

# Newborn Critical Congenital Heart Disease (CCHD) Screening\*: A Step-by-Step Instructional Guide<sup>1</sup>

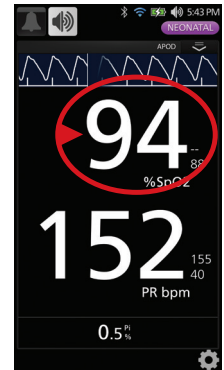
Using an Adhesive Disposable Sensor

## STEP 1: PREDUCTAL (R HAND)

Place sensor on the outer lateral aspect of the RIGHT hand under the 4th or 5th finger; wrap the tape around the site, ensuring that the emitter (✦) and detector are aligned.



## STEP 2: RECORD SpO<sub>2</sub>

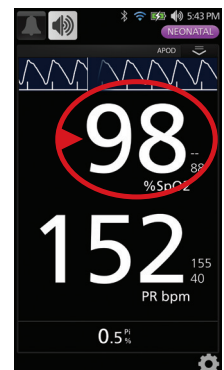


## STEP 3: POSTDUCTAL (L OR R FOOT)

Place sensor on the outer lateral aspect of either foot under the 4th or 5th toe; wrap the tape around the site, ensuring that the emitter (✦) and detector are aligned.



## STEP 4: RECORD SpO<sub>2</sub>



## STEP 5: CCHD SCREEN RESULTS

For screens conducted on newborns 24-48 hours of age or before discharge:

SpO<sub>2</sub> ≥ 95% in hand OR foot  
AND hand-foot difference ≤ 3%

**Negative Screen  
(Pass)**

SpO<sub>2</sub> 90-94% in the hand AND  
foot OR hand-foot absolute  
difference is > 3%  
Repeat measurement in one hour

**Positive Screen  
(Repeat 3 Times to Confirm)**




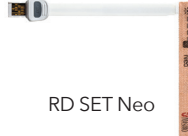









SpO<sub>2</sub> < 90% in hand OR foot,  
OR 3 repeated positive screens  
Refer infant for echocardiogram  
& further medical evaluation

**Positive CCHD  
Screening Test**

\* Masimo does not make recommendations on particular screening protocols or cutoffs. The screening steps and values represented follow the recommended pulse oximetry monitoring protocol developed by an expert work group whose members included primary care providers, specialists, nurses, representatives from various medical and public health organizations, parent screening advocates, state public health officials, and representatives from the CDC, FDA, HRSA, and NIH. The members were selected by the HHS Secretary's Advisory Committee on Heritable Disorders in Newborns and Children (SACHDNC), American Academy of Pediatrics (AAP), the American College of Cardiology (ACC), and the American Heart Association (AHA).<sup>1</sup>



# Implementing Newborn CCHD Screening: Tools of the Trade

Oximeters		Neonatal/Infant Sensors	
			
Radical-7 <sup>1</sup>	Rad-97 <sup>1</sup>	RD SET <sup>™</sup> Inf	RD SET Neo
			
Rad-57 <sup>1</sup>	Rad-5 <sup>1</sup>	M-LNCS <sup>™</sup> Inf	M-LNCS Neo
			
Radical-7 with Root <sup>1</sup>		LNCS <sup>™</sup> Inf	LNCS Neo
			
		M-LNCS YI	LNCS YI

ADHESIVE

REUSABLE

<sup>1</sup> Kemper et al. *Pediatrics*. 2011; Vol. 128; No. 5; pp e1259-67.

Contact your Masimo representative for details or visit us at [masimo.co.uk](http://masimo.co.uk).

For professional use. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.

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