

## Findings on ED through the "Pollen Extract G63" of Graminex Company

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Pollen Extract, containing a rich source of nutrition (amino acids, minerals, and vitamins), represents the emergence of the next generation of plant substances that should not be overlooked and is a substance with hidden action not yet fully understood. The Clinic established the first Prostrate Center in Japan and focuses treatment fields such as urology. Naturally, on many occasions we receive requests to provide consultation with regard to ED since most of our patients are male. The main causes of impairment of Hepatic function are mostly nervous stress and hyperlipidaemia. The causes of these problems can be improved; it can be conjectured, through better blood circulation by an antioxidant effect and by the structural repair effect of amino acids. Our report this time studied the effect of Pollen extract as a supplement to improve ED.

### [Objective and Method]

At the Clinic, 15 subjects which visited the Clinic from 1 month to 3 months for ED therapy were administered pollen extract G63. The IIEF5 (International Erectile Function Score) was recorded and the before and after therapy effectiveness was determined. However, the 2 subjects which stopped coming to the Clinic after 1 month were eliminated from the effectiveness determination.

The pollen extract G63 used in the trial was produced by Graminex Company in Ohio, USA from the pollen of raw materials such as rye, corn, and timothy hay (referred to as Phlegm pratense in Japan) which were cultivated without using agrochemicals or genetically modified varieties. (However, a slight amount of pollen as weeds from timothy (referred to as Phleum pratense in Japan) was also included.) The pollen which has a double hull is not digested or absorbed even when ingested since it has strong resistance to acid and heat (cannot be destroyed even at 300 deg C). The Graminex Company using a special technology is able to separately extract G60 (water soluble nutrition component) and GFX (lipid soluble component) and we received the product G63 which is a 20:1 combination of G60 and GFX.

The dosage was 6 tablets per day; three tablets each after breakfast and dinner. One 250 mg tablet contains 62.5 mg of pollen extract. (The daily quantity .... 375mg as pollen extract)

### [Results]

Name	Age	Interview Day	IIEF-5	complications	Patient Conversation
1. I_K	60	Before	2	D.M	This never occurred before, but morning ED occurred 1 time. Stool became soft
		After 1 month	2		
T_Y	47	Before	12		The hardness and angle of morning erection was clearly different. There was an effect after administration for 1 week.
		After 1 month	25		
S_A	73	Before	6		Hardness was increased. Erection caused by sexual arousal.
		After 1 month	10		
O_N	74	Before	9	By-pass Surgery	Erection achieved only 1 time in 7 prior to administration, became 4 times in 5 after administration.
		After 1 month	20		
I_T	62	Before	8		Morning erections increased. Improving somewhat. Morning erections increased.
		After 1 month	11		
		After 5 months	13		
		After 5 months	15		

S_I	68	Before	5	Diabetes Concomitant with RACHIKAGORUDO (Sea snake extract) Symptoms improved
		After 1 month	21	
S_A	60	Before	5	Improving a little.
		After 1 month	7	
I_T 65		Before	12	Morning erections increased. Have an impression that it is somewhat improved. Question 2) 3 2 5) 3 1
		After 1 month	9	
T_T	50	Before	13	Stool became soft. Bowl movement 2~3 times on some days.
		After 1 month	13	
MH	74	Before	15	Morning erections started after 10 ~14 days Score unchanged since there was no intercourse.
		After 1 month	15	
_K_A	47	4.25	9	Improved greatly but not quite there yet.
		5.25	15	
_N_S	66	Before	2	
		After 1 month	4	
_T_M	63	Before	15	Urination also improved.
		After 1 month	19	

### [Results]

The score improved for 9 patients (69.2%), no change for 3 patients (23.1%), and 1 patient (7.7%) worsened. The score dropped for the 1 medical case that worsened, while morning erections increased.

### [Discussion]

Over 90% of ED is caused by nervous stress, hyperlipidaemia, impairment of liver function, and physical fatigue. It can be considered that the strength of erections increased from the effect of antioxidant substances, amino acids, and micro quantities of metal atoms contained in pollen extract which promote improved blood flow, adjustment of the autonomic nerves, recovery from fatigue, repair of damaged hepatocytes, and breakdown of female hormones in the liver.

### [Safety]

During the Study, one subject developed diarrhea and there was one that developed soft stool, but administration did not have to be stopped for any of the patients in particular for complaints of worsening physical condition.

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