THE TRUTH ABOUT
TESTOSTERONE TREATMENTS

You’ve seen the ads. You’ve heard the hype. But testosterone supplements aren’t
the anti-aging cure-alls that they’re marketed as. The use of doctor-prescribed
testosterone replacement therapy, however, is safe and can be effective for men
who are diagnosed with consistently abnormal low testosterone production and
symptoms that are associated with this type of androgen deficiency.

Visit hormone.org for more information.

TESTOSTERONE FACTS FOR MEN

- Low testosterone comes with age — T levels naturally decrease by 1% each year after
  age 30, though don’t severely deplete, even in advanced age
- T production may be disrupted by disorders of the testicles, pituitary gland, or brain
- T levels change from hour to hour — highest in the am; lowest at night
- T levels can temporarily lower due to too much exercise, poor nutrition, severe illness, and
  with certain medications
- Normal T levels should be between 300-1,000 ng/dL (nanograms per deciliter),
  depending on age and lab used
- Testosterone must be measured more than once for accurate assessment

TESTOSTERONE THERAPY IS ONLY
RECOMMENDED FOR HYPOGONADISM PATIENTS

Boosting testosterone is NOT approved by the US Food and Drug Administration (FDA) to help
improve your strength, athletic performance, physical appearance, or to treat or prevent problems
associated with aging. Using testosterone for these purposes may be harmful to your health.

Men with HYPOGONADISM are prescribed testosterone treatment to raise levels to the middle
of the normal range, in turn addressing related symptoms of androgen deficiency.

MALE HYPOGONADISM = a combination of low testosterone levels and the presence
of any of these symptoms:

- Drop in sex drive (libido)
- Erectile dysfunction (ED — inability
to get or keep an erection) and loss
  of spontaneous erections
- Lowered sperm count and infertility
  (inability to have children)
- Breast enlargement or tenderness
- Reduced energy
- Increased irritability, inability to
  concentrate, and depressed mood
- Hot flashes (when testosterone
  levels are very low)

You should not receive testosterone therapy if you have:

- Prostate or breast cancer (or suspected)
- Enlarged prostate causing difficulty
  with urination
- High number of red blood cells
- Uncontrolled heart failure
- Untreated sleep apnea (obstructed
  breathing during sleep)
THERE ARE RISKS TO TESTOSTERONE THERAPY

- Elevated red blood cell count
- Acne
- Sleep apnea
- Possible prostate and/or breast enlargement

There is no firm scientific evidence that long-term testosterone replacement is associated with either prostate cancer or cardiovascular events.

The FDA requires that patients are made aware that the possibility of cardiovascular events may exist during treatment.

Prostate cells are stimulated by testosterone, so be extra vigilant about cancer screenings.

African American men over age 45 — especially those with family history of cancer — are already at risk for prostate cancer.

THERE ARE VARIOUS METHODS OF TESTOSTERONE THERAPY

Method of treatment depends on the cause of low testosterone, the patient’s preferences, cost, tolerance, and concern about fertility.

- **Injections**: self or doctor administered in a muscle every 1-2 weeks; administered at a clinic every 10 weeks for longer-acting. Side effects: uncomfortable, fluctuating symptoms.
- **Gels/Solutions**: apply to upper arm, shoulder, inner thigh, armpit. Side effects: may transfer to others via skin contact — must wait to absorb completely into skin.
- **Patches**: adhere on skin every day to back, abdomen, upper arm, thigh; rotate locations to lessen skin reaction. Side effects: skin redness and rashes.
- **Buccal Tablets**: sticky pill applied to gums 2x a day, absorbs quickly into bloodstream through gums. Side effects: gum irritation.
- **Pellets**: implanted under skin surgically every 3-6 months for consistent and long-term dosages. Side effects: pellet coming out through skin, site infection/bleeding (rare), dose decreasing over time and hypogonadism symptoms possibly returning towards the end of dose period.
- **Nasal Gel**: applied by pump into each nostril 3x a day. Side effects: nasal irritation or congestion.

YOUR DOCTOR SHOULD BE YOUR PARTNER IN CARE

If you are concerned about your testosterone levels and interested in learning more about ways to manage hypogonadism, an endocrinologist can help.

Visit “Find an Endocrinologist” at hormone.org.

TESTOSTERONE THERAPY IS SAFE

Therapy must be done correctly and it must be monitored regularly. And only FDA-approved hormones should be used.

You have questions. We have answers.

The Hormone Health Network is your trusted source for endocrine patient education. Our free, online resources are available at hormone.org.

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