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**Randomized Study of Oral Spray GF  
in Patients Between 35 to 85 Years of Age**

**Growth Factor (GF) Sublingual Spray**

# **Chrysalis**

**Phase II Clinical Trial**

**CLINICALLY PROVEN RESULTS**

**2000 ng/ml Plant-Based Polymer Matrix Oral Spray Growth Factor (GF)**

# CHRYSALIS

## Phase II Clinical Trial Study Highlights

### OBJECTIVE of STUDY:

- a. Evaluate effectiveness of 2000 ng/ml plant-based polymer matrix oral spray GF
- b. Assess IGF-1, Triglyceride, HDL and LDL levels over 6 months
- c. Assess liver and kidney enzymes over 6 months

### PROTOCOL OUTLINE:

- a. 6-month randomized, double blind, clinical study
- b. Sponsored by Dr. Robert Lawrence & Dr. Babak Parisaa, Bushard Medical Group, Los Angeles, CA
- c. 200 patients: 112 females, 88 males, 35 to 80 years of age, average to fair health
- d. No unusual dietary restrictions 3 months prior to test
- e. No active autoimmune, inflammatory or infectious disease 6 months prior to test

### DOSAGE:

- 3 sprays in the morning (equaling 2000 ng of GF) within one hour of awakening
- 3 sprays in the evening immediately before retiring
- 7 days per week for 6 consecutive months

## KEY FINDINGS:

### IGF 1

*Patients using the Chrysalis GF Plant-Based Polymer Matrix Oral Spray showed significant increase in IGF 1 level from baseline:*

### IGF 1 Testing (figures shown in ng/ml)

<u>Patients</u>	<u>Avg Age</u>	<u>Baseline</u>	<u>Days after Baseline</u>			<u>% Change</u>
			<u>30</u>	<u>60</u>	<u>180</u>	
Female	51	114	150	176	232	+102
Male	48	135	176	210	284	+109

## HDL Levels

*Patients using the Chrysalis GF Plant-Based Polymer Matrix Oral Spray showed significant increase in HDL levels from baseline:*

### HDL Levels (figures shown in mg/dl)

Patients	Avg Age	Baseline	Days after Baseline			% Change
			30	60	180	
Female	51	36	42	49	53	+47
Male	48	28	34	48	56	+93

## LDL Levels

*Patients using the Chrysalis GF Plant-Based Polymer Matrix Oral Spray showed significant decrease in LDL levels from baseline:*

### LDL Levels (figures shown in mg/dl)

Patients	Avg Age	Baseline	Days after Baseline			% Change
			30	60	180	
Female	51	172	169	154	137	-20
Male	48	161	152	141	124	-23

## Triglycerides

*Patients using the Chrysalis GF Plant-Based Polymer Matrix Oral Spray showed significant decrease in triglycerides from baseline:*

### Triglycerides (figures shown in mg/dl)

Patients	Avg Age	Baseline	Days after Baseline			% Change
			30	60	180	
Female	51	201	166	144	121	-40.
Male	48	182	152	133	119	-35

## **Liver & Kidney Enzymes**

- Measured at baseline, 30, 60 and 180 days
- Both placebo and test group indicated normal values throughout testing period with no notable fluctuation
- PHT was also measured at each testing; remained normal in both placebo and test group at each measurement

## **Additional Notations**

- Patients receiving the GF showed notable increases in
  - Mental stability
  - Muscle accretion
  - Weight reduction
  - Higher energy
  - Elevated libido
  - Epidermis rejuvenation
  - Reacquired hair color and density
- No adverse side effects were noted in either placebo or test groups
- 194 of the original 200 patients successfully completed the 6-month study

## **CONCLUSIONS**

- Dosage of 2000 ng/ml of GF in a plant-based polymer matrix encapsulation is an effective method for promoting the rejuvenation of cellular tissues when used sublingually in an oral application
- Test group subjects showed significant improvements in serum levels of IGF 1 and HDL
- Test group subjects showed significant decreases in serum levels of LDL and triglycerides
- Test subjects showed no negative serum readings in liver or kidney enzymes
- Test subjects reported no negative side effects