



^aFree testosterone testing is preferred in individuals with conditions that alter SHBG concentrations. The following conditions are associated with **decreased SHBG levels**: diabetes mellitus, obesity, use of certain medications (ie, glucocorticoids, progestins, or androgenic steroids), hypothyroidism, nephrotic syndrome, acromegaly, and variants in the *SHBG* gene. The following conditions are associated with **increased SHBG levels**: HIV, aging, hyperthyroidism, cirrhosis/hepatitis, use of certain medications (ie, anticonvulsants or estrogens), and variants in the *SHBG* gene.

^bFor testosterone test options, see the [Testosterone Tests Comparison](#) table.

Abbreviations	
LH	Luteinizing hormone
FSH	Follicle-stimulating hormone
SHBG	Sex hormone-binding globulin

Reference
 Bhasin S, Brito JP, Cunningham GR, et al. Testosterone therapy in men with hypogonadism: an Endocrine Society clinical practice guideline. *J Clin Endocrinol Metab.* 2018;103(5):1715-1744.