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**LAB ALERT – NEW TEST****NOTIFICATION DATE: 1/8/2014****EFFECTIVE DATE: 1/21/2014****SEX HORMONE BINDING GLOBULIN****NEW TEST CODE:** SHBGLO**INTERFACE CODE:** 1004501**OLD TEST CODES TO BE DEACTIVATED:** SHBG**OLD INTERFACE CODE TO BE DEACTIVATED:** 1000853**METHODOLOGY:** Chemiluminescent microparticle immunoassay (CMIA)

**CLINICAL UTILITY:** Plasma SHBG concentrations are affected by a number of different diseases. Elevated levels are observed in patients with hyperthyroidism, hypogonadism, androgen insensitivity and hepatic cirrhosis in men. Low levels are observed in patients with myxoedema, hyperprolactinaemia and syndromes of excessive androgen activity. Measurement of SHBG is useful in the evaluation of mild disorders of androgen metabolism and also enables identification of those women with hirsutism who are more likely to respond to estrogen therapy.

**Note:**

For diagnostic purposes, the SHBG assay results should be used in conjunction with other data; e.g. symptoms, results of other tests and clinical impressions etc. and if required additional testing should be performed to confirm the result.

High protein concentration on plasma specimens interferes with this SHBG assay.

**PERFORMED:** Sunday – Saturday

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<b>COLLECTION:</b>	Serum separator tube (gold top preferred), green top plasma separator tube (lithium heparin), plain red top tube, sodium heparin tube (no gel), or lavender top (EDTA).  <b>Unacceptable:</b> Na-Fluoride/K-Oxalate and Na-Citrate plasma tubes. <i>Specimens with the following conditions:</i> <i>Heat-inactivated</i> <i>Pooled</i> <i>Grossly hemolyzed</i> <i>Obvious microbial contamination</i> <i>Cadaveric specimens and any other body fluids.</i>
<b>SPECIMEN PREPARATION:</b>	Centrifuge the serum or plasma separator tube and transport; if plain red top, sodium heparin green top, or lavender top, centrifuge and aliquot serum or plasma (Min. 0.4 mL) into a standard transport tube.
<b>STABILITY (FROM COLLECTION TO INITIATION OF TESTING):</b>	After separation from cells: Ambient: 24 hours; Refrigerated (2 – 8°C): 8 days; Frozen: (-20°C): 3 months, Only 1 freeze/thaw cycle acceptable.
<b>TRANSPORT:</b>	<b>Refrigerated.</b>
<b>REFERENCE RANGE:</b>	Males: 11.2 – 78.1 nmol/L  Females: 11.7 – 137.2 nmol/L
<b>RESULTS REPORTED:</b>	1 day
<b>CPT CODE(S):</b>	84270
<b>PERFORMING LAB:</b>	med fusion
<b>ORDER/CONTACT INFORMATION:</b>	ClearPoint Client Services: 972-966-7700/Fax: 972-966-7799 Thomas P. Lohmann: 972-966-7135



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