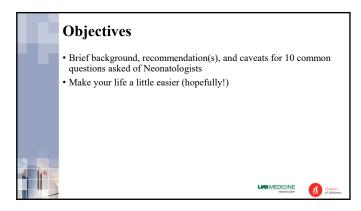


Disclosures No financial disclosures Non-scientific survey for source of questions Limited due to time constraints Current recommendations



1

Should I continue probiotics in the extremely preterm infant and for how long?

· Background:

- Probiotics, defined by the World Health Organization (WHO) as "live microorganisms which, when administered in adequate amounts, confer a health benefit on the host" & are one of the most studied preventive measures for NEC
- Large meta-analyses of various study protocols have demonstrated the efficacy of multiple-strain probiotics in reducing necrotizing enterocolitis and all-cause mortality
- However, there were numerous methodologic differences among study protocols (different strains and combination of therapy) and therefore the efficacy of single-strain probiotic preparations is less certain







Should I continue probiotics in the extremely preterm infant and for how long?

· Background:

- Probiotic products in the US are available for use in the general category of dietary supplements, bypassing the US Food and Drug Administration (FDA) approval process in safety, efficacy, and manufacturing standards
- Although there is good evidence that probiotic therapy reduces NEC, there
 remain challenges regarding the choice of agent, dosing, and duration of
 therapy and product safety
- As a result, due to lack of consensus on optimal regiment and insufficient data for ELBW (<28wk), its use is not routinely recommended based on available data as stated in the most recent 2021 Clinical Report from the American Academy of Pediatrics (AAP)







Should I continue probiotics in the extremely preterm infant and for how long?

• Recommendation: Not routinely recommended, discontinue use at time of NICU discharge

• Caveat(s):

- Approximately 10% of extremely low gestational age neonates receive a probiotic preparation during their stay in the NICU
- UAB RNICU discontinues use at 60 days, corrected 36wk gestation, or when baby is taking majority of their feeds PO due to difficulty to administer using feeding bottle (based on UAB and NRN NEC rates highest between 10 & 60d)
- Other units either not use at all or discontinue at time of discharge





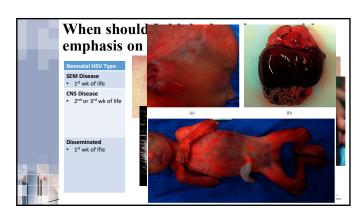
2

When should I think about herpes with emphasis on fever and pictures of rash?

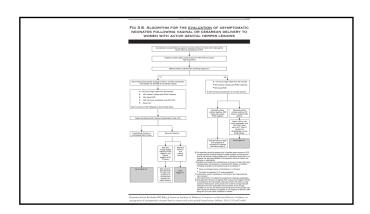
- · Background:
 - 1 out of every 3200 to 10,000 live births
 - Neonatal HSV accounts for 0.2% of neonatal hospitalizations and 0.6% of in-hospital neonatal deaths in the United States and leaves many survivors with permanent sequalae
 - · Neonatal HSV has three distinct periods of acquisition:
 - Intrauterine: Intrauterine infection due to maternal primary infection vs Intrauterine infection due to ascending infection
 - Perinatal: 85%, type of maternal HSV infection (primary versus recurrent), maternal HSV antibody status, duration of ruptured membranes, use of fetal scalp monitors, and mode of delivery (cesarean versus vaginal)
 - Postnatal: 10%, exposure to caretaker with active lesions

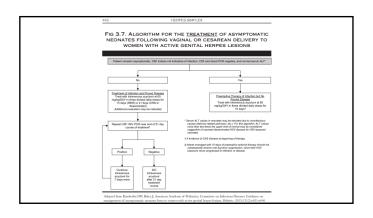






414	HERPES SIMPL	EX	
		ion Classification by laternal Type-Specific Results ^a	
Classification of Maternal Infection	PCR/Culture From Genital Lesion	Maternal HSV-1 and HSV-2 IgG Type-Specific Antibody Status	
Documented first-episode primary infection	Positive, either virus	Both negative	
Documented first-episode nonprimary infection	Positive for HSV-1	Positive for HSV-2 AND negative for HSV-1	
	Positive for HSV-2	Positive for HSV-1 AND negative for HSV-2	
Assumed first-episode (primary or nonprimary)	Positive for HSV-1 OR HSV-2	Not available	
infection	Negative OR not available ^b	Negative for HSV-1 and/or HSV-2, OR not available	
Recurrent infection	Positive for HSV-1	Positive for HSV-1	
	Positive for HSV-2	Positive for HSV-2	
conservative purposes of this neonat	ical history of genital herpes, picious for HSV, clinical judgment al management algorithm. Conver ssay result/culture is negative, dep	assay); IgG, immunoglobulin G, abould supersede the virologic test results for the sely, if, in retrospect, the genital lesion was not likely arture from the evaluation and management in this	





When should I think about herpes with emphasis on fever and pictures of rash?

- \bullet Recommendation: High index of suspicion during 1^{st} 6wk of life of any infant with new onset rash/lesion or nonspecific signs/symptoms, particularly if no history of HSV at all
- Caveat(s): Myths
 - Mode of delivery: vaginal or cesarean
 - ACOG recommendations
 - · AAP recommendations







When is irritation actually omphalitis?

- Background:

 Umbilical/periumbilical cellulitis, often polymicrobial

 O.7% risk in US, up to 22% with at home births

 7-15% mortality, up to 75% mortality if complicated by necrotizing fasciitis

 Clinical: purulent drainage from umbilical site or periumbilical erythema, edema, or tendemess

 Risk factors: low birth weight, prolonged labor, prolonged rupture of membranes or maternal infection, nonsterile delivery, umbilical catheterization, and home birth

 Complications: necrotizing fasciitis, peritonitis, umbilical peritonitis, sepsis

 Risk factors for poor prognosis: Male sex, prematurity, septic delivery (including unplanned home delivery), and abnormal temperature are reported risk factors for poor prognosis in infants with omphalitis

 Recommendation, biol index of suspicion AAP supports day cord care with
- Recommendation: high index of suspicion, AAP supports dry cord care with topical antibiotics in 3rd world countries
- Caveat(s): none







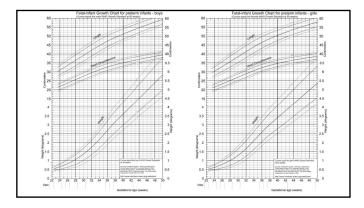
How long to follow NICU/fenton curves?

- - Preterm infants are often significantly under weight at the time of hospital discharge
 - Preterm growth charts aim to mimic growth that occurs during a term pregnancy Multiple preterm curves (Olsen, Bertino, Fenton)

 - If age is not corrected, the infant may appear to be growing suboptimally
 Should be used in conjunction with term charts after 40 weeks
- Recommendation: Corrections for gestational age (GA) should be made for
- head circumference through 18 months of age,
 weight through 24 months of age,
 stature through 40 months of age,
 stature through 40 months of age.
 In general, utilize Fenton preterm infant growth chart until the infant is 44 to 48 weeks PMA
- after which WHO growth curves for term infants can be utilized (~4-6wk post-term)
- Caveat(s): more frequent monitoring for infants with BPD, history of GI comorbidities, and/or CKD







When take off fortified formula?

- · Background: continuation from previous slide
- Recommendation: In general, formula-fed preterm infants should be fed enriched formula until 6mo of age post-term or until they have achieved adequate catch-up growth
- Caveats: What about breastfed babies?
 - After hospital discharge, exclusively human milk-fed preterm infants are at increased risk for suboptimal growth compared with formula-fed infants
 - Human milk-fed preterm infants should also receive iron and vitamin D supplementation, as these two nutrients are inadequately supplied by human milk alone
 - · Often fortified feeds are utilized





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Varieties Vari	A. INFANT FO										Osmolality
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IUMAN MILK AND FORTIFIERS ANALYSIS	Term Preterm										
Indiget	HUMAN MILK	AND FORT	IFIERS AN	ALYSIS							
Umana Milk	Enfamil HMF Liquid +	24	32	48	65	20	20	1150	650	15	322
SimLy SimL	Preterm Human Milk										
PRETERM FORMULAS	(5 mL +										
PRETERM FORMULAS	milk)										
PRETERM FORMULAS	+ Preterm	24	23	41	82	17	30	1381	777	4.6	N/A
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Similac NeoSure

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Similac Special Care 30

27

27 781 461 13.4 250

27 1461 812 14.6 280

34 1826 1014 18.3 325

22 1217 676

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			1
6		Can I give rotavirus post-NEC?	
	F	Background:	
		Rotarix (lives, monovalent human-attenuated vaccine given a 2 & 4mo) RotaTeq (live, pentavalent human-bovine reassortment given at 2, 4, 6mo)	-
		 Contraindications: hypersensitivity to component, uncorrected congenital GI malformation (e.g., Meckel) that would predispose to intussusception, history of intussusception, and/or SCID 	
		• Recommendation: Yes (maybe avoid post-surgical NEC)	
		Caveats: Most common late GI complications from NEC are stricture formation and short bowel syndrome	
		Post-surgical NEC: Strictures — 24 percent (95% CI 17-31%t)	
	٩	 Intestinal failure – 13 percent (95% CI 3-15%) Recurrent NEC – 8 percent (95% CI 7-19%) 	
		Adhesion ileus – 6 percent (95% CI 4-9%)	
			1
7		When should you worry when they don't	
_		pee in nursery?	
		 Background: Although the time of the first void is variable, at least 50% of newborns void by 8hr 	
		of age with nearly all before 24 hours • Differentials: prerenal (shock, asphyxia, hypotension, RDS) and intrinsic (renal	
		agenesis, hypoplastic, dysplastic, or polycystic kidneys), post-renal (neurogenic bladder, urethral stricture, posterior urethral valves, extrinsic compression)	-
		 Recommendation: Verify void wasn't missed at delivery, review PO intake and daily weights, review 	
		diaper monitoring with parents (particularly female), verify no history of oligohydramnios, & palpate bladder	
		sprinkle water, perform crede, and increase PO intake (supplementation) Obtain renal and pelvic US (often diagnostic & therapeutic), if concerning will expand workup in NICU	
	9	• Caveats:	
		Above applies to well-appearing infant	
			•
8		When should you worry when they don't	
		poop in nursery?	-
		Background: Meconium passed within 24hr in 99% healthy, term infants; all by 48hr	
		Delayed passage of meconium ddx: duodenal atresia, malrotation, volvulus, atresia, meconium ileus, meconium plug, Hirschsprung's, imperforate anus,	
		small left colon syndrome, hypothyroidism, maternal labor medications (MgS04)	
		• Recommendation: verify meconium wasn't passed at delivery, verify patent anus, rectal stimulation around 24hr of life, if imaging	
		and exam reassuring follow with rectal suppository q2hr x3 and	
		monitor response • Caveats: Day % of tife Infants	-
	0	Above applies to well-appearing infant Pro term infant can have deleved passes. Bro term infant can have deleved passes.	
		Pre-term infant can have delayed passage 3 99% LIMB MEDICINE 1 99% LIMB MEDICINE	

What to do with sacral dimples?

- Background:
 Several large ultrasound studies have shown that the risk of significant spinal malformations in neonates with isolated sacral dimples or gluteal clefts, in otherwise healthy infants, is exceedingly low
 When US is obtained for multiple cutaneous stigmata, infants are up to 6x more likely to have dysphrasim diagnosed than those imaged based on a single marker

 MRI is more sensitive, with most diagnosed with filar abnormality (fatty filum and/or low conus medullaris), and is gold standard for diagnosis of occult spinal dysphrasim (OSD)

 When should I be concerned?

 Multiple dimples, dimple diameter larger than 5 mm, location greater than 2.5 cm above the anal verge, and/or association of the dimple with other cutaneous markers
 Hypertrichosis, capillary hemangioma, arretic meningocele, subcutaneous mask (eg, lipoma), or a caudial appendage
 Gluteal cleft anomalies other than dimples also have a weak association with milder forms of OSD and warrant further evaluation. (e.g. deviated or duplicate cleft)









What to do with sacral dimples?

• Recommendation:

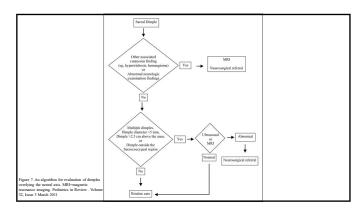
- In general, simple cutaneous lumbosacral markings (such as simple sacral dimple or Y-shaped gluteal cleft) are unlikely to be associated with understudying occult spinal dysphrasim (OSD)

 If covered completely by skin, otoscopic examination of the dimple often can determine if there is a bottom to the pit.

 Although most lesions occur in the midline, eccentric lesions are not in themselves abnormal unless occurring in conjunction with other lesions or outside the sacral spine

MEDICINE MEDICINE





What to do with sacral dimples? • US vs MRI? Accessibility, radiology skill set, & physician preference • In general, if mild anomalies I consider spinal US and discuss with NSGY • If blatant, outpatient referral for spinal MRI by 2mo of life

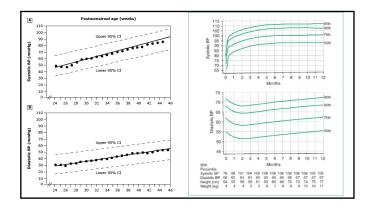
10 What to do with AKI after NICU?

- · Background:

 - Incidence of AKI in 20-40% infants in NICU
 AKI incidence & severity increases with lower gestational age (GA)
 Other high-risk neonatal groups include very preterm infants with the following:
 - Perinatal asphyxia
 Congenital diaphragmatic hernia
 Complex cardiac disease requiring cardiac surgery
 Treatment with extracorporal membrane oxygenation (ECMO)
 Infants with history of AKI are at risk for the development of chronic kidney disease (CKD)
- Recommendation: General pediatricians should consider neonates who have suffered AKI at increased risk for CKD and monitor blood pressure with consideration of further testing on a case-by-case basis
- Caveats: AKI diagnosis is poorly documented, high index of suspicion based on risk factors MEDICINE







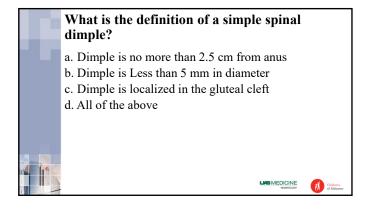
Citations

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	 Courtesy of Gail J Demmler-Harrison, MD, Texas Children's Hospital., Graphic 75059 Version 4.0, Up to Date 2022 (downloaded 1.30.22)
	 Courtesy of Jane Troendle-Atkins, MD, and Gail J Demmler-Harrison, MD, Texas Children's Hospital. Graphic 56041 Version 3.0, Up to Date 2022.
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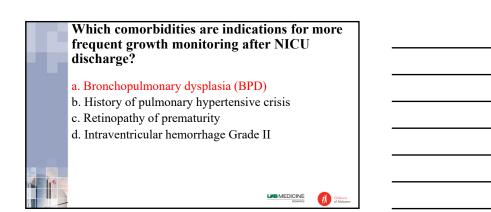
Citations Complaint Output Output





What is the definition of a simple spinal dimple? a. Dimple is no more than 2.5 cm from anus b. Dimple is Less than 5 mm in diameter c. Dimple is localized in the gluteal cleft d. All of the above

Which comorbidities are indications for more frequent growth monitoring after NICU discharge? a. Bronchopulmonary dysplasia (BPD) b. History of pulmonary hypertensive crisis c. Retinopathy of prematurity d. Intraventricular hemorrhage Grade II



Which one of the following is not a complication directly related to omphalitis? a. Necrotizing fasciitis b. Peritonitis c. Gastrointestinal obstruction d. Sepsis

Which one of the following is not a complication directly related to omphalitis?
a. Necrotizing fasciitisb. Peritonitisc. Gastrointestinal obstructiond. Sepsis
LIEB MEDICINE (A) Of Statement

Which scenarios should you necessitates further workup for HSV? a. Mother with vaginal lesion at delivery who delivered asymptomatic baby via vaginal delivery b. New onset rash in newborn with caregiver with herpetic mouth lesion c. Mother with vaginal lesion at delivery who delivered an asymptomatic baby via cesarean d. All of the above

Which scenarios should you necessitates further workup for HSV? a. Mother with vaginal lesion at delivery who delivered asymptomatic baby via vaginal delivery b. New onset rash in newborn with caregiver with herpetic mouth lesion c. Mother with vaginal lesion at delivery who delivered an asymptomatic baby via cesarean d. All of the above Thanks! Questions?