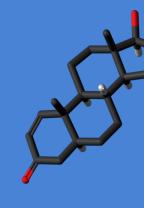
Testosterone Myths, Facts, and More



What Are The Real Impacts?





High Testosterone Levels Are Only Natural For Men

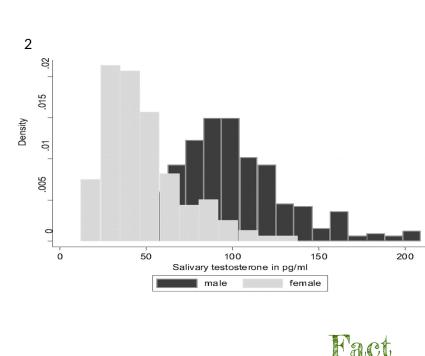




It Impacts Men: - Muscle Size/Strength - Sperm Production - Sex Drive Women:

- Ovarian Function - Bone Strength - Sexual Behavior





There is an overlapping range of natural testosterone levels for Men and Women

Testosterone is an Important Hormone for Both Men

and Women Women Can Naturally Have High Tesosterone

Levels, Sometimes Even More Than Men



Castrate an



Sapolsky Study



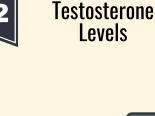
Alter

Individual



Testicles

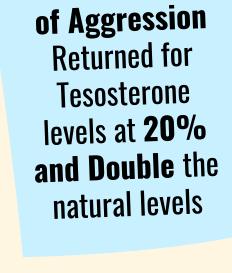
Remove the





Individual





The Same Level

Results



differences in Tesosterone levels do not predict differences in aggressive behavior

O Tesosterone - Aggression 4x Tesosterone - Aggression 🛖

Important Notes



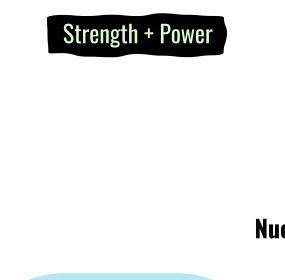
"It's not causing aggression, it's exaggerating the preexisting pattern of it"
- Sapolsky Fact

of Testosterone. Thus, it Cannot be Attributed to **Changes in Aggression**



Tesosterone Will Make You More Competitive

Testosterone Links



Details

Trained 7 weeks without

steroids

Trained 4 weeks being told they were on steroids

(actually placebo)



Results

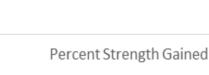
Combined total of 22

Pounds

Combined total of 100

Pounds

Testosterone Links



16.00%

14.00% 12.00%

10.00%

8.00% 6.00%

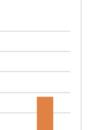
4.00%

2.00%

0.00%

Squat





Conclusion: The placebo effect

clearly increases your

strength gains from

training when you

simply think you are

on steroids

Fact Context and Specificity are Important in Understanding the Effects of Tesosterone on Performance Psychology Plays a Major Role in the Strength Gains Often Attributed to Steroids Such as Testosterone

■ First 7 ■ Last 4



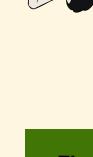


Myth

Tesosterone Will Not Have Any Side Effects

Infertility **Mood Changes**

Fact



women

Seizure







Addiction

While Testosterone can be linked to increased athletic performances in certain cases, the relationship between the two is much more complicated

Testosterone is no joke, there are many severe side effects that can accompany it

Testosterone is an important hormone that has overlapping natural levels in men and It can exaggerate already present levels of aggression, but not cause it Context, specificity, and pyschological consideration are key to identifying Testosterone's real impacts on athletic performance

- ² Sapienza, Paola, Luigi Zingales, and Dario Maestripieri. "Gender differences in financial risk aversion and career choices are affected by testosterone." Proceedings of the National Academy of Sciences 106.36 (2009): 15268-15273.
 - ³Sapolsky, Robert M. The trouble with testosterone: And other essays on the biology of the human predicament. Simon and Schuster, 1998.

¹ https://www.health.harvard.edu/drugs-and-medications/testosterone--what-it-does-and-doesnt-do

- ⁴Jordan-Young, Rebecca M., and Katrina Karkazis. Testosterone. Harvard University Press, 2019.
 - ⁵ https://www.strongerbyscience.com/the-science-of-steroids/ ⁶ https://www.uofmhealth.org/health-library/d00558a1