CHI Franciscan Health

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Owner:	Karen Lea: Manager-Lab		
	compliance		
Policy Area:	Lab / Urinalysis		
References:			
Applicability:	St. Joseph Medical Center		
	St. Anthony Hospital		
	Of Olawa I I a switch		

- St. Clare Hospital
- St. Elizabeth Hospital
- St. Francis Hospital

POCT Urine Dipstick Quality Control Process PURPOSE

To define the process for managing the inventory and performing quality control for ROCHE Chemstrip urine dipsticks used on the hospital floors for visual urine dipstick testing.

BACKGROUND

The ROCHE Chemstrip urine test system is a multi-parameter test strip that simultaneously measures specific gravity, pH, nitrite, protein, glucose, ketones, leukocytes, and blood in urine. Different reagent pads attached to inert plastic strips change color as they react with the various constituents to be measured. The color change provides semiquantitative measurements which are read visually against a standard color chart on the test strip container.

RELATED DOCUMENTS

POCT Inventory Receipt, R-PR-POC0169

POCT Urine Dipstick Quality Control Check

PROCESS

Hospital	Process	
SJMC CLIA: 50D0897059	 Pharmacy: Brings Chemstrips to the Laboratory Technical Assistant (LTA) to have quality controls (QC) completed 	
	Lab Technical Assistant:Brings Chemstrips to Urinalysis department to be Quality Control checked.	
	Lab Tech:Run QC, document results on the QC form.	



	 Enter received date, expiration date, and the package insert version date on the QC form Return Chemstrips to LTA
	 LTA: If QC Controls acceptable, Tag Chemstrips with "Ready to Use" sticker Return Chemstrips to pharmacy, to be placed in to use. LTA send/take QC form(s) to Point of Care Coordinator
	POCT Coordinator:Review QC form and result details and file.
SFH CLIA:	Pharmacy/Materials Management:Brings Chemstrips to the Lab to have quality controls (QC) completed
50D0897230	 Lab Tech: Run QC, document details on the QC form including the receive date, expiration date, and package insert version date.
	 QC controls acceptable, Tag Chemstrips with "Ready to Use" sticker
	 Document QC in SFH Point of Care Testing Manual Tech delivers Quality Control checked strips to pharmacy
	 Med Tech Coordinator: Reviews QC monthly from POCT Testing Manual Pharmacy is called to pick up Chemstrips, if needed.
SCH CLIA: 50D0978628	Pharmacy:Brings Chemstrips to the Lab to have quality controls (QC) completed
0020070020	 Tech: Run QC, document details on the QC form including the receive date, expiration date, and package insert version date.
	 QC controls acceptable, Tag Chemstrips with "Ready to Use" sticker
	 Document QC in Point of Care Testing Manual Tech delivers Quality Control checked Chemstrips to pharmacy
	Med Tech Coordinator:Reviews QC monthly from POCT Testing Manual
SAH CLIA: 50D1095584	 Materials Management: Brings Chemstrips to the Lab to have quality controls (QC) completed.
	 Lab Tech: Run QC, document details on the QC form including the receive date, expiration date, and package insert version date.
	 QC controls acceptable, Tag Chemstrips with "Ready to Use" sticker
	Document QC in Point of Care Testing book
	Med Tech Coordinator:

	Reviews QC monthly from POCT Testing Manual	
	Lab Staff:	
	Delivers the tagged Quality Control checked Chemstrips to pharmacy department	
SEH	Materials Management:	1
CLIA:	 Brings Chemstrips to the Lab to have quality controls (QC) completed. 	
50D2002804	Lab Tech:	
	 Run QC, document details on the QC form including the receive date, expiration date, and package insert version date. 	
	 QC controls acceptable, Tag Chemstrips with "Ready to Use" sticker 	
	Document QC in Point of Care QC clipboard	
	Med Tech Coordinator:	
	Reviews QC monthly	
	Lab Staff:	
	 Delivers the tagged Quality Control checked Chemstrips to Materials Management department 	
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SUPPLIES

- Quantimetrix, Dipper, 2 levels
- Chemstrips
 - Protect against exposure to light, heat and moisture
 - Store at room temperature 2-30°C
 - Do not freeze
 - Store unused strips in bottle. Do not remove strips from bottle until immediately before use.
 - Replace cap immediately after removing strips, keeping bottle closed tightly
 - · Discoloring or darkening of reagent areas may indicate deterioration
- Timer
- Pipette
- POCT Urine Dipstick Quality Control Check Form

QUALITY CONTROL

Quality Control Process

- 1. Print QC form, from PolicySTAT (Lab/Urinalysis) POCT Urine Dipstick Quality Control Check Form
- 2. For each level of QC, remove one strip from bottle and pipette drops of the Quantimetrix QC on the Chemstrip covering all the test pads.
 - i. Be careful not to have the QC liquid run together while dropping the liquid on the Chemstrip. This can cause false reactions from the reagent in the pads reacting together.
- 3. Immediately start timing
- 4. Read the test pads visually comparing the results to the corresponding row of color blocks on the bottle label
- 5. Read each pad at the time shown on the label, starting with the shortest time. Hold the strip close to the

color blocks and match carefully. Read the pads in good light

- i. All test pads should be read at 1 minute
- ii. If the leukocytes pad indicates a trace results, it should be read again in 2 minutes
- 6. Record lot number, expiration date, and results on QC form (POCT Urine Dipstick Quality Control Check Form)
- 7. Fill in the appropriate acceptable ranges on the QC form:
 - i. Quality control ranges are listed under **ROCHE VISUAL TESTING** (Visual Test Strips Only) (USA) on the Quantimetrix, Dipper package insert
- 8. All results must fall into ranges established by the manufacturer. If any result is out of the established range, repeat testing, taking care to mix reagent thoroughly and time steps carefully. If any result is still out of range, remove the Chemstrip container from service and open a fresh container to perform Quality Controls. Document all corrective actions taken
- 9. Once the QC has been completed and passed, place a "Ready to Use" sticker on the Chemstrips bottle; along with the date and your Tech ID
 - i. Document the QC according to your hospitals process
 - ii. Follow your hospitals protocol in dispensing the urine dipsticks to the pharmacy department

LIMITATIONS

Reagent pad colors are stable up to 120 seconds after immersion. Color changes that occur after 2
minutes from immersion are irrelevant and should be ignored. Color changes that occur only along the
edge of the test pads should be ignored as well (careful removal of excess urine should eliminate this
effect).

Attachments:

No Attachments

Approval Signatures

Approver	Date
Arlene Brennan: Administrative Coordinator	11/2017
Adam Saenz: MD, Medical Director	11/2017
Shane Anderson: MD, Medical Director	11/2017
Linda Burkhardt: MD, Medical Director	11/2017
Brian Folz: Medical Director	11/2017
Joren Keylock: MD, Medical Director	11/2017
Arlene Brennan: Administrative Coordinator	11/2017
Karen Lea: Manager-Lab compliance	11/2017