

Testosterone SHBG, DHEA, and Sexual Function



Testosterone, or male sex hormone plays a key role in for its effect on male sexual health and is essential in producing erections. Testosterone also stimulates metabolism, promote fat burning, build muscle, enhance the mood, and is increase energy in both men and women.

As a man ages, the Leydig cells that secrete testosterone begin to wear away. Because of this, between the ages of 40 and 70, the average man loses nearly 60% of the testosterone inside of his body! Other lifestyle factors, such as overtraining, stress and alcohol, can also hasten the deterioration of Leydig cells, and cause testosterone levels to drastically decline.

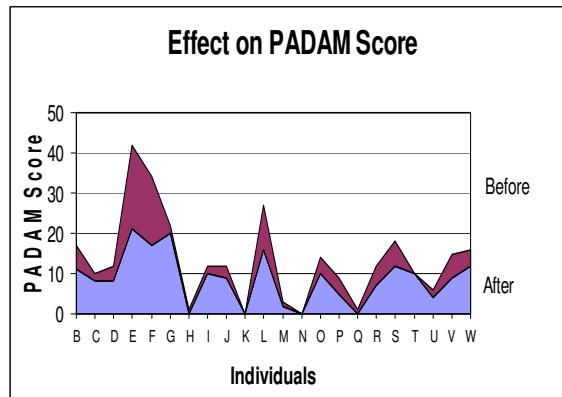
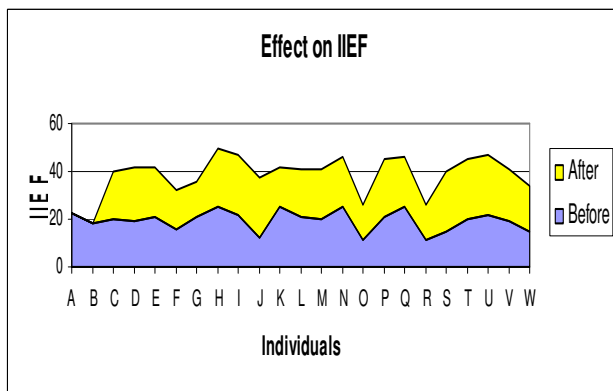
SHBG. By the time a men turn 60, only about 2% of testosterone is free and 98% of testosterone is bound by Sex Hormone Binding Globulin (SHBG). SHBG makes testosterone inactive by binding it to fat cells. When testosterone is bound, it becomes unable for use in the body. Free testosterone is responsible for providing the body with energy, mood, and enhancing sex drive. Normal men should have 800 in free testosterone. Men with <350 in free testosterone will experience erectile dysfunction. Low Bioavailable Testosterone can lead to low sex drive, emotional, psychological and behavioral changes.

DHEA. According to a study published in the New England Journal of Medicine, German researchers found that after four months of DHEA supplementation, volunteers showed improvement in psychological well-being, increased sexual desire and more sexual satisfaction.

How LJ100 can help with Testosterone, DHEA, and SHBG?

In a double blind, randomized, placebo controlled human clinical study conducted at the National Population and Family Development Board of Malaysia, 7 male patients between the age of 31 to 52 were given 100mg of LJ100® while 7 were on placebo for 3 weeks. Testosterone, DHEA, and SHBG level were evaluated. Volunteers were asked to fill out two questionnaires: (1) Sexual Health Inventory Questionnaire and (2) the PADAM Score Questionnaire.

Sexual Health Inventory Questionnaire showed 62% of the cases having an increased or maximum score showing increased sexual desire and sexual attempts. PADAM score demonstrated that 82% of the cases showed improvement in total score suggesting improvement sexual desire, erection, and psychological well being.



DHEA LEVELS INCREASE

At One Week	26%
At Three Week	47%

Analysis of DHEA showed gradual increase in the level from 26% after 1 week to 47% after 3 weeks.

SHBG ANALYSIS

	Increase	Decrease	No Change
At 1 week interval	52%	36%	12%
At 3 week interval	27%	66%	7%

SHBG analysis showed reduction in 36% of the patients after one week, and 66% after 3 weeks. When SHBG level declines, the Free Testosterone Index (FTI) goes up. FTI analysis showed an escalation of 39% of subjects after 1 week and 73% after 3 weeks. Free Testosterone result in improved energy level, metabolism, strength, sexual stamina, and overall health.

Conclusion: LJ100 (22% Bioactive Eurypeptides) has strong potential in enhancing sexual performance and desire by providing sufficient free testosterone to the body and decrease SHBG level.

In vitro study showed LJ100 to increase testosterone level up to 440% in human testicular cells!

Animal	Increase %
Mice	479%
Rat	380%
Rabbit	320%
*Human testicular homogenate (<i>in vitro</i>)	440%

cGMP, cAMP, PDE5 Inhibitor, and Erectile Dysfunction

What is erectile dysfunction?

ED is a common health problem and affects about 30 million men in the US. ED occurs when there is a lack of blood flow to the penis. This means that a man can have trouble getting and keeping an erection long enough to have sex. It may happen only once in awhile, or more often.

Causes of erectile dysfunction (ED)

- Heart disease
- High blood pressure
- High cholesterol
- Diabetes
- Prostate problems
- Depression
- Stress
- Smoking & alcohol
- Certain medication

Erection---Mechanism

Sexual Stimulus → release of nitrous oxide from nor-adrenergic nerve ends → increase in cyclic guanosine monophosphate (cGMP) → relaxation of tubercular smooth muscles → erection

Viagra, Cialis, and Levitra are Phosphodiesterase-5 (PDE5) inhibitor that inhibits the breakdown of cGMP. cGMP causes relaxation in the penile muscle leading to increase blood flow to the penile tissue. Likewise, increase in cyclic adenosine monophosphate (cAMP) level also stimulates the relaxation phase on the smooth muscle cells, which ultimately causes penile erection.

LJ100 Increases cGMP and cAMP production

In an in vitro study conducted at the University Kebangsaan Malaysia, the effectiveness of LJ100 was compared to sildenafil citrate (viagra) in triggering penile erection. Rabbit Corpus cavernosum tissues were treated with LJ100 (22% Bioactive Eurypeptides) or sildenafil citrate at different concentrations and incubation time. cGMP and cAMP level were measured using an enzyme-linked immunoassay (EIA) kit. Both LJ100 and sildenafil citrate increase cGMP production, suggesting that LJ100 may have the same the mechanism of action as sildenafil. On the other hand, only LJ100 increases cAMP production, a phenomenon not observed in Sildenafil. The study confirmed the aphrodisiac effects of LJ100.



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Pheromones and Sexual Communication

Pheromones are a naturally occurring chemical compound found in all humans, insects, and animals. When pheromones are secreted they dictate sexual behavior and attract sexual desire. Pheromones are natural scents, which play an important role in sexual communication, psychology, and sexual behavior in both human and animals. An α , an β , and andien β , belong to the 16-androstenes steroid family, also known as pheromones. Besides being a precursor to most other hormones in our body, pregnenolone is also a precursor to pheromone.

LJ100, Pregnenolone, and Pheromones

Research conducted at Massachusetts Institute of Technology showed that the bioactive Eurypeptides in LJ100[®] significantly increase the production of essential enzymes that is responsible for converting pregnenolone to various hormones such as progesterone, cortisol, DHEA, and testosterone.

Steroid Extract	Blank	Control	LJ100 (2)	LJ100 (3)
an- α	22.57	32.7	109.99	207.26
testosterone 180% increase	0.98	1.68	2.43	2.37
progesterone 190% increase	3.36	6.39	12.30	13.20

Besides increasing testosterone, progesterone, and DHEA level, the production of pheromone an alpha is also significantly increase. Apart of being the major precursor for most hormones, pregnenolone is also the precursor for the synthesis of pheromones. An α plays an important role in communication, psychological and sexual behavior both in human and animals. In fact, the testosterone and progesterone level tapered off even when we continue to increase the dosage, confirming that LJ100 is not a steroid. However, the production of an alpha pheromone continues to rise when we increase the LJ100 dosage. This study confirmed the aphrodisiac property of LJ100 showing that Eurypeptides in LJ100 is not only capable in increasing the various hormones production, but at the same time it also increases the synthesis of pheromones that is responsible for sexual desire, behavior, and communication.