

### **HEMATOLOGY – SEMEN ANALYSIS**

Effective December 1, 2017 the following reference limits for Semen Analysis testing will be updated on the report. These values will reflect the most current reference limits utilized by the World Health Organization (WHO- 5<sup>th</sup> Edition).

Progressive Initial Motility will be updated from >69% to >40%.

Semen Count will be updated from >19 x10<sup>6</sup>/mL to >15 x10<sup>6</sup>/mL.

Normal Spermatozoa will be updated from >14% (Strict Kruger) to >3% (WHO 5<sup>th</sup> Edition). Reference limits and thresholds of 3-5% normal spermatozoa have been found in studies of in-vitro fertilization (Coetzee et al., 1998), intrauterine insemination (Van Waart et al., 2001) and in-vivo fertilization (Van der Merwe et al., 2005).

Please note that test results below the reference limit are not an absolute indication of decreased fertility or infertility.

#### **Reference:**

1. The World Health Organization Laboratory Manual for the Examination and Processing of Human Semen. Fifth edition. Cambridge University Press, 2010

### **LINCOLN – SEMEN, FRUCTOSE (#793)**

Effective December 1, 2017 semen fructose testing will only be performed at the client's request. The test will no longer be ordered automatically when there is an absence of spermatozoa seen during Semen Analysis testing.

### **HEMATOLOGY – POST VASECTOMY**

Effective December 1, 2017 the laboratory techniques for performing Post-Vasectomy testing will be updated to reflect the American Urological Association Guidelines.

The sample will no longer be concentrated by centrifugation. Data suggests that centrifugation leads to the identification of more men with small numbers of sperm. This means that correspondingly fewer men are reported with azoospermia, leading to increased follow-up testing and more repeat vasectomies, some of which may not be necessary.

If no spermatozoa are present in the sample the following statement will appear on the report:

No Spermatozoa Present on Unspun Sample.

If spermatozoa are present in the sample a Semen Count (spermatozoa/mL) and Motility (%) will be performed and reported.

If the sample shows >100,000 non-motile sperm/mL or any motile sperm, then further monitoring or a repeat vasectomy may need to be considered.

#### **Normal Reference Limits:**

No Spermatozoa Present on Unspun Sample.

Count – ≤100,000 Spermatozoa/mL

Motility – 100% Non-Motile

#### **Reference:**

1. Sharlip, I.D. et al. Vasectomy: American Urological Association guideline. J. Urol. 188. 2012.

## TEST UPDATES EFFECTIVE DECEMBER 1, 2017

### DEACTIVATED TESTS

- 7929 5-HIAA, Urine Random  
Refer to #809 5-HIAA, Urine (24 Hour or Random)
- 7930 Cadmium, Urine Random  
Refer to #8124 Cadmium, Urine (24 Hour or Random)
- 9076 Carotene, Fractionated  
No Replacement Test
- 5231 Drugs of Abuse Panel 10 + Alcohol, Serum  
Refer to #5230 Drug Screen 9 Panel with Reflex to Confirmation/Quant
- 1736 Hemoglobinopathy (HGB)/Thalassemia Screen  
Refer to #8568 Hemoglobin Electrophoresis Cascade
- 7934 Oxalate, Urine Random  
Refer to #776 Oxalate, Urine 24 Hour
- 665 Parietal Cell Antibody IgA, IgG, IgM  
Refer to #8594 Gastric Parietal Cell Antibody IgG
- 9702 PNH Panel  
No Replacement Test
- 7928 Troponin I, Serum  
Refer to #1565 Troponin I \*\* Serum Not Acceptable ~ Must Submit Heparinized Plasma \*\*
- 7935 VMA, Urine Random  
Refer to #815 VMA, Urine (24 Hour or Random)

### NEW SPECIMEN REQUIREMENTS, CPT CODES, METHODOLOGY & PRICE CHANGES CONTINUED.....

- 9781 ANCA Panel (MPO/PR3)  
New CPT Codes 83516x2, 86255 (Add 86256 if reflexed)  
New Client Price
- 9323 Aspergillus Galactomannan Antigen, Serum  
New Client Price
- 7885 Beta-2 Glycoprotein 1, IgG & IgM  
New Client Price
- 9273 Bordetella pertussis Culture  
New Client Price
- 8124 Cadmium, Urine  
New CPT Code 82300
- 792 Caffeine, Serum  
New Client Price
- 914 Ceruloplasmin  
Methodology Change from Nephelometry to Quantitative Immunoturbidimetry.  
New Reference Ranges:   6 months – 6 years           18-37 mg/dL  
  7 – 17 years                           20-43 mg/dL  
  18 years and older               17-54 mg/dL
- 9751 Chlamydia trachomatis Culture  
New CPT Code 87110, 87140
- 7610 CMV Quantitative by PCR  
New Client Price

NEW SPECIMEN REQUIREMENTS, CPT CODES, METHODOLOGY & PRICE CHANGES CONTINUED.....

- 9391 Calprotectin, Fecal  
BCBS Nebraska Now Requires Preauthorization for Testing  
Must Submit Preauthorization or Signed ABN with the order
- 1409 Coenzyme Q10, Total  
New Client Price
- 519 Cryptococcus Antigen  
Test Name Change to Cryptococcus Antigen, Serum.  
Refer to #859 Cryptococcus Antigen, CSF for spinal fluid samples.
- 357 Dilantin (Phenytoin) Total with Reflex to Free  
Dilantin, Free & Total  
New CPT Codes 80185, 80186  
New Client Price
- 8382 Enterovirus by PCR  
New Client Price
- 2322 Estrone  
New Client Price
- 428 Factor IX Activity  
New Client Price
- 9099 Factor XI Activity  
New Client Price
- 9383 Gamma-Hydroxybutyric Acid (GHB), Urine  
New Client Price
- 7492 Glutamic Acid Decarboxylase Antibody  
New Client Price
- 9744 Hemochromatosis (HFE) 3 Mutations  
New Client Price
- 764 Immunoglobulin G Subclasses  
New Client Price
- 8120 Inflammatory Bowel Disease Panel  
New CPT Codes 86671x2, 86255  
New Client Price
- 9311 JAK2 (V617F) Mutation, Qualitative  
New Client Price
- 7406 Jo-1 Antibody, IgG  
New Client Price
- 528 Lupus Anticoagulant Screen (Reflexive)  
New CPT Codes 85610, 85730, 85613 (If Reflexed Additional Charges Apply)
- 1526 NTX (N-Telopeptide Cross-Linked), Urine  
Methodology Change from EIA, Colorimetric to Quantitative Chemiluminescent Immunoassay.  
New CPT Code 82523
- 1754 Pancreatic Elastase, Fecal  
New CPT Code 83520  
New Client Price
- 941 Protein S Free, Antigen  
New Client Price

NEW SPECIMEN REQUIREMENTS, CPT CODES, METHODOLOGY & PRICE CHANGES CONTINUED.....

- 1728 Quetiapine (Seroquel)  
New Client Price
- 7567 Reticulin Antibodies  
New Client Price
- 7469 Saccharomyces cerevisiae IgG & IgA Antibodies  
New Client Price
- 431 Specific Gravity, Fluid  
Methodology Change from Colorimetric to Refractometry  
New Client Price
- 8388 Sperm Antibodies, IgA and IgG  
New Client Price
- 288 Stone Analysis with Photo  
New CPT Code 82365 Only (Gross Exam 88300 No Longer Performed)
- 1767 Streptococcus pneumoniae Antigen, Urine  
New Client Price
- 1565 Troponin I  
Serum Samples Not Acceptable \*\*Must Submit Heparinized Plasma\*\*
- 815 VMA, Urine  
New CPT Code 84585
- 9247 Von Willebrand Panel  
New Client Price