

Urine Dipstick Medical Mobile Unit: Quality Control Test Procedure

PURPOSE

To provide instruction for the daily Urine Quality Control with the Chemstrip 10A Test Strips – Roche.

REQUIRED MATERIALS

- Chemstrip 10A Test Strips - Roche
- Gloves
- Timer
- Absorbent towel/pad for blotting.
- QC Record Sheet – Normal/Level 1 and Abnormal/Level 2 Controls
- Quality Control Result Chart - Kovatrol or BioRad qUAntify.

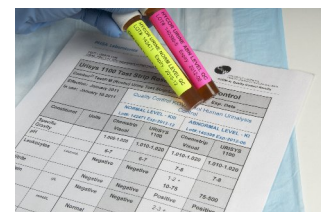


SEE SUPPLY LIST APPENDIX

➤ QC at Children’s Hospital Emergency

- HYCOR KOVATrol Human Urinalysis Control:

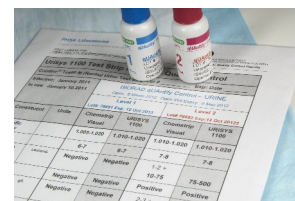
- Normal Control – KOVA® Trol III
- 1 mL aliquot.
- Abnormal control – KOVA® Trol I
- 1 mL aliquot.
- Located in Specimen fridge Chemistry Rm.2J17.
- Delivered daily to Emergency by ER Porter.









➤ QC at Medical Mobile Unit

- BioRad qUANTify Quality Control:

- Level 1 – Normal urine
- Level 2 – Abnormal urine
- - 12 mL Vials each
- - Stored at Room Temperature
- - Open Vial expiry is 60 Days.



ACTION		Related Documents Title Number				
<p><i>Note: Quality Control is performed:</i></p> <ul style="list-style-type: none"> • <i>Once within a 24 hour period before patient testing.</i> • <i>When starting a new vial of Chemstrip 10A test strips.</i> • <i>When starting a new lot number of Chemstrip 10A test strips.</i> 						
1.	Gather equipment and assemble supplies on work space.					
	<table border="1" style="width: 100%;"> <tr> <th style="width: 50%; text-align: center;">Children’s Hospital Emergency</th> <th style="width: 50%; text-align: center;">Medical Mobile Unit</th> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;"></td> </tr> </table>	Children’s Hospital Emergency	Medical Mobile Unit			
Children’s Hospital Emergency	Medical Mobile Unit					
						
2.	Wear Gloves					
3.	Urine Quality Control is at room temperature before testing. Check for dates in					

Medical Approval: Dr Benjamin Jung



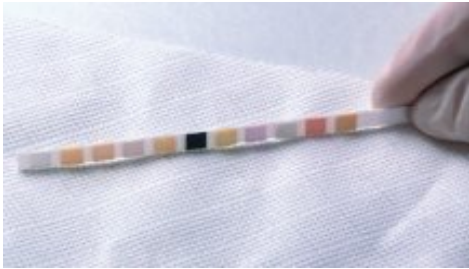

Version: 1.1

Folder Name: CW\Point of Care\Urine Dipstick

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	ACTION	Related Documents Title Number
	use.	
4.	<p>Obtain Urine Test Strip Vial – Chemstrip 10A.</p> <ul style="list-style-type: none"> • Check vial for expiry date. • Remove urine test strip from vial. • Immediately replace the cap for a tight seal. <p>Note: Discard the Chemstrip 10A strip vial and contents if found with cap removed.</p>	
5.	<p>Test the Urine Quality Control (UQC) solutions.</p> <ul style="list-style-type: none"> • Mix UQC sample well just before testing. • Apply UQC for approximately one second. 	
	<p>Children’s Hospital Emergency – Briefly dip test strip into the Quality Control tube.</p> 	
	<p>Medical Mobile Unit – Add a couple of drops onto the test strip from the Quality Control vial.</p> 	
	<ul style="list-style-type: none"> • gently touch the long edge of the test strip to a piece of absorbent paper to remove any excess urine. <p>Caution: Do not blot urine test strip onto pad with color pads facing down onto the absorbent material.</p>	
	<ul style="list-style-type: none"> • place the test strip, pads facing up, onto paper towel or absorbent pad. • Set timer for 60 seconds for test pads to develop. 	

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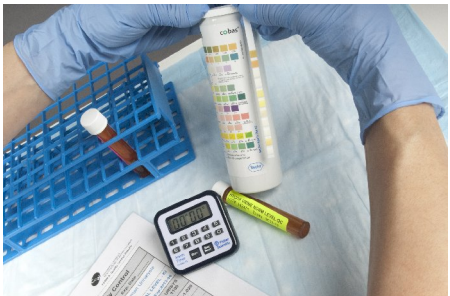



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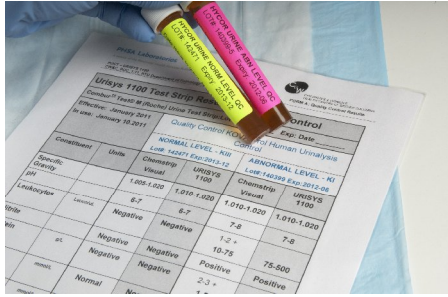
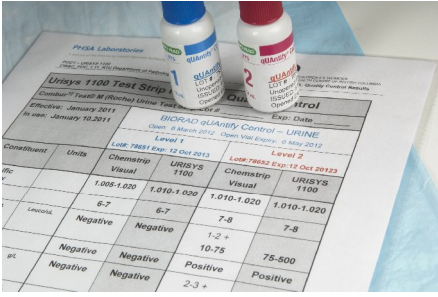
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	ACTION								Related Documents Title Number	
6.	Urine Quality Control Results <ul style="list-style-type: none"> Hold container upright and test strip vertically. Compare each test pad to the corresponding row of color blocks on the label. 									
	Read @ (seconds)		Compare reagent area on test strip at specified times to color chart on test strip bottle. Circle result.							
	SG	60	1.000	1.005	1.010	1.015	1.020	1.025	1.030	
	pH	60			5	6	7	8	9	
	Leukocytes	60-120	Leucocytes/uL		neg	1+ 10-25	2+ 75	3+ 500		
	Nitrite	60			neg	pos				
	Protein	60	g/L		neg	1+ 0.3	2+ 1.0	3+ 5.0		
	Glucose	60	mmol/L		normal	1+ 2.8	2+ 5.5	3+ 17	4+ 56	
	Ketones	60			neg	1+	2+	3+		
	Urobilinogen	60	umol/L		normal	1+ 17	2+ 70	3+ 140	4+ 200	
	Blood	60	Erythrocytes/uL	neg	1+	2+	3+	4+		
intact				5-10	25	50	250			
neg lyzed				1+ 10	2+ 25	3+ 50	4+ 250			
Children's Hospital					Medical Mobile Unit					
Normal Level UQC					Level 1 UQC					
										
Abnormal Level UQC					Level 2 UQC					
										

ACTION		Related Documents Title Number
7.	<p>Document UQC results onto QC record sheets – Normal and Abnormal Levels.</p> <p>Note: There is a separate sheet for Children’s Hospital Emergency – Normal and Abnormal Levels UQC; for Medical Mobile Unit – Level 1 and Level 2.</p>	
8.	<p>Check UQC Results with appropriate chart. Check for current lot #'s and expiry dates of the UQC's.</p>	
	Children’s Hospital	Medical Mobile Unit
		
	If	then
	<p>Within QC acceptable limits.</p> <p>Not within QC acceptable limits.</p>	<p>Proceed to Patient testing.</p> <p>Possible cause: Lid off of Test Strip Vial? Inadequate sampling – test strip not inserted into solution? Inadequate mixing? QC lid left off vial? QC not within expiry date? QC not within open vial expiry date?</p> <p>Action: Open new vial of Test Strips, and discard the vial with the lid left off. Discard UQC if lid left off vial. Discard UQC if not within expiry date. Discard UQC if not within open expiry date. Repeat UQC testing with new test strip – ensure full absorption of test pads. Mix UQC well before testing.</p>
	<p>Contact POCT Technologist or Chemistry Lab for new Quality Control aliquots. Children’s & Women’s Laboratory: 604-875-2345 Point of Care Testing: Monday-Friday: ext: 7521 Rm. 2J8 Chemistry Lab: Weekends, after hours: ext: 7820 Rm. 2J17</p>	
9.	Dispose of urine test strip in appropriate waste as per established procedure.	
10.	Discard residual QC urine aliquot in appropriate waste.	

REVISION & APPROVAL LOG

Version	Revision Type	Description of Change	Revision Date	Technical Approval	Medical Approval
1.0		New document		Elvira Kozak	Dr. Cathy Halstead
1.1	Minor	Document title and number change. Upload to QMS document control	28 Dec 2016		Dr. Benjamin Jung

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