

From the Office of Clinical Informatics Cerner Millennium Phototherapy Guidance

January 24, 2023

Current Hyperbilirubinemia guidelines within Cerner are not consistent with the most recent AAP Hyperbilirubinemia management guidelines released in late 2022. In the interim, PediTools will be used.

Phototherapy Guidance

- **<u>STEP 1</u>**: From the **Neonate Workflow MPage**, locate the **Phototherapy Guidance** component.
- **<u>STEP 2</u>**: Select the <u>PediTools</u> hyperlink.
- **<u>STEP 3</u>**: Complete the fields in the online tool **PediTools**.
 - Fill in the Age and Bilirubin information and then select Submit.

<u>STEP 4</u>: View the **Hyperbilirubinemia Management Guidelines**.

GA at birth	GA at birth 39 completed weeks					
Postnatal age	8 hours					
Bilirubin	2.4 mg/dL					
	Phototherapy threshold	Exchange threshold				
No neurotoxicity risk factors	9.9 mg/dL	19.1 mg/dL				
Phototherapy	7.5 mg/dL below phototherapy t	7.5 mg/dL below phototherapy threshold				
Escalation of care	14.7 mg/dL below escalation thr	14.7 mg/dL below escalation threshold				
Exchange transfusion	16.7 mg/dL below exchange threshold					
Birth hospitalization discharge follow-	up recommendations for infants wh	o have NOT received phototherapy				
For bilirubin 2.4 mg/dL at 8 hours age (7.	5 mg/dL below the phototherapy initi	ation threshold):				
• Follow-up within 3 days						

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	Third Party Content and References (1)
	Peditools

Phototherapy Guidance

Age and Bilirubin

Gestation at birth	(35 to 40+ weeks)
Age (hours)	(1 to 336 hours)
Bilirubin (mg/dL)	(optional)
Neurotoxicity risks	ONo risk factors
(required)	OANY risk factors
	OShow both
Plot scale	 Automatic
	OFull-sized
Plot choice	Original publication
	PediTools custom
Reset form	Submit

<u>STEP 5</u>: Obtain **Transcutaneous Bili** on the patient and document within the **Newborn Phototherapy** section of the Newborn Lines

TcB or TSB according to clinical judgment

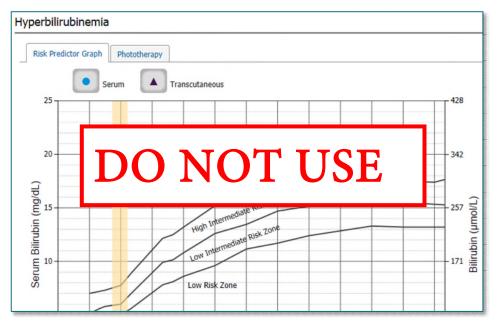
- Devices Procedures iView Band.
- Document if the value is within 3mg/dL.
- Indicate if a serum bilirubin has been drawn or not.
- Documentation of the serum bilirubin has been drawn allows the provider to know to look for results.

Transcutaneous Bili is within 3mg/dL? Was a Serum Bili drawn?		Yes Was a Si		Dili du	2000
Transcutaneous Bili	mg/dL		_		
	No				
WCS NB Bilirubin Transcutaneous POCT	Yes				
Transcutaneous Bili is within 3mg/dL?	_	taneous Bi	li is wi	thin 3	ma/dl
Newborn Bed Type Transcutaneous Bili mg/i	dl	_			
Phototherapy Meter Reading			-	1	
Phot ather ny Bank		6 15	1.	1	Som
Fiber-Optic Blanket					
Phototherapy Activity					

No

NOTE: Serum Bili should be drawn prior to notifying the provider.

<u>NOTE</u>: Please do not use the Hyperbilirubinemia graph in the chart, use the graph in PediTools.



Order Updates

> Orders within the **Newborn Nursery Protocol** will be updated to reflect the new screening tool, PediTools.

R	0	Transcutaneous Bilirubinometer (TCB)	ONCE, 1 Doses/Times, Perform transcutaneous bilirubin at 24 hours of age Nurse to ord cerum Bilirubin if: 1. TCB is greater than or equal to phototherapy threshold,	2. TC
2	+44 hr 😡	Transcutaneous Bilirubinometer (TCB)	Transcutaneous Bilirubinometer (TCB)	2. TC
5	2	Transcutaneous Bilirubinometer (TCB)	Details: ONCE, 1 Doses/Times, Perform transcutaneous bilirubin at 24 hours of age	2. TC
R	0	Transcutaneous Bilirubinometer (TCB)		TCB is
R	Q	Transcutaneous Bilirubinometer (TCB)		DAT (C 2. TC
R	tal Oninid Withdraw	Notify If	 TCB is greater than or equal to 15 mg/dL. See 2022 AAP Bilirubin Nomogram as represented on PediTools. 	um bili

For questions regarding process and/or policies, please contact your unit's Clinical Educator or Clinical Informaticist. For any other questions please contact the Customer Support Center at: 207-973-7728 or 1-888-827-7728.