



of hypogonadism for weeks or months. Many lose a lot of the muscle mass they gained through their cycle of anabolics plus testosterone. In some cases a specific medical protocol is required for HPTA normalization. If you go to bodybuilding sites, you will see Clomid and HCG mentioned a lot for this purpose.

There are no controlled data from studies using any protocols to accelerate the normalization of normal testosterone production in men who have used either supplemented physiologic (normal) or supraphysiologic (above normal) doses of testosterone for long periods.

For men who had normal testosterone before starting testosterone or anabolic steroids (athletes, bodybuilders or certain people with wasting syndrome) and who want or need to stop those compounds, some physicians have attempted to jump-start testicular testosterone production using a combination of products that have different effects on the HPTA and estrogen receptors. One such physician is Dr. Michael Scally from Houston (read the interview with him: [Click here](#) ) who presented a poster at the Lipodystrophy and Adverse Reactions in HIV conference in San Diego in 2002 that reported the use of a protocol to normalize testosterone production in HIV-positive patients after prolonged anabolic steroid and testosterone use for their wasting syndrome.

The protocol consisted of the use of HCG, clomiphene citrate, and tamoxifen (read about each of these products in their respective sections). Treatment takes place at two discrete intervals. The first treatment interval is to initiate the restoration of gonadal function. The second interval is to restore the hormonal pathways among the hypothalamus, the pituitary and the gonads. The medications are initiated simultaneously after cessation of androgens when it is expected that the body would try to start to slowly make its testosterone. If the testosterone ester (cypionate, enanthate, undecanoate, Sustanon) that the patient used is known (the most common one in the United States is depo testosterone or testosterone cypionate), its half-life in the body can be estimated so that the date to begin the medical protocol can be predicted with some accuracy to assess a time when no pharmaceutical testosterone remains in the body.

#### **The protocol for HPTA normalization contains (edited on Dec 2017):**

##### **First 15 days:**

**HCG 1,000-2,000 IU (subcutaneous) every 3 days;**

**Clomiphene citrate 25-50 mg orally once a day; and**

**Tamoxifen 20 mg orally once a day.**

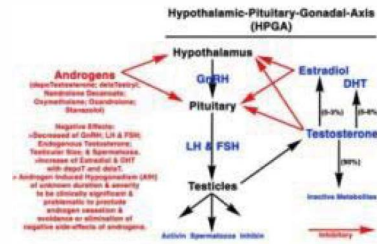
**A satisfactory testosterone level on day 15, typically 350 ng/mL or greater, is followed by the oral medications (no HCG) for an additional 15 days (25 mg per day clomiphene would be sufficient).**

This protocol has not been tested in many patients but has shown good results in restoring HPTA in a month. I know that this sounds like a long time but without treatment the body's restoration process would take about the same length of time that somebody was using androgens. In some, HPGA function and testosterone production never returns to normal. Hopefully we will see data on approaches like this one used in patients who need to stop testosterone or anabolics after long-term use. However, no such studies are listed in [clinicaltrials.gov](#).

Most doctors will refuse to prescribe the protocol above since they are not familiar with it. But remember that this protocol will likely not help most men who had low testosterone before starting TRT anyway. It is more likely to be helpful to those who used testosterone and anabolics for muscle building purposes and who were not hypogonadal before starting their muscle building cycles.

These are two diagrams that show how our hypothalamic-pituitary-Testicular Axis interconnects and how regulation of testosterone production happens via a feedback loop that takes into consideration the amount of testosterone and estradiol that we have in our blood.





This is an abstract of a report of a few patients who used Dr Michael Scally's HPTA protocol. We presented this at a conference.