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Section on Neonatal-Perinatal Medicine

ARTICLES OF INTEREST – December, 2023

Bifidobacterium infantis as a probiotic in preterm infants: a systematic review and meta-analysis
Vamsi K Batta, Shripada C Rao, Sanjay K Patole, et al. *Pediatr Res.*

Evidence is emerging that beneficial effects of probiotics are species and strain specific. This systematic review analyses if B. infantis supplementation provides an advantage to preterm infants. This is the first systematic review evaluating the effects of probiotics containing B. infantis in preterm infants. The results of this systematic review provides indirect evidence that probiotics that include B. infantis may be more beneficial for preterm infants. These results will help in guiding future research and clinical practice for using B. infantis as a probiotic in preterm infants.

Prenatal brain maturation is delayed in neonates with congenital diaphragmatic hernia
Sandy Johng, Daniel J Licht, Holly L Hedrick, et al. *J Pediatr.*

In this retrospective cohort study using data from a single-center clinical registry, the authors sought to assess brain development in fetuses with congenital diaphragmatic hernia (CDH) using a fetal Total Maturation Score (fTMS). Compared with healthy controls, neonates with CDH had a significant delay in fTMS. Placentas of neonates with CDH had a high proportion of fetal vascular malperfusion and chronic inflammation, and relatively large placentas had a protective effect on prenatal brain maturation. Prenatal brain maturation in neonates with CDH is delayed. The etiology and clinical impact of prenatal brain immaturity in neonates with CDH warrant further investigation.

Duration of simultaneous exposure to high-risk and lower-risk nephrotoxic antimicrobials in the neonatal intensive care unit (NICU) and future adolescent kidney health
Andrew F Schiff, Danielle Deines, Elizabeth T Jensen, et al. *J Pediatr.*

In this prospective cohort study, the authors sought to determine whether greater duration of simultaneous exposure to antimicrobials with high nephrotoxicity risk combined with lower-risk antimicrobials (simultaneous exposure) in the NICU is associated with worse later kidney health in adolescents born preterm with VLBW. Despite frequent simultaneous exposure to high-risk combined with lower-risk nephrotoxic antimicrobials in the NICU, there were no clinically relevant associations with worse kidney health identified in adolescence. Although future studies are needed, these findings may provide reassurance in a population thought to be at increased risk of chronic kidney disease.

Umbilical cord milking versus delayed cord clamping in infants 28 to 32 weeks: a randomized trial.
Anup Katheria, Jeff Szychowski, Waldemar A Carlo, et al. *Pediatrics.*

This multi-center non-inferiority randomized controlled trial compared umbilical cord milking in 1019 preterm infants born 28 to 32 weeks. For the primary outcome, infants randomized to umbilical cord milking developed severe IVH or died compared to 7 of 508 (1.4%) infants randomized to delayed cord clamping (rate difference 0.01%, 95% confidence interval: (-1.4% to 1.4%), P = .99). The authors concluded that umbilical cord milking may be a safe alternative to delayed cord clamping in premature infants born at 28 to 32 weeks who require resuscitation.

Preterm birth and infantile appendicitis.
Yakun Liu, Xiaoxiao Yu, Guoqing Zhang, et al. *Pediatrics.*

This retrospective, multi-center, matched case-control study included consecutive patients <1 year of age with surgery- or autopsy-confirmed appendicitis (n=106). For each case, 10 healthy infants were randomly selected and matched by age (n=1060). In multivariable analyses, preterm remained significantly associated with appendicitis (adjusted OR, 3.32; 95%CI, 1.76-6.24). However, preterm did not significantly influence the incidence of appendiceal perforation. The authors concluded that preterm infants have an increased risk of appendicitis during the first year of life and the preterm birth history may help improve the timely diagnosis of infantile appendicitis.

Granulocyte colony-stimulating factor is a determinant of severe bronchopulmonary dysplasia and coincident retinopathy
Lakshanie C Wickramasinghe, Evelyn Tsantikos, Alida Kindt, et al. *Am J Pathol.*

A neonatal mouse hyperoxic model of coincident BPD and retinopathy was used to screen for candidate mediators, which revealed that granulocyte colony-stimulating factor (G-CSF) was up-regulated significantly in mouse lung lavage fluid and plasma at postnatal day 14 in response to hyperoxia. G-CSF-deficient neonatal pups showed significantly reduced alveolar simplification, normalized alveolar and airway resistance, and normalized weight gain compared with wild-type pups after hyperoxic lung injury. This was associated with a marked reduction in the intensity, and activation state, of neutrophilic and monocytic inflammation and its attendant oxidative stress response, and protection of lung endothelial cells. G-CSF deficiency also provided partial protection against ROP. The findings in this study implicate G-CSF as a pathogenic mediator of BPD and ROP, and suggest the therapeutic utility of targeting G-CSF biology to treat these conditions.

Butyrate suppresses experimental necrotizing enterocolitis-induced brain injury in mice
Maribel Martinez, Wei Yu, Heather L Menden, et al. *Front Pediatr.*

In this study the authors hypothesize that NEC-induced brain injury would be suppressed by enteral butyrate supplementation. Mice were randomized into the following groups: control, NEC, butyrate pretreated NEC, and butyrate control. NEC scoring (1-4 with 4 representing severe injury) was performed on ileal sections using a validated scoring system. NEC-induced intestinal injury was attenuated by butyrate supplementation. NEC-induced microglial activation in the cerebral cortex and hippocampus was suppressed with butyrate. NEC increased the number of activated microglial cells but decreased the number of oligodendrocytes. Butyrate pretreatment attenuated these changes. Increased activation of proinflammatory Toll-like receptor signaling, cytokine expression, and induction of GFAP and IBA1 in the cerebral cortex observed with NEC was suppressed with butyrate. Experimental NEC induced inflammation and activation of microglia in several regions of the brain, most prominently in the cortex. NEC-induced neuroinflammation was suppressed with butyrate pretreatment. The addition of short-chain fatty acids to diet may be used to attenuate NEC-induced intestinal injury and

neuroinflammation in preterm infants.

Assessing for prenatal risk factors associated with infant neurologic morbidity using a multivariate analysis
Samhita Jain, Scott Oltman, Elizabeth Rogers, et al. *J Perinatol.*

This study aims to characterize the biochemical and demographic profiles of pregnant people with maternal immune activation (MIA) and identify the prenatal characteristics associated with neurologic morbidity in offspring. This retrospective cohort study included 602 mother-infant dyads. Multivariable logistic regression was used to build a MIA vulnerability profile including mid-pregnancy biochemical and its relationship with infant neurologic morbidity was examined. The model identified three demographic and five inflammatory markers together identified 80% of infants with neurological morbidity. Inflammatory environment in mothers with pre-existing risk factors like obesity, poverty, and prematurity renders offspring more susceptible to neurologic morbidities.

An early prediction model for estimating bronchopulmonary dysplasia in preterm infants
Yasemin Ezgi Kostekci, Batuhan Bakırarar, Emel Okulu, et al. *Neonatology.*

This study investigates the potential risk factors for BPD and compares machine learning models for predicting the outcome of BPD/death on days 1, 7, 14, and 28 in preterm infants. Gestational age, birth weight, mode of respiratory support, intraventricular hemorrhage, necrotizing enterocolitis, surfactant requirement, and late-onset sepsis were risk factors on postnatal days 7, 14, and 28. In a comparison of four different time points (postnatal days 1, 7, 14, and 28), the day 7 model provided the best prediction. According to this model, when a patient was diagnosed with BPD/death, the accuracy rate was 89.5%.

Nirsevimab for prevention of hospitalizations due to RSV in infants
Simon B Drysdale, Katrina Cathie, Florence Flamein, et al. *N Engl J Med.*

This trial assessed the efficacy of nirsevimab in infants who are 12 months of age or younger, are born at a gestational age 29 weeks, and are entering their first RSV season. The infants received either a single injection of nirsevimab or standard care (no intervention). Compared to the standard care group, nirsevimab had an efficacy of 83.2% (95% confidence interval [CI], 67.8 to 92.0; P<0.001) for primary outcome of hospitalization for RSV. Nirsevimab had an efficacy of 75.7% (95% CI, 32.8 to 92.9; P = 0.004) for secondary outcome of very severe RSV-associated lower respiratory tract infection defined as hospitalization for RSV, with hypoxemia, and need for supplemental oxygen.

Short, medium, and long deferral of umbilical cord clamping compared with umbilical cord milking and immediate clamping at preterm birth: a systematic review and network meta-analysis with individual participant data
Anna Lene Seidler, Sol Libesman, Kylie E Hunter, et al. *Lancet.*

This is a systematic review/meta-analysis comparing post-delivery umbilical cord strategies on primary outcome of death before discharge. Interventions were grouped into immediate clamping, short deferral (≥15 s to <45 s), medium deferral (≥45 s to <120 s), long deferral (≥120 s), and intact cord milking. The review and analysis included data from 47 trials with 6094 participants. Long deferral reduced death before discharge the most (compared with immediate clamping; odds ratio 0·31 [95% credibility interval] 0·11–0·80; moderate certainty).

OTHER NOTEWORTHY PUBLICATIONS – December 2023

COVID-19

Safety and benefits of COVID-19 vaccination in pregnancy—implications for the maternal vaccination platform https://pubmed.ncbi.nlm.nih.gov/37870867/

Newborn and early infant outcomes following maternal COVID-19 vaccination during pregnancy
https://pubmed.ncbi.nlm.nih.gov/37870875/

Maternal perceived stress and infant behavior during the COVID-19 pandemic
https://pubmed.ncbi.nlm.nih.gov/37500757/

Pediatrics

Clinician management practices for infants with hypothermia in the emergency department
https://pubmed.ncbi.nlm.nih.gov/38009075

Umbilical cord milking versus delayed cord clamping in infants 28 to 32 weeks: A randomized trial
https://pubmed.ncbi.nlm.nih.gov/37941523

Preterm birth and infantile appendicitis
https://pubmed.ncbi.nlm.nih.gov/38018230

Diabetes in pregnancy, neonatal morbidities, and early growth in moderate or late preterm infants
https://pubmed.ncbi.nlm.nih.gov/37969002

Supporting the family after the death of a child or adolescent
https://pubmed.ncbi.nlm.nih.gov/38009001

Fecal microbiota transplantation: Information for the pediatrician
https://pubmed.ncbi.nlm.nih.gov/37981872

Risk of developmental disorders in children born at 32 to 38 weeks' gestation: A meta-analysis
https://pubmed.ncbi.nlm.nih.gov/37946609

Transcutaneous bilirubin accuracy before, during, and after phototherapy: A meta-analysis
https://pubmed.ncbi.nlm.nih.gov/37990609

A quality improvement initiative to reduce necrotizing enterocolitis in very preterm infants
https://pubmed.ncbi.nlm.nih.gov/37920940

Journal of Pediatrics

Is there prognostic discordance for infants with neurological conditions between physicians and parents?
https://pubmed.ncbi.nlm.nih.gov/37890554/

Worldwide newborn screening and early immunizations: aligning advances in preventive pediatrics
https://pubmed.ncbi.nlm.nih.gov/37726086/

Prenatal brain maturation is delayed in neonates with congenital diaphragmatic hernia
https://pubmed.ncbi.nlm.nih.gov/37722557/

A randomized controlled trial of a neonatal intensive care unit language intervention for parents of preterm infants and 2-year language outcomes
https://pubmed.ncbi.nlm.nih.gov/37717908/

Management strategies for congenital heart disease comorbid with airway anomalies in children
https://pubmed.ncbi.nlm.nih.gov/37726085/

Duration of simultaneous exposure to high-risk and lower-risk nephrotoxic antimicrobials in the neonatal intensive care unit (NICU) and future adolescent kidney health
https://pubmed.ncbi.nlm.nih.gov/37722552/

Preschool mathematics and literacy skills and educational attainment in adolescents born preterm and full term
https://pubmed.ncbi.nlm.nih.gov/37722555/

Early elbow flexion contracture predicts shoulder contracture in infants with brachial plexus birth injury
https://pubmed.ncbi.nlm.nih.gov/37717907/

The irritable infant in the neonatal intensive care unit: risk factors and biomarkers of gastroesophageal reflux disease
https://pubmed.ncbi.nlm.nih.gov/37777170/

Inconsistency between pictures on baby diaper packaging in Europe and safe infant sleep recommendations
https://pubmed.ncbi.nlm.nih.gov/37778411/
Health-related quality of life for parents of infants with bronchopulmonary dysplasia
https://pubmed.ncbi.nlm.nih.gov/37839508/
Blood pressure outcomes in NICU-admitted infants with neonatal hypertension: a pediatric nephrology research consortium study
https://pubmed.ncbi.nlm.nih.gov/37778410/

Pediatric Research
Neonatal encephalopathy and hypoxic–ischemic encephalopathy: moving from controversy to consensus definitions and subclassification
https://pubmed.ncbi.nlm.nih.gov/37573378/
Neonatal platelet transfusions: more than meets the eye
https://pubmed.ncbi.nlm.nih.gov/37558725/
Bifidobacterium infantis as a probiotic in preterm infants: a systematic review and meta-analysis
https://pubmed.ncbi.nlm.nih.gov/37460707/
Human preterm colostrum stimulates outgrowth in neurogenic tissue
https://pubmed.ncbi.nlm.nih.gov/37433903/
Therapeutic efficacy of intravenous infusion of mesenchymal stem cells in rat perinatal brain injury
https://pubmed.ncbi.nlm.nih.gov/37422495/
The effect of imposed resistance in neonatal resuscitators on pressure stability and peak flows: a bench test
https://pubmed.ncbi.nlm.nih.gov/37460710/
Interaction of hydrocortisone and illness severity on head growth in cohort of ELBW infants
https://pubmed.ncbi.nlm.nih.gov/37340101/
Impact of postnatal steroids on peripheral avascular retina and severity of retinopathy of prematurity
https://pubmed.ncbi.nlm.nih.gov/37291231/
Changes in inflammatory proteins following platelet transfusion in a neonatal population
https://pubmed.ncbi.nlm.nih.gov/37443343/
Oscillatory mechanics trajectory in very preterm infants: a cohort study
https://pubmed.ncbi.nlm.nih.gov/37452113/
Gestational age-specific clinical correlates of acute kidney injury in preterm infants with necrotizing enterocolitis
https://pubmed.ncbi.nlm.nih.gov/37454184/
Inflammation, sepsis severity and neurodevelopmental outcomes of late-onset sepsis in preterm neonates
https://pubmed.ncbi.nlm.nih.gov/37468719/
A simple scoring system for prediction of IVH in very-low-birth-weight infants
https://pubmed.ncbi.nlm.nih.gov/37479747/
Antibody deficiencies in children are associated with prematurity and a family history of infections
https://pubmed.ncbi.nlm.nih.gov/37491587/
Longitudinal pilot study of oxygen saturation indices in healthy preterm infants
https://pubmed.ncbi.nlm.nih.gov/37542167/
Intravenous immunoglobulin G therapy for neonatal hyperbilirubinemia
https://pubmed.ncbi.nlm.nih.gov/37491586/

Archives of Disease in Childhood - Fetal & Neonatal Edition
No new articles

Journal of Perinatology
Alloimmune hemolytic disease of the fetus and newborn: genetics, structure, and function of the commonly involved erythrocyte antigens

https://www.ncbi.nlm.nih.gov/pubmed/37848604
Shift-to-shift handoffs in the NICU: lessons learned from a large scale audit
https://www.ncbi.nlm.nih.gov/pubmed/37452115
Low inflating pressures during neonatal tidal volume targeted ventilation: occurrence and significance
https://www.ncbi.nlm.nih.gov/pubmed/37156905
Endoscopic evaluation of neonates with signs of upper airway obstruction in the neonatal unit of a tertiary hospital
https://www.ncbi.nlm.nih.gov/pubmed/37816803
Assessing for prenatal risk factors associated with infant neurologic morbidity using a multivariate analysis
https://www.ncbi.nlm.nih.gov/pubmed/37950045
Collaborative efforts to improve genetic testing in the neonatal intensive care unit
https://www.ncbi.nlm.nih.gov/pubmed/37914812

Neonatology
Effects of catecholamines on blood flow in preterm infants: a subanalysis of PICC-MBF trial
https://www.ncbi.nlm.nih.gov/pubmed/37660690
Trends in preterm body composition and neurodevelopmental outcomes after discharge
https://www.ncbi.nlm.nih.gov/pubmed/37673056
Quality of life at a 10-year follow-up of children born preterm with post-hemorrhagic ventricular dilatation: a cohort study
https://www.ncbi.nlm.nih.gov/pubmed/37678198
Association of maternal cigarette smoking with neonatal death: a population-based cohort study
https://www.ncbi.nlm.nih.gov/pubmed/37573777
An early prediction model for estimating bronchopulmonary dysplasia in preterm infants
https://pubmed.ncbi.nlm.nih.gov/37725910
Morbidity and mortality of very-low-birthweight twin infants according to their sex and the sex of the co-twin: a retrospective cohort study
https://www.ncbi.nlm.nih.gov/pubmed/37619541
The effect of postnatal cytomegalovirus infection on (micro)structural cerebral development in very preterm infants at term-equivalent age
https://www.ncbi.nlm.nih.gov/pubmed/37634498
Point-of-care ultrasound versus chest x-ray for determining lung expansion based on rib count in high-frequency oscillatory ventilation
https://www.ncbi.nlm.nih.gov/pubmed/37634488
Time of delivery contributes to mortality and morbidity in preterm infants
https://www.ncbi.nlm.nih.gov/pubmed/37757770
Effects of milrinone on neonates after patent ductus arteriosus ligation: a retrospective nationwide database study
https://www.ncbi.nlm.nih.gov/pubmed/37757762
Placental histologic abnormalities and 2-year outcomes in neonatal hypoxic-ischemic encephalopathy
https://www.ncbi.nlm.nih.gov/pubmed/37742617
Microstructural brain development and neurodevelopmental outcome of very preterm infants of mothers with gestational diabetes mellitus
https://www.ncbi.nlm.nih.gov/pubmed/37643585
Clinical prediction models and predictors for death or adverse neurodevelopmental outcome in term newborns with hypoxic-ischemic encephalopathy: a systematic review of the literature
https://www.ncbi.nlm.nih.gov/pubmed/37536297

American Journal of Perinatology

Combined anticoagulant therapy for prevention of preeclampsia and small for gestational age neonates: a systematic review and meta-analysis
https://pubmed.ncbi.nlm.nih.gov/35235957/

Association of antenatal corticosteroid exposure and infant survival at 22 and 23 weeks
https://pubmed.ncbi.nlm.nih.gov/34839472/

Idiopathic polyhydramnios and neonatal morbidity at term
https://pubmed.ncbi.nlm.nih.gov/34775584/

Journal of Neonatal-Perinatal Medicine

No new articles

Maternal Health, Neonatology and Perinatology

The use of projected autonomy in antenatal shared decision-making for periviable neonates: a qualitative study
https://pubmed.ncbi.nlm.nih.gov/38037157

Maternal education and its association with maternal and neonatal adverse outcomes in live births conceived using medically assisted reproduction (MAR)
https://pubmed.ncbi.nlm.nih.gov/38037147

Neoreviews

Potential adjuncts to therapeutic hypothermia to mitigate multiorgan injury in perinatal hypoxia-ischemia
https://pubmed.ncbi.nlm.nih.gov/38036441

Pharmacologic adjuncts for neonatal tracheal intubation: The evidence behind premedication
https://pubmed.ncbi.nlm.nih.gov/38036442

Response to therapeutic interventions in the NICU: Role of sex as a biological variable
https://pubmed.ncbi.nlm.nih.gov/38036443

A newborn with cardiac arrest and abdominal distention
https://pubmed.ncbi.nlm.nih.gov/38036444

Rash at birth in a preterm neonate
https://pubmed.ncbi.nlm.nih.gov/38036446

An infant with thickened and hyperechoic main pulmonary artery
https://pubmed.ncbi.nlm.nih.gov/38036445

Fetal tachyarrhythmia: A tale of two presentations
https://pubmed.ncbi.nlm.nih.gov/38036448

An infant with an unusual location of a peripherally inserted central catheter
https://pubmed.ncbi.nlm.nih.gov/38036447

Congenital bilateral branch pulmonary artery hypoplasia: Prenatal diagnosis and parental counseling
https://pubmed.ncbi.nlm.nih.gov/38036449

JAMA Pediatrics

Antibiotic use among infants admitted to neonatal intensive care units
https://pubmed.ncbi.nlm.nih.gov/37812442/

BMC Pediatrics

Applications of indocyanine greenenhanced fluorescence in the laparoscopic treatment of colonic stricture after necrotizing enterocolitis
https://pubmed.ncbi.nlm.nih.gov/38102599/

A cross-sectional study on stool- and gastrointestinal-related outcomes of Mexican infants consuming different formulae
https://pubmed.ncbi.nlm.nih.gov/38102583/

Investment case for small and sick newborn care in Tanzania: systematic analyses

https://pubmed.ncbi.nlm.nih.gov/38098013/
The effect of the swaddling method on stress levels in newborns administered nasal CPAP
https://pubmed.ncbi.nlm.nih.gov/38087248/
Effectiveness and safety of intracardiac electrocardiogram guidance for epicutaneo-cava catheters via the lower extremity in preterm infants: a retrospective study
https://pubmed.ncbi.nlm.nih.gov/38071296/
Retrospective cohort study of neonatal blood transfusion in China
https://pubmed.ncbi.nlm.nih.gov/38066456/
The impact of the baby friendly hospital initiative on healthcare utilization among newborns insured by Medicaid in Delaware
https://pubmed.ncbi.nlm.nih.gov/38049756/
Characteristics of neonatal hypoxic-ischemic encephalopathy at high altitude and early results of therapeutic hypothermia
https://pubmed.ncbi.nlm.nih.gov/38037071/

Pediatric Critical Care Medicine
Center volume and survival relationship for neonates with congenital diaphragmatic hernia treated with extracorporeal life support
https://pubmed.ncbi.nlm.nih.gov/37346002/
Amplitude integrated electroencephalography: simulated assessment of neonatal seizure detection in PICU patients
https://pubmed.ncbi.nlm.nih.gov/38055290/

New England Journal of Medicine
Nirsevimab for prevention of hospitalizations due to RSV in infants
https://pubmed.ncbi.nlm.nih.gov/38157500/

Lancet
Impact of discontinuing oxytocin in active labour on neonatal morbidity: an open-label, multicentre, randomised trial
https://pubmed.ncbi.nlm.nih.gov/37952548/
Deferred cord clamping, cord milking, and immediate cord clamping at preterm birth: a systematic review and individual participant data meta-analysis
https://pubmed.ncbi.nlm.nih.gov/37977169/
Short, medium, and long deferral of umbilical cord clamping compared with umbilical cord milking and immediate clamping at preterm birth: a systematic review and network meta-analysis with individual participant data
https://pubmed.ncbi.nlm.nih.gov/37977170/

JAMA
Neonatal survival after serial amnioinfusions for bilateral renal agenesis: the renal anhydramnios fetal therapy trial
https://pubmed.ncbi.nlm.nih.gov/38051327/

BMJ
No new articles

Pediatric Infectious Disease Journal
Perinatal and other risk factors for common infections in infancy: a prospective cohort study
https://pubmed.ncbi.nlm.nih.gov/37751622/

Pediatric Cardiology
No new content

Pediatric Neurology

The clinical characteristics and outcomes of infantile seizures in the first year of life: a single-center study
https://pubmed.ncbi.nlm.nih.gov/37931500/
Long-term video electroencephalographic monitoring in <30-week gestational age infants with high-grade intraventricular hemorrhage
https://pubmed.ncbi.nlm.nih.gov/37952260/
Subpial hemorrhage in extremely premature neonate: a rare finding in a rare cohort
https://pubmed.ncbi.nlm.nih.gov/37925768/
The effect of disease on the developing nervous system: challenges and opportunities, a foreward
https://pubmed.ncbi.nlm.nih.gov/37979303/

Obstetrics and Gynecology

Obstetric intervention and perinatal outcomes during the coronavirus disease 2019 (COVID-19) pandemic
https://pubmed.ncbi.nlm.nih.gov/37826851/
Perinatal outcomes associated with management of stage 1 hypertension
https://pubmed.ncbi.nlm.nih.gov/37769314/

American Journal of Obstetrics & Gynecology

Placental fetal vascular malperfusion, neonatal neurologic morbidity, and infant neurodevelopmental outcomes: a systematic review and meta-analysis
https://pubmed.ncbi.nlm.nih.gov/37315755/
Addressing a broken drug pipeline for preterm birth: why early preterm birth is an orphan disease
https://pubmed.ncbi.nlm.nih.gov/37516401/
Timing of antenatal corticosteroids and survival without neurologic disabilities at 5½ years in children born before 35 weeks of gestation
https://pubmed.ncbi.nlm.nih.gov/37394223/
Fetal growth restriction and small for gestational age as predictors of neonatal morbidity: which growth nomogram to use?
https://pubmed.ncbi.nlm.nih.gov/37348779/

Hospital Pediatrics

No relevant articles

BASIC SCIENCE SELECTIONS

Irisin alleviates hyperoxia-induced bronchopulmonary dysplasia through activation of Nrf2/HO-1 pathway
https://www.ncbi.nlm.nih.gov/pubmed/37804931
Conditional knockout of ITGB4 in bronchial epithelial cells directs bronchopulmonary dysplasia
https://www.ncbi.nlm.nih.gov/pubmed/37698050
Granulocyte colony-stimulating factor is a determinant of severe bronchopulmonary dysplasia and coincident retinopathy
https://www.ncbi.nlm.nih.gov/pubmed/37673326
Regulating NLRP3 inflammasome-induced pyroptosis via Nrf2: TBHQ limits hyperoxia-induced lung injury in a mouse model of bronchopulmonary dysplasia
https://www.ncbi.nlm.nih.gov/pubmed/37556072
Butyrate suppresses experimental necrotizing enterocolitis-induced brain injury in mice
https://www.ncbi.nlm.nih.gov/pubmed/38130941
Active polypeptide MDANP protect against necrotizing enterocolitis (NEC) by regulating the PERK-eIF2a-QRICH1 axis

https://www.ncbi.nlm.nih.gov/pubmed/38129421
IL1R2 promotes retinal angiogenesis to participate in retinopathy of prematurity by activating the HIF1alpha/PFKFB3 pathway
https://www.ncbi.nlm.nih.gov/pubmed/38097102
Effects of fresh bone marrow mononuclear cell therapy in rat model of retinopathy of prematurity
https://www.ncbi.nlm.nih.gov/pubmed/37334242

ADDITIONAL JOURNAL SELECTIONS
Family integrated care shortens the duration of home oxygen therapy in infants with bronchopulmonary dysplasia
https://www.ncbi.nlm.nih.gov/pubmed/38113903
Effect of acute histologic chorioamnionitis on bronchopulmonary dysplasia and mortality rate among extremely low gestational age neonates: A retrospective case-control study
https://www.ncbi.nlm.nih.gov/pubmed/38108543
Association between plasma lysophosphatidic acid levels and bronchopulmonary dysplasia in extremely preterm infants: A prospective study
https://www.ncbi.nlm.nih.gov/pubmed/37712600
Variables related to bronchopulmonary dysplasia severity: a Six-Year retrospective study
https://www.ncbi.nlm.nih.gov/pubmed/37580063
The association between bronchopulmonary dysplasia grade and risks of adverse neurodevelopmental outcomes among preterm infants born at less than 30 weeks of gestation
https://www.ncbi.nlm.nih.gov/pubmed/36642443
Hyponatremia as a marker for predicting surgical intervention in necrotizing enterocolitis: a retrospective cohort study
https://www.ncbi.nlm.nih.gov/pubmed/38064977
**Primary anastomosis versus stoma for surgical necrotizing enterocolitis in us childre's hospitals
https://www.ncbi.nlm.nih.gov/pubmed/38056356
SNAPPE-II and MDAS scores as predictors for surgical intervention in very low birth weight neonates with necrotizing enterocolitis
https://www.ncbi.nlm.nih.gov/pubmed/36404433
Volumetric changes in brain MRI of infants with hypoxic-ischemic encephalopathy and abnormal neurodevelopment who underwent therapeutic hypothermia
https://www.ncbi.nlm.nih.gov/pubmed/38101694
A novel clinical risk scoring system for neurodevelopmental outcomes among survivors of neonatal hypoxic-ischemic encephalopathy (HIE)
https://www.ncbi.nlm.nih.gov/pubmed/38057259
The Use of Cerebral Near-Infrared Spectroscopy in Neonatal Hypoxic-Ischemic Encephalopathy: A Systematic Review of the Literature
https://www.ncbi.nlm.nih.gov/pubmed/38038671
Five-year visual outcome of treatment for retinopathy of prematurity in infants weighing less than 500 g at birth: A multicenter cohort study from J-CREST
https://www.ncbi.nlm.nih.gov/pubmed/38064668
Neurodevelopmental outcomes in infants screened for retinopathy of prematurity
https://www.ncbi.nlm.nih.gov/pubmed/37883103
Erythrocyte transfusions are associated with retinopathy of prematurity in extremely low gestational age newborns
https://www.ncbi.nlm.nih.gov/pubmed/37667535
Postnatal Myelomeningocele Repair in the United States: Rates and Disparities Before and After the Management of Myelomeningocele Study Trial
https://www.ncbi.nlm.nih.gov/pubmed/37477441

Infant gastroesophageal reflux disease management consensus
https://www.ncbi.nlm.nih.gov/pubmed/38116947