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Section on Neonatal-Perinatal Medicine

ARTICLES OF INTEREST – June 2022

Association between neonatal phototherapy exposure and childhood neoplasm
Adva Bugaiski-Shaked, Eilon Shany, Oded Mesner, et al. *J Pediatr.*

This single-center population-based retrospective cohort study investigated the risk of childhood neoplasms associated with phototherapy exposure for neonatal jaundice. The study included 342,172 infants born ≥32 weeks GA between 1988 & 2018, of whom 18,797 (5.5%) were exposed to phototherapy. With a median follow-up timeframe of 9.5 years (range, birth to 18 years), phototherapy exposure was associated with increased risk for childhood malignancies (hazard ratio, 1.89 [95% CI, 1.35-2.67] and benign tumors (1.27 [95% CI, 1.02-1.57]). Phototherapy was specifically associated with hematopoietic cancers (hazard ratio, 2.29 [95% CI, 1.48-3.54; P < .01]) and leukemia (2.51 [95% CI, 1.52-4.14; P < .001]), but not with solid tumors and lymphoma. The study concluded that phototherapy might be associated with a slightly increased childhood risk of neoplasm stressing the need to minimize unnecessary phototherapy.

Therapeutic hypothermia in transport permits earlier treatment regardless of transfer distance
Rachel L Leon, Katherine E Krause, Rebecca S Sides, et al. *Am J Perinatol.*

This single-center cohort study investigated if the initiation of servo-controlled therapeutic hypothermia (TH) for neonates with hypoxic-ischemic encephalopathy (HIE) in transport allowed neonates to reach target temperature (33-34°C) earlier, without a significant delay in the transfer process, for both local and long-distance transport. Neonates receiving TH during transport (n=23 of 85 total HIE), achieved target temperature 77 minutes sooner (230 ± 71 vs. 307 ± 79 minutes of life (MOL); $p < 0.001$), with a higher rate of oral feeding at discharge (95 vs. 71%; $p = 0.03$). The study concluded that cooling in transport was associated with improved short-term outcomes

Society for Maternal-Fetal Medicine Special Statement: Quality metrics for optimal timing of antenatal corticosteroid administration
Rebecca Feldman Hamm, C Andrew Combs, Paola Aghajanian, et al. *Am J Obstet Gynecol.*

The Society for Maternal-Fetal Medicine released a special statement on quality metrics for optimal timing of antenatal corticosteroid administration. Previously, the Joint Commission tracked antenatal steroid administration rates, but the metric was retired in 2020 because Joint Commission hospitals had reached 97% compliance. However, the Joint Commission had no data on steroid administration within 7 days of preterm birth. In this paper, the SMFM suggests birthing sites track the number of patients who receive initial antenatal steroids or first rescue within 7 days of birth between 24 and 33 6/7 weeks' gestation. It is estimated that only 20 to 40% of patients are currently receiving steroids within the optimal window; the suggested benchmark is 60 to 80%. The SMFM proposes the rate of term birth

after antenatal steroids as a balancing measure. It is believed that increasing the use of optimally-timed antenatal steroids can lead to improved outcomes for preterm neonates.

Noninvasive high-frequency oscillatory ventilation vs nasal continuous positive airway pressure vs nasal intermittent positive pressure ventilation as postextubation support for preterm neonates in China - a randomized clinical trial
Xingwang Zhu, HongBo Qi, Zhichun Feng, et al. *JAMA Pediatr.*

This study randomized 1440 preterm neonates between 25 and 32 6/7 weeks' gestation to one of three modes of nasal respiratory support after first extubation from mechanical ventilation. The groups were nasal CPAP, non-synchronous NIPPV, and nasal HFOV. The nasal interface was a standardized short nasal prong sized to fill the nares without blanching the tissue. NCPAP started at 5 cm H2O and increased up to 8 cm H2O. NIPPV started at 15/4 cm H2O, rate 30 bpm and was increased up to 25/8 cm H2O, rate 50 bpm. NHFOV started with Paw 10 cm H2O and was titrated between 5 and 16 cm H2O. Starting frequency was 10 Hz, titrated from 8 to 15 Hz, and amplitude was 25 cm H2O, titrated 25 to 50 cm H2O. NHFOV inspiratory time was 50%. Acceptable FiO2 was up to 0.40. The authors found that NHFOV reduced the duration of invasive ventilation by 15-20% compared to other modes of support. The NHFOV also had fewer reintubations compared to NCPAP. Secondary efficacy and safety outcomes were equal across groups. The authors conclude NHFOV can reduce the use of mechanical ventilation and lower the risk of reintubation.

Neonatal outcomes of non-vigorous neonates with meconium-stained amniotic fluid before and after change in tracheal suctioning recommendation
Vaneet Kalra, Alexandra J Leegwater, Pranjali Vadlaputi, et al. *J Perinatol.*

In this single-center retrospective study the authors sought to evaluate the short-term outcomes of non-vigorous infants born through meconium-stained amniotic fluid (MSAF) before and after implementation of no-tracheal suctioning guidelines. They found that non-vigorous infants born through MSAF without routine-tracheal suctioning had a higher incidence of NICU admission for MAS and respiratory distress compared to the routine-suction era. They conclude that multicenter randomized trials evaluating tracheal suction in non-vigorous infants with MSAF are warranted.

Association of birth during the COVID-19 pandemic with neurodevelopmental status at 6 months in infants with and without in utero exposure to maternal SARS-CoV-2 Infection
Lauren C Shuffrey, Morgan R Firestein, Margaret H Kyle, et al. *JAMA Pediatr.*

This cohort study compared infants exposed to maternal SARS-CoV-2 infection during pregnancy (n=114) with unexposed matched controls (n=141) at a single institution. Infant neurodevelopment was assessed at 6 months with the Ages & Stages Questionnaire, 3rd Edition (ASQ-3). In utero exposure to maternal SARS-CoV-2 infection was not associated with significant differences on any ASQ-3 subdomain, regardless of infection timing or severity. However, compared with a historical cohort (n=62), infants born during the pandemic had significantly lower scores on gross motor (mean difference, -5.63; 95% CI, -8.75 to -2.51; F1,267 = 12.63; P<.005), fine motor (mean difference, -6.61; 95% CI, -10.00 to -3.21; F1,267 = 14.71; P < .005), and personal-social (mean difference, -3.71; 95% CI, -6.61 to -0.82; F1,267 = 6.37; P<.05) subdomains in fully adjusted models. The authors concluded that birth during the pandemic, but not in utero exposure to maternal SARS-CoV-2 infection, was associated with differences in neurodevelopment at age 6 months.

The conflicting role of caffeine supplementation on hyperoxia-induced injury on the cerebellar granular cell neurogenesis of newborn rats
Vivien Giszas, Evelyn Strauß, Christoph Bührer, et al. *Oxid Med Cell Longev.*

Preterm birth disrupts cerebellar development, affecting several downstream targets important for cognition, emotion, and speech. The authors demonstrate that induced oxidative stress via hyperoxia could significantly damage neurogenesis and proliferative capacity of granular cell precursor and Purkinje cells in rat pups. Reversal of cellular neuronal damage after recovery to room air was augmented by treatment with caffeine. The protective effects of caffeine in the cerebellum were limited to neuronal survival, but failed to restore transcript signatures important in migration and differentiation of postmitotic granular cells.

Infant nutrition (donor human milk vs. maternal milk) and long-term neurodevelopmental and growth outcomes in very low birth weight infants
Raza U Bajwa, Muppala N P Raju, Vinayak P Govande, et al. *J Matern Fetal Neonatal Med.*

In this retrospective cohort study, the authors aim to determine if there is an association between type of infant nutrition (maternal breast milk (MBM) or DBM) and neurodevelopmental and growth outcomes in very low birth weight (VLBW) infants at 2-4 years of age. There were no statistically significant differences among type of infant nutrition and long-term neurodevelopmental outcomes. Infants fed DBM have a slightly greater propensity for growth over time compared to infants fed MBM

Dextrose gel for neonates at risk with asymptomatic hypoglycemia: a randomized clinical trial
Kirti Gupta, Prakash Amboiram, Umamaheswari Balakrishnan, et al. *Pediatrics.*

In a stratified randomized control trial of 629 infants, at risk of developing hypoglycemia, it was found that dextrose gel significantly reduced the need for intravenous fluids. Infants were divided into three groups, small for gestational age (SGA) and intrauterine growth-restriction (IUGR), infants of diabetic mothers (IDM) and large for gestational age (LGA), and late preterm (LPT) neonates. Intervention group received dextrose gel followed by breastfeeding, and the control group received only breastfeeding. Treatment failure was significantly less in dextrose gel group in all 3 categories: SGA/IUGR, IDM/LGA, and LPT with a risk ratio of 0.29 (95% CI:0.13-0.67), 0.31 (95% CI:0.14-0.66) and 0.24 (95% CI:0.09-0.66), respectively.

OTHER NOTEWORTHY PUBLICATIONS – June, 2022

COVID-19
Association of SARS-CoV-2 infection during pregnancy with maternal and perinatal outcomes
https://pubmed.ncbi.nlm.nih.gov/33914014
Impact of gestational COVID-19 on neonatal outcomes: is vertical infection possible?
https://pubmed.ncbi.nlm.nih.gov/35363644
Relationship between COVID-19 lockdown and epidemiology of neonatal sepsis
https://pubmed.ncbi.nlm.nih.gov/35195565
Sigmoid colon perforation in a SARS-CoV-2 positive neonate: a uniqueness report and a brief review
https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-022-03392-1
Impact of Coronavirus Disease-2019 on hospital care for neonatal opioid withdrawal syndrome
https://pubmed.ncbi.nlm.nih.gov/35131283/
Association of birth during the COVID-19 pandemic with neurodevelopmental status at 6 months in infants with and without in utero exposure to maternal sars-cov-2 infection
https://pubmed.ncbi.nlm.nih.gov/34982107/
Effect of the COVID-19 pandemic on well-baby nursery
https://pubmed.ncbi.nlm.nih.gov/34666385/
Intussusception and COVID-19 in infants: evidence for an etiopathologic correlation
https://pubmed.ncbi.nlm.nih.gov/35322271/
Hyperglycemia and cytopenias as signs of SARS-CoV-2 delta variant infection in preterm infants
https://pubmed.ncbi.nlm.nih.gov/35237826/

Transmission of severe acute respiratory syndrome-coronavirus-2 (SARS-CoV-2) through infant feeding and early care practices: A systematic review
https://pubmed.ncbi.nlm.nih.gov/34219674/
Epidemiological characteristics of neonates born to mothers infected with COVID-19: A single-centre observational study
https://pubmed.ncbi.nlm.nih.gov/35034912/
Multisystem inflammatory syndrome with persistent neutropenia in neonate exposed to SARS-CoV-2 virus: A case report and review of literature
https://pubmed.ncbi.nlm.nih.gov/34459420/
Preterm neonate delivered to COVID-19 positive mother on ECMO support
https://pubmed.ncbi.nlm.nih.gov/34542036/
Neonatal use of acute care services during the COVID-19 pandemic
https://pubmed.ncbi.nlm.nih.gov/35506337/

Pediatrics
Direct bilirubin and risk of biliary atresia
https://pubmed.ncbi.nlm.nih.gov/35506333/
Dextrose gel for neonates at risk with asymptomatic hypoglycemia: a randomized clinical trial
https://pubmed.ncbi.nlm.nih.gov/35582897/
Transfer patterns of very low birth weight infants for convalescent care
https://pubmed.ncbi.nlm.nih.gov/35588188/
Movement difficulties at age five among extremely preterm infants
https://pubmed.ncbi.nlm.nih.gov/35615946/
Translating neonatal resuscitation guidelines into practice in Brazil
https://pubmed.ncbi.nlm.nih.gov/35510495/
Neurodevelopmental therapy for cerebral palsy: a meta-analysis
https://pubmed.ncbi.nlm.nih.gov/35607928/
An ethical analysis of newborn congenital cytomegalovirus screening
https://pubmed.ncbi.nlm.nih.gov/35641472/

Journal of Pediatrics
Reliability and observer dependence of signs of neonatal hypoglycemia
https://pubmed.ncbi.nlm.nih.gov/35240137/
Hypoglycemia in infants with hypoxic-ischemic encephalopathy is associated with additional brain injury and worse neurodevelopmental outcome
https://pubmed.ncbi.nlm.nih.gov/35120986/
Parent health-related quality of life for infants with congenital anomalies receiving neonatal intensive care
https://pubmed.ncbi.nlm.nih.gov/35151681/
Infant sleep hazards and the risk of sudden unexpected death in infancy
https://pubmed.ncbi.nlm.nih.gov/35120985/
High-risk neighborhoods and neurodevelopmental outcomes in infants born preterm
https://pubmed.ncbi.nlm.nih.gov/35120984/
50 Years ago in the journal of pediatrics: archived! intrauterine transfusion and exchange transfusions for hemolytic disease of the newborn
https://pubmed.ncbi.nlm.nih.gov/35718383/
The trend in costs of tertiary-level neonatal intensive care for neonates born preterm at 22 0/7-28 6/7 weeks of gestation from 2010 to 2019 in Canada
https://pubmed.ncbi.nlm.nih.gov/35304168/
Association between neonatal phototherapy exposure and childhood neoplasm
https://pubmed.ncbi.nlm.nih.gov/35120988/
Relationship between postnatal pulmonary arterial pressure and altered diastolic function in neonates with down syndrome

https://pubmed.ncbi.nlm.nih.gov/35176311/
Neonatal hypotonia following in utero exposure to antidepressant drugs
https://pubmed.ncbi.nlm.nih.gov/35189177/

Pediatric Research

Creation of neonatal hemodynamics research center: building capacity for echocardiography-based science in neonatology
https://www.ncbi.nlm.nih.gov/pubmed/34400790
Successful delivery room management of electromechanical dissociation and heart block: is electrocardiogram useless?
https://www.ncbi.nlm.nih.gov/pubmed/35079112
Anemia, blood transfusions, and necrotizing enterocolitis in premature infants
https://www.ncbi.nlm.nih.gov/pubmed/35292729
Brain proton magnetic resonance spectroscopy and neurodevelopment after preterm birth: a systematic review
https://www.ncbi.nlm.nih.gov/pubmed/33953356
Effects of circulatory arrest and cardiopulmonary bypass on cerebral autoregulation in neonatal swine (PDF)
https://www.nature.com/articles/s41390-021-01525-3.pdf
Developmental window of vulnerability to white matter injury driven by sublethal intermittent hypoxemia
https://www.ncbi.nlm.nih.gov/pubmed/33947998
Calcium-sensing receptor and CPAP-induced neonatal airway hyperreactivity in mice
https://www.ncbi.nlm.nih.gov/pubmed/33958714
Angiopoietin-1 protects against endotoxin-induced neonatal lung injury and alveolar simplification in mice
https://www.ncbi.nlm.nih.gov/pubmed/33980990
Hypothermia is not therapeutic in a neonatal piglet model of inflammation-sensitized hypoxia–ischemia
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8160560/pdf/41390_2021_Article_1584.pdf
Differential placental CpG methylation is associated with chronic lung disease of prematurity
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9160210/pdf/nihms-1757577.pdf
Visuospatial working memory of children and adults born very preterm and/or very low birth weight
https://www.ncbi.nlm.nih.gov/pubmed/34923577
Electrocardiogram for heart rate evaluation during preterm resuscitation at birth: a randomized trial (PDF)
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8513736/pdf/41390_2021_Article_1731.pdf
Neonatal anemia relates to intestinal injury in preterm infants (PDF)
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8670618/pdf/41390_2021_Article_1903.pdf
DNA methylation in former extremely low birth weight newborns: association with cardiovascular and endocrine function
https://www.ncbi.nlm.nih.gov/pubmed/33953357
Respiratory morbidity in preterm infants predicted by natriuretic peptide (MR-proANP) and endothelin-1 (CT-proET-1) (PDF)
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8100356/pdf/41390_2021_Article_1493.pdf
Infant formula containing bovine milk-derived oligosaccharides supports age-appropriate growth and improves stooling pattern (PDF)
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9197766/pdf/41390_2021_Article_1541.pdf
Odor-active volatile compounds in preterm breastmilk (PDF)
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9197798/pdf/41390_2021_Article_1556.pdf
Neonatal encephalopathy prediction of poor outcome with diffusion-weighted imaging connectome and fixel-based analysis
https://www.ncbi.nlm.nih.gov/pubmed/33966055

Early prediction of neurodevelopmental outcomes at 12 years in children born extremely preterm
https://www.ncbi.nlm.nih.gov/pubmed/33972686
Umbilical cord blood metabolomics: association with intrauterine hyperglycemia
https://www.ncbi.nlm.nih.gov/pubmed/33980991
Volumetric capnography pre- and post-surfactant during initial resuscitation of premature infants (PDF)
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9197760/pdf/41390_2021_Article_1578.pdf
Neonatal Dubin–Johnson syndrome: biochemical parameters, characteristics, and genetic variants study
https://www.ncbi.nlm.nih.gov/pubmed/34050268
Neurodevelopmental profiles of infants born <30 weeks gestation at 2 years of age (PDF)
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9177895/pdf/nihms-1757575.pdf

Archives of Disease in Childhood - Fetal & Neonatal Edition
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Journal of Perinatology
Review: Management of severe hyperbilirubinemia in the cholestatic neonate: a review and an approach
https://pubmed.ncbi.nlm.nih.gov/35145210/
Population-based incidence and risk factors for cholestasis in hemolytic disease of the fetus and newborn
https://pubmed.ncbi.nlm.nih.gov/35194159/
Maternal perceived stress and the increased risk of preterm birth in a majority non-Hispanic Black pregnancy cohort
https://pubmed.ncbi.nlm.nih.gov/34400775/
Fathers' experiences of supporting their partners during their preterm infant's stay in the neonatal intensive care unit: a multi-method study
https://pubmed.ncbi.nlm.nih.gov/34471215/
Maternal language disparities in neonatal intensive care unit outcomes
https://pubmed.ncbi.nlm.nih.gov/34716382/
Giving parents support: a randomized trial of peer support for parents after NICU discharge
https://pubmed.ncbi.nlm.nih.gov/35260824/
Correction to: Giving parents support: a randomized trial of peer support for parents after NICU discharge
https://pubmed.ncbi.nlm.nih.gov/35449447/
New mental health diagnoses in parents of infants admitted to a neonatal intensive care unit—a retrospective review of the Military Health System database
https://pubmed.ncbi.nlm.nih.gov/35361885/
Words matter: exploring communication between parents and neonatologists
https://pubmed.ncbi.nlm.nih.gov/35031688/
"What's in a name?" Identification of newborn infants at birth using their given names
https://pubmed.ncbi.nlm.nih.gov/35066565/
Factors associated with initial tidal volume selection during neonatal volume-targeted ventilation in two NICUs: a retrospective cohort study https://pubmed.ncbi.nlm.nih.gov/35279706/
Decreasing delivery room CPAP-associated pneumothorax at ≥35-week gestational age
https://pubmed.ncbi.nlm.nih.gov/35173286/
Neonatal outcomes of non-vigorous neonates with meconium-stained amniotic fluid before and after change in tracheal suctioning recommendation
https://pubmed.ncbi.nlm.nih.gov/34997221/
Sequelae associated with systemic hypertension in infants with severe bronchopulmonary dysplasia
https://pubmed.ncbi.nlm.nih.gov/35354941/
Extremely premature infants born at 23–25 weeks gestation are at substantial risk for pulmonary hypertension
https://pubmed.ncbi.nlm.nih.gov/35365772/

The association between pulmonary vascular disease and respiratory improvement in infants with type I severe bronchopulmonary dysplasia
https://pubmed.ncbi.nlm.nih.gov/35397644/
The effects of maternal hypertension on the early neonatal platelet count
https://pubmed.ncbi.nlm.nih.gov/34845295/
Diagnosis and management of cardiopulmonary events in very low birth weight infants close to discharge: a quality improvement initiative
https://pubmed.ncbi.nlm.nih.gov/35411018/
Perspective: Part 5: Essentials of Neonatal-Perinatal Medicine Fellowship: evaluation of competence and proficiency using Milestones
https://pubmed.ncbi.nlm.nih.gov/35149835/
Perspective: Protecting the infant-parent relationship: special emphasis on perinatal mood and anxiety disorder screening and treatment in neonatal intensive care unit parents
https://pubmed.ncbi.nlm.nih.gov/34711936/
Perspective: Medicaid and moms: the potential impact of extending medicaid coverage to mothers for 1 year after delivery
https://pubmed.ncbi.nlm.nih.gov/35132151/
Perspective: Challenges and opportunities for improving access to approved neonatal drugs and devices
https://pubmed.ncbi.nlm.nih.gov/35132149/
Perspective: US state policies for Medicaid coverage of donor human milk
https://pubmed.ncbi.nlm.nih.gov/35379899/
Perspective: Regionalization of neonatal care: benefits, barriers, and beyond
https://pubmed.ncbi.nlm.nih.gov/35461330/
Journal Club: Is a higher hemoglobin transfusion threshold better for extremely low birthweight infants?
https://pubmed.ncbi.nlm.nih.gov/35249101/
Entrapped peripherally inserted central catheter due to fibrin sheath in a neonate with noninvasive extraction and review of literature
https://pubmed.ncbi.nlm.nih.gov/34719444/
Proceedings of the 13th International Newborn Brain Conference: Neuro-imaging studies
https://pubmed.ncbi.nlm.nih.gov/35431184/
Proceedings of the 13th International Newborn Brain Conference: Fetal and/or neonatal brain development, both normal and abnormal
https://pubmed.ncbi.nlm.nih.gov/35431185/
Proceedings of the 13th International Newborn Brain Conference: Neuroprotection strategies in the neonate
https://pubmed.ncbi.nlm.nih.gov/35431186/
Proceedings of the 13th International Newborn Brain Conference: Long-term outcome studies, Developmental care, Palliative care, Ethical dilemmas, and Challenging clinical scenarios
https://pubmed.ncbi.nlm.nih.gov/35431187/
Proceedings of the 13th International Newborn Brain Conference: Other forms of brain monitoring, such as NIRS, fMRI, biochemical
https://pubmed.ncbi.nlm.nih.gov/35431188/
Proceedings of the 13th International Newborn Brain Conference: Neonatal Neurocritical Care, Seizures, and Continuous EEG monitoring
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Neonatology
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American Journal of Perinatology
Middle cerebral artery dopplers and abnormal neonatal outcomes among pregnant women with Zika virus infection
https://pubmed.ncbi.nlm.nih.gov/34839482/

Neonatal birthweight, infant feeding, and childhood metabolic markers
https://pubmed.ncbi.nlm.nih.gov/34918330/
A growing dilemma: antenatal corticosteroids and long-term consequences
https://pubmed.ncbi.nlm.nih.gov/33053595/
Suspected or proven early-onset sepsis and NLR, PLR, and MPV parameters in neonates with born through MSAF
https://pubmed.ncbi.nlm.nih.gov/33032327/
Flow cytometry: An important diagnostic tool in critically ill preterm neonates with suspected sepsis
https://pubmed.ncbi.nlm.nih.gov/32992350/
Therapeutic hypothermia in transport permits earlier treatment regardless of transfer distance
https://pubmed.ncbi.nlm.nih.gov/33053593/
Comparison of three nursing workload assessment tools in the neonatal intensive care unit and their association with outcomes of very preterm infants
https://pubmed.ncbi.nlm.nih.gov/33053592/
The changing landscape in pediatric hospitals: a multicenter study of how pediatric chronic critical illness impacts NICU throughput
https://pubmed.ncbi.nlm.nih.gov/33075841/
Noninvasive high-frequency oscillatory ventilation: a retrospective chart review
https://pubmed.ncbi.nlm.nih.gov/33075840/
Antibiotic timing in previable prelabor rupture of membranes less than 24 weeks of gestation
https://pubmed.ncbi.nlm.nih.gov/33091944/
Longitudinal analysis of continuous pulse oximetry as prognostic factor in neonatal respiratory distress
https://pubmed.ncbi.nlm.nih.gov/33075845/

Journal of Neonatal-Perinatal Medicine
Commentary — Early discontinuation of antiseizure medication in neonatal seizures - Proceed with caution
https://pubmed.ncbi.nlm.nih.gov/34459421/
Outcomes among preterm infants with patent ductus arteriosus: Relationship with treatment, gestational age, hemodynamic status and timing of treatment
https://pubmed.ncbi.nlm.nih.gov/34719442/
Neonatal aquatic physiotherapy in neonatal intensive care units: A scoping review
https://pubmed.ncbi.nlm.nih.gov/34719445/
The impact of neonatologist performed echocardiography in an Italian neonatal unit
https://pubmed.ncbi.nlm.nih.gov/34864692/
Lack of association between gestational age adjusted TSH percentiles and neurodevelopmental outcomes among preterm infants
https://pubmed.ncbi.nlm.nih.gov/35311715/
Endothelial nitric oxide synthase G894T, intron 4 VNTR, and T786C polymorphisms in retinopathy of prematurity
https://pubmed.ncbi.nlm.nih.gov/34542035/
A novel in-line high frequency interrupter for use with bubble CPAP: A feasibility study in a premature lamb model
https://pubmed.ncbi.nlm.nih.gov/35275565/
Methylene blue versus vasopressin analog for refractory septic shock in the preterm neonate: A randomized controlled trial
https://pubmed.ncbi.nlm.nih.gov/34719443/
Major cardiorespiratory events do not increase after immunizations, eye exams, and other stressors in most very low birth weight infants
https://pubmed.ncbi.nlm.nih.gov/34459417/
Inpatient comparison of wireless and wired pulse oximetry in neonates
https://pubmed.ncbi.nlm.nih.gov/35275564/

Management of well appearing infants born to afebrile mothers with inadequate GBS prophylaxis: A retrospective comparison of the three approaches recommended by the COFN
https://pubmed.ncbi.nlm.nih.gov/34806622/
The concomitant use of vancomycin and piperacillin-tazobactam is associated with acute kidney injury (AKI) in extremely low birth weight infants (ELBW)
https://pubmed.ncbi.nlm.nih.gov/34864693/
Hypoglycemia screening of asymptomatic newborns on the 2nd day of life
https://pubmed.ncbi.nlm.nih.gov/34974442/
Improve the clinical effective decision of the oral feeding readiness in preterm infants: Revise and validate the TC-POFRAS
https://pubmed.ncbi.nlm.nih.gov/34719446/
Therapeutic effects of synbiotic on neonates with gestational age over 34 weeks admitted for jaundice
https://pubmed.ncbi.nlm.nih.gov/34957952/
Treatment practices and implementation of guidelines for hyperbilirubinemia and rebound hyperbilirubinemia
https://pubmed.ncbi.nlm.nih.gov/34542033/
Effective questionnaire design: How to use cognitive interviews to refine questionnaire items
https://pubmed.ncbi.nlm.nih.gov/35034911/
Use of probiotics in the NICU: Evaluating the stability of a three-strain probiotic blend in various media for enteral feeding
https://pubmed.ncbi.nlm.nih.gov/34974440/
Lung ultrasound guided pulmonary recruitment during mechanical ventilation in neonates: A case series
https://pubmed.ncbi.nlm.nih.gov/34151867/
Massive perinatal left ventricle infarction treated with tissue plasminogen activator: No ECMO – A case report
https://pubmed.ncbi.nlm.nih.gov/34806621/

Maternal Health, Neonatology and Perinatology
No new content

Neoreviews
Fetal growth and intrauterine epigenetic programming of obesity and cardiometabolic disease
https://pubmed.ncbi.nlm.nih.gov/35641462/
Rethinking congenital heart disease in preterm neonates
https://pubmed.ncbi.nlm.nih.gov/35641458/
Cardiopulmonary resuscitation with an intact umbilical cord
https://pubmed.ncbi.nlm.nih.gov/35641463/
Linking the perinatal environment to neonatal cardiovascular outcomes
https://pubmed.ncbi.nlm.nih.gov/35641456/
A term neonate with multiorgan dysfunction, severe metabolic acidosis, and hyperkalemia
https://pubmed.ncbi.nlm.nih.gov/35641460/
A hyperalert newborn
https://pubmed.ncbi.nlm.nih.gov/35641455/
Case of bleeding eye with thrombocytopenia
https://pubmed.ncbi.nlm.nih.gov/35641457/
Maternal mastectomy in the third trimester: effects on fetal monitoring
https://pubmed.ncbi.nlm.nih.gov/35641464/
Neonate with a tongue mass
https://pubmed.ncbi.nlm.nih.gov/35641459/
Prenatal diagnosis and management of thrombocytopenia-absent radius syndrome
https://pubmed.ncbi.nlm.nih.gov/35641461/

JAMA Pediatrics

Noninvasive high-frequency oscillatory ventilation vs nasal continuous positive airway pressure vs nasal intermittent positive pressure ventilation as postextubation support for preterm neonates in China - a randomized clinical trial
https://pubmed.ncbi.nlm.nih.gov/35467744/

Association between residential proximity to hydraulic fracturing sites and adverse birth outcomes
https://pubmed.ncbi.nlm.nih.gov/35377398/

Clinical guideline synopsis of evaluation and management of well-appearing febrile infants aged 8 to 60 days
https://pubmed.ncbi.nlm.nih.gov/35285888/

Comparing human milk antibody response after 4 different vaccines for COVID-19
https://pubmed.ncbi.nlm.nih.gov/35285889/

BMC Pediatrics

Safety use of high frequency oscillatory ventilation in transport of newborn infants affected by severe respiratory failure: preliminary data in central Tuscany (PDF)
https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-022-03393-0

The molecular basis of brain injury in preterm infants with sepsis - associated encephalopathy (PDF)
https://bmcpediatr.biomedcentral.com/track/pdf/10.1186/s12887-022-03372-5

The AIMS home-video method: parental experiences and appraisal for use in neonatal follow-up clinics (PDF)
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