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Section on Neonatal-Perinatal Medicine

ARTICLES OF INTEREST – September 2025

Positive impact of sodium L-lactate supplementation on blood acid-base status in preterm newborns

Ifrah Omar Ibrahim, Chloé Perrot, Hélène Roumes, et al. *Pediatr Res*

The authors sought to assess the effects of Na-L-lactate infusion on blood parameters. They retrospectively analyzed blood parameters in 60 premature neonates during their first days of life. Among them, 30 received Na-L-lactate instead of Na-Cl to prevent hyperchloremic acidosis. Blood pH, lactatemia, bicarbonates, glycemia, natremia, chloremia, base excess, and hemoglobin were monitored before, during, and after Na-L-lactate infusion. They found that Na-L-lactate infusion lowered blood lactate levels while increasing pH from 7.25 to 7.31. After stopping the infusion, lactatemia was 1.9 mM, and pH reached 7.32. Na-L-lactate supplementation effectively restored normal blood pH, maintained natremia, and prevented hyperchloremia. Notably, even in cases of high initial lactatemia, lactate levels decreased during the infusion. The authors conclude that their data are promising and emphasize the need for further research to explore its potential applications in neonatal clinical care.

Beneficial vs harmful effects of pharmacological treatment of patent ductus arteriosus: A Bayesian meta-analysis

Eduardo Villamor, Gloria Galán-Henríquez, František Bartoš, et al. *Pediatr Res*

Randomized controlled trials (RCTs) have failed to demonstrate the beneficial effects of the pharmacological treatment of patent ductus arteriosus (PDA) in preterm infants. The authors conducted a Bayesian model averaged (BMA) meta-analysis of RCTs comparing the pharmacological treatment of PDA with placebo or expectant treatment. The primary outcome was mortality and secondary outcomes included bronchopulmonary dysplasia (BPD). Five RCTs were included (1341 infants). BMA showed strong evidence in favor of the harmful effect of medication

for BPD and BPD or death. When the two largest trials, which used early (<72 h) ibuprofen in infants with GA ≤ 28 weeks, were pooled, the BMA demonstrated moderate evidence in favor of higher mortality in the medication group. The authors conclude that pharmacological treatment of PDA in extremely preterm infants may result in more complications than clinical benefit.

Unraveling optimal dose and responsive markers for human cord blood derived mononuclear cells in alleviating bronchopulmonary dysplasia in neonatal mice
Jia Chen, Yuhan Chen, Xue Du, et al. *Int J Stem Cells*

An increasing number of animal studies have revealed that human umbilical cord blood derived mononuclear cells (hUCB-MNCs) infusion significantly attenuated the hyperoxia-induced acute lung injury through regeneration capacity. In this work, the authors comprehensively investigated the optimal dose of hUCB-MNCs in alleviating hyperoxia-induced lung injury in neonatal C57BL6/J mice. Implantation of hUCB-MNCs sharply reverted the impaired lung architecture induced by hyperoxia exposure dose dependently as evidenced by indicated parameters. Attenuated expression of IL-1beta concomitant with enhanced expression of IL-10 and IL-2 were shown in Dh inoculated groups, where Dl and Dm failed to restore the level of IL-10, IL-1beta and IL-2. Mechanistically, the study revealed the appropriate dose of intravenous infusion of hUCB-MNCs in alleviating hyperoxia-induced lung injury through modulating reactive oxygen species response in neonatal mice. Therefore, a tight control of hUCB-MNCs density or levels of CB-MNC related products is of great significance.

Assessment of the protective effects of milk osteopontin in necrotizing enterocolitis neonatal rat model
Lan Liu, Xuexue Li, Chenming Lin, et al. *J Nutr Biochem*

This study employed a neonatal rat model to investigate the protective effects of milk OPN against necrotizing enterocolitis (NEC), a devastating gastrointestinal disease leading high morbidity and mortality in infants. In NEC-affected rat pups, milk OPN enhanced the survival rates, and alleviated the ileum tissue damage. Immunofluorescence staining revealed that milk OPN significantly promoted intestinal cell proliferation and migration ($p < 0.05$). Moreover, milk OPN was found to reduced the expression of pro-inflammatory cytokines IL-6 and TNF-alpha in ileum tissue ($p < 0.05$). Our findings demonstrate the protective effects of milk OPN on NEC and propose that milk OPN may be utilized as a preventive measure against inflammatory intestinal diseases in early developmental stages.

Nasal mask ventilator-delivered versus face maskT-piece resuscitator positive pressure ventilation during resuscitation of preterm neonates: a cohort study
Nosheen Akhtar, Aman Hemani, Bonny Jasani, et al. *Arch Dis Child Fetal Neonatal Ed*

A cohort study evaluating the effectiveness of nasal mask ventilator-delivered positive pressure ventilation (PPV) versus face mask manual T-piece resuscitator PPV of preterm neonates born 25 0/7–28 6/7 weeks who received PPV < 10 minutes during resuscitation after birth. Epoch 1 (face mask manual T-piece resuscitator PPV) and Epoch 2 (nasal mask ventilator-delivered PPV) were compared. Primary outcome was incidence of emergent intubation (EI) during resuscitation; secondary outcomes included rates of advanced resuscitation, and early (≤7 days) and late (>7 days) prematurity-related morbidities. Neonates in epoch 2 had lower rates of EI (16% vs 44%; p<0.001) and less use of post-resuscitation invasive ventilation (22% vs 59%; p<0.001). Secondary outcomes were similar between groups. This study shows a possible alternative method to provide PPV in the delivery room setting with the need of an RCT to further assess the benefits and risks of two devices for giving PPV.

Effect of bilirubin on visuocortical development in preterm infants
William V Good, Ronald J Wong, Anthony M Norcia, et al. *J Perinatol*

This was a prospective cohort study assessing the effect of high bilirubin levels on visuocortical development in premature infants, born <37 weeks gestation. Thresholds for initiating phototherapy were defined using the web-based Premie BiliRecs™ CDS tool for infants 27 to < 35 weeks' gestation; AAP Guideline for ≥ 35 to < 37 weeks' gestation; and clinician discretion for < 27 weeks' gestation. Vernier acuity, contrast sensitivity, and grating acuity assessed at 12-months corrected age. In this study, Vernier acuity and contrast sensitivity worsened TSB levels increased during their neonatal period regardless of receiving phototherapy. Similar findings were seen in previous study with term infants. These findings are consistent with bilirubin neurotoxicity (bilirubin causing impairment of auditory signal processing). Further studies assessing visuocortical development in relation to bilirubin may be warranted.

Deferred cord clamping with high oxygen in extremely preterm infants: a randomized clinical trial.
Anup C Katheria, Felix Ines, Henry C Lee, et al. *JAMA Pediatr*

This double-blind randomized clinical trial included 140 infants born at 22 to 28 weeks gestation. Infants were randomized to receive either CPAP or PPV during delayed cord clamping and were randomized to either 30% (low oxygen group) or 100% (high oxygen group) using a concealed blender. After the umbilical cord was clamped and cut, each infant was resuscitated per contemporary guidelines (30% oxygen and titration based on saturation of peripheral oxygen). The absolute risk difference between the 2 groups was 0.3 (95% CI, 0.26-0.35), indicating that the high oxygen group had a 30% lower risk of experiencing hypoxemia (POX less than 80%) at 5 minutes after birth.

Prenatal opioid exposure is associated with punctate white matter lesions in term newborns
Stephanie L Merhar, Carla M Bann, Nicole Mack, et al. *J Pediatr*

This study compared newborns ≥37 weeks of gestation with prenatal opioid exposure with unexposed controls who underwent brain MRI at 0-1 months of age in the prospective observational Outcomes of Babies with Opioid Exposure study. Opioid-exposed newborns (n = 165) had lower birth weight and smaller head circumference and were more likely to have mothers who smoked, were positive for hepatitis C, and had limited education than unexposed neonates (n = 94); 27% of exposed newborns had 1 or more punctate white matter lesions compared with 13% of unexposed newborns (P = .031). After adjusting for covariates, opioid exposure was associated with higher odds of punctate white matter lesions (aOR: 2.68, 95% CI: 1.07-6.72, P = .04), with methadone exposure worse than buprenorphine and other opioids (aOR: 3.25, 95% CI: 1.21-8.75, P = .02).

OTHER NOTEWORTHY PUBLICATIONS – September 2025

Pediatrics

Temperature percentiles by hour of life in the newborn nursery
https://pubmed.ncbi.nlm.nih.gov/40840918
Supporting parents of infants with chronic critical illness in the transition from Nicu to home
https://pubmed.ncbi.nlm.nih.gov/40862930
Maternal and infant opioid screening for neonates at risk
https://pubmed.ncbi.nlm.nih.gov/40789584

Journal of Pediatrics

Executive function outcomes at school age in children born moderate-to-late preterm
https://pubmed.ncbi.nlm.nih.gov/40345573
In utero exposure to gestational diabetes and child health at age three to seven: a cohort study
https://pubmed.ncbi.nlm.nih.gov/40368241
Fluid balance in infants born at 22-23 weeks of gestation: trajectories and associations with outcomes
https://pubmed.ncbi.nlm.nih.gov/40389134
Impact of systole phase on ventricular outflow tract diameter and cardiac output calculation in infants born preterm: a clinical validation study
https://pubmed.ncbi.nlm.nih.gov/40409358
Biochemical features and clinical factors influencing response to surfactant treatment among infants born late preterm with respiratory distress syndrome
https://pubmed.ncbi.nlm.nih.gov/40373953
Prenatal opioid exposure is associated with punctate white matter lesions in term newborns
https://pubmed.ncbi.nlm.nih.gov/40414418
Neonatal critical illness, 8-year white matter microstructure, and motor function in children born very preterm
https://pubmed.ncbi.nlm.nih.gov/40412470

Pediatric Research

Are we ready for volume targeting during high-frequency oscillatory ventilation in neonates?
https://pubmed.ncbi.nlm.nih.gov/40097824/
Can we really predict the respiratory morbidity of preterm birth?
https://pubmed.ncbi.nlm.nih.gov/40102574/
Recommended nutrition for preterm infants—on track, but more research is needed
https://pubmed.ncbi.nlm.nih.gov/40189634/
Babies' lungs are not balloons: is it time to embrace electrical impedance tomography?
https://pubmed.ncbi.nlm.nih.gov/40335639/
L-lactate provision in preterm newborns: friend or foe?
https://pubmed.ncbi.nlm.nih.gov/40287605/
Comparing machine learning techniques for neonatal mortality prediction: insights from a modeling competition
https://pubmed.ncbi.nlm.nih.gov/39681666/
AI models in clinical neonatology: a review of modeling approaches and a consensus proposal for standardized reporting of model performance
https://pubmed.ncbi.nlm.nih.gov/39681669/
Electrical impedance tomography in neonates: a review
https://pubmed.ncbi.nlm.nih.gov/39987341/
High-frequency oscillatory ventilation with volume guarantee in infants: a systematic review
https://pubmed.ncbi.nlm.nih.gov/40113997/
Ethical challenges in conducting maternal-fetal surgery trials. A systematic review
https://pubmed.ncbi.nlm.nih.gov/39639107/
Home phototherapy for neonatal hyperbilirubinemia: current practices and attitudes
https://pubmed.ncbi.nlm.nih.gov/39672825/
Building a growing genomic repository for maternal and fetal health through the PING Consortium
https://pubmed.ncbi.nlm.nih.gov/38826415/
Development and validation of a prediction model for bronchopulmonary dysplasia using respiratory severity score
https://pubmed.ncbi.nlm.nih.gov/39900835/
Impact of early nutrition on brain development and neurocognitive outcomes in very preterm infants
https://pubmed.ncbi.nlm.nih.gov/40038458/
Comparison of nasal microbiota between preterm and full-term infants in early life
https://pubmed.ncbi.nlm.nih.gov/39616239/
Effects of infant feeding type on auditory event-related potentials at 24 months of age
https://pubmed.ncbi.nlm.nih.gov/39639106/
Platelet characteristics in extremely preterm infants after fatty acid supplementation: a randomized controlled trial
https://pubmed.ncbi.nlm.nih.gov/39702768/
Isolated congenital diaphragmatic hernia and three-year neurodevelopmental outcomes
https://pubmed.ncbi.nlm.nih.gov/39843779/

The application of magnetic susceptibility separation for measuring cerebral oxygenation in preterm neonates
https://pubmed.ncbi.nlm.nih.gov/40108431/
Prolonged early-life antibiotic exposure alters gut microbiota but does not exacerbate lung injury in a rat pup model
https://pubmed.ncbi.nlm.nih.gov/40204871/
Circadian clock activity in human umbilical vein endothelial cells of preterm and term neonates
https://pubmed.ncbi.nlm.nih.gov/39672824/

Archives of Disease in Childhood - Fetal & Neonatal Edition
Improving outcomes for very preterm babies in England: does place of birth matter? Findings from OPTI-PREM, a national cohort study
https://pubmed.ncbi.nlm.nih.gov/39730195/
Plasma transfusions in neonatal intensive care units: a prospective observational study
https://pubmed.ncbi.nlm.nih.gov/39832820/
Neonatal skin antisepsis with alcohol-based compared to aqueous 2% chlorhexidine, used in moderate preterm infants or extremely preterm infants after the first week of life, is safe and may be associated with a reduced incidence of catheter-related bloodstream infections
https://pubmed.ncbi.nlm.nih.gov/39904602/
Outcomes used to measure the clinical application of neonatal palliative and/or end-of-life care in neonatal settings: a systematic review
https://pubmed.ncbi.nlm.nih.gov/39890444/
Cerebral injury and long-term neurodevelopment impairment in children following severe fetomaternal transfusion: a retrospective cohort study
https://pubmed.ncbi.nlm.nih.gov/39870509/
Video analysis of neonatal intubations using video laryngoscopy: a prospective comparison of clinical practice with resuscitation guidelines
https://pubmed.ncbi.nlm.nih.gov/39832821/
Nasal mask ventilator-delivered versus face maskT-piece resuscitator positive pressure ventilation during resuscitation of preterm neonates: a cohort study
https://pubmed.ncbi.nlm.nih.gov/39919826/
Motor and functional characteristics in school-age survivors of congenital diaphragmatic hernia: a cross-sectional observational study
https://pubmed.ncbi.nlm.nih.gov/39956558/
Success and safety of neonatal endotracheal tube exchanges: a NEAR4NEOS multicentre retrospective cohort study
https://pubmed.ncbi.nlm.nih.gov/39922689/
Association between maternal sociodemographic characteristics and exclusive mother's own milk feeding in preterm infants: a cohort study using data from the National Neonatal Research Database
https://pubmed.ncbi.nlm.nih.gov/40011027/

A novel human milk fortifier supports adequate growth in very low birth weight infants: a non-inferiority randomised controlled trial
https://pubmed.ncbi.nlm.nih.gov/40037774/

Journal of Perinatology

Comparison of first trimester preeclampsia combined screening performances with various approaches in the Indonesian population
https://pubmed.ncbi.nlm.nih.gov/40394239/

Inequities in prenatal neonatology consultation in high-mortality neonatal populations
https://pubmed.ncbi.nlm.nih.gov/40836115/

Prenatal counseling for heart disease: Perception of understanding and communication gaps
https://pubmed.ncbi.nlm.nih.gov/40841431/

Who decides? Exploring decisional dynamics for periviable resuscitation among diverse family structures
https://pubmed.ncbi.nlm.nih.gov/40234600/

Care of neonates following in-utero growth restriction: A prospective cohort study exploring neonatal morbidity
https://pubmed.ncbi.nlm.nih.gov/40841433/

Sociodemographic characteristics of maternal presence in neonatal intensive care: an intersectional analysis
https://pubmed.ncbi.nlm.nih.gov/39572691/

Unconditional cash transfers to low-income preterm infants and their families: a pilot randomized controlled trial
https://pubmed.ncbi.nlm.nih.gov/40216998/

Clinical outcomes after implementation of a physiologic pre-operative management strategy in neonates with congenital diaphragmatic hernia
https://pubmed.ncbi.nlm.nih.gov/40676197/

Golden hour management of infants with congenital diaphragmatic hernia: 15 year experience at a high-volume center
https://pubmed.ncbi.nlm.nih.gov/39984718/

Antibiotic exposure and infection epidemiology among newborns with congenital diaphragmatic hernia
https://pubmed.ncbi.nlm.nih.gov/40825864/

Effects of a remote patient monitoring program on cost of care for neonates with inadequate oral feeding
https://pubmed.ncbi.nlm.nih.gov/40506451/

Initiation of enteral feeding as per current protocol (at 24 h) versus as per clinical status (from 6 h onwards) in neonates born with antenatal reversed end diastolic flow (REDF) in the umbilical artery Doppler: a pilot randomized controlled trial
https://pubmed.ncbi.nlm.nih.gov/40188272/

Exclusive human milk diet is associated with lower risk of motor function impairment at three years of corrected age
https://pubmed.ncbi.nlm.nih.gov/40259098/
Late onset hearing loss in very low birth weight infants
https://pubmed.ncbi.nlm.nih.gov/39994421/
Effect of bilirubin on visuocortical development in preterm infants
https://pubmed.ncbi.nlm.nih.gov/39910190/
Standardizing the diagnosis of necrotizing enterocolitis in infants with congenital heart disease
https://pubmed.ncbi.nlm.nih.gov/39266665/

Neonatology
No new articles

American Journal of Perinatology
The skincubator: a novel incubator for skin-to-skin care (SSC) of premature neonates, enables SSC within humidified environment and may improve thermoregulation during SSC
https://pubmed.ncbi.nlm.nih.gov/39889750
Improved growth velocity using a new liquid human milk fortifier in very low birth weight infants: a multicenter, retrospective study
https://pubmed.ncbi.nlm.nih.gov/39880007
Preterm births and maternal-fetal medicine physician workforce location in the United States
https://pubmed.ncbi.nlm.nih.gov/40049592
Improving first-attempt intubation success rate in a level IV neonatal intensive care unit through the use of a video laryngoscope: a quality improvement initiative
https://pubmed.ncbi.nlm.nih.gov/40049593
Risk and causes of early mortality among extremely preterm infants born small for gestational age
https://pubmed.ncbi.nlm.nih.gov/39909397
Maternal and neonatal risk factors associated with positive toxicology results
https://pubmed.ncbi.nlm.nih.gov/39929242
Impact of coronavirus disease 2019 on the incidence of no prenatal care
https://pubmed.ncbi.nlm.nih.gov/39929243
Early versus late brain magnetic resonance imaging and spectroscopy in infants with neonatal encephalopathy following therapeutic hypothermia
https://pubmed.ncbi.nlm.nih.gov/40148115

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Combination therapy for patent ductus arteriosus in preterm infants: Narrative review
https://pubmed.ncbi.nlm.nih.gov/40336207
Low birth weight among neonates: Investigating incidence, risk factors, and AI-enabled predictive modeling for risk estimation
https://pubmed.ncbi.nlm.nih.gov/40521899

Can B-type natriuretic peptide be used diagnostically for patent ductus arteriosus in extremely preterm infants?
https://pubmed.ncbi.nlm.nih.gov/40521746
Effect of implementing a clinical practice guideline for prophylactic indomethacin on reduction of severe IVH in extremely preterm infants
https://pubmed.ncbi.nlm.nih.gov/40535998
Reliability of comprehensive echocardiography evaluation of patent ductus arteriosus among extremely preterm neonates across a national network: A prospective observational study
https://pubmed.ncbi.nlm.nih.gov/40703041
Understanding and addressing bias in urine drug screening protocols on high-volume labor and delivery units
https://pubmed.ncbi.nlm.nih.gov/40521766

Maternal Health, Neonatology and Perinatology
Navigating the diagnostic dilemma of neonatal dengue syndrome: a review and report
https://pubmed.ncbi.nlm.nih.gov/40890891
Evaluation of an interactive educational intervention to improve nutritional practices for premature infants
https://pubmed.ncbi.nlm.nih.gov/40887668

Neoreviews
Severe combined immunodeficiency in the newborn period
https://pubmed.ncbi.nlm.nih.gov/40887076
Invasive neonatal listeriosis
https://pubmed.ncbi.nlm.nih.gov/40887071
Atypical nasal secretions and cough in a 5-day-old neonate
https://pubmed.ncbi.nlm.nih.gov/40887075
Etiology of acute deterioration in a very preterm twin infant
https://pubmed.ncbi.nlm.nih.gov/40887077
Gestational alloimmune liver disease in pregnancy and the neonate
https://pubmed.ncbi.nlm.nih.gov/40887072

JAMA Pediatrics
Deferred cord clamping with high oxygen in extremely preterm infants: a randomized clinical trial
https://pubmed.ncbi.nlm.nih.gov/40690234
Severe neonatal morbidity and all-cause and cause-specific mortality through infancy and late adolescence
https://pubmed.ncbi.nlm.nih.gov/40493844
Diaphragm position on chest radiograph to estimate lung volume in neonates

https://pubmed.ncbi.nlm.nih.gov/40690243
What parents should understand about infant male circumcision
https://pubmed.ncbi.nlm.nih.gov/40720118

BMC Pediatrics

Neonatal resuscitation knowledge and its determinants among healthcare professionals at Asella referral and teaching hospital, Southeast Ethiopia
https://pubmed.ncbi.nlm.nih.gov/41023638/
Prenatal diagnosis and postnatal management of a complicated pulmonary valve stenosis: a case report
https://pubmed.ncbi.nlm.nih.gov/40993603/
Impact of COVID-19 infection on the sleep of infants and toddlers
https://pubmed.ncbi.nlm.nih.gov/40993557/
Acceptability of immediate CPAP for preterm infants in the delivery room to mothers, caregivers and healthcare workers in a low-resource setting: a qualitative study
https://pubmed.ncbi.nlm.nih.gov/40993583/
Timing of treatment with oral propranolol for infantile hemangioma
https://pubmed.ncbi.nlm.nih.gov/40993581/
Red blood cell transfusion frequency and the risk and severity of bronchopulmonary dysplasia in preterm infants: a retrospective cohort study
https://pubmed.ncbi.nlm.nih.gov/40926206/
Neonatal neurodevelopmental follow-up in the UK: a survey of current practice and future recommendations
https://pubmed.ncbi.nlm.nih.gov/40890728/

Pediatric Critical Care Medicine

Derivation and validation of pediatric sepsis-associated acute kidney injury subphenotypes with prognostic relevance
https://pubmed.ncbi.nlm.nih.gov/40637493/
Acute bronchiolitis in infants on invasive mechanical ventilation: physiology study of airway closure
https://pubmed.ncbi.nlm.nih.gov/40590612/
Clinical and risk analytics associations with extubation failure in children following congenital cardiac surgery: a multicenter retrospective cohort study, 2017–2020
https://pubmed.ncbi.nlm.nih.gov/40736342/
Children with severe neurologic impairment and their families in the PICU: a secondary qualitative analysis to assess clinician-family collaboration and mutuality
https://pubmed.ncbi.nlm.nih.gov/40689712/
Evolution of mechanical ventilation practices in neonatal cardiac patients: single-center retrospective analysis of three 1-year epochs during 2000–2020
https://pubmed.ncbi.nlm.nih.gov/40736370/

New England Journal of Medicine
No relevant articles

Lancet
No relevant articles

JAMA
No relevant articles

BMJ
No relevant articles

Pediatric Infectious Disease Journal
Valacyclovir pharmacokinetics in infants with neonatal herpes simplex virus disease
https://pubmed.ncbi.nlm.nih.gov/40233332
Evaluation of early-onset sepsis calculator among clinically well late-preterm and term neonates: a prospective cohort study
https://pubmed.ncbi.nlm.nih.gov/40272167
Demystifying prolonged antibiotic use for blood culture-negative sepsis evaluations in the neonatal intensive care unit
https://pubmed.ncbi.nlm.nih.gov/40294328
Update on congenital cytomegalovirus: antenatal and postnatal management
https://pubmed.ncbi.nlm.nih.gov/40587492

Pediatric Cardiology
Transcatheter patent ductus arteriosus closure in premature infants: comparison of echocardiogram and angiogram measurements
https://pubmed.ncbi.nlm.nih.gov/39134677
Efficacy and safety of esmolol in neonatal cardiac surgery with cardiopulmonary bypass (CPB) for d-transposition of the great arteries (d-TGA)
https://pubmed.ncbi.nlm.nih.gov/39384584
ECG abnormalities, diastolic blood pressure, and adverse events after systemic to pulmonary artery shunt in infants with congenital heart disease
https://pubmed.ncbi.nlm.nih.gov/39316083
The role of fetal echocardiography in predicting postnatal pulmonary venous obstruction in neonates with TAPVR: a single center experience
https://pubmed.ncbi.nlm.nih.gov/39841185
Fetal right heart strain in systemic right ventricles and impact on post-surgical outcomes
https://pubmed.ncbi.nlm.nih.gov/39123073
Integrating contrastive learning and cycle generative adversarial networks for non-invasive fetal

ECG extraction
https://pubmed.ncbi.nlm.nih.gov/39223338

Pediatric Neurology
No new articles

Obstetrics and Gynecology
Antenatal corticosteroids and child neurodevelopment: a systematic review and meta-analysis
https://pubmed.ncbi.nlm.nih.gov/40472380

American Journal of Obstetrics & Gynecology
Evidence for improved glucose metrics and perinatal outcomes with continuous glucose monitoring compared to self-monitoring in diabetes during pregnancy
https://pubmed.ncbi.nlm.nih.gov/40216177/
Impaired fertility and perinatal outcomes in adenomyosis: insights from a novel murine model and uterine gene profile alterations during implantations
https://pubmed.ncbi.nlm.nih.gov/39986340/
The rapid diagnosis of intraamniotic infection with nanopore sequencing
https://pubmed.ncbi.nlm.nih.gov/39952543/
Long-term outcomes after neonatal acidemia
https://pubmed.ncbi.nlm.nih.gov/39983887/
Funisitis increases the risk of death or cerebral palsy in extremely preterm infants
https://pubmed.ncbi.nlm.nih.gov/40023378/
Delivery timing of placenta accreta spectrum: later is feasible
https://pubmed.ncbi.nlm.nih.gov/39983888/
School performance in offspring born to mothers with hyperemesis gravidarum
https://pubmed.ncbi.nlm.nih.gov/40024595/

Hospital Pediatrics
A quality improvement initiative to improve the discharge process for Spanish-speaking patients
https://pubmed.ncbi.nlm.nih.gov/40789582/
Challenges and solutions to building family-staff relationships in the Nicu: a qualitative study
https://pubmed.ncbi.nlm.nih.gov/40858319/
Use and outcomes of peripherally inserted central catheters in hospitalized infants
https://pubmed.ncbi.nlm.nih.gov/40763931/
What happens when we miss? effect of initial lumbar puncture success on infant sepsis evaluation
https://pubmed.ncbi.nlm.nih.gov/40769511/
Accurate documentation as the first step toward pediatric language justice
https://pubmed.ncbi.nlm.nih.gov/40784671/
Increasing pasteurized donor human milk use in a level 1 newborn nursery
https://pubmed.ncbi.nlm.nih.gov/40835232/

Discordance between observed vs expected prevalence of UTI in newborns with hyperbilirubinemia https://pubmed.ncbi.nlm.nih.gov/40803689/

BASIC SCIENCE SELECTIONS

Mitochondrial DNA driven senescence-associated secretory phenotype facilitates the development of bronchopulmonary dysplasia
https://www.ncbi.nlm.nih.gov/pubmed/40938804

Unraveling optimal dose and responsive markers for human cord blood derived mononuclear cells in alleviating bronchopulmonary dysplasia in neonatal mice
https://www.ncbi.nlm.nih.gov/pubmed/40935787

Assessment of the protective effects of milk osteopontin in necrotizing enterocolitis neonatal rat model
https://www.ncbi.nlm.nih.gov/pubmed/40953610

Sirt1 attenuates necrotizing enterocolitis via Hif-1alpha deacetylation-mediated suppression of Bnip3-Dependent mitophagy
https://www.ncbi.nlm.nih.gov/pubmed/40947034

Human umbilical cord-derived cells therapy for hypoxic-ischemic encephalopathy: a systematic review and meta-analysis of animal models
https://www.ncbi.nlm.nih.gov/pubmed/40988700

Impaired glymphatic transport in hypoxic-ischemic encephalopathy
https://www.ncbi.nlm.nih.gov/pubmed/40769430

Endothelial MEMO1 regulates angiogenic signaling in a model of retinopathy of prematurity
https://www.ncbi.nlm.nih.gov/pubmed/40936746

Clinical

Red blood cell transfusion frequency and the risk and severity of bronchopulmonary dysplasia in preterm infants: a retrospective cohort study
https://www.ncbi.nlm.nih.gov/pubmed/40926206

Respiratory outcomes following late postnatal dexamethasone administration in preterm infants with bronchopulmonary dysplasia
https://www.ncbi.nlm.nih.gov/pubmed/40923652

Early prediction of bronchopulmonary dysplasia by urinary metabolomics: a case-control study
https://www.ncbi.nlm.nih.gov/pubmed/40903289

Feed fortification strategy impact on the risk of necrotizing enterocolitis in infants with complex congenital heart disease
https://www.ncbi.nlm.nih.gov/pubmed/40621630

The association between red blood cell transfusion timing and the development of retinopathy of prematurity: Application of the two-phase theory https://www.ncbi.nlm.nih.gov/pubmed/40008492