: A single tertiary center experience from Egypt

<https://pubmed.ncbi.nlm.nih.gov/33074198>

Interaction between pulmonary vasculature and the patent ductus arteriosus in very premature infants

<https://pubmed.ncbi.nlm.nih.gov/33044200>

Reducing admission hypothermia in newborns at a tertiary care NICU of northern India: A quality improvement study

<https://pubmed.ncbi.nlm.nih.gov/33044201>

Pre-discharge growth pattern of very low birth weight infants (VLBW): A 5 year single center experience

<https://pubmed.ncbi.nlm.nih.gov/33044202>

Management of severe right lung cystic pulmonary interstitial emphysema in an infant at 24 weeks gestation with bedside selective left main stem bronchial intubation: Case report and review of the literature

<https://pubmed.ncbi.nlm.nih.gov/32986686>

Renal cystic diseases during the perinatal and neonatal period

<https://pubmed.ncbi.nlm.nih.gov/32986687>

Risk factors for postoperative hyperglycemia in neonates

<https://pubmed.ncbi.nlm.nih.gov/32925115>

Accuracy of parent-reported ages and stages questionnaire in assessing the motor and language skills of preterm infants

<https://pubmed.ncbi.nlm.nih.gov/32894254>

Prophylaxis for ophthalmia neonatorum in Brazil: A snapshot using a multi-professional national survey

<https://pubmed.ncbi.nlm.nih.gov/32894255>

Case report of neonatal ductus venosus atresia

<https://pubmed.ncbi.nlm.nih.gov/32925113>

Seroprevalence and risk factors of Toxoplasma gondii infection in women with recurrent fetal loss from the province of Khyber Pakhtunkhwa, Pakistan

<https://pubmed.ncbi.nlm.nih.gov/32925112>

Effects of antioxidant MnTBAP on angiogenesis in newborn mice with hyperoxic lung injury

<https://pubmed.ncbi.nlm.nih.gov/32804105>

Management of transient central diabetes insipidus with intravenous desmopressin in a premature infant with gastroschisis and septo-optic dysplasia: A case report

<https://pubmed.ncbi.nlm.nih.gov/32804104>

Meta-analysis comparing temperature on arrival at the referral hospital of newborns with hypoxic ischemic encephalopathy cooled with a servo-controlled device versus no device during transport

<https://pubmed.ncbi.nlm.nih.gov/32741783>

Use of hyperbaric oxygen therapy of purpura fulminans in an extremely low birth weight preterm: A case report

<https://pubmed.ncbi.nlm.nih.gov/32741781>

Diagnostics and therapy of bilateral choanal atresia in association with CHARGE syndrome

<https://pubmed.ncbi.nlm.nih.gov/32741782>

Kangaroo mother care can improve the short-term outcomes of very preterm infants

<https://pubmed.ncbi.nlm.nih.gov/32568123>

The impact of targeted oxygen reduction test in preterm infants on reducing the oxygen exposure

<https://pubmed.ncbi.nlm.nih.gov/32538878>

Prevalence and clinical characteristics of perinatal chronic lung disease by infant gestational age

<https://pubmed.ncbi.nlm.nih.gov/32474477>

Combination percutaneous and medical management of cardiac rhabdomyomas obstructing tricuspid valve inflow: Case report

<https://pubmed.ncbi.nlm.nih.gov/32333554>

Inguinal hernia repair among Jordanian infants: A cohort study from a university based tertiary center

<https://pubmed.ncbi.nlm.nih.gov/32333557>

Bedside sonography performed by neonatology residents to confirm central vascular catheter position in neonates - A Prospective Diagnostic Evaluation study

<https://pubmed.ncbi.nlm.nih.gov/32310193>

The roles played by IL-10, IL-23 and IL-17A in term delivery

<https://pubmed.ncbi.nlm.nih.gov/32310191>

Neonatal outcomes following previable prelabour rupture of membranes before 23 weeks of gestation- a retrospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/32224534>

Development of a prenatal clinical care pathway for uncomplicated gastroschisis and literature review

<https://pubmed.ncbi.nlm.nih.gov/32145003>

Safety of immediate skin-to-skin contact after vaginal birth in vigorous late preterm neonates – A pilot study

<https://pubmed.ncbi.nlm.nih.gov/32083594>

Maternal risk factors associated with inadequate testing and loss to follow-up in infants with perinatal hepatitis C virus exposure

<https://pubmed.ncbi.nlm.nih.gov/32039866>

Non-invasive fetal electrocardiography ameliorates fetal outcome in chorioangioma: A case report

<https://pubmed.ncbi.nlm.nih.gov/32007964>

Successful conservative managements of extensive pneumatoceles in a preterm girl: A case report

<https://pubmed.ncbi.nlm.nih.gov/31903998>

Maternal Health, Neonatology and Perinatology

Effects of timing of umbilical cord clamping on preventing early infancy anemia in low-risk Japanese term infants with planned breastfeeding: a randomized controlled trial (PDF)

<https://mhnpjournal.biomedcentral.com/track/pdf/10.1186/s40748-021-00125-7.pdf>

Case report: necrotizing enterocolitis with a transverse colonic perforation in a 2-day old term neonate and literature review (PDF)

<https://mhnpjournal.biomedcentral.com/track/pdf/10.1186/s40748-020-00124-0.pdf>

A scoping review of severe maternal morbidity: describing risk factors and methodological approaches to inform population-based surveillance (PDF)

<https://mhnpjournal.biomedcentral.com/track/pdf/10.1186/s40748-020-00123-1.pdf>

Surgical site infection and its association with rupture of membrane following cesarean section in Africa: a systematic review and meta-analysis of published studies (PDF)

<https://mhnpjournal.biomedcentral.com/track/pdf/10.1186/s40748-020-00122-2.pdf>

Perinatal mortality and its determinants in Sub Saharan African countries: systematic review and meta-analysis (PDF)

<https://mhnpjournal.biomedcentral.com/track/pdf/10.1186/s40748-020-00120-4.pdf>

Neoreviews

Update on the use of intravenous immunoglobulin in pregnancy

<https://pubmed.ncbi.nlm.nih.gov/33386311>

Protection of the newborn through vaccination in pregnancy

<https://pubmed.ncbi.nlm.nih.gov/33386312>

Neonatal dermatology: The normal, the common, and the serious

<https://pubmed.ncbi.nlm.nih.gov/33386313>

Case 1: Case of lactic acidosis in a term neonate

<https://pubmed.ncbi.nlm.nih.gov/33386314>

Case 2: An inguinoscrotal swelling in a neonate at birth: It's time to expect the unexpected

<https://pubmed.ncbi.nlm.nih.gov/33386315>

Case 3: Case of a drooling infant

<https://pubmed.ncbi.nlm.nih.gov/33386316>

A tonic-clonic seizure at 27 weeks' gestation

<https://pubmed.ncbi.nlm.nih.gov/33386317>

Severe intrauterine growth restriction, thrombocytopenia, and direct hyperbilirubinemia in a 26-week premature infant

<https://pubmed.ncbi.nlm.nih.gov/33386318>

Fetal micrognathia and airway establishment on placental support

<https://pubmed.ncbi.nlm.nih.gov/33386319>

JAMA Pediatrics

Cannula with long and narrow tubing vs short binasal prongs for noninvasive ventilation in preterm infants: noninferiority randomized clinical trial

<https://pubmed.ncbi.nlm.nih.gov/33165539>

BMC Pediatrics

Introduction and feeding practices of solid food in preterm infants born in Salzburg!

<https://pubmed.ncbi.nlm.nih.gov/33499832>

Annual trend of neonatal mortality and its underlying causes: population-based study – São Paulo State, Brazil, 2004–2013

<https://pubmed.ncbi.nlm.nih.gov/33499817>

Portal vein thrombosis and food protein-induced allergic proctocolitis in a premature newborn with hypereosinophilia: a case report

<https://pubmed.ncbi.nlm.nih.gov/33485314>

Mothers' experiences of parenting and everyday life of children born at 23 weeks of gestation – a qualitative descriptive study

<https://pubmed.ncbi.nlm.nih.gov/33485315>

Analysis of cranial type characteristics in term infants: a multi-center study

<https://pubmed.ncbi.nlm.nih.gov/33468075>

Feeding patterns and BMI trajectories during infancy: a multi-ethnic, prospective birth cohort

<https://pubmed.ncbi.nlm.nih.gov/33441111>

Effectiveness of FIBEROPTIC phototherapy compared to conventional phototherapy in treating HYPERBILIRUBINEMIA amongst term neonates: a randomized controlled trial

<https://pubmed.ncbi.nlm.nih.gov/33430819>

Effectiveness of the close collaboration with parents intervention on parent-infant closeness in NICU

<https://pubmed.ncbi.nlm.nih.gov/33430816>

Effects of nutrition therapy on growth, inflammation and metabolism in immature infants: a study protocol of a double-blind randomized controlled trial (ImNuT)

<https://pubmed.ncbi.nlm.nih.gov/33430816>

MW RK *Modified lung ultrasound score predicts ventilation requirements in neonatal respiratory distress syndrome

<https://pubmed.ncbi.nlm.nih.gov/33407270>

Perinatal factors influencing the neonatal hearing screening results

<https://pubmed.ncbi.nlm.nih.gov/33407257>

The association of care transitions measure-15 score and outcomes after discharge from the NICU

<https://pubmed.ncbi.nlm.nih.gov/33397291>

Vancomycin-lock therapy for prevention of catheter-related bloodstream infection in very low body weight infants

<https://pubmed.ncbi.nlm.nih.gov/33397325>

Pediatric Critical Care Medicine

The relationship between preoperative feeding exposures and postoperative outcomes in infants with congenital heart disease

<https://pubmed.ncbi.nlm.nih.gov/33009358>

Prevalence and outcomes of congenital heart disease in very low birth weight preterm infants: an observational study from the Brazilian neonatal network database

<https://pubmed.ncbi.nlm.nih.gov/33021513>

Hemodynamic response to fluid boluses for hypotension in children in a cardiac ICU

<https://pubmed.ncbi.nlm.nih.gov/33079893>

New England Journal of Medicine

Visible intestinal peristalsis in a neonate

<https://pubmed.ncbi.nlm.nih.gov/33393744>

Lancet

No relevant content

JAMA

A piece of my mind: Shared grief

<https://pubmed.ncbi.nlm.nih.gov/33496778>

A piece of my mind: Root cause analysis

<https://pubmed.ncbi.nlm.nih.gov/33464340>

Neonatal abstinence syndrome and maternal opioid-related diagnoses in the US, 2010-2017

<https://pubmed.ncbi.nlm.nih.gov/33433576>

BMJ

No relevant content

Pediatric Infectious Disease Journal

Mupirocin and chlorhexidine genotypic resistance found in *Staphylococcus aureus* isolated from young infants below 90 days old: a genetic basis for eradication failure

<https://pubmed.ncbi.nlm.nih.gov/32925545>

Late-onset hearing loss from congenital Cytomegalovirus infection after newborn period in a highly immune population in China

<https://pubmed.ncbi.nlm.nih.gov/33284252>

Inherited chromosomally integrated Human Herpesvirus 6: an unexpected finding in a septic neonate

<https://pubmed.ncbi.nlm.nih.gov/33284253>

Ocular outcome of Brazilian patients with congenital Toxoplasmosis

<https://pubmed.ncbi.nlm.nih.gov/33060522>

Prevalence of capsular serotype, pilus island distribution, and antibiotic resistance in pediatric and adult invasive Group B *Streptococcus* isolates: data from a nationwide prospective surveillance study in Germany

<https://pubmed.ncbi.nlm.nih.gov/33201062>

Pediatric Cardiology

No relevant content

Pediatric Neurology

No relevant content

Obstetrics and Gynecology

Risk of clinically significant chromosomal microarray analysis findings in fetuses with nuchal translucency from 3.0 mm through 3.4 mm

<https://pubmed.ncbi.nlm.nih.gov/33278279>

American Journal of Obstetrics & Gynecology

Amniotic fluid il-6 and il-8 are superior predictors of fetal lung injury compared to maternal or fetal plasma cytokines or placental histopathology in a nonhuman primate model

<https://www.ncbi.nlm.nih.gov/pubmed/33412130>

Hospital Pediatrics

Maternal smoking in pregnancy and child's hospital use up to 5 years of age in a data linkage birth cohort

<https://pubmed.ncbi.nlm.nih.gov/33268337/>

BASIC SCIENCE SELECTIONS

Evaluation of recombinant human SP-D in the rat premature lung model

Arroyo R, Grant SN, Gouwens KR, et al. *Ann Anat.*

<https://www.ncbi.nlm.nih.gov/pubmed/33444741>

Cellular clocks in hyperoxia effects on [Ca(2+)]i regulation in developing human airway smooth muscle
Bartman CM, Matveyenko A, Pabelick CM, et al. *Am J Physiol Lung Cell Mol Physiol*.
<https://www.ncbi.nlm.nih.gov/pubmed/33404366>

Restoration of surfactant activity by polymyxin B in lipopolysaccharide-potentiated injury of immature rabbit lungs
Calkovska A, Haegerstrand-Björkman M, Curstedt T, et al. *Sci Rep*.
<https://www.ncbi.nlm.nih.gov/pubmed/33420141>

Prematurity blunts the insulin- and amino acid-induced stimulation of translation initiation and protein synthesis in skeletal muscle of neonatal pigs
Rudar M, Naberhuis JK, Suryawan A, et al. *Am J Physiol Endocrinol Metab*.
<https://www.ncbi.nlm.nih.gov/pubmed/33427053>

Dissociable effects of dietary sodium in early life upon somatic growth, fluid homeostasis, and spatial memory in mice of both sexes
Segar JL, Grobe CC, Balapattabi K, et al. *Am J Physiol Regul Integr Comp Physiol*.
<https://www.ncbi.nlm.nih.gov/pubmed/33439766>

Parenteral fish-oil containing lipid emulsions limit initial lipopolysaccharide-induced host immune responses in preterm pigs
Yakah W, Ramiro-Cortijo D, Singh P, et al. *Nutrients*.
<https://www.ncbi.nlm.nih.gov/pubmed/33445698>

mGlu3 receptor regulates microglial cell reactivity in neonatal rats
Zinni M, Mairesse J, Pansiot J, et al. *J Neuroinflammation*.
<https://www.ncbi.nlm.nih.gov/pubmed/33407565>

Clinical

Incidence of brain lesions in moderate-late preterm infants assessed by cranial ultrasound and MRI: The BIMP-study
Boswinkel V, Krüse-Ruijter MF, Nijboer-Oosterveld J, et al. *Eur J Radio*.
<https://www.ncbi.nlm.nih.gov/pubmed/33429207>

Non-invasive continuous renal tissue oxygenation monitoring to identify preterm neonates at risk for acute kidney injury
Harer MW, Adegboro CO, Richard LJ, et al. *Pediatr Nephrol*.
<https://www.ncbi.nlm.nih.gov/pubmed/33389091>

Vancomycin-lock therapy for prevention of catheter-related bloodstream infection in very low body weight infants
Liang H, Zhang L, Guo X, et al. *BMC Pediatr*.
<https://www.ncbi.nlm.nih.gov/pubmed/33397325>

Automated brain morphometric biomarkers from MRI at term predict motor development in very preterm infants
Kline JE, Illapani VSP, He L, et al. *Neuroimage Clin*.
<https://www.ncbi.nlm.nih.gov/pubmed/33395969>

Protein levels and protease activity in milk from mothers of pre-term infants: A prospective longitudinal study of human milk macronutrient composition
Caldeo V, Downey E, O'Shea CA, et al. *Clin Nutr*.

<https://www.ncbi.nlm.nih.gov/pubmed/33419616>

The general movements assessment in neonates with hypoxic ischemic encephalopathy

Pouppirt NR, Martin V, Pagnotto-Hammit L, et al. *J Child Neurol*.

<https://www.ncbi.nlm.nih.gov/pubmed/33439066>

Azithromycin for preventing bronchopulmonary dysplasia in preterm infants: A systematic review and meta-analysis

Razak A, Alshehri N, et al. *Pediatr Pulmonol*.

<https://www.ncbi.nlm.nih.gov/pubmed/33382534>

Inflammation-associated gene polymorphisms and clinical variables in the incidence and progression of retinopathy of prematurity

Szpecht D, Chmielarz-Czarnocińska A, Gadzinowski J, et al. *Cent Eur J Immunol*.

<https://www.ncbi.nlm.nih.gov/pubmed/33437180>