

**two products
for human reproduction**



catalysis

SPERMOC

revitalizes sperm

increases semen volume

"... semen volume
and the number of motile spermatozoa
decrease by 0.03 ml and 5% respectively per year of age..."

(University of California, USA, 2003)

increases sperm concentration and motility

"... it is known that the better semen quality is, the higher are the chances of fertility.

One of the most important parameters
is the number of motile spermatozoa in semen..."

(Dr. Gastón Rey Valzacchi, President of the Argentine Society of Andrology, Argentina, 2004)

improves sexual desire and satisfaction

"... according to international statistics,
12 - 15% of the couples in urban populations
have difficulties to conceive.

Among the causes of infertility, between 25 - 40%
are attributed to the male factor..."

has a positive effect on infertility caused by varicocele

"... the powerful antioxidants that it contains
reduce the oxidative stress that is produced in the varicoceles,
which causes infertility..."

(Effects of varicocele on male fertility. Hum Reprod Update 2001)

**high efficacy in the treatment
of oligoasthenospermia,
hypospermia, teratospermia,
post-chemotherapy...**



OTREND

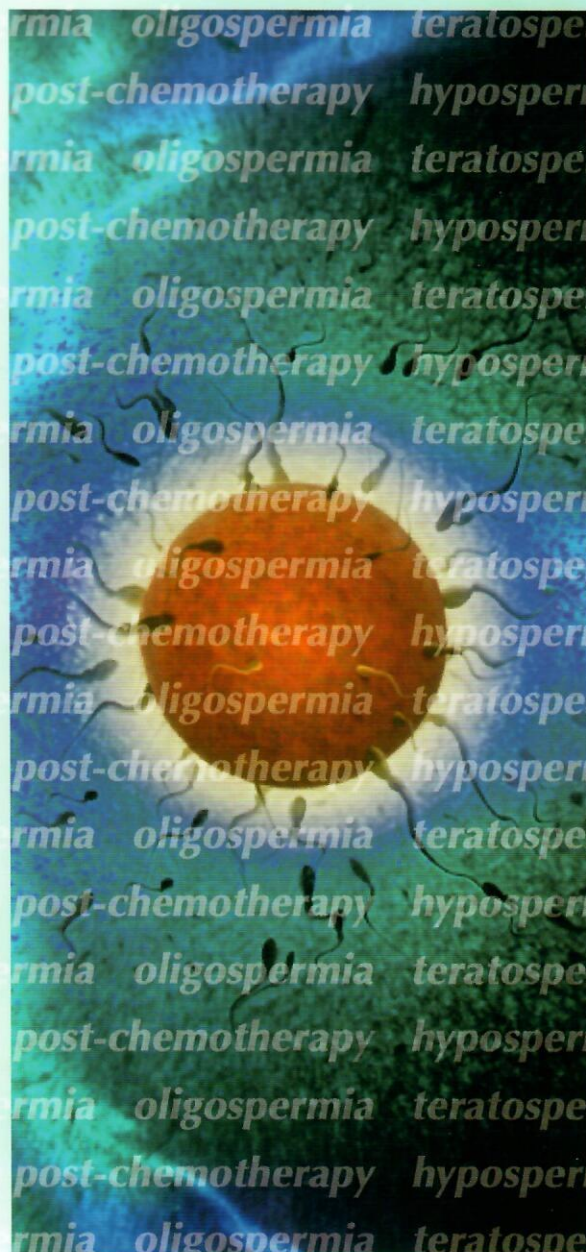
in a natural way

Oxidative stress plays an important role in male reproductive capacity and is associated with the deterioration of sperm quality. ^(1,2)

The perfect synergy between the antioxidant compounds present in the formulation of **SPERMOTREND®** produces maximum sperm revitalization in a natural way.

Outstanding among the activated ingredients of **SPERMOTREND®** are the following:

- **Fructose** is the major carbohydrate source in seminal plasma. It supplies more than half of the carbohydrates consumed by spermatozoa and is essential for sperm motility. ⁽³⁾
- **Zinc (in the form of sulphate)** is an essential mineral that plays a key role in sperm activity and in reaching optimal testosterone levels. Moreover, it is decreased in chronic prostatovesiculitis. ⁽⁴⁾
- **Vitamin B6** participates in an important way in many biochemical reactions related to amino acid and carbohydrate metabolism, nucleic acid synthesis, and others. It helps increase cholesterol HDL levels and normalize blood pressure. ⁽⁵⁾
- **Vitamin B12** is the most complex of the vitamins. It is known as an activator for the many roles it plays, basically in DNA and RNA synthesis, nervous system integrity, fatty acid biosynthesis, and energy production.
- **Folic acid** participates, together with vitamin B12, in DNA, RNA, and protein synthesis and acts as a preventive against certain neurological deficiencies. **Folic acid** supplements significantly increase sperm concentration in subfertile males. ⁽⁶⁾
- **Selenium** is an effective antioxidant. It contains GSHPx-4, which works as an antioxidant in sperm and may be responsible for maintaining proper sperm structure. Selenium supplementation in subfertile men can improve sperm motility and the chance of successful conception. ⁽⁷⁾
- **Pygeum africanum** has demonstrated a high efficacy in the treatment of benign prostatic hyperplasia relieving the symptoms associated with this disease such as nocturia, residual urine volume, and peak urine flow. ⁽⁸⁾
- **Arginine** is the precursor of nitric oxide, a natural vasodilator that has shown a marked positive effect on erectile dysfunction.
- **Vitamin E** is a powerful antioxidant that improves spermatogenesis.



**healthy sperm
increases fertility**

DIA

an effective treatment of

helps regulate the menstrual cycle

"... it keeps hormone levels balanced,
which helps periods
occur naturally..."

(Hernández-Valencia et al.)

improves acne and reduces excessive unwanted hair growth

"... acne and hirsutism
or excessive unwanted hair growth in women
is directly linked to hormonal imbalance..."

(Hernández-Valencia et al.)

lowers the risk of endometrial cancer (10,11,12)

"... patients with polycystic ovaries (Stein-Leventhal syndrome)
have a higher risk of developing
endometrial carcinoma at an early age..."

(Silvia D. Gregorini, Pablo J. Lespi, Guillermo R. Álvarez. Endometrial carcinoma associated with polycystic ovaries: presentation of two cases in women under 40 years old. Medicina - Volumen 57 - N 2, 1997)

effective against metabolic syndrome

"... it stimulates proper functioning
of pancreatic beta cells
and significantly reduces cellular insulin resistance..."

(Cabrera-Rode et al.)

**naturally regulates
carbohydrate
and lipid metabolism**



DIAMEL®

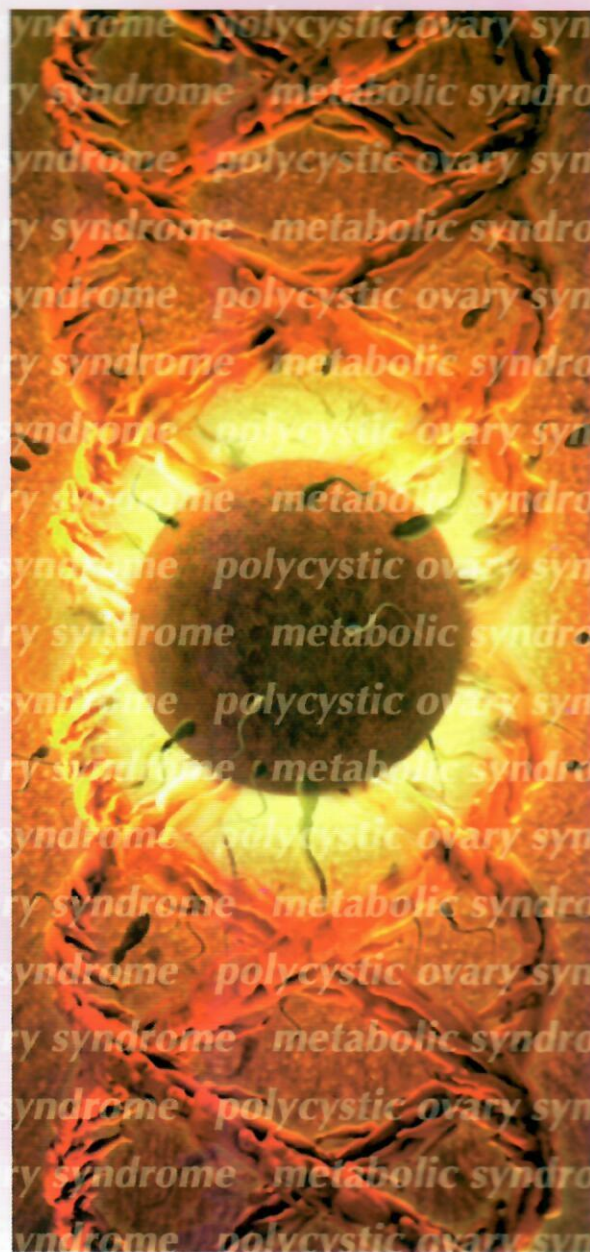
polycystic ovary syndrome

Peripheral insulin resistance leads to compensatory hyperinsulinism, which is the direct cause of the aggravating factor in ovarian steroidogenesis.

The antioxidants, the amino acids, and the trace minerals contained in DIAMEL® reduce peripheral insulin resistance by releasing the receptors and eliminating free radicals. This then naturally restores insulin metabolism in the cell.⁽⁹⁾

Among the activated components of DIAMEL® are the following:

- **L-Carnitine** turns fat into energy and helps to control the blood sugar concentration.
- **Arginine** mobilizes the fat and helps to turn it into energy. It also stimulates the secretion of insulin and helps it to work like an anabolic hormone.
- **Ornithine** also stimulates the secretion of insulin. Moreover, it helps increase arginine levels in the body.
- **Glycine** helps release glucagon. In this way it controls the hypoglycemia conventional treatments can cause. It also stimulates the secretion of insulin.
- **Calcium pantothenate** is essential to convert fat and sugar into energy.
- The **antioxidants** present in DIAMEL® are needed to stop any damage that free radicals could do to the system that controls insulin.
- **Folic acid**, the **vitamins B12, C, and B6** boost the defences and enhance the recovery processes. They have always been considered essential nutrients for anyone affected by diabetes.
- Biocatalysts such as **Zinc** favour insulin biosynthesis.
- **Potassium** regulates the metabolism because blood sugar concentration decreases this cation.
- **Magnesium** is also needed to turn sugar into energy, since it is a cofactor of many enzymes that are involved in the catabolism of glucose.
- **Lettuce extract** reduces the amount of glucose that is absorbed during the digestion process.
- **Blueberry extract** contains anthocyanosides and tannins, that improve microcirculation, as well as chromium and other trace elements. Chromium operates with insulin in sugar metabolism.

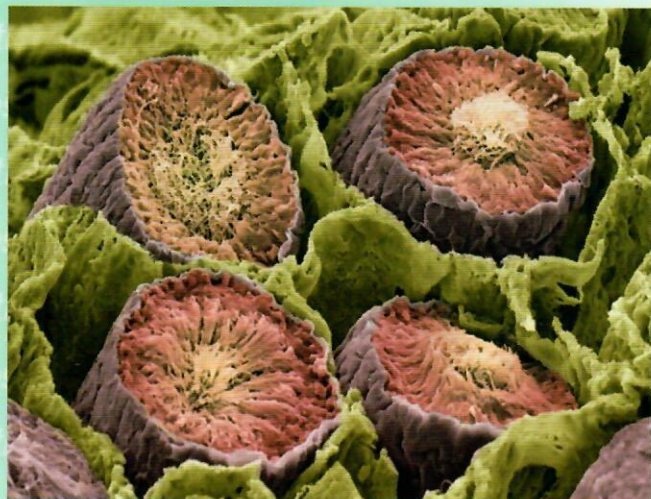


**keeps hormone levels
balanced**

SPERMOTREND

pilot report

*as a monotherapy for 1 month
administrating to the patients 25 ml every 12 hours*



In Vitro Fertilization Centre BEBE

Dr. med. BUCUR MIHAI

Specialist Doctor in Urology and Urologic Surgery

Dr. med. BUCUR CEZARA

Specialist Doctor in Obstetrics and Gynaecology

Academy of Medical Sciences

Stefan S. Nicolau Institute of Virology

Department of Sexually Transmitted Diseases

Dr. med. DRAGODAN ANDA

Specialist Doctor in Clinical Laboratory

Bucharest / ROMANIA

These clinical observations have been made in 21 patients with:

- Minimal and moderate **oligoasthenospermia**.
- Moderate **hypospermia**.
- Severe **oligoasthenospermia** and **teratospermia**.
- Post-oncological chemotherapy **teratospermia**.

SUBJECTIVE RESULTS ACCORDING TO THE PATIENTS:

- Good adherence.
- Excellent tolerance.
- Absence of side effects.
- Diuresis.
- Antidepressant and tonic effects.
- Greater sexual desire and satisfaction.
- Bigger semen volume.
- Improvement of chronic prostatitis symptoms.

OBJECTIVE RESULTS ACCORDING TO THE DOCTOR:

- Improvement of all the spermiogram parameters.
- Improvement of sperm motility in minimal and moderate asthenospermia.
- Higher sperm concentration in minimal and moderate oligospermia.
- Significant increase of volume of semen ejaculated in hypospermia.
- Better vital tone.

The final conclusion of the doctor who made the clinical observations is that **SPERMOTREND® WORKS** at a dose of **50 ml/day** administered for one month. The researchers believe that the administration of this preparation during the whole period of the sperm cycle (approximately 2 months) may improve the present results.

DIAMEL®

article published in the medical journal **GINECOLOGÍA Y OBSTETRICIA DE MÉXICO**

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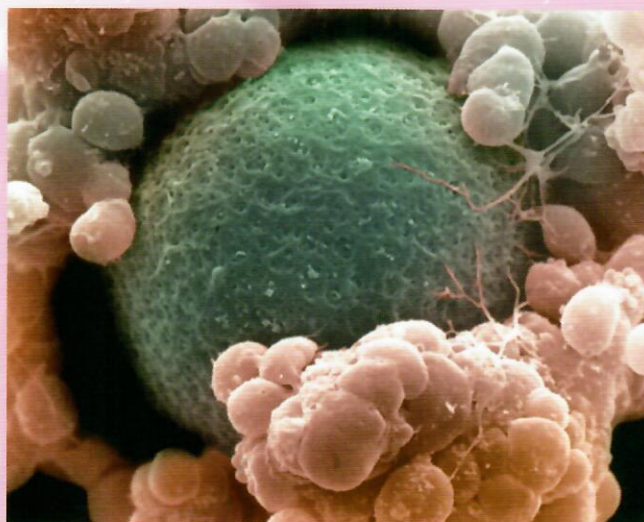
TREATING INSULIN RESISTANCE IN THE POLYCYSTIC OVARY SYNDROME

Dr. MARCELINO HERNÁNDEZ-VALENCIA
Dra. MARION HERNÁNDEZ-ROSAS
Dr. ARTURO ZÁRATE

**Unit of Medical Research
on Endocrine Diseases, Specialities Hospital.**

National Medical Centre Siglo XXI,
Mexican Social Security Institute.

Mexico, Federal District / MEXICO



ABSTRACT

The polycystic ovary syndrome (PCOS) is the main cause of anovulatory sterility. Its prevalence is almost 7%.

PCOS does not have a constant hormonal profile, which is why using approaches such as the Rotterdam criteria is necessary to diagnose it.

The proven effect of insulin on the ovary modified the concept of the specificity in the action of insulin on certain tissues: resistance to the action of insulin results in the compensatory hyperinsulinism that tries to stimulate therefore the tissues, but also worsens ovarian steroidogenesis.

There are drugs known as "insulin sensitizers" that are used to treat certain forms of diabetes mellitus which include metformin and thiazolidinediones (rosiglitazone and pioglitazone). Recently, a compound that is composed of amino acids and trace elements (**DIAMEL®**) has been used to neutralize the free radicals in the cell and restore the intracellular signals of insulin.

The long-term effect, however, might not correct the polycystic ovary syndrome as insulin resistance is associated with a higher risk of increased glucose intolerance, diabetes, dyslipidemia, atherosclerosis, and vascular disease.

Therefore, the preventive measures that are currently available should be used.

Key words: polycystic ovary syndrome, insulin resistance, insulin sensitizers.

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SPERMOTREND

increases sperm motility

AVERAGE VALUES (per capsule)

| | |
|---|----------|
| Pygeum Africanum | 100.0 mg |
| Zinc Sulfate | 20.0 mg |
| Pyridoxine | 1.0 mg |
| Folic Acid | 100.0 µg |
| Ascorbic Acid | 30.0 mg |
| Cyanocobalamin | 0.5 µg |
| Fructose | 104.0 mg |
| Sodium Selenite | 0.02 mg |
| Arginine | 50.0 mg |
| Carnitine | 40.0 mg |
| Vitamin E | 5.0 mg |
| Excipients (Microcrystalline Cellulose) | 100.0 mg |

RDA

Zinc 50%, Vitamin C 50%, Pyridoxine 50%, Cyanocobalamin 50%, Folic Acid 50%, Sodium Selenite 16%, Vitamin E 50%.

NUTRITIONAL INFORMATION

AND ENERGY VALUES (per 100 g)

| | |
|---------------|---------------------|
| Energy values | 365 Kcal (1,552 Kj) |
| Proteins | 6.4 g |
| Carbohydrates | 77.0 g |
| Fats | 3.5 g |

POSODOLOGY / ADMINISTRATION

It is recommended to take one capsule twice a day.
Do not exceed the daily recommended dose.

containers with 30 and 90 capsules
of 450 mg each



DIAMEL

reduces cellular insulin resistance

AVERAGE VALUES (per capsule)

| | |
|----------------------|---------|
| Arginine | 35.5 mg |
| Glycine | 7.1 mg |
| Fumaric Acid | 35.5 mg |
| Lettuce Extract | 152 mg |
| Ascorbic Acid | 10 mg |
| L-Carnitine | 35.5 mg |
| Ornithine | 17.7 mg |
| L-Cysteine | 14.2 mg |
| Zinc Sulphate | 6 mg |
| Calcium Pantothenate | 1 mg |
| Pyridoxal | 0.33 mg |
| Folic Acid | 33 µg |
| Cyanocobalamin | 0.16 µg |
| Blueberry Extract | 345 mg |

RDA

Vitamin C 16.5%, Zinc 16%, Vitamin B₆ 16.5%, Folic acid 16.5%, Vitamin B₁₂ 16.5%, Calcium Panthothenate 16.5%.

POSODOLOGY / ADMINISTRATION

It is recommended to take two capsules three times a day before the three main meals.
Do not exceed the daily recommended dose.

NUTRITIONAL INFORMATION

AND ENERGY VALUES (per 100 g)

| | |
|---------------|---------------------|
| Energy values | 348 Kcal (1,471 Kj) |
| Proteins | 51.2 g |
| Carbohydrates | 21.2 g |
| Fats | 6.5 g |

containers with 30 and 90 capsules
of 660 mg each



catalysis

Catalysis, S.L.
Macarena, 14
28016 Madrid • SPAIN
www.catalysis.es

