

Urine Dipstick Emergency Dept: Patient Test Procedure

- **Childrens Hospital: Emergency Department**
- **Medical Mobile Unit**

PURPOSE

To provide instruction in performing a manual Routine Urine Test using urine test strips Chemstrip-10A.

REQUIRED MATERIALS

- Urine Test Strips Chemstrip 10A – Roche Diagnostics
- Gloves
- Timer
- Absorbent towel/pad for blotting urine test strip.
- Sterile Urine containers x1 or x2.
- Result Form: Result Pad – Chemstrip 10A Manual report.



ACTION		Related Documents Title Number					
<p><i>Use freshly voided urine for analysis.</i></p> <ul style="list-style-type: none"> • <i>Urine is well mixed just before dipping the urine with the test strip.</i> • <i>Urine is < 2 hours.</i> • <i>Urine > 2 hours is not suitable for follow up microscopy testing.</i> 							
1.	Collect patient urine sample. Refer to nursing policy. <ul style="list-style-type: none"> • Midstream, Catheter or Bagged Urine Collection. 	C&W Nursing Policy NU-001 Urine Specimen: Collection for Culture & Sensitivity.					
2.	Obtain patient identifier labels if available.						
3.	Transport urine and patient identifier labels to testing area.						
	<table border="1" style="width: 100%;"> <tr> <th style="width: 50%; text-align: left;">Children’s Hospital Emergency</th> <th style="width: 50%; text-align: left;">Medical Mobile Unit</th> </tr> <tr> <td>Utility Rooms <ul style="list-style-type: none"> • Urgent Care • Acute Care </td> <td>Allocated workspace.</td> </tr> </table>		Children’s Hospital Emergency	Medical Mobile Unit	Utility Rooms <ul style="list-style-type: none"> • Urgent Care • Acute Care 	Allocated workspace.	
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4.	Gather equipment and assemble supplies with patient sample on work space.						
5.	Wear Gloves.						
6.	Mix entire patient urine sample well in collected container.						
7.	Place the well mixed patient urine sample into sterile container/s. <ul style="list-style-type: none"> • Minimum volume of 0.5 mL urine in both containers. <table border="1" style="width: 100%;"> <tr> <th style="width: 50%; text-align: left;"><i>if</i></th> <th style="width: 50%; text-align: left;"><i>then</i></th> </tr> <tr> <td> <ul style="list-style-type: none"> • Midstream • Catheter </td> <td> <ul style="list-style-type: none"> • Split into two sterile containers. • Label one of the containers with “M” for midstream or “C” for catheter. This is the aliquot for possible follow up culture sample. </td> </tr> <tr> <td> <ul style="list-style-type: none"> • Bag </td> <td> <ul style="list-style-type: none"> • Into one sterile container. </td> </tr> </table>	<i>if</i>	<i>then</i>	<ul style="list-style-type: none"> • Midstream • Catheter 	<ul style="list-style-type: none"> • Split into two sterile containers. • Label one of the containers with “M” for midstream or “C” for catheter. This is the aliquot for possible follow up culture sample. 	<ul style="list-style-type: none"> • Bag 	<ul style="list-style-type: none"> • Into one sterile container.
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<ul style="list-style-type: none"> • Bag 	<ul style="list-style-type: none"> • Into one sterile container. 						
8.	Label urine sample container/s and Patient Urine Result Form with patient identifiers as per established procedure. Use label if available. <ul style="list-style-type: none"> • name • unit number • date of birth • date and time of collection. 						

Medical Approval: Dr Benjamin Jung


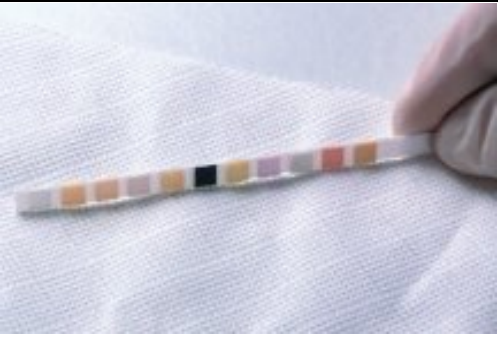
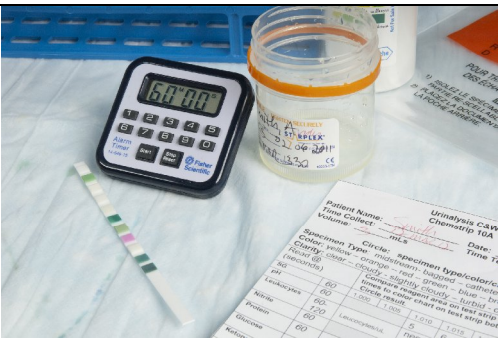
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	ACTION	Related Documents Title Number
9.	<p>Obtain Urine Test Strip Vial – Chemstrip 10A.</p> <ul style="list-style-type: none"> • Check vial for expiry date. • Remove urine test strip from vial. • Immediately replace the cap for a tight seal. <p><i>Note: Discard the Chemstrip 10A strip vial and contents if found with cap removed.</i></p>	
10.	<p>Test the patient urine sample.</p> <ul style="list-style-type: none"> • Mix patient sample well just prior to testing. • Briefly dip the test strip in the patient urine sample for approximately one second. <p>Briefly dip the test strip in the urine sample, approximately 1 second, and gently touch the long edge of the test strip to a piece of absorbent paper to remove any excess urine.</p>	
	<ul style="list-style-type: none"> • Quickly remove the test strip and draw the edge along the rim of the test tube. 	
	<ul style="list-style-type: none"> • Gently touch the long edge of the test strip to a piece of absorbent paper towel or pad 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, test pads facing up, onto paper towel or pad. • Set timer for 60 seconds for test pads to develop. 	

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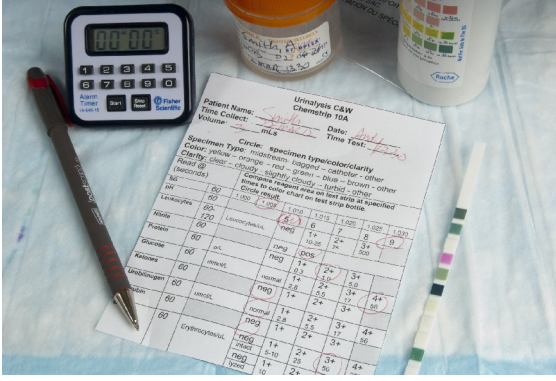
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		ACTION							Related Documents Title Number
11.	<p>Patient Urine Sample Results.</p> <ul style="list-style-type: none"> ○ Hold container upright and test strip vertically. ○ Compare each test pad to the corresponding row of color blocks on the bottle label. 								
		Compare reagent area on test strip at specified times to color chart on test strip bottle. Circle result.							
Read @ (seconds)									
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	
Bilirubin	60			neg	1+	2+	3+		
Blood	60	Erythrocytes/uL		neg	1+ 5-10	2+ 25	3+ 50	4+ 250	
				intact					
				neg	1+ 10	2+ 25	3+ 50	4+ 250	
				lyzed					
12.	<p>Record Patient Urine results onto Result Form C</p> <ul style="list-style-type: none"> ● Attach to patient chart and transcribe to Doctors record. 								

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13.	Review Patient Urine Results		
	<i>If follow up testing:</i>	<i>Then</i>	
	Indicated	<ul style="list-style-type: none"> • follow up with physician to confirm the need for further testing in urine or blood. • Record any further testing ordered on the patient chart. • Retrieve saved aliquot of urine for dispatch to the appropriate laboratory department if further testing is done in the urine. 	
	Not indicated	Record on patient chart.	
14.	Dispose of urine test strip in appropriate waste as per established procedure.		
15.	Discard any residual urine 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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