

Subject Matter/Content: Newborn Assessment

Recommended Week in Orientation: 3

Prep Work Prior to Class:

Modality	Topics	Evaluation
POEP Module VII	Overview of Transition to Extra-uterine Life Medications (Vit K, Hep B, Erythromycin) Hypo/hyperthermia Hypoglycemia Bathing Circumcision Pain Hyperbilirubinemia Overview Screening (Metabolic, Hearing, etc)	POEP Pre-test POEP Post-test
CHA Module: Extrauterine Life – Assessment of Neonatal Transition	Fetal Circulation Review Transition to Neonatal Circulation First breath	CHA Knowledge Checks CHA Pre-test CHA Post-test
CHA Module: Developmental Assessment	Developmental Maturity Signs of Stability & Signs of Stress Strategies for Developmental Care	CHA Knowledge Checks CHA Pre-test CHA Post-test

Educators Needed:

- 1 OB or Neonatal content expert
- Enhancement: Neonatologist or Neonatal Nurse Practitioner to facilitate any portion of the day

Materials Needed:

- Baby dolls & baby blankets (enough for 1 per pair)
- Baby dolls with a normal variation mouldaged (i.e. extra digit, caput, ear tag, mongolian spot, hemangioma) – one per group of learners

- Newborn Assessment and Atlas – one per group of learners
- Group worksheet for newborn assessment activity
- Clips for Apgar scoring practice (two)
- Show & tell for supplementation: baby stomach models, supplemental nursing system, syringe and tube, spoon, bottle, nipples
- Pump kits (enough for each group – 2-4)
- Pump (if available for demonstration)
- PP gowns (enough for each group – 2-4)
- Bell, timer, or a loud voice
- National Geographic DVD on Fetal Development
- University of British Columbia video on Newborn Assessment
- Video clip on paced bottle feeding
- A/V Equipment for video clips

Implementation:

Time	Learning Activity	Facilitator Actions	Learner Objectives/Outcomes
30 mins	Ice Breaker & Questions	<ul style="list-style-type: none"> • Put participants in pairs and place a baby doll & swaddle blanket with each pair • Ask the participants to introduce themselves to each other and to name their baby and make up a background story for him/her • Explain the game: Each pair chooses who will be the “competitor” (ideally the person who has not swaddled a baby before). This person then stands up and gets ready to swaddle their baby. When the bell rings, swaddling begins! Whoever swaddles their baby fastest wins a prize. • Use a bell, timer, or just say “Go!” • After the game, have each pair present their partners and their baby to the group • Spend time answering any questions from the prep work that was done prior to class – this will help you identify where the sticking points are and focus your teaching for the day 	<ul style="list-style-type: none"> • Demonstrate understanding of content reviewed prior to class • Distinguish areas of study that require further clarification • Get to know each other!
45 mins	Fetal Development Video & Discussion	<ul style="list-style-type: none"> • Play National Geographic Video on Fetal Development • Lead a discussion with the group <ul style="list-style-type: none"> ○ How does this video help you understand what you learned from the CHA module on Developmental Assessment? ○ Write down one example of how you would developmentally support a newborn at 35 weeks, 38 weeks, and 40 weeks gestation 	<ul style="list-style-type: none"> • Summarize key learning points on developmental support as they relate to fetal development • Formulate a plan for developmentally appropriate care with newborns of varying

			gestational ages
20 mins	Newborn Assessment <i>Video & Discussion</i>	<ul style="list-style-type: none"> • Play video from University of British Columbia http://learnpediatrics.com/videos/newborn-exam/ • Lead a discussion with the group: <ul style="list-style-type: none"> ○ What did you notice? ○ What do you have questions about? 	<ul style="list-style-type: none"> • Identify components of the newborn exam (observe, auscultate, palpate) • Summarize key points to assessment (environment, consistency, involvement of parents)
15 mins	Apgar Practice	<ul style="list-style-type: none"> • Start by answering any questions that may have come up from the prep work around fetal to neonatal transition • Explain the activity – watch one clip of a newborn right after birth, then assign Apgar score to the baby in the clip • Play clip #1 (baby transitioning well) then give 2 mins to decide on score • Poll the group and gain consensus • Debrief the Apgar score with the group • Play clip #2 (baby not transitioning well) and repeat above steps <ul style="list-style-type: none"> ○ Ask “what went well?” and “what did you notice that was confusing?” • Key learning points: Primary vs. Secondary apnea, initial assessment of transition (breathing, tone, gestational age) 	<ul style="list-style-type: none"> • Demonstrate correct evaluation of Apgar score for a newborn transitioning well • Demonstrate correct evaluation of Apgar score for a newborn transitioning poorly • Discriminate secondary apnea from primary apnea • Explain the appropriate interventions for primary & secondary apnea
1 hr	Newborn Assessment <i>Group Activity</i>	<ul style="list-style-type: none"> • Place learners in groups of 3-6 (mix of specialties) • Provide one moulaged baby with common variation to each group • Provide one newborn atlas and group prompt • Circulate during activity to assess participation and answer questions 	<ul style="list-style-type: none"> • Assess a newborn with a common variation • Distinguish which common variation is present • Formulate an explanation and education to the parents of this newborn around the common variation • Write a nursing note describing this variation
45 mins	Infant Nutrition & Supplementation	<ul style="list-style-type: none"> • Show & Tell: <ul style="list-style-type: none"> ○ Use supplemental nursing system, tube & syringe, spoons, bottles, various nipples, baby stomach models to discuss infant supplementation – pass these around • Show clip on pacing: https://www.youtube.com/watch?v=UH4T70OSzGs&feature=youtu.be • Review infant supplementation standards for your institution and 	<ul style="list-style-type: none"> • Identify appropriate feeding materials for supplementation & bottle feeding the newborn • Identify paced feeding technique for bottle fed newborns • Discover institutional resources for bottle feeding &

		answer questions	supplementation
30 mins	Pumping Techniques <i>Demonstration & Game</i>	<ul style="list-style-type: none"> ● Use the pump parts and pump to demonstrate putting a pump together ● Review pumping and milk storage standards for your institution ● Game: <ul style="list-style-type: none"> ○ Split group into 2-4 teams ○ Assign 1 person to be the “patient” at the front of the room in a chair with a PP gown on – if you have any learners experienced with pumping, this would make them an ideal patient ○ One “competitor” from each team comes to the front where a pump kit is set up on a table completely taken apart ○ When the bell rings, the competitors race to put the pump parts together and place them on their “patient” ○ The team that does this the fastest wins a prize! ○ Have each person take a turn competing 	<ul style="list-style-type: none"> ● Identify pump parts ● Demonstrate proper assembly of pump kits ● Discover institutional resources for pumping
30 mins	Questions & Evaluations	<ul style="list-style-type: none"> ● Take time at the end of the class to answer any lingering questions and explain any after-class work ● Encourage the learners to complete their class evaluations 	

Evaluation:

- Pre/Post Test from class prep modules
- Demonstration through writing a plan for implementing developmentally appropriate care
- Demonstration of through writing the ability to identify common variations for newborns
- Demonstration of ability to assign APGAR scores appropriately
- Return demonstration of assembling pump parts

Post-Class Assignment:

1. Go to online group (Wellspot, Sharepoint, etc)
2. Participate in online discussion by answering one of the questions on vaccines or responding to another learner’s post.

Supplemental Resources:

- Fetal Circulation right before birth: <https://www.youtube.com/watch?v=-lRkisEtzsk>
- Baby Circulation right after birth: <https://www.youtube.com/watch?v=jFn0dyU5wUw>