

Publications Working Group

[Ayan Rajgarhia](#), Page Editor - Children's Hospital of Orange County
Craig Nankervis - Nationwide Children's Hospital
Christopher Rouse - Massachusetts General Hospital for Children
Vineet Lamba - University of Tennessee Health Science Center
Zeyar Htun - NYC Long Island School of Medicine
L. Corbin Downey - Atrium Health Wake Forest Baptist

American Academy
of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN®

Section on Neonatal-Perinatal Medicine

ARTICLES OF INTEREST – May 2024

[Vasopressin in newborns with refractory acute pulmonary hypertension](#)

Simon Ouellet, Christine Drolet, Geneviève Morissette, et al. *Pediatr Res*.

This retrospective single-center cohort study included infants less than one month old who were treated with vasopressin for a minimum of one hour in the setting of refractory acute pulmonary hypertension. Of the twenty-five infants who met inclusion criteria, oxygenation index improved from 28.4 to 14.4 ($p=0.004$) after twelve hours of continuous infusion. Oxygen requirements (FiO_2) decreased from 0.91 to 0.50 ($p = 0.004$) and mean arterial pressure increased from 41 to 51 mmHg ($p = 0.001$). In the cohort, 68% of patients presented an episode of hyponatremia (serum sodium <130 mmol/L). The authors concluded that vasopressin may be an effective cardiotropic agent to improve oxygenation and hemodynamic status in newborns with acute pulmonary hypertension.

[Tocolysis after preterm prelabor rupture of membranes and 5-year outcomes: a population-based cohort study](#)

Elsa Lorthe, Laetitia Marchand-Martin, Mathilde Letouzey, et al. *Am J Obstet Gynecol*.

This study used data from a prospective, population-based cohort study of preterm births (EPIPAGE-2 study). The authors included pregnant individuals with preterm prelabor rupture of membranes at 24 to 32 weeks' gestation in singleton pregnancies with a live fetus at the time of rupture, birth at 24 to 34 weeks' gestation, and participation of the infant in an assessment at 5.5 years of age. Overall, 596 of 803 pregnant individuals (73.4%) received tocolytics after preterm prelabor rupture of membranes. After applying multiple imputations and inverse probability of treatment weighting, the authors found no association between the exposure to tocolytics and survival without moderate to severe neurodevelopmental disabilities (odds ratio, 0.93; 95% confidence interval, 0.55-1.60) or survival without any neurodevelopmental disabilities (odds ratio, 1.02; 95% confidence interval, 0.65-1.61).

[Nutritional support for moderate-to-late-preterm infants — a randomized trial](#)

Tanith Alexander, Sharin Asadi, Michael Meyer, et al. *N Engl J Med*.

Most moderate-to-late-preterm infants need nutritional support until they are feeding exclusively on their mother's breast milk. Evidence to guide nutrition strategies for these infants is lacking. The

authors conducted a multicenter, factorial, randomized trial involving infants born at 32 weeks 0 days' to 35 weeks 6 days' gestation who had intravenous access and whose mothers intended to breast-feed. They found that routine nutrition interventions to support moderate-to-late-preterm infants until full nutrition with mother's breast milk was possible did not show any effects on the time to full enteral feeding or on body composition at 4 months of corrected gestational age.

[Neurodevelopmental outcomes after late preterm antenatal corticosteroids: the ALPS follow-up study](#)

Cynthia Gyamfi-Bannerman, Rebecca G Clifton, Alan T N Tita, et al. *JAMA*.

the antenatal late preterm steroids (alps) trial changed clinical practice in the united states by finding that antenatal betamethasone at 34 to 36 weeks decreased short-term neonatal respiratory morbidity. however, the trial also found increased risk of neonatal hypoglycemia after betamethasone. in this follow-up study of a randomized clinical trial, the authors found that administration of antenatal corticosteroids to persons at risk of late preterm delivery, originally shown to improve short-term neonatal respiratory outcomes but with an increased rate of hypoglycemia, was not associated with adverse childhood neurodevelopmental outcomes at age 6 years or older.

[Association of very low birth weight infants with parental and sibling mental health care usage](#)

Parents and siblings of VLBW, premature infants are at risk for poor mental health outcomes with increased mental health care usage. This is a retrospective chart review that assessed mental health care use over time among parents/siblings of VLBW premature infants compared with parents/siblings of non-VLBW/premature infants. Overall, the proportion of parents receiving mental health steadily increased over the first year of the child's life for both control and case parents; with higher rates overall for case parents. However, bereaved parents had higher peaks in mental health care use overall. Interestingly, bereaved female and male siblings had relative underutilization of mental health care resources at all time points compared to nonbereaved and control.

[Oral valganciclovir initiated beyond 1 month of age as treatment of sensorineural hearing loss caused by congenital cytomegalovirus infection: a randomized clinical trial](#)

The objective of this study was to determine if valganciclovir initiated after 1 month of age improves congenital cytomegalovirus-associated sensorineural hearing loss. This is a randomized, double-blind, placebo-controlled phase 2 trial of 6 weeks of oral. Patients of ages 1 month through 3 years with baseline sensorineural hearing loss were enrolled. The primary outcome was a change in total ear hearing between baseline and 6 months of therapy. Secondary outcomes looked at changes in best ear hearing and reduction in cytomegalovirus viral load in blood, saliva, and urine. Thirty-five participants with documented congenital cytomegalovirus infection and hearing loss were randomized (active group: 17; placebo group: 18). Mean age at enrollment was 17.8 ± 15.8 months (valganciclovir) vs 19.5 ± 13.1 months (placebo). Twenty (76.9%) of the 26 ears from subjects in the active treatment group did not have worsening of hearing, compared with 27 (96.4%) of 28 ears from subjects in the placebo group (P = .09). All other comparisons of total ear or best ear hearing outcomes were also not statistically significant. Saliva and urine viral loads decreased significantly in the valganciclovir group but did not correlate with change in hearing outcome. This study

concluded that initiation of antiviral therapy beyond the first month of age did not improve hearing outcomes in children with congenital cytomegalovirus-associated sensorineural hearing loss.

[Protecting effects of 4-octyl itaconate on neonatal hypoxic-ischemic encephalopathy via Nrf2 pathway in astrocytes](#)

Yanping Yang, Yang Li, Wenyi Yang, et al. *J Neuroinflammation*.

Recently, itaconate has been found to exhibit anti-oxidative and anti-inflammatory effects. This study attempts to explore the pathophysiological mechanisms of oxidative stress and inflammatory responses in hypoxic-ischemic encephalopathy (HIE) as well as the potential therapeutic role of a derivative of itaconate, 4-octyl itaconate (4OI). The authors used a 7-day-old mouse hypoxic-ischemic (HI) model. They found that in the acute phase of HI, there was an accumulation of pyruvate and lactate in the hippocampal tissue, accompanied by oxidative stress and pro-inflammatory, as well as increased expression of antioxidative stress and anti-inflammatory genes. Treatment of 4OI could inhibit activation and proliferation of microglial cells and astrocytes, reduce neuronal death and relieve cognitive dysfunction in HI mice. Furthermore, 4OI enhanced nuclear factor erythroid-2-related factor (Nfe2l2; Nrf2) expression and nuclear translocation in astrocytes, reduced pro-inflammatory cytokine production, and increased antioxidant enzyme expression. This study demonstrates that 4OI has a potential therapeutic effect on neuronal damage and cognitive deficits in HIE, potentially through the modulation of inflammation and oxidative stress pathways by Nrf2 in astrocytes.

[Protective effects of Lactobacillus reuteri on intestinal barrier function in a mouse model of neonatal necrotizing enterocolitis](#)

Zhuoli Lai and Fang Gong. *Am J Perinatol*.

This research was designed to assess the protective effects of Lactobacillus reuteri (LR) DSM 17938 (LR 17938) on the intestinal barriers and its beneficial effects on inflammation in a neonatal mouse model of necrotizing enterocolitis (NEC). Seven-day-old 75 C57BL/6 neonatal mice were separated into three groups (n = 25) as follows: (1) control, (2) NEC, and (3) NEC + LR17938 (LR group). LR 17938 administration decreased the NEC-induced increase in intestinal scores, mortality rate, gut damage, the MDA level, and TNF-alpha and IL-1beta expressions. LR 17938 improved the survival rate of NEC mice. Moreover, LR 17938 administration improved gut permeability levels, SOD activity and the bacterial translocation, ameliorated the expression of TJ proteins, and improved the gut microbiota compared with those of NEC mice. In conclusion, LR 17938 reduced intestinal inflammation and played a protective role in a neonatal animal model of NEC, possibly by regulating oxidative stress and exerting a protective effect on the gut mucosal and immune barriers.

[Diagnosis and management of congenital diaphragmatic hernia: a 2023 update from the Canadian Congenital Diaphragmatic Hernia](#)

Pramod Puligandla, Erik Skarsgard, Robert Baird, et al. *Arch Dis Child Fetal Neonatal Ed*.

Critical appraisal of CDH literature adhering to Grading of Recommendations Assessment, Development and Evaluation (GRADE) methodology. Evidence accumulated between 1 January 2017 and 30 August 2022 was analysed to inform changes to existing or the development of new CDH care recommendations. Strength of consensus was also determined using a modified Delphi process among national experts in the field. Prenatal recommendations are - Ultrasound

measurement of o/e LHR using the trace method should be obtained between 22 and 32 weeks' GA, in consultation with a regional fetal medicine/therapy programme. Observed/expected LHR cut-offs of <25% and <50% should be used to predict poor outcome for left and right CDH, respectively. MRI for the assessment of o/e TFLV and liver herniation should be considered in all fetuses with CDH, and is strongly recommended in fetuses with severe or moderate CDH by o/e LHR, ideally in collaboration with a fetal therapy programme. As well as additional recommendations regarding fetal interventions, need for paralysis. Use of PGE-1, pressors and additional ventilatory management.

OTHER NOTEWORTHY PUBLICATIONS – May 2024

Pediatrics

Association of very low birth weight infants with parental and sibling mental health care usage
<https://pubmed.ncbi.nlm.nih.gov/38572556/>

Journal of Pediatrics

Community considerations for aggressive intensive care therapy for infants <24+0 weeks of gestation [review]

<https://www.ncbi.nlm.nih.gov/pubmed/38336203>

Reengagement with physiology in neonatal heart and lung care: a priority for training and practice

<https://www.ncbi.nlm.nih.gov/pubmed/38336199>

Oral valganciclovir initiated beyond 1 month of age as treatment of sensorineural hearing loss caused by congenital cytomegalovirus infection: a randomized clinical trial

<https://www.ncbi.nlm.nih.gov/pubmed/38309519>

Valganciclovir in infants with hearing loss and clinically inapparent congenital cytomegalovirus infection: a nonrandomized controlled trial

<https://www.ncbi.nlm.nih.gov/pubmed/38336204>

Contemporary trends in cardiac surgical care for trisomy 13 and 18 patients admitted to hospitals in the United States

<https://www.ncbi.nlm.nih.gov/pubmed/38340889>

Esophageal versus rectal temperature monitoring during whole-body therapeutic hypothermia for hypoxic-ischemic encephalopathy: association with short- and long-term outcomes

<https://www.ncbi.nlm.nih.gov/pubmed/38309524>

Relationship of neonatal seizure burden before treatment and response to initial antiseizure medication

<https://www.ncbi.nlm.nih.gov/pubmed/38360261>

Pediatric Research

Assessment of hemodynamic dysfunction in septic newborns by functional echocardiography: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/38245631>

Thermoregulation for very preterm infants in the delivery room: a narrative review

<https://pubmed.ncbi.nlm.nih.gov/38253875>

Craniofacial syndromes and class III phenotype: common genotype fingerprints? A scoping review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/38347173>

Repeating the errors of the past: the hazards of a commercial human milk industry

<https://pubmed.ncbi.nlm.nih.gov/38195939>

Neonatal immune cells have heightened responses following in-utero exposure to chorioamnionitis or COVID-19

<https://pubmed.ncbi.nlm.nih.gov/37949998>

Effects of nasal respiratory support on laryngeal and esophageal reflexes in preterm lambs

<https://pubmed.ncbi.nlm.nih.gov/37938316>

Uteroplacental insufficiency decreases leptin expression and impairs lung development in growth-restricted newborn rats

<https://pubmed.ncbi.nlm.nih.gov/38049649>

Neuroprotective effects of maternal melatonin administration in early-onset placental insufficiency and fetal growth restriction

<https://pubmed.ncbi.nlm.nih.gov/38225450>

Gut development following insulin-like growth factor-1 supplementation to preterm pigs

<https://pubmed.ncbi.nlm.nih.gov/38086951>

Hydrogen gas can ameliorate seizure burden during therapeutic hypothermia in asphyxiated newborn piglets

<https://pubmed.ncbi.nlm.nih.gov/38267709>

Human milk cream alters intestinal microbiome of preterm infants: a prospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/38228744>

Vasopressin in newborns with refractory acute pulmonary hypertension

<https://pubmed.ncbi.nlm.nih.gov/38212386>

Low-grade inflammation from prenatal period to age 6–8 years in a Vitamin D trial

<https://pubmed.ncbi.nlm.nih.gov/38225452>

Prenatal phthalate exposure and fetal penile length and width

<https://pubmed.ncbi.nlm.nih.gov/38057576>

Assessment of hemostatic profile in neonates with necrotizing enterocolitis using Rotational Thromboelastometry (ROTEM)

<https://pubmed.ncbi.nlm.nih.gov/38092966>

Evaluation of a respiratory care protocol including less invasive surfactant administration in preterm infants

<https://pubmed.ncbi.nlm.nih.gov/38097721>

Predicting low cognitive ability at age 5 years using perinatal data and machine learning

<https://pubmed.ncbi.nlm.nih.gov/38177251>

Archives of Disease in Childhood - Fetal & Neonatal Edition

New guidelines for congenital diaphragmatic hernia: what is next?

<https://pubmed.ncbi.nlm.nih.gov/38253468/>

Prophylactic cyclo-oxygenase inhibitor drugs for the prevention of morbidity and mortality in extremely preterm infants: a clinical practice guideline incorporating family values and preferences

<https://pubmed.ncbi.nlm.nih.gov/37419686/>

Diagnosis and management of congenital diaphragmatic hernia: a 2023 update from the Canadian Congenital Diaphragmatic Hernia

<https://pubmed.ncbi.nlm.nih.gov/37879884/>

Parenting stress and health-related quality of life among parents of extremely preterm born early adolescents in England: a cross-sectional study

<https://pubmed.ncbi.nlm.nih.gov/37879883/>

Current management of neonatal abstinence syndrome: a survey of practice in the UK and Ireland

<https://pubmed.ncbi.nlm.nih.gov/37879885/>

Paediatric intensive care admissions of preterm children born <32 weeks gestation: a national retrospective cohort study using data linkage

<https://pubmed.ncbi.nlm.nih.gov/37923384/>

Neurodevelopmental outcome at 5.5 years in Dutch preterm infants born at 24–26 weeks' gestational age: the EPI-DAF study

<https://pubmed.ncbi.nlm.nih.gov/38071564/>

Characteristics and outcomes of neonates hospitalised with SARS-CoV-2 infection in the UK by variant: a prospective national cohort study

<https://pubmed.ncbi.nlm.nih.gov/37968087/>

Impact of cord clamping on haemodynamic transition in term newborn infants

<https://pubmed.ncbi.nlm.nih.gov/38071517/>

Maternal treatment with selective serotonin reuptake inhibitors during pregnancy and delayed neonatal adaptation: a population-based cohort study

<https://pubmed.ncbi.nlm.nih.gov/38071585/>

Late surfactant administration after 48 hours of age in preterm neonates with respiratory insufficiency: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/38071552/>

Evolution of the Sarnat exam and association with 2-year outcomes in infants with moderate or severe hypoxic-ischaemic encephalopathy: a secondary analysis of the HEAL Trial

<https://pubmed.ncbi.nlm.nih.gov/38071538/>

Polyethylene bags before cord clamping in very preterm infants: a randomised controlled trial

<https://pubmed.ncbi.nlm.nih.gov/38212105/>

Effect of body position on ventilation distribution in healthy newborn infants: an observational study

<https://pubmed.ncbi.nlm.nih.gov/38071525/>

Bronchopulmonary dysplasia: temporal trend from 2010 to 2019 in the Brazilian Network on Neonatal Research

<https://pubmed.ncbi.nlm.nih.gov/38071522/>

Treatment courses and outcomes of oesophageal atresia in patients with trisomy 18: a case series of 271 patients from a nationwide database in Japan

<https://pubmed.ncbi.nlm.nih.gov/38071520/>

Journal of Perinatology

Targeting optimal protein delivery in parenteral and enteral nutrition for preterm infants: a review of randomized, controlled trials

<https://pubmed.ncbi.nlm.nih.gov/38123801/>

Lyophilized (freeze-dried) human milk for preterm infants: a scoping review

<https://pubmed.ncbi.nlm.nih.gov/38225373/>

Navigating the post-Dobbs landscape: ethical considerations from a perinatal perspective

<https://pubmed.ncbi.nlm.nih.gov/38287137/>

Evaluating multidimensional facets of the maternal experience after preterm birth

<https://pubmed.ncbi.nlm.nih.gov/38238445/>

Associations of salivary aldosterone levels during pregnancy with maternal blood pressure and birth weight-for-gestational age in a Mexico City birth cohort

<https://pubmed.ncbi.nlm.nih.gov/38443464/>

Improving attitudes toward trauma-informed care in the neonatal intensive care unit through comprehensive multi-disciplinary education

<https://pubmed.ncbi.nlm.nih.gov/38383575/>

Disparity drivers, potential solutions, and the role of a health equity dashboard in the neonatal intensive care unit: a qualitative study

<https://pubmed.ncbi.nlm.nih.gov/38155228/>

Effect of music-based interventions on physiologic stability of hospitalized preterm infants. A pilot study

<https://pubmed.ncbi.nlm.nih.gov/38418527/>

Multi-prong quality improvement approach for increasing mother's own milk use for very low birth weight infants

<https://pubmed.ncbi.nlm.nih.gov/38123800/>

Fatty acid concentrations in preterm infants fed the exclusive human milk diet: a prospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/38082071/>

Skilled lactation support using telemedicine in the neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/38341485/>

A clinical consensus guideline for nutrition in infants with congenital diaphragmatic hernia from birth through discharge

<https://pubmed.ncbi.nlm.nih.gov/38627594/>

Enteral L-citrulline supplementation in preterm infants is safe and effective in increasing plasma arginine and citrulline levels—a pilot randomized trial

<https://pubmed.ncbi.nlm.nih.gov/37640809/>

Hyperferritinemia among very-low-birthweight infants in Thailand: a prospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/38062158/>

Effect of pacifier and pacifier with dextrose in reducing pain during orogastric tube insertion in newborns: a randomized controlled trial

<https://pubmed.ncbi.nlm.nih.gov/38553602/>

Impact of active surveillance and decolonization strategies for methicillin-resistant *Staphylococcus aureus* in a neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/38351274/>

Urinary tract infections in very premature neonates: the definition dilemma

<https://pubmed.ncbi.nlm.nih.gov/38553603/>

Contemporary use of prophylactic probiotics in NICUs in the United States: a survey update

<https://pubmed.ncbi.nlm.nih.gov/38553600/>

The diagnostic utility of obtaining two blood cultures for the diagnosis of early onset sepsis in neonates

<https://pubmed.ncbi.nlm.nih.gov/38409330/>

Clinical outcomes in newborns receiving glucose 15 versus sweet cheeks oral glucose gel for neonatal hypoglycemia

<https://pubmed.ncbi.nlm.nih.gov/38341486/>

Multidisciplinary evidence-based tools for improving consistency of care and neonatal nutrition

<https://pubmed.ncbi.nlm.nih.gov/38615125/>

Equity, inclusion and cultural humility: contemporizing the neonatal intensive care unit family-centered care model

<https://pubmed.ncbi.nlm.nih.gov/38532086/>

Does nirsevimab prevent lower respiratory infections caused by respiratory syncytial virus?

<https://pubmed.ncbi.nlm.nih.gov/38637681/>

Neonatology

No new content

American Journal of Perinatology

Alterations in preterm brain development: relation to developmental assessment and prediction

<https://www.ncbi.nlm.nih.gov/pubmed/37168010>

A randomized control trial of meditation for mothers pumping breastmilk for preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/35240703>

Umbilical artery cord gas abnormalities in the presence of a nuchal cord in term singleton pregnancies: a cohort study

<https://www.ncbi.nlm.nih.gov/pubmed/35240709>

Journal of Neonatal-Perinatal Medicine

No new articles

Maternal Health, Neonatology and Perinatology

Neonatal blood pressure by birth weight, gestational age, and postnatal age: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/38689326/>

Neoreviews

Nosocomial infections in the neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/38688885/>

Neonatal osteomyelitis

<https://pubmed.ncbi.nlm.nih.gov/38688888/>

Varicella in the 21st century

<https://pubmed.ncbi.nlm.nih.gov/38688890/>

Syndactyly in a newborn

<https://pubmed.ncbi.nlm.nih.gov/38688887/>

A growth-restricted neonate with abnormal facies and lax skin

<https://pubmed.ncbi.nlm.nih.gov/38688889/>

A case of neonatal encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/38688892/>

Severe influenza in pregnancy: neonatal implications

<https://pubmed.ncbi.nlm.nih.gov/38688886/>

A newborn with blueberry muffin lesions

<https://pubmed.ncbi.nlm.nih.gov/38688891/>

Two growth-restricted fetuses with severe microcephaly and neurologic abnormalities

<https://pubmed.ncbi.nlm.nih.gov/38688893/>

Follow-up of a term infant with congenital hypothyroidism

<https://pubmed.ncbi.nlm.nih.gov/38688883/>

JAMA Pediatrics

No new articles

BMC Pediatrics

Risk factors for PDA ligation and neurodevelopmental outcomes at corrected 18–24 months in very low birth weight infants

<https://pubmed.ncbi.nlm.nih.gov/38822298>

Practical surgical technique using the SMISS approach for lip reduction in involuted lip infantile hemangiomas

<https://pubmed.ncbi.nlm.nih.gov/38807073>

Time to full enteral feeding and its predictors among very low birth weight (VLBW) neonates admitted to the neonatal intensive care units (NICU) in comprehensive specialized hospitals in Northwest Ethiopia

<https://pubmed.ncbi.nlm.nih.gov/38807061>

Patterns and short term neurosurgical treatment outcomes of neonates with neural tube defects admitted to Felege Hiwot Specialized Hospital, Bahir Dar, Ethiopia

<https://pubmed.ncbi.nlm.nih.gov/38773409>

A mixed-methods study to investigate feasibility and acceptability of an early warning score for preterm infants in neonatal units in Kenya: results of the NEWS-K study

<https://pubmed.ncbi.nlm.nih.gov/38734617>

Effects of an early transfer from incubator to a warming crib in very low birthweight preterm infants

<https://pubmed.ncbi.nlm.nih.gov/38724933>

Occult retinal neovascularization following intravitreal bevacizumab and laser treatment for retinopathy of prematurity

<https://pubmed.ncbi.nlm.nih.gov/38704544>

Pediatric Critical Care Medicine

Cardiac surgery-associated acute kidney injury in neonates undergoing the Norwood operation: retrospective analysis of the multicenter neonatal and pediatric heart and renal outcomes network dataset, 2015–2018

<https://pubmed.ncbi.nlm.nih.gov/38483198>

New England Journal of Medicine

Nutritional support for moderate-to-late-preterm infants — a randomized trial

<https://pubmed.ncbi.nlm.nih.gov/38657245/>

Video versus direct laryngoscopy for urgent intubation of newborn infants

<https://pubmed.ncbi.nlm.nih.gov/38709215/>

Lancet

Newborn pulse oximetry screening: time for equity in the UK?

<https://pubmed.ncbi.nlm.nih.gov/38484751/>

Caesarean section: the history of a controversial operation

<https://pubmed.ncbi.nlm.nih.gov/38796199/>

JAMA

Flat head syndrome in infants

<https://pubmed.ncbi.nlm.nih.gov/38602706/>

Does this infant have a dislocated hip? the rational clinical examination systematic review

<https://pubmed.ncbi.nlm.nih.gov/38619828/>

Neurodevelopmental outcomes after late preterm antenatal corticosteroids: the alps follow-up study <https://pubmed.ncbi.nlm.nih.gov/38656759/>

Late preterm corticosteroids exposure and neurodevelopmental outcomes

<https://pubmed.ncbi.nlm.nih.gov/38656755/>

BMJ

Staff shortages are key contributor to baby deaths, investigation finds

<https://pubmed.ncbi.nlm.nih.gov/38719528/>

Australia: Inductions and preterm births fell during early pandemic years

<https://pubmed.ncbi.nlm.nih.gov/38754924/>

Harrowing accounts of birth trauma lead to MPs' call for concerted action to improve maternity services <https://pubmed.ncbi.nlm.nih.gov/38744469/>

Association between exposure to antibiotics during pregnancy or early infancy and risk of autism spectrum disorder, intellectual disorder, language disorder, and epilepsy in children: population based cohort study

<https://pubmed.ncbi.nlm.nih.gov/38777351/>

Pediatric Infectious Disease Journal

Off-label use of ceftazidime/avibactam in neonatal intensive care unit: a real-life experience and literature review

<https://pubmed.ncbi.nlm.nih.gov/38241654/>

Notes from the field: undiagnosed tuberculosis during pregnancy resulting in a neonatal death—United States, 2021

<https://pubmed.ncbi.nlm.nih.gov/38502883/>

Fetal myocarditis associated with maternal Sars-COV-2 infection

<https://pubmed.ncbi.nlm.nih.gov/38190639/>

Immunophenotypes of newborns from Sars-COV-2-infected mothers

<https://pubmed.ncbi.nlm.nih.gov/38416109/>

Early neonatal presentation and neuroimaging of parechovirus meningoencephalitis in a preterm baby: a case report

<https://pubmed.ncbi.nlm.nih.gov/38635913/>

Infection control in the NICU: the roles of surveillance cultures

<https://pubmed.ncbi.nlm.nih.gov/38451896/>

Urinary tract infections in patients younger than 60 days old

<https://pubmed.ncbi.nlm.nih.gov/38241635/>

Pediatric Cardiology

Risk factors and outcomes associated with gaps in care in children with congenital heart disease

<https://www.ncbi.nlm.nih.gov/pubmed/38485760>

Fetal diagnosis of supravalvular aortic stenosis and pulmonary stenosis in a family with non-syndromic elastin mutation

<https://www.ncbi.nlm.nih.gov/pubmed/38294523>

Pediatric Neurology

Effect of placental transfusion on long-term neurodevelopmental outcomes in premature infants: a systematic review and meta-analysis of randomized controlled trials

<https://www.ncbi.nlm.nih.gov/pubmed/38452434>

Genetic and congenital anomalies in infants with hypoxic-ischemic encephalopathy

<https://www.ncbi.nlm.nih.gov/pubmed/38518503>

Obstetrics and Gynecology

Obstetric complications and birth outcomes after antenatal coronavirus disease 2019 (COVID-19)

<https://pubmed.ncbi.nlm.nih.gov/38626447/>

Trends in reporting of nuchal translucency measurements after the clinical introduction of cell-free DNA screening

<https://pubmed.ncbi.nlm.nih.gov/38603781/>

High-dose buprenorphine initiation in the management of opioid use disorder in pregnancy
<https://pubmed.ncbi.nlm.nih.gov/38574367/>

American Journal of Obstetrics & Gynecology

The histologic fetal inflammatory response and neonatal outcomes: systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/37967697>

Accelerated epigenetic clock aging in maternal peripheral blood and preterm birth

<https://pubmed.ncbi.nlm.nih.gov/37690595>

Tocolysis after preterm prelabor rupture of membranes and 5-year outcomes: a population-based cohort study

<https://pubmed.ncbi.nlm.nih.gov/37827270>

Hospital Pediatrics

Reducing IV antibiotic duration for neonatal UTI using a clinical standard pathway

<https://pubmed.ncbi.nlm.nih.gov/38708550>

Comparing outcomes between direct and ED admissions for neonatal hyperbilirubinemia

<https://pubmed.ncbi.nlm.nih.gov/38766712>

Performance of phenotype algorithms for the identification of opioid-exposed infants

<https://pubmed.ncbi.nlm.nih.gov/38804051>

A qualitative intervention evaluation of neonatal virtual family-centered rounds

<https://pubmed.ncbi.nlm.nih.gov/38774983>

Recommendations to improve neonatal circumcision training

<https://pubmed.ncbi.nlm.nih.gov/38808411>

BASIC SCIENCE SELECTIONS

PC (16:0/14:0) ameliorates hyperoxia-induced bronchopulmonary dysplasia by upregulating claudin-1 and promoting alveolar type II cell repair

<https://www.ncbi.nlm.nih.gov/pubmed/38740281>

Protecting effects of 4-octyl itaconate on neonatal hypoxic-ischemic encephalopathy via Nrf2 pathway in astrocytes

<https://www.ncbi.nlm.nih.gov/pubmed/38760862>

Hyperpolarized (¹³C) magnetic resonance imaging in neonatal hypoxic-ischemic encephalopathy: First investigations in a large animal model

<https://www.ncbi.nlm.nih.gov/pubmed/38317333>

A graded neonatal mouse model of necrotizing enterocolitis demonstrates that mild enterocolitis is sufficient to activate microglia and increase cerebral cytokine expression

<https://www.ncbi.nlm.nih.gov/pubmed/38746118>

MiRNA-192-5p-targeted activated leukocyte cell adhesion molecule improved inflammatory injury of neonatal necrotizing enterocolitis

<https://www.ncbi.nlm.nih.gov/pubmed/38717494>

Protective effects of *Lactobacillus reuteri* on intestinal barrier function in a mouse model of neonatal necrotizing enterocolitis

<https://www.ncbi.nlm.nih.gov/pubmed/36368653>

Other relevant articles

Effects of bradycardia, hypoxemia and early intubation on bronchopulmonary dysplasia in very preterm infants: An observational study

<https://www.ncbi.nlm.nih.gov/pubmed/38471331>

Retrospective study of serial polysomnograms of bronchopulmonary dysplasia patients with oxygen dependence

<https://www.ncbi.nlm.nih.gov/pubmed/38411384>

Genetic and congenital anomalies in infants with hypoxic-ischemic encephalopathy

<https://www.ncbi.nlm.nih.gov/pubmed/38518503>

The emerging role of the gut virome in necrotizing enterocolitis

<https://www.ncbi.nlm.nih.gov/pubmed/38711648>

Timing of red blood cell transfusions and occurrence of necrotizing enterocolitis: a secondary analysis of a randomized clinical trial

<https://www.ncbi.nlm.nih.gov/pubmed/38700862>

The role of an abbreviated ultrasound in the evaluation of necrotizing enterocolitis

<https://www.ncbi.nlm.nih.gov/pubmed/38573352>

Fluorescein angiography evaluation of children previously treated with anti-vascular endothelial growth factor monotherapy for retinopathy of prematurity

<https://www.ncbi.nlm.nih.gov/pubmed/38150651>

Efficacy comparison of anti-vascular endothelial growth factor drugs for the treatment of type 1 retinopathy of prematurity: A network meta-analysis of randomised controlled trials

<https://www.ncbi.nlm.nih.gov/pubmed/37815595>