

### Urinary Catheter Urinalysis with Reflex to Culture

Effective Date: May 2, 2017

**Rationale:** A reflex testing algorithm has been implemented at the Grosse Pointe, Royal Oak and Troy Microbiology Laboratories for **inpatients** with indwelling urinary catheters. The purpose is to reduce the unnecessary identification and treatment of asymptomatic catheter-associated bacteriuria, curtail medical costs and reduce the catheter-associated urinary tract infection rate of our healthcare system. This algorithm has the full support of the Departments of Infectious Diseases, Infection Control and Prevention, and Patient Safety and Quality. Once the pilot program is complete, this will likely be expanded to Farmington Hills and Founding Oakwood Hospitals.

**Testing Summary:**

**Test Name:** Urinary Catheter Urinalysis with Reflex to Culture.

**Test Codes:** EPIC: LAB7083 SOFT: CATUA

**Process:** When ordering this new test, the traditional urinalysis or urine culture, EPIC will query the patient's chart to ensure that the correct test is being ordered. EPIC best practice alerts have been designed to prompt the user to order the appropriate test for each patient. Exceptions to ordering this new test include: age < 18 years, neutropenia, pending urologic procedure, pregnancy and transplant patients.

**Collection:** Once this test is ordered, two collection labels will print. The label with "UA Conical Tube" will be placed on the yellow-top UA specimen. The label with "Ur Gray CS" will be placed on the grey-top boric acid preservative tube. Send both tubes to the laboratory and they will be forwarded to the Chemistry and Microbiology departments, respectively. Select criteria will be used to reflexively perform the urine microscopic examination and culture as follows:

**Microscopic examination** will only be performed when the color is not yellow, the specimen is not clear or an abnormal result is obtained on the "dipstick" for glucose, bilirubin, ketone, blood, protein, nitrite or leukocyte esterase.

**Urine Culture** will only be performed if the microscopic examination demonstrates >10 WBC's (per hpf) and <50 epithelial cells (per lpf).

If you have questions, please contact Client Services (1-800-551-0488, option 5).

Laboratory Test Directory: <http://beaumontlaboratory.com/test-lab-directory>.

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**Date submitted:** April 20, 2017

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**Beaumont Laboratory**

Customer Service

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