

# **Covenant HealthCare Laboratory**

## **IMPORTANT LAB UPDATE**

### **Change In The Reporting Of Urine Microscopic Sediment**

The Urinalysis Department at Covenant HealthCare will be instituting automated urine sediment analysis utilizing the UF-100i Urine Cell Analyzer effective June 4, 2007.

The UF-100i analyzes urinary elements by flow cytometry and impedance detection. The DNA and membranes in the formed elements found in urine are stained by fluorescent dyes. The sample is then passed through a laser and direct measurements are taken and analyzed by multi-parametric algorithms. The result is the identification and quantitation of: RBCs, WBCs, epithelial cells, hyaline casts, and bacteria.

The UF-100i also utilizes instrument and user defined flagging to identify specimens requiring review, such as the presence of yeast, crystals, pathological cast, and children under 2 months of age requiring testing for reducing sugars.

*All reference ranges for the urine sediment will remain the same. The UF-100i will report whole numbers for RBCs, WBCs, Epithelial cells, and Hyaline cast. When a microscopic is performed manually, numeric ranges as in past, will be reported.*

Any questions regarding this change please contact Daniel Warner, Core Laboratory Coordinator, 583-6746, or Dr. Nicholas Hruby, Pathologist, 583-6703.

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