**Critical Congenital Heart Disease Screening by Pulse Oximetry**

Screening for Critical Congenital Heart Disease (CCHD) by pulse oximetry (POX) was added to the Wisconsin Newborn Screening Program’s panel of conditions by Emergency Rule on July 3, 2014. Every infant born in a hospital is required to have CCHD screening prior to discharge. Babies born out of hospital are also required to be screened.

**Why is it important to screen for CCHD?**

CCHD requires prompt diagnosis and treatment for the best outcome. Babies with undetected critical congenital heart defects are at risk for death or significant disability.

**What do I need to do if I am a hospital or birth facility, NICU or special care nursery, or a home birth provider and I am not currently screening?**

Visit Wisconsin SHINE (Screening Hearts in Newborns) Project’s website at <http://wisconsinshine.org> for information on how to appropriately screen newborns, including a screening tool kit. The Wisconsin SHINE Project, a collaborative effort of the University of Wisconsin School of Medicine and Public Health, the Medical College of Wisconsin, Wisconsin DHS, and Wisconsin State Laboratory of Hygiene, facilitates implementation of universal screening for CCHD. If further assistance is needed, SHINE on-call personnel can be reached through the UW page operator at 608-262-2122.

The **Wisconsin SHINE Project** provides the following assistance:

* POX screening information.
* Standardized protocols for CCHD screening in the well-baby nursery and NICU.
* 24-hour technical assistance for questions about screening policy or procedure.
* Staff and parent education materials.
* Information on screening results reporting

**How should a hospital or birth facility, NICU or special care nursery, or a home birth provider report results for the pulse oximetry screening for CCHD?**

* Report CCHD screening results on the newborn screening blood card.
* Screeners should mark **PASS** or **FAIL** and fill in date and time (military) of POX screening.
* For a baby that does not have a newborn blood screening card where pulse oximetry screen results can be recorded, contact the Wisconsin SHINE Project Hotline on-call personnel at 608-262-2122.

**How should a hospital or birth facility, NICU or special care nursery, or a home birth provider report the reasons a baby was Not Screened for CCHD by pulse oximetry?**

Occasionally, it may not be appropriate or necessary to screen for CCHD. This could be the case if a baby is transferred out of the birth facility or has had a postnatal echocardiogram before screening can be done appropriately or if their parents decline pulse oximetry screening for religious reasons or personal conviction.

In order to better understand and accurately monitor the number of babies who are Not Screened, it is important to document the reasons why screening was not performed.

* Record **Not Screened** on the newborn blood card. Complete the Not Screened CCHD document and send to the Wisconsin State Laboratory of Hygiene (WSLH). This fillable document is available on line at [www.wisconsinshine.org/study/Not-Screened-CCHD.docx](http://origin.library.constantcontact.com/download/get/file/1109572835074-39/www.wisconsinshine.org/study/Not-Screened-CCHD.docx).
* If there is no blood card because the family declined blood screening, please submit this form only.
* The completed form may be enclosed with blood cards submitted to the WSLH or mailed separately to the following address:

Newborn Screening Laboratory

Wisconsin State Laboratory of Hygiene

465 Henry Mall

Madison, WI 53706

**Reporting of CCHD results should NEVER delay the submission of the blood card**

**Where can I get additional information?**

The Wisconsin SHINE Project has developed educational materials for hospitals and out of hospital and health care providers regarding recommended screening protocols, equipment selection, and other information to support the implementation of CCHD screening. These materials are available at <http://wisconsinshine.org/>. Included on the website are an online learning module and video tutorial. Information for families is available in English and Spanish at <http://wisconsinshine.org/families/>.

You can also visit the DHS website for information regarding the Newborn Screening legislation changes at [www.dhs.wisconsin.gov/health/children/newbornscreening/Updates.htm](http://www.dhs.wisconsin.gov/health/children/newbornscreening/Updates.htm).

If you have questions for the Department of Health Services, contact Sharon Fleischfresser, MD, MPH, Medical Director of the Wisconsin Children and Youth with Special Health Care Needs Program at Sharon.Fleischfresser@wisconsin.gov, 608-266-3674; or Timothy Corden, MD, Chief Medical Officer for the Bureau of Community Health Promotion at Timothy.Corden@wisconsin.gov, 608-266-5818.

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