Section: Approval:	Division of Nursing	**************************************		Index: Page: Issue Date: Review Date:	6170.076a 1 June 08, 2007 Jan. 2008
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		MATERNAL SERV (Scope)	<u>ICES</u>		
TITLE:	Bilimeter				
PURPOSE:		To outline procedure to screen infants with the Bilichek Noninvasive Bilirubin Analyzer. This screen is to be performed on the second day of life, and recorded on the Nomogram in each infant's chart.			
SUPPORTIVE	DATA		KE	Y POINTS	
SOFFORTIVE	Jaundice is a yellowing of the caused by and blood. Bilirub	dice is a condition characterized by wing of the skin and eyes that is ed by an excess of bilirubin in the d. Bilirubin is a normal waste uct resulting from the breakdown of			
	red blood cell body by the li in an infant is mother's liver an infant mus the mother's infant's syste	s and is removed from the ver. Prior to birth, bilirubin processed by the and excreted. After birth, at eliminate bilirubin without help. It may take the m several days to begin lirubin from the blood	yellow skin.	This is a subjective	e is the observation of ve determination prone to ors and gestational ages.
infants 4-5 da		s normally peak in full-term lys after birth and may premature infants.	If the infant's serum bilirubin levels continue to rise the infant is at risk for kernicterus (the deposit of bilirubin ir the brain at toxic levels which can cause permanent neurological impairment).		
EQUIPMENT I		ninvasive Bilirubin Analyzer. idual Calibration Tip			
CONTENT:	PROCEDURE	STEPS: KE		EY POINTS:	
	2. Apply a ne	white button to turn the unit on.  ew Bili <i>Cal</i> Individual Calibration Tip to the ss Trigger button to begin calibration.		Unit is in a 'sleep' mode, this will activate unit. The unit will perform a self-test, momentarily displaying all LCD indicators, Measurement Status Indicator, software revision, configuration screen and end at the home screen.  3 dashes () will flash in the display window indicating the unit is ready to calibrate.	
	3. Press the	ess the trigger button again.		The dashed lines will stop flashing indicating that the system is calibrating. When calibration is complete the MSI (dot under display window) will be amber, you will hear a beep, and the	

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display window will read "005".

- 4. Peel away the tab from the disposable Tip. Press and release the trigger button, the window will continue to read "005" indicating that 5 measurements need to be made.
- 5. Press and release the trigger button.

rigger button. The unit is now activated and ready to take a measurement.

 Gently press the BiliCal Tip against the infant's forehead or sternum. The Measurement Status Indicator (MSI) on the display will change from Amber to green when proper pressure is applied. When doing repeated tests on any one infant, always use the same spot, either the forehead or sternum, to ensure consistent measurements.

7. The display will read "005" and will stop blinking wen proper pressure is applied. The meaurement should take less than 2 seconds. At the end of the measurement, a beep will sound and the display will change to "004". Lift the BiliCal tip off the infant's forehead or sternum between each measurement. Do not continue to increase pressure once green light appears, or an E0a4 error message will appear in the display window.

8. Press and release the trigger button before Reapplying the Bili*Cal* Tip to the infant.

The current measurement being taken will be indicated on the display (005...003...001) and the unit will beep one time for each measurement successfully completed.

- Upon completion of the 5 measurements, a Beep sounds and the test results are displayed With the current time and date.
- 10. Remove and dispose of the Bili Cal Tip.

11. Place the meter back in it's holder.

- This will ensure battery charging.
- 12. Record information including date, time, and results on Nomogram in infant's chart. Plot results on graph in RED.

Order serum bilirubin for screening result of 8 or greater.

## References:

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Package insert ORTHO Diagnostic Systems, Inc. Johnson & Johnson Company Raritan, NJ 08869

(2) Core Curriculum, <u>Maternal Newborn Nursing</u>
Edited by Susan Mattson and Judy E, Smith, NAACOG, WB SAUNDERS Co., 1993