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Section on Neonatal-Perinatal Medicine

ARTICLES OF INTEREST – December 2024

Cost-effectiveness of maternal vaccination to prevent respiratory syncytial virus illness
David W Hutton, Lisa A Prosser, Angela M Rose, et al. Pediatrics.

This study simulated RSV infection and disease with and without seasonal maternal RSV vaccination (RSVpreF) in half of the pregnant persons in the annual US birth cohort during weeks 32 through 36 of gestation. The authors determined that year-round maternal vaccination with RSVpreF would prevent 45,693 outpatient visits, 15,866 ED visits, and 7,571 hospitalizations among infants each year. Vaccination had a societal incremental cost of $396 280 per quality-adjusted life-year (QALY) saved. Vaccination from September through January cost $163,513 per QALY saved. The most influential inputs were QALYs lost from RSV disease, the cost of the vaccine, and RSV-associated hospitalization costs; changes in these inputs yielded outcomes ranging from cost-saving to $800,000 per QALY saved.

Cost-effectiveness of Nirsevimab for respiratory syncytial virus in infants and young children
David W Hutton, Lisa A Prosser, Angela M Rose, et al. Pediatrics.

This study simulated healthcare utilization and deaths from RSV with and without nirsevimab among infants aged 0 to 7 months and those 8 to 19 months old over a single RSV season. The authors estimated that 107,253 outpatient visits, 38,204 emergency department visits, and 14,341 hospitalizations could be averted each year if half of the US birth cohort received nirsevimab. This would cost $153,517 per quality-adjusted life year (QALY) saved. Nirsevimab in the second season for children facing a 10-fold higher risk of hospitalization would cost $308,468 per QALY saved. Sensitivity analyses showed RSV hospitalization costs, nirsevimab cost, and QALYs lost from RSV disease were the most

influential parameters with cost-effectiveness ratios between cost-saving and $323,788 per QALY saved.

Correlating severity of pulmonary hypertension by echocardiogram with mortality in premature infants with bronchopulmonary dysplasia

Rachel D Torok, Robert A Gardner, Piers C A Barker, et al. Am J Perinatol.
Bronchopulmonary dysplasia (BPD) is the most common complication of preterm birth. Infants with BPD are at increased risk for pulmonary hypertension (PH).
The authors sought to use predefined criteria to diagnose PH by echocardiogram and relate PH severity to mortality in extremely premature infants with BPD. Echocardiograms from 46 infants born ≤28 weeks' postmenstrual age with a diagnosis of BPD were assessed for PH by three pediatric cardiologists using predefined criteria, and survival times among categories of PH patients were compared. The authors found that using predefined criteria for PH, premature infants with BPD can be stratified into PH severity categories and that patients diagnosed with severe PH
by echocardiogram have significantly reduced survival.

Therapeutic hypothermia for neonatal hypoxic–ischemic encephalopathy: reducing variability in practice through a collaborative telemedicine initiative
Danieli M K Leandro, Gabriel F T Variane, Alex Dahlen, et al. Am J Perinatol.

This prospective study aimed to assess the viability of implementing a tele-educational training program in neurocritical care for newborns diagnosed with hypoxic-ischemic encephalopathy (HIE) and treated with therapeutic hypothermia (TH), with the goal of reducing practice variation. An educational intervention consisting of 12 biweekly, 1-hour, live videoconferences was implemented during a 6-month period in all centers. The primary outcome was the rate of deviations from TH protocol, and it was evaluated during a 3-month period before and after the intervention. The authors conclude that implementing a tele-educational program in neonatal neurocritical care is feasible and may decrease variability in the delivery of care to patients with HIE treated with TH.

Eclipta prostrata improves alveolar development of bronchopulmonary dysplasia via suppressing the NLRP3 inflammasome in a DLD-dependent manner
Xiaoyan Zheng, Zhen Tan, Danying Zhu, et al. Pediatr Pulmonol.

This study aims to investigate whether Eclipta prostrata (EAP) could improve the lung development of BPD by suppressing the lung inflammatory response. Changes in the NOD-, LRR- and pyrin domain-containing 3 (NLRP3) inflammasome and pyroptosis were assessed by treatment with EAP. The effect of EAP on the NLRP3 inflammasome was tested in vitro using the THP-1 cell line and primary alveolar macrophages. Histopathological and immunofluorescence results of lung tissues revealed that lipopolysaccharide (LPS) and hyperoxia induced lung injury and triggered NLRP3 inflammasome activation and pyroptosis in alveolar macrophages. EAP ameliorated

BPD lung injury, inhibited NLRP3 inflammasome activation and reduced gasdermin D (GSDMD) expression in alveolar macrophages. EAP downregulated the expression of NLRP3 inflammasome pathway molecules (NLRP3, caspase-1, and IL-1beta) and GSDMD in LPS-stimulated THP-1 macrophages and primary alveolar macrophages. This study suggested that EAP could attenuate arrest of alveolar development via inhibiting NLRP3 inflammasome in a DLD-dependent way, and could be a potential therapeutic method for BPD.

Estrogen alleviates oxidative bowel injury and neuroinflammation in necrotizing Enterocolitis
Kıvılcım Karadeniz Cerit, Türkan Koyuncuoğlu, Beyza Akcan, et al. J Surg Res.

This study aimed to elucidate the potential therapeutic effect of estrogen receptor agonists on NEC-induced intestinal and brain injury in rats. NEC rats received either vehicle, estrogen receptor alpha (ERalpha) agonist propyl pyrazole triol (1 mg/kg/day), ERbeta agonist diarylpropionitrile (1 mg/kg/day), or 17beta-estradiol (1 mg/kg/day) during maternal separation. Elevation in proinflammatory cytokines, apoptosis, and microscopically and biochemically evident oxidative injury in both the intestinal and brain tissues were observed in NEC-induced pups. In both the intestinal and brain tissues, nerve growth factor and brain-derived neurotrophic factor protein levels were depleted, expressions of both the ESR1 and ESR2 genes were downregulated, while treatment with 17beta-estradiol or ER agonists alleviated extent of oxidative injury of the intestines and brain tissue, upregulated nerve growth factor, brain-derived neurotrophic factor, and ER gene expressions, abolished NEC-induced decrease in claudin-3 expression, increased the survival rates, improved the clinical states of the survived pups at varying degrees. Activation of estrogen signaling by receptor agonists alleviated NEC-induced intestinal and cerebral injury, implicating that estrogen agonists could be regarded as promising preventive/therapeutic agents for NEC.

Initial surgery for spontaneous intestinal perforation in extremely low birth weight infants is notassociated with mortality or in-hospital morbidities
Amy B Hair, Kevin M Sullivan, Irfan Ahmad, et al. J Perinatol.

This study uses data from the Children's Hospitals Neonatal Database to determine short-term outcomes following peritoneal drain (PD), laparotomy (LAP) after PD (PD-LAP), and LAP in extremely low birth weight (ELBW) infants with spontaneous intestinal perforation (SIP). The study included ELBW infants with SIP managed at units participating in the Children's Hospitals Neonatal Consortium between 2010 to 2016. Of 729 infants with SIP, 383 (53%) received PD, 61(8%) PD-LAP, and 285(39%) LAP. PD infants had lower GA at birth, at SIP diagnosis and upon admission than PD-LAP or LAP; and higher sepsis rates than LAP. Bivariate analysis and Kaplan-Meier survival estimates suggested PD had increased mortality vs. PD-LAP and LAP (27%, 11.5%, and 15.8% respectively, p < 0.001). However, surgical approach was not

significantly associated with mortality in multivariable analysis accounting for GA and illness
severity. Length of stay did not differ by surgical approach. The data from this study suggests
that in ELBW infants with SIP, mortality, and LOS are independent of the initial surgical approach.

Surfactant treatment at birth in a contemporary cohort of preterm infants with bronchopulmonary Dysplasia
Clifford Mueller, Edward G Shepherd, Matthew J Kielt, et al. J Perinatol.

This is an observation study from the BPD collaborative examining a contemporary cohort of BPD patients if surfactant use was associated with BPD severity. This tudy is relevant as there is lack of data regarding the effect of surfactant on incidence of BPD and BPD severity in a more recent cohort of patients as the use of non-invasive respiratory support has increased the use of surfactant has decreased. 971 infants with BPD met entry criteria, 864 (89%) had received surfactant in the first 72 h of life and the remainder had not. There was an association between surfactant and BPD grade, with a greater likelihood of grade 3 BPD in infants who received should be interpreted with caution, while the results of this study suggest that DR or multiple of surfactant may be associated with severe grades of BPD, it does not suggest causality. Receipt of surfactant in DR or multiple doses may reflect the impact of perinatal factors beyond immaturity alone that increase the risk for grade 3 BPD.

OTHER NOTEWORTHY PUBLICATIONS – December 2024

Pediatrics
Cost-effectiveness of nirsevimab for respiratory syncytial virus in infants and young children
https://pubmed.ncbi.nlm.nih.gov/39582316
Cost-effectiveness of maternal vaccination to prevent respiratory syncytial virus illness
https://pubmed.ncbi.nlm.nih.gov/39582303
Parent perspectives on nirsevimab for their newborn
https://pubmed.ncbi.nlm.nih.gov/39587878
Hepatitis C virus testing among perinatally exposed children: 2018 to 2020
https://pubmed.ncbi.nlm.nih.gov/39544019
Mothers falling asleep during infant feeding
https://pubmed.ncbi.nlm.nih.gov/39483051
Sleep-related sudden unexpected infant death among infants prenatally substance exposed
https://pubmed.ncbi.nlm.nih.gov/39558749
Disparities in survival without major morbidity among very low birth weight infants in California
https://pubmed.ncbi.nlm.nih.gov/39574223

Multidimensional and longitudinal impact of a genetic diagnosis for critically ill infants
https://pubmed.ncbi.nlm.nih.gov/39512073
Executive function in children born moderate-to-late preterm: a meta-analysis
https://pubmed.ncbi.nlm.nih.gov/39568341

Journal of Pediatrics

New technologies bring new questions in perinatal HSV
https://www.jpeds.com/article/s0022-3476(24)00456-6/pdf
Substantiating the need for NICU "follow through"
https://www.jpeds.com/article/s0022-3476(24)00457-8/pdf
The emperor has no clothes: c-reactive protein for early-onset sepsis
https://pubmed.ncbi.nlm.nih.gov/39178941/
Recommitting to rules of evidence and laws of inference
https://pubmed.ncbi.nlm.nih.gov/39032771/
Integrated lung ultrasound and targeted neonatal echocardiography evaluation in infants born preterm
https://pubmed.ncbi.nlm.nih.gov/39032769/
Intubation and lower saturation in the delivery room are associated with balloon atrial septostomy in neonates with transposition of the great arteries
https://pubmed.ncbi.nlm.nih.gov/39097264/
Does catch-up growth come with a cognitive cost? cognitive outcome and growth patterns in growth discordant identical twins
https://pubmed.ncbi.nlm.nih.gov/39097263/
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https://pubmed.ncbi.nlm.nih.gov/39095011/
Motivations for and against participation in neonatal research: insights from interviews of diverse parents approached for neonatal research in the united states
https://pubmed.ncbi.nlm.nih.gov/38492913/
Parental report of indoor air pollution is associated with respiratory morbidities in bronchopulmonary dysplasia
https://pubmed.ncbi.nlm.nih.gov/39151604/
Advantages of a data-capture system with video to record neonatal resuscitation interventions
https://pubmed.ncbi.nlm.nih.gov/39151599/
Risk assessment of cognitive impairment at 2 years of age in infants born extremely preterm using the intergrowth-21st growth standards
https://pubmed.ncbi.nlm.nih.gov/39168179/
Etiology, characteristics, and outcomes of neonatal liver failure: lessons learned over the last 3 decades
https://pubmed.ncbi.nlm.nih.gov/39151605/
Congenital hypothyroidism and school achievement in adolescence: a population-based sibling control study

https://pubmed.ncbi.nlm.nih.gov/39151600/
Effects of early enteral to parenteral protein ratios on brain volume and somatic growth in very low birth weight infants
https://pubmed.ncbi.nlm.nih.gov/39181317/
Neonatal risk factors for pulmonary vein stenosis in infants born preterm with severe bronchopulmonary dysplasia
https://pubmed.ncbi.nlm.nih.gov/39181320/
Esophageal atresia with tracheoesophageal fistula is associated with consanguinity
https://pubmed.ncbi.nlm.nih.gov/39151598/
Mucosal site detection of herpes simplex virus in neonates
https://pubmed.ncbi.nlm.nih.gov/39059717/
Cryptic congenital malaria infection causing fever of unknown origin in an infant
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Benign ocular flutter
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Pediatric Research
December issue not released

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

Journal of Perinatology
Opioid equipotency conversions for hospitalized infants: a systematic review
https://pubmed.ncbi.nlm.nih.gov/3930473
“WISER” intervention to reduce healthcare worker burnout – 1 year follow up
https://pubmed.ncbi.nlm.nih.gov/38734802
Systemic racism and Non-Hispanic Black to Non-Hispanic White disparities in infant mortality at the county level
https://pubmed.ncbi.nlm.nih.gov/39014009
Social needs and healthcare utilization in NICU graduates
https://pubmed.ncbi.nlm.nih.gov/39271917
Quality of couple relationship and associated factors in parents of NICU-cared infants during the first year after birth
https://pubmed.ncbi.nlm.nih.gov/39097668
Initial surgery for spontaneous intestinal perforation in extremely low birth weight infants is not associated with mortality or in-hospital morbidities
https://pubmed.ncbi.nlm.nih.gov/38992239
Molecular testing for gastrointestinal pathogens in intestinal tissue of infants with necrotizing
enterocolitis or spontaneous intestinal perforation
https://pubmed.ncbi.nlm.nih.gov/38849546
Maternal, neonatal, and nutritional risk factors for medical and surgical necrotizing enterocolitis

https://pubmed.ncbi.nlm.nih.gov/39030319
Blood absolute monocyte count trends in preterm infants with suspected necrotizing enterocolitis: an adjunct tool for diagnosis?
https://pubmed.ncbi.nlm.nih.gov/39090351
Timing and risk factors associated with acute kidney injury in infants with necrotizing enterocolitis
https://pubmed.ncbi.nlm.nih.gov/38778205
Use of urine neutrophil gelatinase-associated lipocalin for nephrotoxic medication acute kidney
injury screening in neonates
https://pubmed.ncbi.nlm.nih.gov/38514742
Post-natal steroid exposure in very low birthweight neonates and associations with acute kidney injury
https://pubmed.ncbi.nlm.nih.gov/38783049
Neonatal CSF glucose measured by blood gas analyzer, glucometer, and standard laboratory methods
https://pubmed.ncbi.nlm.nih.gov/39227477
Blood volume collected for cultures in infants with suspected neonatal sepsis
https://pubmed.ncbi.nlm.nih.gov/39341980
Time to positivity of blood cultures in a level IV NICU varies based on organism category and population subgroups: is a 36-hour rule out safe?
https://pubmed.ncbi.nlm.nih.gov/38902516
Predictors of mortality and severe illness from Escherichia coli sepsis in neonates
https://pubmed.ncbi.nlm.nih.gov/39266664
Epidemiology and outcomes of bacterial meningitis in the neonatal intensive care unit
https://pubmed.ncbi.nlm.nih.gov/39060554
Surfactant treatment at birth in a contemporary cohort of preterm infants with bronchopulmonary dysplasia
https://pubmed.ncbi.nlm.nih.gov/39020028
Childhood outcomes following discharge from a referral bronchopulmonary dysplasia program
https://pubmed.ncbi.nlm.nih.gov/38937610
Reporting nasal pressure injuries in neonates receiving non-invasive ventilation: a scoping review
https://pubmed.ncbi.nlm.nih.gov/39289554
Decreasing respiratory device-related pressure injuries in the NICU using 3D printed barrier templates
https://pubmed.ncbi.nlm.nih.gov/38267635
The NICU tracheostomy team: multidisciplinary collaboration for improvement in survival of complex patients
https://pubmed.ncbi.nlm.nih.gov/38914748
Advocating for the inclusion of kidney health outcomes in neonatal research: best practice recommendations by the Neonatal Kidney Collaborative
https://pubmed.ncbi.nlm.nih.gov/38969825

Neonatology

Blinding assessments in neonatal ventilation meta-analyses: a systematic meta-epidemiological review
https://pubmed.ncbi.nlm.nih.gov/38861954

Relationship between neonatal cerebral fuels and neurosensory outcomes at 3 years in well
babies: follow-up of the glucose in well babies (GLOW) study
https://pubmed.ncbi.nlm.nih.gov/38631297

Long-term pulmonary and neurodevelopmental outcomes of meconium aspiration syndrome
affected infants: a retrospective national population-based study in Taiwan
https://pubmed.ncbi.nlm.nih.gov/38797163

Blood lactate levels during therapeutic hypothermia and neurodevelopmental outcome or death at 18–24 months of age in neonates with moderate and severe hypoxic-ischemic encephalopathy
https://pubmed.ncbi.nlm.nih.gov/38852586

Epidemiology and outcomes of neonatal sepsis: experience from a tertiary Australian Nicu
https://pubmed.ncbi.nlm.nih.gov/38889701

Air or oxygen for infant resuscitation: a prospective cohort study of moderate-late preterm infants requiring delivery room resuscitation
https://pubmed.ncbi.nlm.nih.gov/38889702

Severe bronchopulmonary dysplasia adversely affects brain growth in preterm infants
https://pubmed.ncbi.nlm.nih.gov/38648742

Skin transillumination improves peripheral vein cannulation by residents in neonates: a randomized controlled trial
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The prevalence and spontaneous closure of ventricular septal defects the first year of life
https://pubmed.ncbi.nlm.nih.gov/38857582

End-of-life care for newborn infants: a multicenter real-life prospective study
https://pubmed.ncbi.nlm.nih.gov/38801819

Late-onset sepsis among extremely preterm infants of 24–28 weeks gestation: an international comparison in 10 high-income countries
https://pubmed.ncbi.nlm.nih.gov/38889700

Laryngeal mask airway in neonatal resuscitation: a survey of the union of European neonatal
and perinatal societies
https://pubmed.ncbi.nlm.nih.gov/38834044

American Journal of Perinatology

Targeted neonatal echocardiography: basics of knobology 101
https://pubmed.ncbi.nlm.nih.gov/38503304/

Treatment for neonatal abstinence syndrome using nonpharmacological interventions
https://pubmed.ncbi.nlm.nih.gov/38729163/

Identifying chatgpt-written patient education materials using text analysis and readability https://pubmed.ncbi.nlm.nih.gov/38593984/
The diagnostic yield of chromosomal microarray analysis in third-trimester fetal abnormalities https://pubmed.ncbi.nlm.nih.gov/38688298/
Antenatal breast milk expression survey of individuals whose pregnancy was complicated by diabetes: exploring knowledge, perceptions, experiences, and milk volume expressed https://pubmed.ncbi.nlm.nih.gov/38723640/
Postpartum hemorrhage after vaginal delivery is associated with a decrease in immediate breastfeeding success
https://pubmed.ncbi.nlm.nih.gov/38802080/
The impact on birth outcomes of sonographic fetal weight estimation in neonatal macrosomia https://pubmed.ncbi.nlm.nih.gov/38698595/
Defining an evaluation protocol for the infant with fetal echogenic bowel
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Association between neonatal outcomes and admission hypothermia among very preterm infants in chinese neonatal intensive care units: a multicenter cohort study
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Critical organ dysfunction and preoperative mortality in newborns with hypoplastic left heart syndrome https://pubmed.ncbi.nlm.nih.gov/38740366/
Association between gestational age and perinatal outcomes in women with late preterm premature rupture of membranes
https://pubmed.ncbi.nlm.nih.gov/38754462/

Journal of Neonatal-Perinatal Medicine
No new content

Maternal Health, Neonatology and Perinatology
Diploid fetus with partially triploid placenta: case presentation and management strategy
https://mhnpjournal.biomedcentral.com/counter/pdf/10.1186/s40748-024-00195-3.pdf
Neoreviews
Depressed skull fracture in infants: the role of vacuum-assisted intervention
https://pubmed.ncbi.nlm.nih.gov/39616143
Beyond prostaglandin E1: management of infants with critical congenital heart defects
https://pubmed.ncbi.nlm.nih.gov/39616144
Robin sequence: neonatal management
https://pubmed.ncbi.nlm.nih.gov/39616138
Recurrence risks in congenital anomalies: a comprehensive guide for parental counseling
https://pubmed.ncbi.nlm.nih.gov/39616141
Fetal arrhythmia with a myriad of complications
https://pubmed.ncbi.nlm.nih.gov/39616140
Neonatal uterine bleeding in a 6-day-old neonate
https://pubmed.ncbi.nlm.nih.gov/39616137
A preterm infant with an unlucky airway
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How to use POCUS to place umbilical lines
https://pubmed.ncbi.nlm.nih.gov/39616139
Recognition and impact of policing families in the neonatal intensive care unit
https://pubmed.ncbi.nlm.nih.gov/39616136

JAMA Pediatrics
When biological causality is determined in a court of law
https://pubmed.ncbi.nlm.nih.gov/39374031/
Antibiotic shortage during a public health crisis—the perfect storm
https://pubmed.ncbi.nlm.nih.gov/39466281/
Prenatal cannabis exposure—an intergenerational risk marker for neurodevelopment
https://pubmed.ncbi.nlm.nih.gov/39466262/
Optimizing public policies for pregnancy and infant outcomes optimizing public policies for pregnancy and infant outcomes
https://pubmed.ncbi.nlm.nih.gov/39401052/
Prenatal cannabis exposure and executive function and aggressive behavior at age 5 years
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Tenant right-to-counsel and adverse birth outcomes in New York, New York
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State social expenditures and preterm birth and low birth weight in the US
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National trends in infant mortality in the US after Dobbs
https://pubmed.ncbi.nlm.nih.gov/39432283/

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Risk factors and nomogram for the prediction of intracranial hemorrhage in very preterm infants
https://pubmed.ncbi.nlm.nih.gov/39633312/
Factors associated with the admission of moderate to late preterm and term neonates within 72 hours of birth at Dedza and Mangochi District Hospitals, Malawi: a matched case-control study
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Untargeted metabolomics analysis of glycerophospholipid metabolism in very low birth weight infants administered multiple oil lipid emulsions
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Brain development using a multicomponent intravenous lipid emulsion in preterm infants
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Prevalence and risk factors associated with birth asphyxia among neonates delivered in China: a systematic review and meta-analysis
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Feasibility of the use of Kangaroo mother care in the transfer of preterm and low-birth-weight infants: a two-arm nonrandomized controlled cluster feasibility study of neonatal transport in Cape Coast, Ghana
https://pubmed.ncbi.nlm.nih.gov/39732693/
Lung recruitment with HFOV versus VTV/AC in preterm infants with RDS
https://pubmed.ncbi.nlm.nih.gov/39716121/

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Nuclear medicine cerebral perfusion studies as an ancillary test to support evaluation of brain death/death by neurologic criteria: single-center experience in infants, 2005–2022
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No relevant articles

Lancet
No relevant articles

JAMA
Intratracheal budesonide mixed with surfactant for extremely preterm infants: the pluss randomized clinical trial
https://pubmed.ncbi.nlm.nih.gov/39527075/

BMJ
No relevant articles

Pediatric Infectious Disease Journal
Acyclovir dosing practices across a multicenter cohort of neonatal intensive care units
https://pubmed.ncbi.nlm.nih.gov/38920385/
Beyond early- and late-onset neonatal sepsis definitions: what are the current causes of neonatal sepsis globally? a systematic review and meta-analysis of the evidence
https://pubmed.ncbi.nlm.nih.gov/39264197/
Concordance of cytomegalovirus saliva and urine testing in infants for the detection of congenital infection
https://pubmed.ncbi.nlm.nih.gov/39105512/
An unusual high prevalence of cryptococcus (naganishia) diffluens colonization in neonates hospitalized in a referral neonatal intensive care unit
https://pubmed.ncbi.nlm.nih.gov/39105514/
Brain abnormalities, neurodevelopmental milestones, and long-term follow-up in newborns with
congenital cytomegalovirus identified through a neonatal screening program
https://journals.lww.com/pidj/fulltext/2024/12000/an_unusual_high_prevalence_of_cryptococcus.17.a
spx

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A challenging interventional procedure: transcatheter closure of tubular patent ductus arteriosus in patients with pulmonary hypertension
https://pubmed.ncbi.nlm.nih.gov/37474608/

Impact of residual lesion severity on neurodevelopmental outcomes following congenital heart surgery in infancy and childhood
https://pubmed.ncbi.nlm.nih.gov/37543999/

Patterns of electrocardiographic abnormalities in children with hypertrophic cardiomyopathy https://pubmed.ncbi.nlm.nih.gov/37684488/

Tricuspid valve repair can restore the prognosis of patients with hypoplastic left heart syndrome and tricuspid valve regurgitation: a meta-analysis
https://pubmed.ncbi.nlm.nih.gov/37555970/

Prenatal diagnosis rate of critical congenital heart disease remains inadequate with significant racial/ethnic and socioeconomic disparities and technical barriers
https://pubmed.ncbi.nlm.nih.gov/37648785/

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https://pubmed.ncbi.nlm.nih.gov/37563317/

Early-onset fetal growth restriction increases left ventricular sphericity in adolescents born very preterm https://pubmed.ncbi.nlm.nih.gov/37596421/

Infective endocarditis at a referral children's hospital during 19-year period: trends and outcomes https://pubmed.ncbi.nlm.nih.gov/37610636/

Augmented reality visualization of 3d rotational angiography in congenital heart disease: a comparative study to standard computer visualization
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Continuous prostanoid initiation in severe pulmonary hypertension in the pediatric cardiac intensive care unit
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Perinatal outcomes of fetuses with prenatally diagnosed atrial appendage aneurysm
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Assessment of vascular indices by abdominal aortic ultrasonography in preterm neonates with bronchopulmonary dysplasia
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Is it diabetes or just macrosomia? fetal myocardial performance index in large-for-gestational age fetuses
https://pubmed.ncbi.nlm.nih.gov/38907872/

A case of successful biventricular repair of the transposition of the great arteries with a coronary anomaly associated with an atrioventricular septal defect
https://pubmed.ncbi.nlm.nih.gov/37624408/

Prenatally diagnosed interventricular septal aneurysm with associated ventricular dysfunction https://pubmed.ncbi.nlm.nih.gov/37730881/

Pediatric Neurology

The genetic puzzle of cerebral palsy: results of a monocentric study
https://pubmed.ncbi.nlm.nih.gov/39213953/

Adequacy of an in–neonatal intensive care unit 1t magnetic resonance imaging compared with 3t magnetic resonance imaging for clinical management
https://pubmed.ncbi.nlm.nih.gov/39255540/
Identification of putative biomarkers in cerebral palsy: a meta-analysis and meta-regression https://pubmed.ncbi.nlm.nih.gov/39265434/
Early biomarkers in the prediction of later functional impairment in preterm children with cerebral palsy https://pubmed.ncbi.nlm.nih.gov/39276578/
Life after neonatal seizures: characterizing the longitudinal parent experience
https://pubmed.ncbi.nlm.nih.gov/39317023/
A comparison of treatment practices for newborn seizure management across level ii and iii neonatal intensive care units in the united states
https://pubmed.ncbi.nlm.nih.gov/39368245/
Helmet therapy for positional plagiocephaly: a systematic review of the tools used to diagnose, offer treatment recommendations, and assess treatment outcomes of the condition https://pubmed.ncbi.nlm.nih.gov/39368248/
Rare ccnd2 (p.thr280ile) variant associated with infantile spasms in a patient with megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome
https://pubmed.ncbi.nlm.nih.gov/39395260/
Adjuvant high-dose erythropoietin with delayed therapeutic hypothermia in neonatal hypoxic-ischemic encephalopathy
https://pubmed.ncbi.nlm.nih.gov/39481349/
Bilateral mechanical thrombectomy in a child with single-ventricle congenital heart disease and protein-losing enteropathy
https://pubmed.ncbi.nlm.nih.gov/39265433/
Research priorities for children with hypoxic-ischemic encephalopathy or myelomeningocele: a survey of parents
https://pubmed.ncbi.nlm.nih.gov/39276579/
A novel question prompt list for parents of neonates with seizures
https://pubmed.ncbi.nlm.nih.gov/39288660/
Cerebrovascular injury from early-onset neonatal escherichia coli meningitis: expanding the clinical-radiologic phenotype
https://pubmed.ncbi.nlm.nih.gov/39388736/

Obstetrics and Gynecology
Betamethasone exposure and neonatal respiratory morbidity among late preterm births by planned mode of delivery and gestational age
https://pubmed.ncbi.nlm.nih.gov/39388700/
Sexual orientation–related disparities in neonatal outcomes
https://pubmed.ncbi.nlm.nih.gov/39361956/

American Journal of Obstetrics & Gynecology
Uptake of the respiratory syncytial virus (RSV) vaccine and nirsevimab among pregnant patients and their neonates
https://www.ajog.org/article/s0002-9378(24)00951-7/abstract

Group b streptococcus (GBS) colonization and risk for preterm delivery in high-risk pregnancies with cervical cerclage
https://www.ajog.org/article/s0002-9378(24)00968-2/abstract

Hospital Pediatrics
Extravasation Identification and Management in Neonates and Pediatrics: A Cross Sectional Survey
https://pubmed.ncbi.nlm.nih.gov/39533873/
Nirsevimab Administration During the Birth Hospitalization
https://pubmed.ncbi.nlm.nih.gov/39539134/

BASIC SCIENCE SELECTIONS
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