Newborn Critical Congenital Heart Disease (CCHD) Screening⁴: A Step-by-Step Instructional Guide¹
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
  - **Positive Screen (Repeat 3 Times to Confirm)**

- **SpO₂ < 90% in hand OR foot, OR 3 repeated positive screens**
  - Refer infant for echocardiogram & further medical evaluation
  - **Positive CCHD Screening Test**

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*Masimo does not make recommendations on particular screening protocols or cutoffs. The screening steps and values represented reflect the recommended pulse oximetry monitoring protocol developed by an expert work group 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).*
### Implementing Newborn CCHD Screening: Tools of the Trade

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Caution: Federal (USA) law restricts this device to sale by or on the order of a physician. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.

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