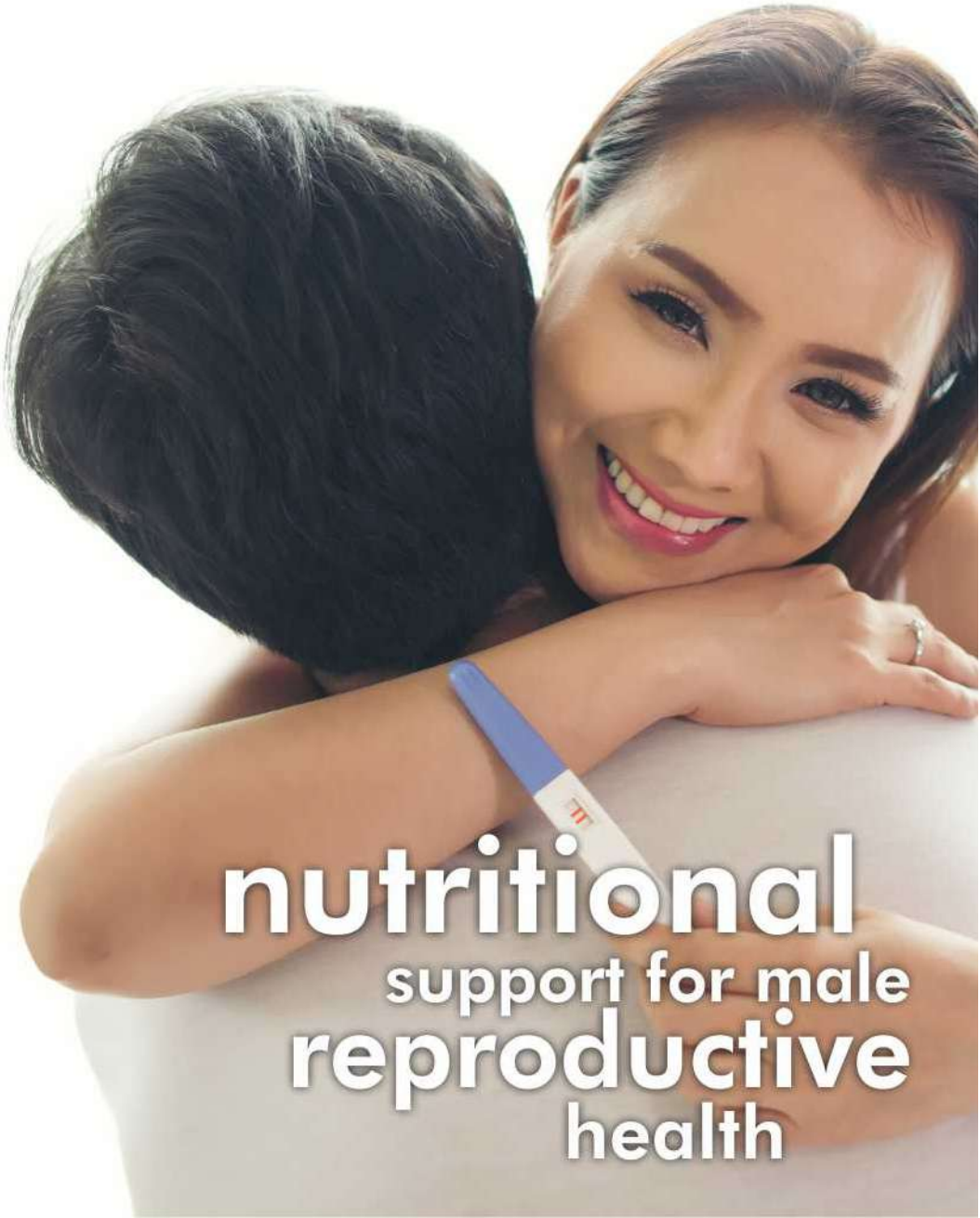


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 **FertiM**<sup>TM</sup>  
MALE FERTILITY SUPPLEMENT



**nutritional**  
support for male  
**reproductive**  
health

Manufactured by:

*Xena*<sup>®</sup>  
BioHerbals

Xena Bio Herbals Pvt. Ltd.,  
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ABC Pharma Services (PVT) LTD.  
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Recommend FERTI-M as an adjuvant in  
**Male Infertility**  
**Idiopathic male infertility**  
**Oligoasthenoatozoospermia**

**PACK**  
**10x3**  
**Tablets**



**Note:**  
Please use any  
medication only on the  
advice of the Registered  
Medical Practitioner



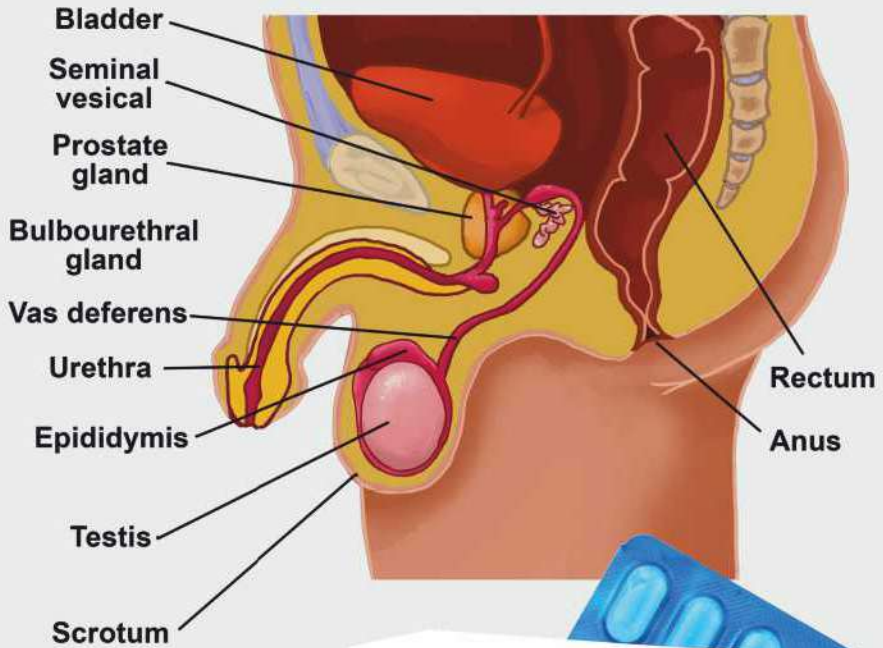
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# male reoroductive system

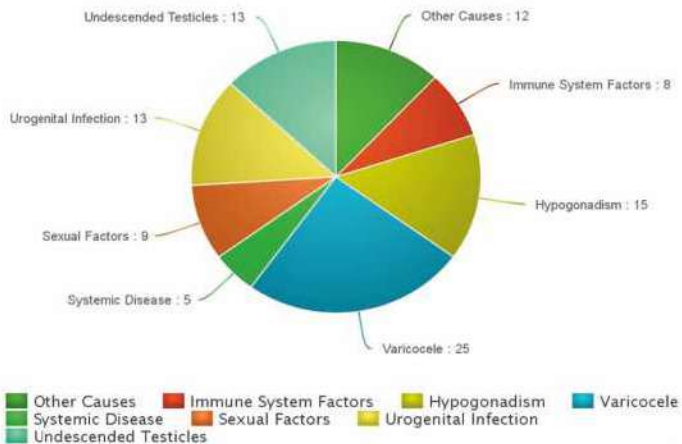
The male reproductive system consists of a number of sex organs that play a role in the process of human reproduction.

These organs are located on the outside of the body and within the pelvis.

The main male sex organs are the penis and the testicles which produce semen and sperm, which, as part of sexual intercourse, fertilize an ovum in the female's body; the fertilized ovum (zygote) develops into a fetus, which is later born as an infant



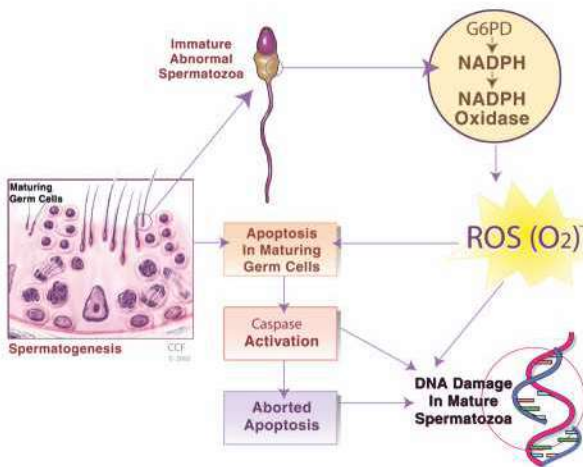
# Etiology of Male infertility





# male infertility

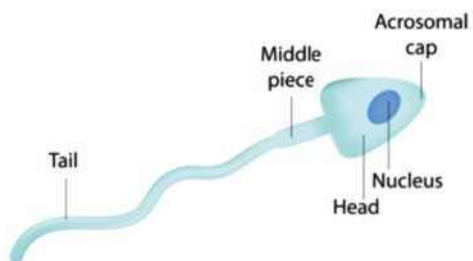
**MALE INFERTILITY:** Male infertility refers to a male's inability to cause pregnancy in a fertile female. In humans it accounts for 40–50% of infertility. It affects approximately 7% of all men.



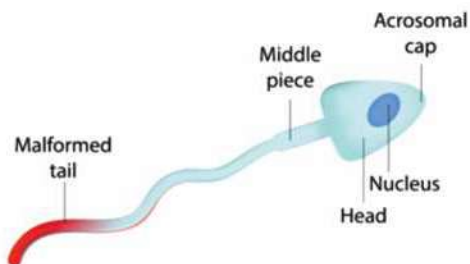
## CAUSES

Male infertility is commonly due to deficiencies in the semen, and semen quality. Factors relating to male infertility also include Immune infertility, Testicular factors, Varicocele and others like Age, Genetic defects on the Y chromosome, Abnormal set of chromosomes

## Healthy Sperm



## Abnormal Sperm



 **FertiM™**  
MALE FERTILITY SUPPLEMENT



Vitamin A	1250IU
Vitamin C	75mg
Vitamin E	12.5mg
DL-alpha Tocopheryl Acetate 50%	10mg
Thiamine Mononitrate	5mg

Pyridoxine Hydrochloride	5mg
Elemental Iron (as Ferrous Fumarate)	
Glutathione	2.5mg
Elemental Manganese	2mg
Elemental Copper	1mg

### COENZYME Q10

Known to be active in the testes and is an antioxidant that plays an important role in forming the membranes and other structures within cells by fighting the effects of oxidative stress. The exogenous administration of coenzyme Q<sub>10</sub> increases the level of the same and ubiquinol in semen and is effective in improving sperm kinetic features in patients affected by idiopathic asthenozoospermia. Coenzyme Q10 supplementation resulted in a statistically significant improvement in certain semen parameters. Ubiquinol was significantly effective in men with unexplained oligoasthenoteratozoospermia for improving sperm density, sperm motility and sperm morphology

### L-ARGININE

A semi essential amino acid used in a number of physiological functions. L-Arginine increases blood flow to the genitals leading to an increased libido. Leads to increased sexual arousal and orgasm. A healthy libido plays an important role in conception. L Arginine improves motility of sperm, thus increasing the chance of conception in couples suffering from low sperm motility. Where IVF is used, L-Arginine can be used to improve the quality of sperm, increasing the chance of achieving a fertilized egg.

### LYCOPENE

An antioxidant found in Tomatoes, a very effective antioxidant. Neutralizes free radicals and its supplementation improves sperm count, motility and morphology to optimum level in oligoasthenospermia infertile males, making them proud fathers.

### L-CARNITINE

L-Carnitine supplementation helps to improve male fertility in many ways like Increasing sperm health, Increase sperm motility, Prevent abnormal sperm cells from regenerating, Increase overall energy, Increase libido due to its antioxidant effect which can help to scavenge free radical damage that can make conception possible

### DHA

Omega-3 fatty acid is necessary to construct the arch that turns around, immature sperm cell into a pointy-headed super swimmer with an extra long tail. Docosahexaenoic acid (DHA) is essential in fusing the building blocks of the acrosome together. The acrosome is critical in fertilization because it houses, organizes, and concentrates a variety of enzymes that sperm use to penetrate an egg. "Without DHA, this vital structure doesn't form and sperm cells don't work,"

## FERTI-M (MALE INFERTILITY)

Ubiquinol (co-q10)	200mg
L-Arginine	50mg
Lycopene 6%	50mg
L-Carnitine	250mg
DHA 12%	200mg
Zinc Sulphate Monohydrate	55mg

Selenium Dioxide	100mcg
Vitamin D-3	1000Iu
Methylcobalmin	1500mcg
Folic Acid	1.5mg
Astaxanthin 10%	8%

### ZINC

Zinc greatly impacts the sperm count since zinc is found in high concentrations in the sperm. It is also needed to make the outer layer and the tail of the sperm. Without it, the sperm cannot mature to a stage that gives them the mobility and strength to make the long journey through the vagina, cervix and into the uterus for fertilization to take place. Low levels of zinc may also be the reason for chromosomal defects in the sperm, which could cause a miscarriage even if fertilization and implantation do take place

### SELENIUM

If Selenium levels in men are too low, it can result in low sperm count and weak sperm formation due to the presence of highly reactive free radicals, which tend to breakdown cell DNA. Selenium is essential for sperm formation and testosterone production and also increases sperm motility. Research also suggests that the antioxidant activity of selenium may even make sperm more fertile

### VITAMIN D-3

Vitamin D was shown to be positively associated to sperm motility, and to exert direct actions on spermatozoa, including non-genomic driven modulation of intracellular calcium homeostasis and activation of molecular pathways involved in sperm motility, capacitation and acrosome reaction.

### MEYTHYLCOBALMIN

1,500 mcg per day of Methylcobalamin orally for a period between two and thirteen months improved sperm counts. Increased sperm motility by up to 23%, increased ejaculate volume by up to 33% and increased sperm count by up to 215%. Methylcobalamin Increases sperm count, Improves sperm motility, Reduces DNA damage in sperm cells, may prevent premature ejaculation, may prevent loss of libido

### ASTAXANTHIN

Astaxanthin is a carotenoid which demonstrated the highest antioxidant activity against cell-damaging free

radicals. Strong antioxidant activity is the main source of the health benefits associated with this carotenoid. One double-blind study found that men who had previously experienced infertility saw improvement in sperm count and motility and infertility overall when they took high doses of astaxanthin

### VITAMIN A

Vitamin A, being an antioxidant, is essential in fertility health. It has been shown that beta-carotene can help improve sperm quality and motility

### GLUTATHIONE

A powerful biological antioxidants, scavenges free radicals very effectively. Glutathione plays a significant role in the antioxidant defences of the spermatogenic epithelium, the epididymis, and perhaps in ejaculated spermatozoa. Glutathione therapy has a statistically significant effect on sperm motility patterns. Sperm motility improved in patients with previous orchiepididymitis and patients with varicocele. Glutathione supplementation in infertile men with unilateral varicocele or inflammation of the urogenital tract leads to a significant improvement of sperm parameters, such as concentration, motility and morphology

### MANGANESE & COPPER

The role of trace elements in infertility may be more directly related to sperm and whole semen than seminal plasma levels. Male reproductive performance is affected by low manganese status that inhibits libido and lowers spermatozoa numbers.



Manufactured by:

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3-6-294, Hyderguda,  
Hyderabad-500029, India.  
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42, Jayanthamallimarachchi, Mawatha,  
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