

OREGON DEPARTMENT OF CORRECTIONS
Operations Division
Health Services Section Policy and Procedure #P-D-04.9

SUBJECT: URINALYSIS BY CHEMSTRIP

POLICY: Chemstrip-9 is used for rapid measurement of glucose, pH, protein, acetone, urobilinogen, bilirubin, leukocyte esterase, and occult blood in urine.

REFERENCE: NCCHC Standard P-D-04, Diagnostic Services

PROCEDURE:

A. Assemble the following equipment:

Chemstrip-9 testing strips
Urine specimen cups
Gloves (must be worn with all contact with body fluid)
Towelets

B. Provide the patient with a pre-labeled urine specimen cup with the patient's name and SID number.

1. If the patient is male, request that he wash his hands. Then ask that he urinate in the toilet, stop, and then provide a urine specimen in the cup without allowing any part of his body to touch the inside of the cup.
2. If the patient is female, request that the patient wipe front to back using a towelet provided to her. Then ask that she urinate in the toilet, stop, and then provide a urine specimen in the cup without allowing any part of her body to touch the inside of the cup.

C. The urine should be tested as soon as possible after collection. If testing cannot be performed within an hour after collection, the specimen should be refrigerated, returned to room temperature, and mixed thoroughly before testing.

D. With gloved hand briefly (no longer than 1 second) dip test strip into the urine. Make sure all reagent pads are totally immersed.

E. Remove excess urine by drawing the edge of the strip along the rim of the container.

Urinalysis by Chemstrip

- F. For convenience all values of the strip can be read at one minute after immersion in the urine. Color changes that occur after two minutes after immersion are not of value. Color changes that occur only at the edges of the test area should be disregarded.
- G. Results are obtained by direct visual comparison with the color scale printed on the vial label.
- H. Record results (recording form attached).
- I. In the event that any of the tests on Chemstrip-9 show positive, the specimen should be sent to the laboratory to confirm the accuracy of the information provided by Chemstrip-9.
- J. Chemstrip-9 are provided by Health Services Medical Stores.

Effective Date: _____
Review date: October 2008
Supersedes P&P dated: August 2008

OREGON DEPARTMENT OF CORRECTIONS URINALYSIS TEST STRIP

Specific Gravity – 60 seconds

1.000	1.005	1.010	1.015	1.020	1.025	1.030
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pH – immediate

5	6	7	8	9
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Leukocytes – 60/120 seconds

Neg	Trace	+	++
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Nitrite
30 sec.

Neg.

Pos.

(Any pink color is considered positive)

Protein – 30/40 sec.

Neg	Trace	+ 30 mg	++ 100 mg	+++ 500 mg DL
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Glucose – 60 sec.

Normal	1/20 g/dL	1/10 g/dL	¼ g/dL	½ g/dL	1 g/dL
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Ketones – 60 sec.

Neg	+ Small	++ Medium	+++ Large
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Urobilinogen – 10/30 sec

Normal	1 mg/dl	4 mg/dl	8 mg/dl	12 mg/dl
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Bilirubin – 30/60 sec

Neg	+	++	+++
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Blood – 30/60 sec

Neg	About 5-10 ery/ut	About ery/ut	About 250 ery/ut
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Hemoglobin

About 10 ery/ut	About 50 ery/ut	About 250 ery/ut
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Lot No. _____ Expiration Date: _____

Completed by: _____

Date: _____

Name _____

SID# _____

DOB _____