Franciscan Health System

WORK INSTRUCTION R-W-SPC0115-05

NEWBORN SCREEN (PKU) COLLECTIONS

☑ St. Joseph Medical Center Tacoma, WA ☑ St. Francis Hospital Federal Way, WA ⊠ St. Clare Hospital Lakewood, WA ⊠ St. Anthony Hospital Gig Harbor, WA ⊠ St. Elizabeth Hospital Enumclaw, WA ⊠ PSC

PURPOSE

To provide instruction for the collection, documentation, and processing of Newborn Metabolic Screening (PKU) samples.

BACKGROUND

Newborn Metabolic Screening samples are collected to screen for congenital disorders that may lead to developmental impairment or physical disabilities if not detected. RCW 70.83.050 requires the screening of newborns born in Washington state hospitals prior to their discharge or no later than 5 days of age as well as later to detect other metabolic conditions. This second collection often occurs after discharge from the hospital. The metabolic conditions screened for includes: hypothyroidism, phenylketonuria, galactosemia, maple syrup urine disease, homocystinuria, tyrosinemia, histidinemia, sickle cell and other hemoglobinopathies, adrenal hyperplasia, and a variety of other disorders.

SPECIMEN REQUIREMENTS/PATIENT PREPARATION

Collection of capillary or dorsal blood in sufficient quantity to soak through the card to fill a minimum of 4 or 5 preprinted PKU circles completely.

EQUIPMENT

- Lancet Quikheel
- Alcohol swabs
- Gauze
- Gloves
- Newborn (PKU) Screening Forms and Envelopes
- Warm washcloth, glove filled with warm water or approved heel warmers specifically for infant heel warming.

RELATED DOCUMENTS

State of Washington DOH Specimen Collection Standards for PKU Collections http://www.doh.wa.gov/Portals/1/Documents/5220/NBSCardSample.pdf

Submitter and Provider ID directories:

http://www.doh.wa.gov/YouandYourFamily/InfantsChildrenandTeens/NewbornScreening/NBSProviderDirectories.aspx

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PKU CARD CONTENTS

- 1. Fill out the PKU card with the following information: see example at end of procedure
- 2. Mother's LAST and FIRST name.
- 3. Miscellaneous Information write in Accession number. The state lab will use this number on the report.
- 4. Submitter Name: Enter Hospital name and ID number.
 - a. St. Joseph H 032
 - b. St. Clare H 032 (use 032 for PacLab or Outpatients)
 - c. St. Elizabeth H 035
 - d. St. Francis H 202
 - e. St. Anthony H 032 (use 032 for PacLab or Outpatients)
- 5. Provider Name and ID Number. Look up submitter & provider ID numbers at: <u>http://www.doh.wa.gov/YouandYourFamily/InfantsChildrenandTeens/NewbornScreening/NBSProviderDire</u> <u>ctories.aspx</u>
- 6. Check category of health care provider (MD, DO, etc)
- 7. Child's DATE and TIME of birth
- 8. Sample collection DATE and TIME
- 9. FIRST name of the baby and LAST name.
- 10. Medical Record number in LIS
- 11. Sex: M or F
- 12. Indicate if the baby is a twin
- 13. Birth weight in pounds or grams
- 14. Indicate if transfused: Yes or No
- 15. Race: White, Black, Asian, Native American, Other
- 16. Ethnicity: Hispanic Yes or No

STEPS

Hand hygiene must be performed before and after patient contact. Wash hands or use antiseptic gel prior to gloving, and following glove removal.

- 1. Positively identify the patient by actively comparing 2 patient identifiers from the patient armband or requisition against the sample labels/Newborn screening (PKU) card.
- 2. Warm the heel for at least 3 minutes prior to specimen collection to optimize blood flow, using an approved infant heel warmer.
- 3. Perform infant heel puncture according to laboratory procedure. Gloves must be worn.
- 4. Wipe away the first drop of blood with gauze. Gently touch the filter paper against a large drop of blood forming on the heel until the pre-printed circles are completely filled be careful to not overfill or over-saturate the circle.
 - The filter paper should NOT be pressed against the puncture site.
 - Blood must only be applied to 1 side of the filter paper.
 - Circle should be fully filled or saturated so that the circle also appears filled from the opposite side of the filter paper. Note: Over-saturated samples are unacceptable for testing.
- 5. At minimum, 4 of 5 circles should be filled with blood.
- 6. Allow the specimen to dry for 3 hours in a horizontal position.
- 7. When specimens are dry, place them in individual envelopes. Do not place samples in plastic bags.

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- 8. Specimens collected in the nursery by non-laboratory staff will be delivered to the laboratory. Check for completeness and follow-up with nursery if details are missing from the card.
- 9. Order all PKU's as NB SCR. Press the F11 (Footnote key) before entering NB SCR.
 - At prompt for MOM NAME Enter SEE COM, see Figure 1 below.
 - When window opens, move the cursor below the dotted line. •
 - Insert a Template by pressing PF1key and G. •
 - Enter past the ID •
 - Enter NB SCR as the template, see Figure 2 below. ٠
 - Enter the Mother's full last name and first name in the fields in Figure 3 below. •
 - Place Cerner label on the front of the NB Screening card to the right of the brown box on top. •

Figure 1

PROCEDURE		
NB SCR	90-02268	ACCESSION # COLLE REPOR MOM NAME SEE COM_ COLLE

Figure 2

2			
	PROCEDURE		
	NB SCR	90-02268	ACCESSION #
-	Enter	chartable co	mments above the line, non-chartable below
			[End of Document]
_			
I	D:	Template:	NB SCR

Figure 3

	10-02268	ACCESSION #]
Enter c Mother's Last N Mother's First	lame : JONES-	comments above the line, non-ch SULLIVAN∳	artable below	

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- 10. Build an STL if you are collecting at a site other than SJ and send to SJ. Do not put in a plastic bag, transport in paper bag only.
- 11. SJMC staff Pull an RQW, account for samples and prepare to send to the NB screening lab in Seattle.
 - If baby's name has updated/changed on the RQW and differs from the Label and NB SCR card, verify the correct order by using MRN, Accn and Mother's name to match. Write the updated name on the RQW as a record.

PARENT/GUARDIAN REFUSALS

See back of PKU card if parent/guardian refuses this testing on their child. Complete back of form when this applies and send to State. The test should still be ordered and cancelled as "Patient Refused" for tracking purposes.

ORDERING NOTES

Cerner: NB SCR Reference Lab: State of Washington Newborn Screening Public Health Laboratory Washington State Department of Social & Health Services P. O. Box 55729 Seattle, WA 98155-0729 (206) 418-5410

PROCEDURE NOTES

- Do not refrigerate the samples.
- PKU cards are never to be placed in sealed plastic bags for transport.
- Specimens collected in the nursery by non-laboratory staff will be delivered to the laboratory. Check for completeness and follow-up with nursery if details are missing.
- Any positive or borderline result will be called or faxed to the provider on the report.
- Results on discharged patients will be sent to Health Information Management as well as a copy delivered (courier/mail) to the provider on record at discharge. If the baby is still an inpatient (i.e., SCN) a copy is faxed to that unit.

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Newborn Screening Specimen Collection Card Sample

PRINT.	DO NOT USE	I State Stat
SEE DIRECTIONS ON BACK. PLEASE PRINT.	DOH	Mo Jay I II III III IIII IIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
		NEWBORN SCREENING WASHINGTON STATE DEPT. OF HEALTH D. B.OX 55729 (1610 NE 150TH ST) SHORELINE, WA 98155-0729 www.doh.wa.gov/nbs Phone: 206-418-5410 Toll Free: 1-866-660-9050 Image: Comparison of the test of test
		I declare under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct. Signed: Parent or Guardian Date

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DOCUMENT APPROVAL Purpose of Document / Reason for Change:

10/15/12 – Added bullets under Step 9 for entry of Mom's name. Added Figures 1,2,3. Added caution on plastic bags in Step 10. Accn number is now written under Miscellaneous Info section (Step 3 of card contents). Clarified placement of Cerner label.

No significant change to process in above revision. Per CAP, this revision does not require further Medical Director approval.

Committee Approval Date	 ☑ Date: 10/15/12 ☑ N/A – revision of department-specific document which is used at only one facility 	Medical Director Approval (Electronic Signature)	5/22/12 Linda D. Burkhardt M., D.	
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