

ALPHASTAT®

*THE ONLY DIETARY SUPPLEMENT
SHOWN TO LOWER SERUM DHT
LEVELS*

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ALPHASTAT®

Specific Properties:

- α Patented 5α-Reductase Inhibitor
- α Anti-inflammatory
- α Patent Pending Aromatase Inhibitor
- α Inhibits Growth of Human Prostatic Carcinoma Cells.

Proof:

- α Pre-Clinical Studies
- α Pilot Clinical Trial Test

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Alphastat® Inhibits 5 α -Reductase In Vitro

5 α -reductase Inhibition Assay 50 mcg/mL.

Test Compound	5 α -Reductase Inhibition	Standard Deviation
ALPHASTAT®	43%	1.4%
*Saw Palmetto LE	35%	2.6%

*Approximately 200 mg dose equivalent
Alphastat® 20% more inhibition than saw palmetto.

**Possible Use, to Decrease
Dihydrotestosterone Levels for use in:**

- α Benign Prostate Hyperplasia (BPH).
- α Androgenetic Alopecia.
- α Adult Acne.

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Alphastat® Inhibits Pro-inflammatory Enzymes In Vitro

Anti-Inflammatory/Prostaglandin Inhibition Assay

Test Compound	Inhibition
ALPHASTAT®	39%
Drug Control Standard: Indomethacin (Indocin)	42%

Possible Use in:

α Acute and Chronic Inflammation
as a COX Inhibitor.

α BPH Inflammation.

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Aromatase Inhibition

Human Aromatase (CYP19)

	Conc. µg/mL	% Inhibition
<i>Haematococcus</i> algae extract	250	98
<i>Haematococcus</i> algae extract	66.4	IC50

Possible Use; Aromatase Inhibitor:

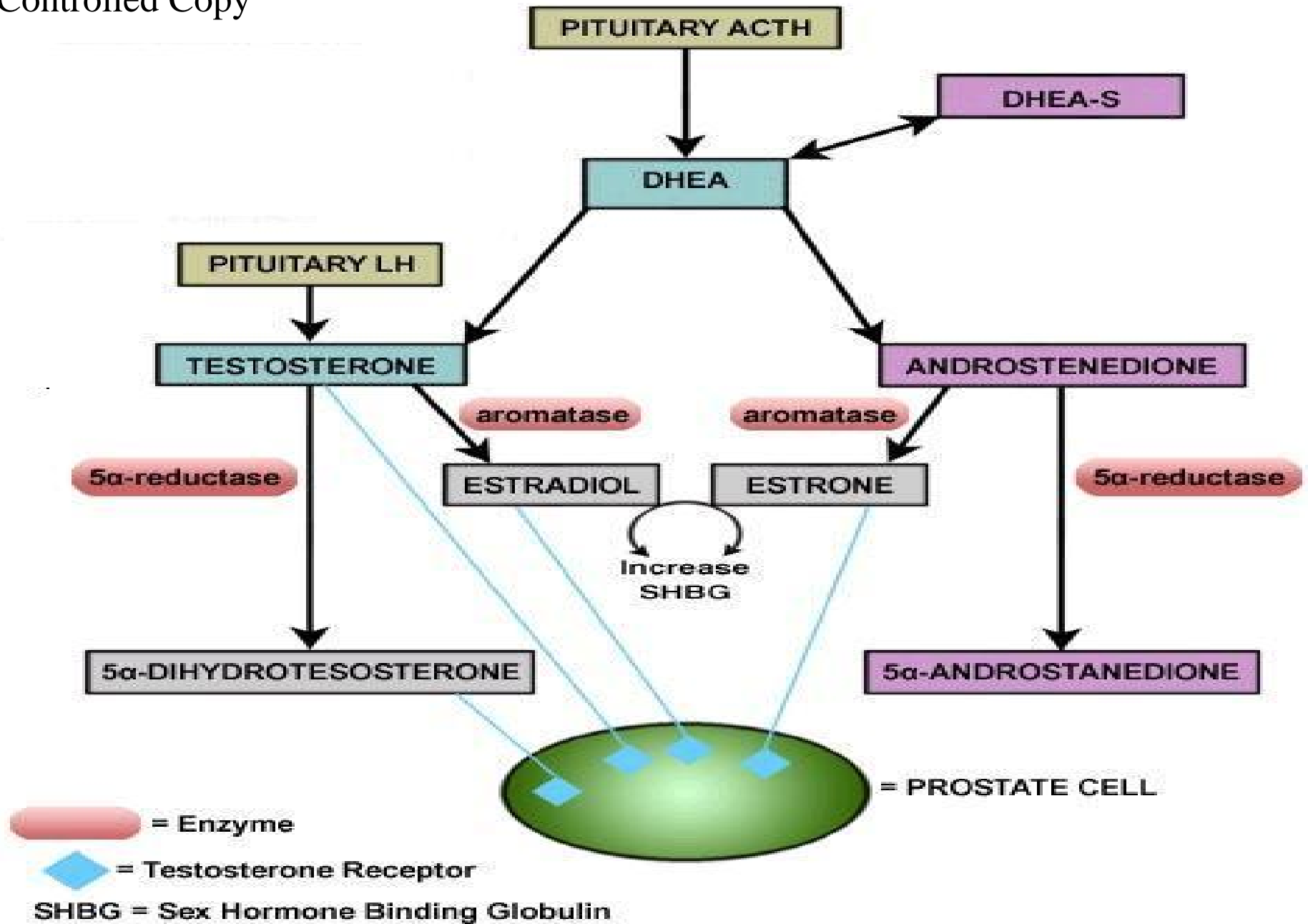
- α Increase Testosterone Levels
- α Decrease Estradiol Levels
- α Androgen Dependent Prostate Carcinoma

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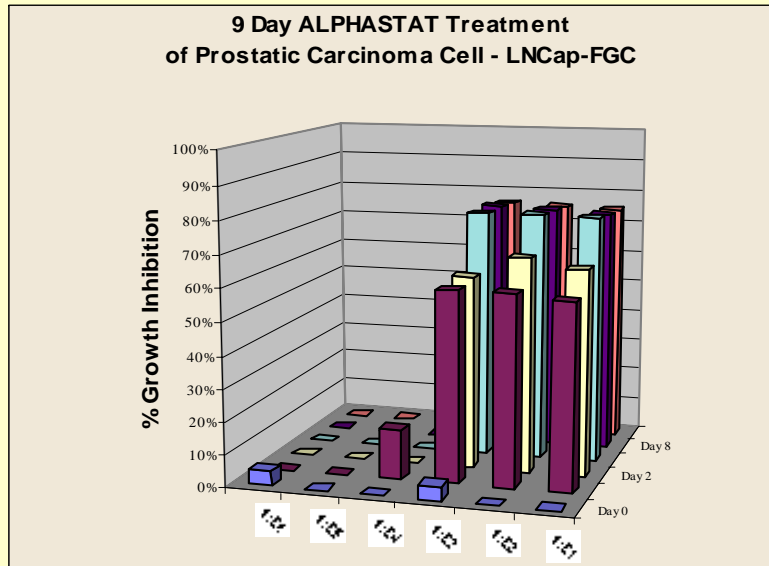
MALE HORMONE PATHWAYS

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Alphastat® Inhibits Growth of Prostatic Carcinoma Cell Line LNCaP-FGC

Prostate cancer is the most frequently diagnosed cancer in the United States, and proves fatal for some 40,000 men each year. At present, there's no proven way to prevent the disease. Out of 52 patients with high PSA on Proscar for one year, 23% in treatment group developed tumors, 4% in placebo group. USC/Norris Cancer Center 1998



Possible Use; Anti-Carcinogenic Support To:

- α Decrease Size of Prostate Tumor.
- α Decrease Possibility of Prostatic Carcinoma.
- α Active at ng/mL level

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ALPHASTAT®

Patented 5 α -Reductase Inhibitor

α Anti-inflammatory

α Patent Pending Aromatase Inhibitor

α Inhibits Growth of Prostatic Carcinoma
Cell Line LNCap-FGC.

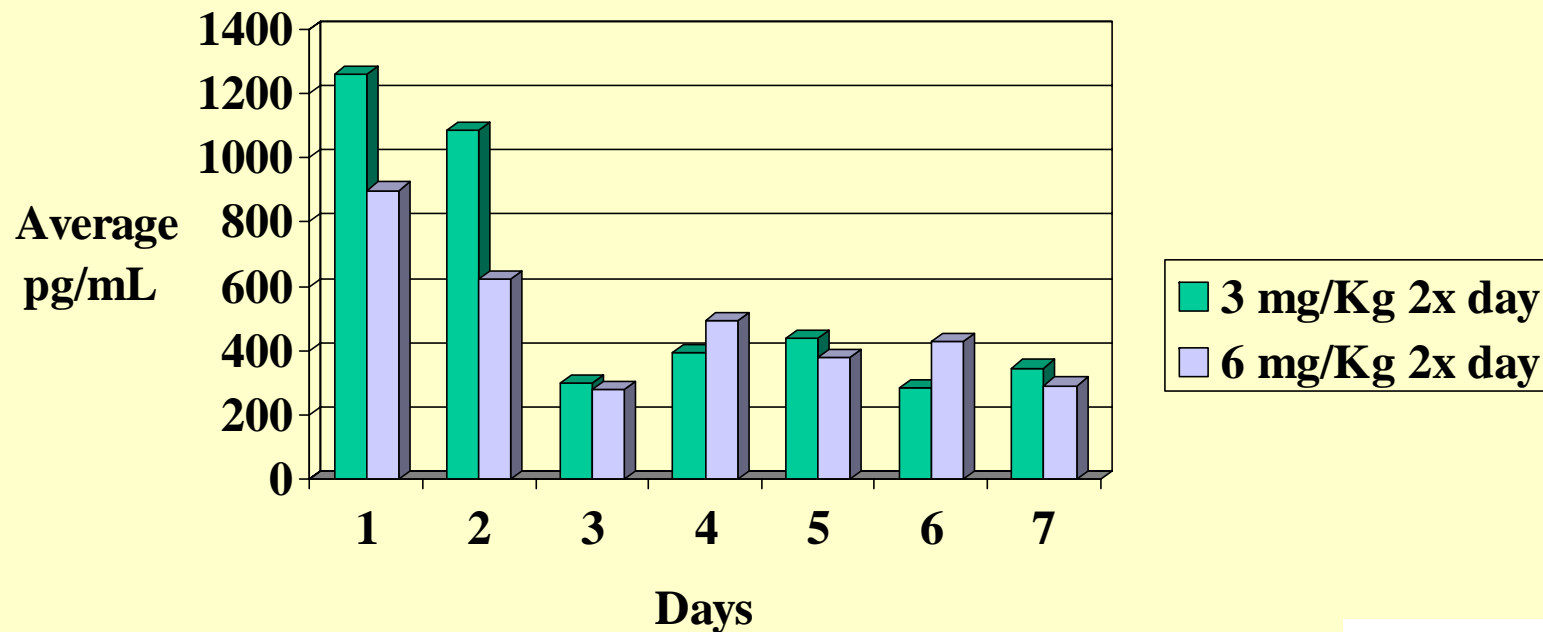
α **Does it work in vivo ?**

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Alphastat® Rat Multiple Dose Study

DHT Blood Levels



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Alphastat® Clinical Summary

Study Design

- α Open Label
- α Healthy males screened by a urologist
- α Ages 55 - 68
- α BMI 22.8 0 - 30.1
- α No co-morbid disease including BPH and cancer
- α Able to tolerate active product

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Alphastat® Clinical Summary

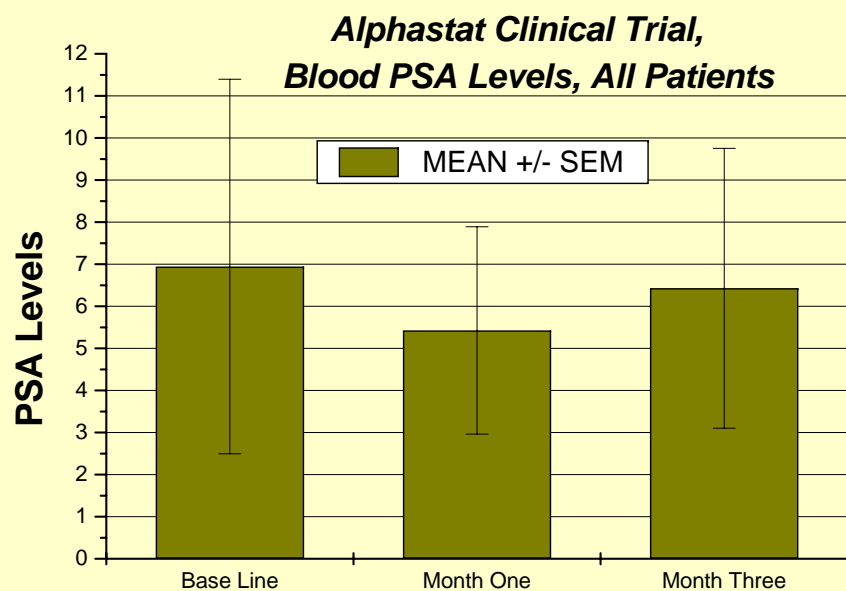
Study Design

- α PSA levels above 3.0
- α Baseline PSA Levels: 3.01 - 13.6 ng/mL (≤ 4)
- α Baseline DHT Levels: 198 - 779 pg/mL (150-980)
- α Dose 2 x 200mg TID
- α Blood drawn at base line, month 1 and month 3

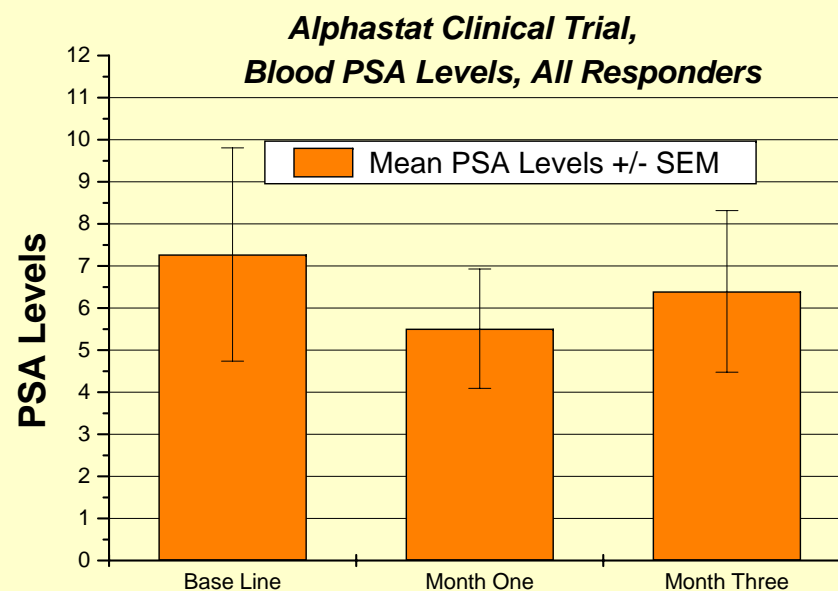
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Alphastat® Clinical Trial PSA Blood Levels.



13.9% Average Decrease

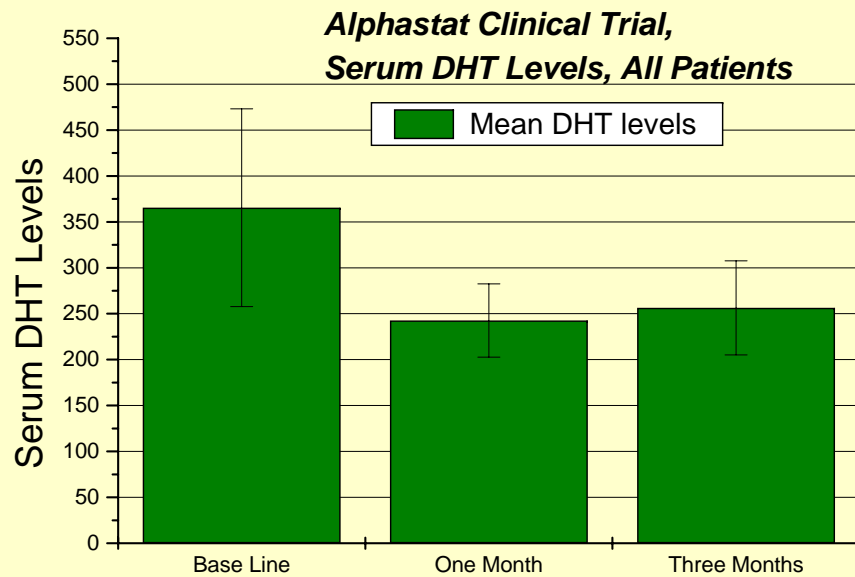


19.8% Average Decrease
in 3 of 5 Responders

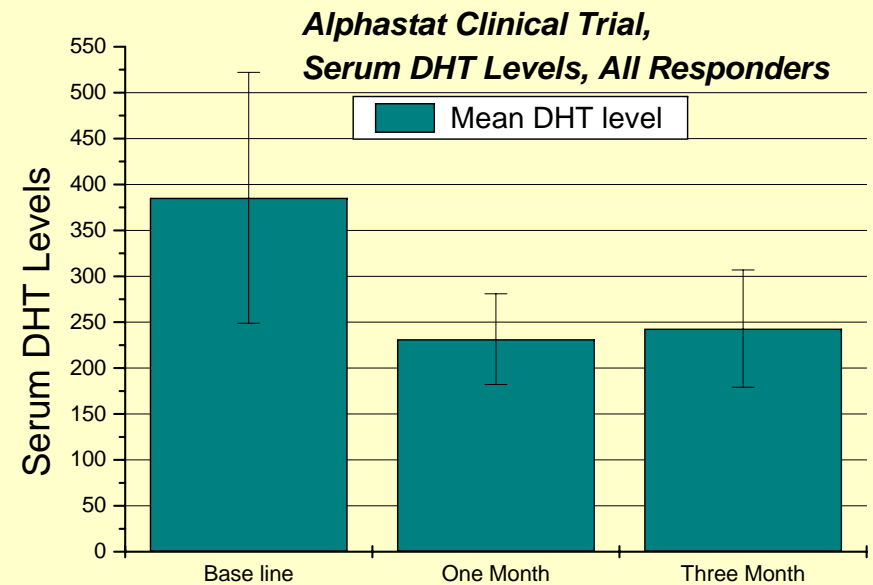
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Alphastat® Clinical Trial Average DHT Blood Levels.



34.3% Average Decrease



45% Average Decrease
in 4 of 5 Responders.

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Alphastat® Clinical Results

Quality of Life Parameters

- No compliance problems with the product.
- 60% had improved urinary symptoms including nocturia, stream, void volume and urgency.
- 40% had significant improvement in sexual performance parameters including erectile dysfunction.

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Alphastat® Product Summary

- Patented 5- α reductase inhibitor
- Anti-inflammatory
- Inhibits Growth of Prostatic Carcinoma Cell Line LNCap-FGC
- Inhibits Aromatase
- Lowered Serum DHT
- No compliance problems
- Improved urinary symptoms.
- Improved sexual performance.

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Alphastat® Potential Market Summary

α BPH and Symptoms

- Prostatitis
- Urgency
- Nocturia

α Hair re-growth (androgenetic alopecia)

- Men
- Women

α Acne – Oral and Dermal

α Maintain Levels of Testosterone??

α Prostate Cancer Prevention??

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ALPHASTAT®

Thank You!

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