Newborn Critical Congenital Heart Disease (CCHD) Screening*: A Step-by-Step Instructional Guide
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 (4) and detector are aligned.

**STEP 2: RECORD SpO2**

**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 (4) and detector are aligned.

**STEP 4: RECORD SpO2**

**STEP 5: CCHD SCREEN RESULTS**
For screens conducted on newborns 24-48 hours of age or before discharge:

- **SpO2 ≥ 95% in hand OR foot AND hand-foot difference ≤ 3%**
  - Negative Screen (Pass)

- **SpO2 90-94% in the hand AND foot OR hand-foot absolute difference is > 3%**
  - Repeat measurement in one hour

- **SpO2 < 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 Hittable Disorders in Newborns and Children (SACHDNC), American Academy of Pediatrics (AAP), the American College of Cardiology (ACC), and the American Heart Association (AHA).1
### Oximeters

- Radical-7
- Rad-97
- Rad-57
- Rad-5
- Radical-7 with Root

### Neonatal/Infant Sensors

- RD SET™ Inf
- RD SET Neo
- M-LNCS™ Inf
- M-LNCS Neo
- LNCS™ Inf
- LNCS Neo
- M-LNCS YI
- LNCS YI

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