

SEX HORMONE BINDING GLOBULIN (SHBG), SERUM
Marquette General Health System

General Info

HLAB/HOL Code	SHBG
MGH LIS Test No	687
Schedule	Monday and Thursday
Testing Time	1 day
Testing Lab	Marquette General Hospital
QORR Test Code	SHBG

Specimen Info

Type	
Volume	
Temperature	Refrigerated or Frozen
Preservative	
Collection Info	Draw blood in either a plain, red-top tube or an SST tube. Spin down and send 0.5 mL of serum frozen in plastic vial on dry ice. Specimen is stable for 7 days at refrigerated temperature or up to 2 months frozen.

Specimen Acceptability

Methods

Immunoassay

Clinical Utilities

CPT Codes

84270

Reference Range

Adults

Males: 10-57 nmol/L

Non-pregnant females: 18-144 nmol/L

Children (from Elmlinger)

Males

Tanner Stage	Mean Age	Reference Range (nmol/L)
Stage I*:	7.1	28-150
Stage II:	11.5	44-160
Stage III:	13.6	5.5-163
Stage IV:	15.1	13-88
Stage V:	18.0	10-60

*Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for boys at a median age of 11.5 (+/-2) years. Tanner stage 5 (young adult) should be reached by age 18.

Females

Tanner Stage	Mean Age	Reference Range (nmol/L)
Stage I*:	7.1	39-176
Stage II:	10.5	7.2-107
Stage III:	11.6	28-171
Stage IV:	12.3	28-149
Stage V:	14.5	20-130

*Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for girls at a median age of 10.5 (+/-2) years. There is evidence that it may occur up to 1 year earlier in obese girls and in African-American girls. Progression through Tanner stages is variable. Tanner stage 5 (young adult) should be reached by age 18.