



Male Hormones



sample type: **SALIVA**

Male Hormones is a noninvasive salivary assessment of the daily circadian activity of bioavailable testosterone. This profile provides insights into a wide range of disorders, from reduced libido and muscle mass to cardiovascular disease and osteoporosis.

With advancing age, testicular function often declines and levels of free, bioavailable testosterone plummet. By the time a man reaches age 50, his bioavailable levels of testosterone may be half their youthful levels. The primary cause of this decline appears to be chronic deterioration of Ledydig cells in the testes, but the decrease is also influenced by altered hypothalamic-pituitary-gonadal axis activity and age-induced changes in concentrations of sex-hormone binding globulin (SHBG).

Testosterone powerfully influences:

- Emotional well-being
- Sexual function
- Muscle mass and strength
- Cardiovascular health
- Bone integrity
- Cognitive ability

Because of testosterone’s synergistic impact on immune, metabolic and inflammatory functions in the body, imbalances in the hormone may be found in a diverse array of health disorders, ranging from:

- Rheumatoid arthritis
- Heart disease
- Insulin resistance
- AIDS
- Obesity
- Osteoporosis
- Prostate cancer

Clinical symptoms of male andropause are often subtle, allowing chronic androgen deficiency to go undetected.

Clinical Significance:

Genova Diagnostics’ **Male Hormones** offers a circadian analysis of testosterone secretion, utilizing four saliva samples collected at morning, noon, afternoon and evening. Unlike total serum measurement of testosterone, which typically reflects both bound and unbound hormone, salivary assessment has the advantage of reflecting only the unbound, bioavailable fraction of hormone.

For a complete analysis of the synergistic interplay between the various steroid hormones, the **Male Hormones Plus** includes circadian analyses of **cortisol** and **melatonin**, and an assay of **DHEA**. Besides being a precursor of testosterone, DHEA appears to play a key role in allowing testosterone to initiate its physiological responses throughout the body.

- **Analytes:**
testosterone
- **Specimen Requirements:**
4 saliva samples (3ml) collected over a 24-hour period
- **Before Taking this Test:**
 - Avoid caffeine, alcohol, and nicotine on day of test
 - Do not eat, brush or floss teeth, use mouthwash, or chew gum (1 hour before)
 - Wash hands before collection
 - See instructions inside test kit for details

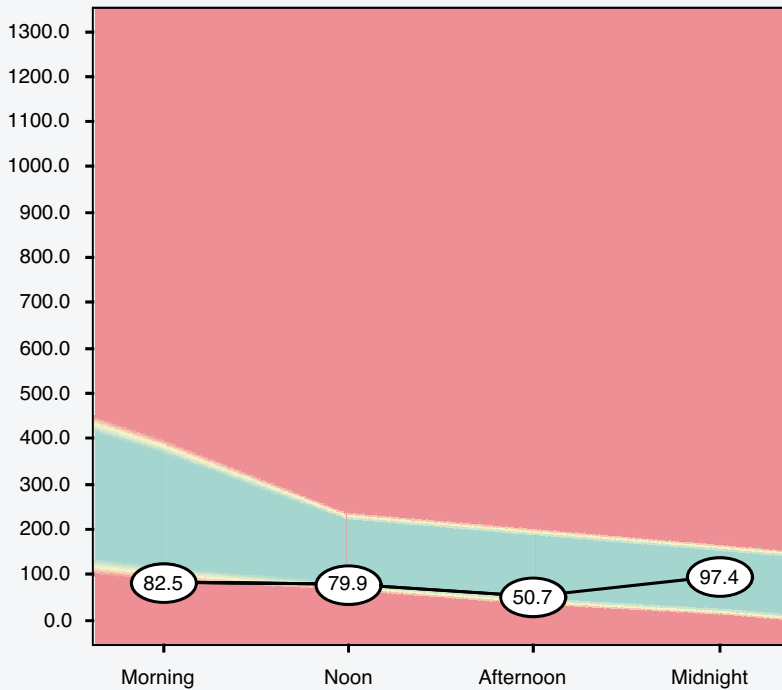


63 Zillicoa Street
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Patient: **SAMPLE PATIENT** Order Number:
Completed:
Age: Received:
Sex: Collected:
MRN:

SAMPLE REPORT

Salivary Testosterone



Reference Range
 Morning: 100.0-370.0 pmol/L
 Noon: 65.0-225.0 pmol/L
 Afternoon: 40.0-200.0 pmol/L
 Midnight: 33.0-190.0 pmol/L

This test has been developed and its performance characteristics determined by GSDL, Inc. It has not been cleared or approved by the U.S. Food and Drug Administration.

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This test reveals important information about:

- **Bioavailable testosterone imbalances** linked to a range of conditions, including sexual dysfunction, depression, fatigue, heart disease, and osteoporosis.
- **Circadian rhythm of testosterone** with evaluation of four easily gathered saliva samples over a 24-hour period

For test kits, clinical support, or more information contact:

Client Services
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More detailed publications with references are also available: www.GDX.net