

# Clinical Policy: Home Phototherapy for Neonatal Hyperbilirubinemia

Reference Number: LA.CP.MP.150 Date of Last Revision: <u>12</u>02/22 Coding Implications Revision Log

See Important Reminder at the end of this policy for important regulatory and legal information.

## Description

This policy details medical necessity criteria for home phototherapy for the treatment of neonatal hyperbilirubinemia. Almost all newborns will develop total serum bilirubin (TSB) levels greater than the upper limit of normal for adults, 1 mg/dL. Increasing TSB can cause jaundice, and newborns with severe hyperbilirubinemia are at risk for developing acute neurotoxicity as bilirubin crosses the blood-brain barrier. Acute bilirubin-induced neurologic dysfunction (BIND) can have chronic and permanent neurologic effects, termed kernicterus. Thus, screening for hyperbilirubinemia should be conducted on all infants prior to discharge.

### **Policy/Criteria**

- I. It is the policy of Louisiana Healthcare Connections that conventional phototherapy in the home, applied by a single light source in the blue-green spectrum(460 to 490nm), for the treatment of physiologic hyperbilirubinemia in *term* ( $\geq 38$  weeks gestation) infants is medically necessary when meeting all of the following guidelines:
  - A. Term infant status is one of the following:
    - 1. Previously discharged home and readmission is being considered only for hyperbilirubinemia; or
    - 2. Infant is currently inpatient and ready for discharge except for needing treatment for elevated bilirubin;
  - **B.** The infant is feeding well, is active, and <u>clinically</u>appears well;
  - **C.** If the mother is breastfeeding, she has been offered lactation support from a qualified professional;
  - **D.** A primary <u>care</u> provider <u>is</u> willing to manage home care with established follow-up within <u>the next 2412 to 24-48</u> hours <u>after discharge</u>;
  - **E.** ≥48 hours old;

**F.** An LED-based phototherapy device will be available in the home without delay;

- G. No previous phototherapy;
- **D.H.** TSB will be measured daily;
- **E.I.** Infant has none of the following risk factors:
  - 1. Isoimmune hemolytic disease (i.e., positive direct antiglobulin test), glucose-6phosphate dehydrogenase (G6PD), or other hemolytic disease;
  - 2. Glucose-6-phosphate dehydrogenase (G6PD) deficiency
  - 3.2. Hypoxic Ischemia Encephalopathy (HIE)/Asphyxia;
  - 4. Significant lethargy
  - 5.3. Temperature instability:
  - 6.4.Sepsis;
  - 7.<u>5.</u>Acidosis<u>;</u>
  - 8.<u>6.</u>Albumin < 3.0 g/dL (if measured);
  - 9.<u>7.</u>Birth weight < 2500g;



- <u>10.8.</u> Significant cephalohematoma or bruising:
- <u>+1.9.</u> Weight loss ≥>10%;
- <u>12.10.</u> Elevated direct-reacting/conjugated bilirubin;
- <u>11.</u> Jaundice appearingance in first 24 hours of life;
- 12. Laboratory or clinical evidence of hypothyroidism;
- 13. Significant clinical instability in the previous 24 hours;
- 14. Clinical history of a parent or sibling requiring phototherapy or exchange transfusion;
- 15. Exclusive breastfeeding with suboptimal intake (≥10% weight loss);
- 16. Down syndrome;
- 17. Macrosomic infant of a diabetic mother.
  - <del>13.</del>

**F.J.** TSB is within the levels noted in Table 1 below<sup>4</sup>:

Table 1. Acceptable TSB levels for home phototherapy in infants without risk factors, by age

Age	TSB Level
24 <u>to</u> -36 hours	$\leq 11 \text{ mg/dL}$
36 <u>to</u> -48 hours	$\leq 14 \text{ mg/dL}$
48 <u>to</u> -60 hours	$\leq$ 15 mg/dL
60 <u>to</u> -72 hours	$\leq$ 16 mg/dL
>72 hours	$\leq$ 17 mg/dL

**\*Note:** The TSB home phototherapy table above allows for conservative TSB levels to align with the lower age limit in hours provided in the age ranges for inpatient criteria for hyperbilirubinemia (see section II).

**II.** It is the policy of Louisiana Healthcare Connections that when criteria for home phototherapy <u>areis</u> met, inpatient phototherapy for hyperbilirubinemia is not medically necessary unless documentation of extenuating circumstances <u>(including, but not limited to, expected lack of compliance with therapy at home) is provided. is provided.</u>

## Note:

- Infants should be admitted for inpatient phototherapy if the TSB concentration is more than 1 mg/dL above the AAP guidelines phototherapy treatment threshold in the hyperbilirubinemia risk calculator at https://peditools.org/bili2022/index.php. The values in Table 1 above offer phototherapy at levels consistent with the AAP statement that phototherapy can be offered below the AAP treatment threshold per the provider's discretion.
- Additional criteria for inpatient phototherapy for hyperbilirubinemia, to be used in conjunction with this policy, can be found in clinical decision support tools.

<del>II.</del>

**III.** It is the policy of Louisiana Healthcare Connections that other treatment for hyperbilirubinemia, including inpatient phototherapy (when not meeting criteria for home



phototherapy per this policy) and exchange transfusion, is **medically necessary** when meeting the most current version of the relevant nationally recognized decision support tools.

#### Background

Efforts to reduce kernicterus include prevention and management of hyperbilirubinemia. Preventive strategies focus on identifying at-risk infants and beginning preventive therapeutic interventions as needed, usually through universal screening of all neonates for hyperbilirubinemia, which may be performed by measurement of total serum bilirubin (TSB) or by use of a transcutaneous device to obtain a Transcutaneous bilirubin (TcB) level.<sup>2</sup>

G6PD deficiency is now recognized as one of the most significant causes of hyperbilirubinemia leading to kernicterus. Identifying neonates with G6PD deficiency is challenging, so knowledge of certain risk factors for this deficiency can lead to improved health outcomes. G6PD deficiency is more common in males because it is a sex-linked recessive gene located on the X chromosome, and males only have one X chromosome. G6PD deficiency is prevalent in populations with genetic ancestry from Sub-Saharan Africa, Middle East, Mediterranean, Arabian Peninsula, and Southeast Asia. Additionally, 13% of African American males and 4% of African American females have G6PD deficiency.<sup>1</sup>

Phototherapy is considered first-line treatment for neonatal hyperbilirubinemia, defined as TSB >  $95^{th}$  percentile on the hour-specific Bhutani nomogram for infants  $\geq 35$  weeks gestational age (GA).<sup>1</sup> Phototherapy has been used widely for over 60 years and has been associated with few adverse events in term infants. Phototherapy decreases or reduces the rate of rise of bilirubinemia in almost all cases, regardless of the cause.<sup>2</sup> It also reduces the risk that TSB will reach the level associated with increased risk of kernicterus and that at which exchange transfusion is recommended.

Some infants are more likely to be readmitted for treatment of hyperbilirubinemia after discharge from the<u>ir</u> birth hospitalization. Infants discharged in the first two days after birth were more likely to be readmitted for jaundice compared with infants who stayed longer than three days, an association that decreased with increasing GA.<sup>7</sup> Other risk factors for hyperbilirubinemia include vaginal delivery, exclusively breastfeeding at discharge, primiparous mother, maternal age less than 20 years old, mother with an Asian country of birth, and higher TSB relative to the treatment threshold at phototherapy initiation.<sup>6,7</sup>

Phototherapy works by using photons from light to alter bilirubin molecules in the superficial capillaries into water-soluble, non-neurotoxic molecules and reducing unconjugated TB levels.<sup>3</sup> Conventional phototherapy is delivered by a single light source<sub>17</sub> and The preferred treatment is intensive phototherapy-is delivered by irradiance in the blue-green spectrum (wavelengths of approximately 430-460 to 490 nm) of at least 30  $\mu$ W/cm2 per nm (measured at the infant's skin directly below the center of the phototherapy unit) and is delivered to as much of the infant's surface area as possible. 3.4 4-Conventional phototherapy may be delivered in the hospital or in the home setting.<sup>5</sup>

Home phototherapy can be less disruptive to the family and is appropriate for otherwise healthy, term infants without hemolysis and other risk factors, who have TB levels 2 to 3 mg/dL below



the recommended threshold level for initiation of hospital phototherapy, are feeding well, and can be closely followed.<sup>3</sup>

Per the updated 2022 clinical practice guidelines from the American Academy of Pediatrics (AAP), home phototherapy is an option that can be started at a lower threshold, such as 2 mg/dL below the phototherapy threshold, to reduce the risk of hospital readmission.<sup>1</sup> During phototherapy, infants should be placed on their backs and fully exposed to the light with the exception of a diaper. Their eyes should be shielded with an opaque blindfold with attention given to prevent the blindfold from covering the nose or sliding off the eyes.<sup>3</sup>

#### American Academy of Pediatrics $(AAP)^{l}$

In 202204, the AAP publishedissued updated clinical practice guidelines that are meant to replace the 2004 clinical guidelines concerning the assessment and treatment of neonatal hyperbilirubinemia in infants ≥35 weeks.<sup>1</sup> The 2022 AAP guidelines focus on recommendations for when infants should have a direct antiglobulin test (DAT) and blood type testing; implementation of care practices that promote evidence-based breastfeeding support that is family-centered; recommendation against providing the infant with water or dextrose water as an oral supplementation to prevent hyperbilirubinemia or to decrease bilirubin levels; importance of assessing for glucose-6-phosphate dehydrogenase (G6PD) deficiency; assessment for hyperbilirubinemia neurotoxicity risk factors; recommendations for when total serum bilirubin (TSB) or transcutaneous bilirubin (TcB) should be measured; recommendations for phototherapy treatment. The 2022 AAP guidelines address the issues of prevention, risk assessment, monitoring, and treatment of neonatal hyperbilirubinemia in infants ≥35 weeks.<sup>1</sup>They recommend support and promotion of successful breastfeeding; assessment for severe hyperbilirubinemia before discharge; early follow up based on risk of hyperbilirubinemia; and treatment with phototherapy and/or exchange transfusion to prevent BIND in infants at risk.

### National Institute for Health and Care Excellence (NICE)<sup>&</sup>

NICE guidelines cover diagnosing and treating jaundice in order to detect and prevent very high levels of bilirubin. They provide consensus-based thresholds for when phototherapy and exchange transfusion should be initiated by age in hours.<sup>8</sup>

### United States Preventive Services Task Force (USPSTF)<sup>9</sup>

The USPSTF stated there was insufficient evidence to make recommendations regarding screening for hyperbilirubinemia for infants  $\geq$ 35 weeks. They note that risk factors for hyperbilirubinemia include family history of neonatal jaundice, exclusive breastfeeding, bruising, cephalohematoma, ethnicity (Asian or black), maternal age older than 25 years, male sex, glucose-6-phosphate dehydrogenase deficiency, and gestational age less than 38 weeks. The specific contribution of these risk factors to chronic bilirubin encephalopathy in healthy children is not well understood. Currently, the USPSTF notes this recommendation is "inactive."<sup>9</sup>

### **Coding Implications**

This clinical policy references Current Procedural Terminology (CPT<sup>®</sup>). CPT<sup>®</sup> is a registered trademark of the American Medical Association. All CPT codes and descriptions are copyrighted 2019, American Medical Association. All rights reserved. CPT codes and CPT descriptions are from the current manuals and those included herein are not intended to be all-inclusive and are



included for informational purposes only. Codes referenced in this clinical policy are for informational purposes only and may not support medical necessity. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

CPT <sup>®</sup> Codes	Description
N/A	

HCPCS	Description
Codes	
E0202	Phototherapy (bilirubin) light with photometer
S9098	Home visit, phototherapy services (e.g., Bili-lite), including equipment rental,
	nursing services, blood draw, supplies, and other services, per diem

#### ICD-10-CM Diagnosis Codes that Support Coverage Criteria

ICD-10-CM	Description
Code	
P55.0-P55.9	Hemolytic disease of newborn
P58.0-P58.9	Neonatal jaundice due to other excessive hemolysis
P59.20-P59.9	Neonatal jaundice from other and unspecified hepatocellular damage

Reviews, Revisions, and Approvals	Date	Approval Date
Converted corporate to local policy.	08/15/2020	
Clarified in section III. that the statement applies when not meeting	2/22	2/22
criteria for home phototherapy in this policy. References reviewed and		
updated. Background updated with no clinical significance. Changed		
"review date" in the header to "date of last revision" and "date" in the		
revision log header to "revision date." Added "may not support		
medical necessity" to coding implications.		
Annual review. Changed title from "Home phototherapy" to	<u>12/22</u>	
"Phototherapy" Updated criteria I.D. from 24-48 hours to 12-24		
hours. Updated criteria to include the following: I.E. ≥48 hours old;		
I.F. An LED-based phototherapy device will be available in the home		
without delay; I.G. No previous phototherapy; I.H. TSB will be		
measured daily.		
Criteria I.I. #1 updated to include example of positive direct		
antiglobulin test for isoimmune hemolytic disease and to include		
glucose-6-phosphate dehydrogenase (G6PD) and other hemolytic		
disease. Criteria I.I. #2 updated to include hypoxic ischemia		
encephalopathy (HIE). Significant lethargy removed from Criteria I.I.		
Criteria I.I. updated to include the following: #13 Significant clinical		
instability in the previous 24 hours; #14 Clinical history of a parent or		
sibling requiring phototherapy or exchange transfusion; #15 Exclusive		



breastfeeding with suboptimal intake (≥10% weight loss); #16 Down syndrome; #17 Macrosomic infant of a diabetic mother. Added note below Table 1 that explains the values are conservative TSB values based on lower age range thresholds in inpatient criteria. Added clarification to II that extenuating circumstances can include lack of expected compliance with therapy at home. Added note below policy statement II stating: that infants should be admitted for inpatient phototherapy if the TSB concentration is more than 1 mg/dL above the AAP guidelines phototherapy treatment threshold per the bili risk tool, and that table 1 is consistent with AAP guidelines allowing treatment at lower levels per provider discretion; and that clinical decision support tools provider further criteria for inpatient phototherapy treatment. Updated background to include 2022 AAP clinical practice guidelines. Removed ICD-10 codes. References	Reviews, Revisions, and Approvals	Date	Approval Date
specialist.	syndrome; #17 Macrosomic infant of a diabetic mother. Added note below Table 1 that explains the values are conservative TSB values based on lower age range thresholds in inpatient criteria. Added clarification to II that extenuating circumstances can include lack of expected compliance with therapy at home. Added note below policy statement II stating: that infants should be admitted for inpatient phototherapy if the TSB concentration is more than 1 mg/dL above the AAP guidelines phototherapy treatment threshold per the bili risk tool, and that table 1 is consistent with AAP guidelines allowing treatment at lower levels per provider discretion; and that clinical decision support tools provider further criteria for inpatient phototherapy treatment. Updated background to include 2022 AAP clinical practice guidelines. Removed ICD-10 codes. References reviewed and updated. Reviewed by internal specialist and external		Date

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## **Important Reminder**

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. LHCC makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved.

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