

• Male Infertility

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What is male infertility?

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The inability to impregnate a fertile female due to abnormalities in the quantity and quality of sperm.

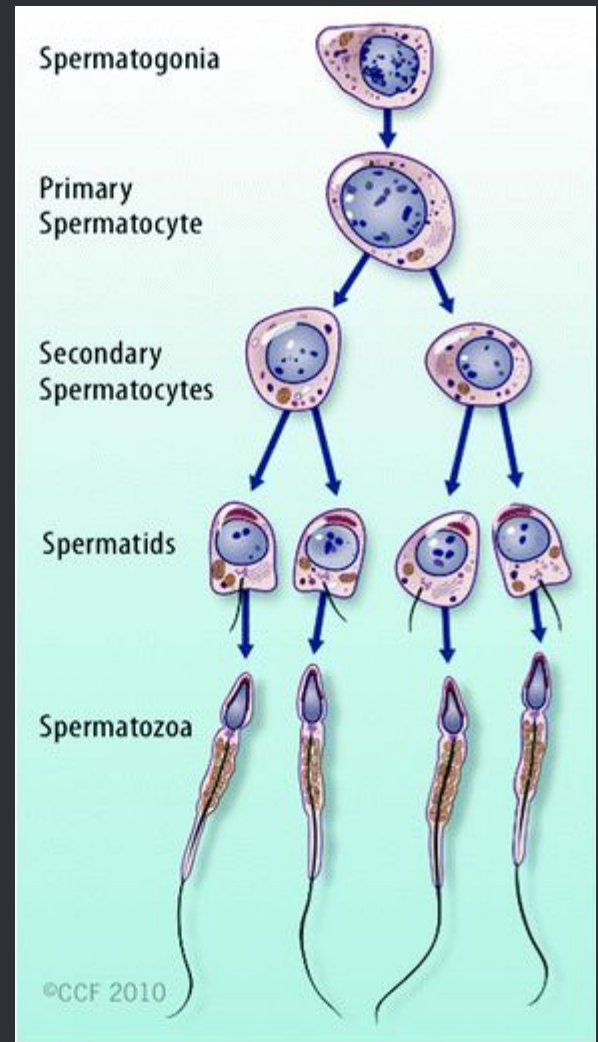
- Andrology Australia



How is sperm produced?

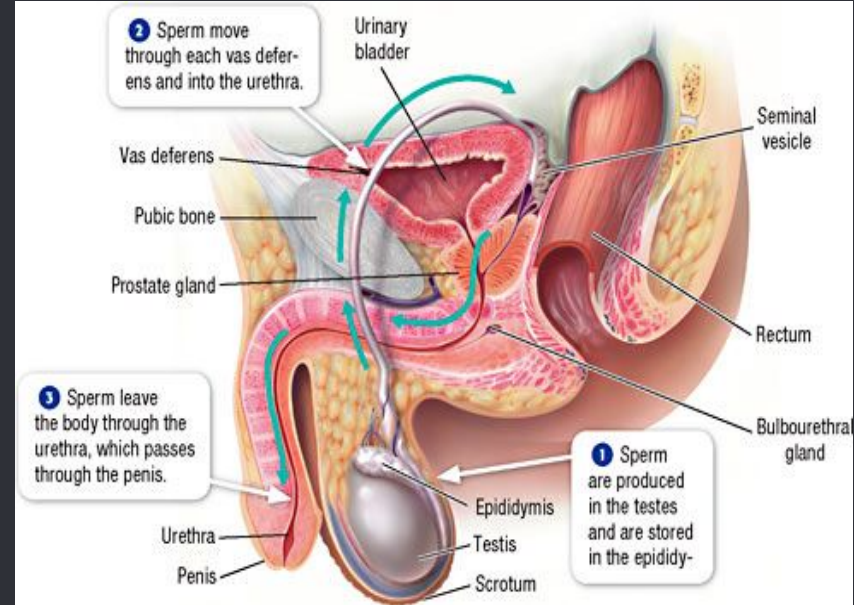
• Spermatogenesis

- System of tubes in testicles (**seminiferous tubules**) contain germ cells that are converted into sperm by hormones (**testosterone**)



Sperm Movement in Male Reproductive Tract

- Sperm complete their development in **epididymis**
- When a male is stimulated, sperm mixes with seminal fluid to form semen
- **Semen (containing up to 500 million sperm)** is ejaculated out of penis via urethra

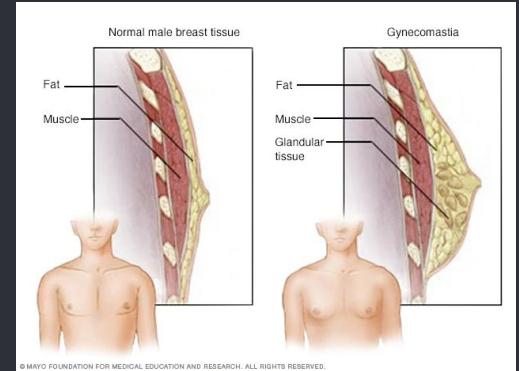




Symptoms

● Indicators of Male Infertility

- In most cases, there are no apparent signs of infertility
- Underlying problems, such as a hormonal imbalance, or condition that blocks the passage of sperm, causes signs and symptoms to arise





Causes

• Sperm Disorders

Caused by:

- Sperm not fully grown
- Irregular shape
- Produced in low numbers
- Not produced at all

• Medical Causes

Retrograde
Ejaculation

Immunologic
infertility

Obstruction

Hormones

Chromosomes

Medication

- **Environmental Causes**

**Industrial
Chemicals and
Heavy Metals**



**Radiation
or X-rays**



**Overheating of
the Testicles**



- Lifestyle Causes



Drugs



Alcohol



Smoking



Psychological Stress



Weight



Diagnosis

- **Diagnosis**

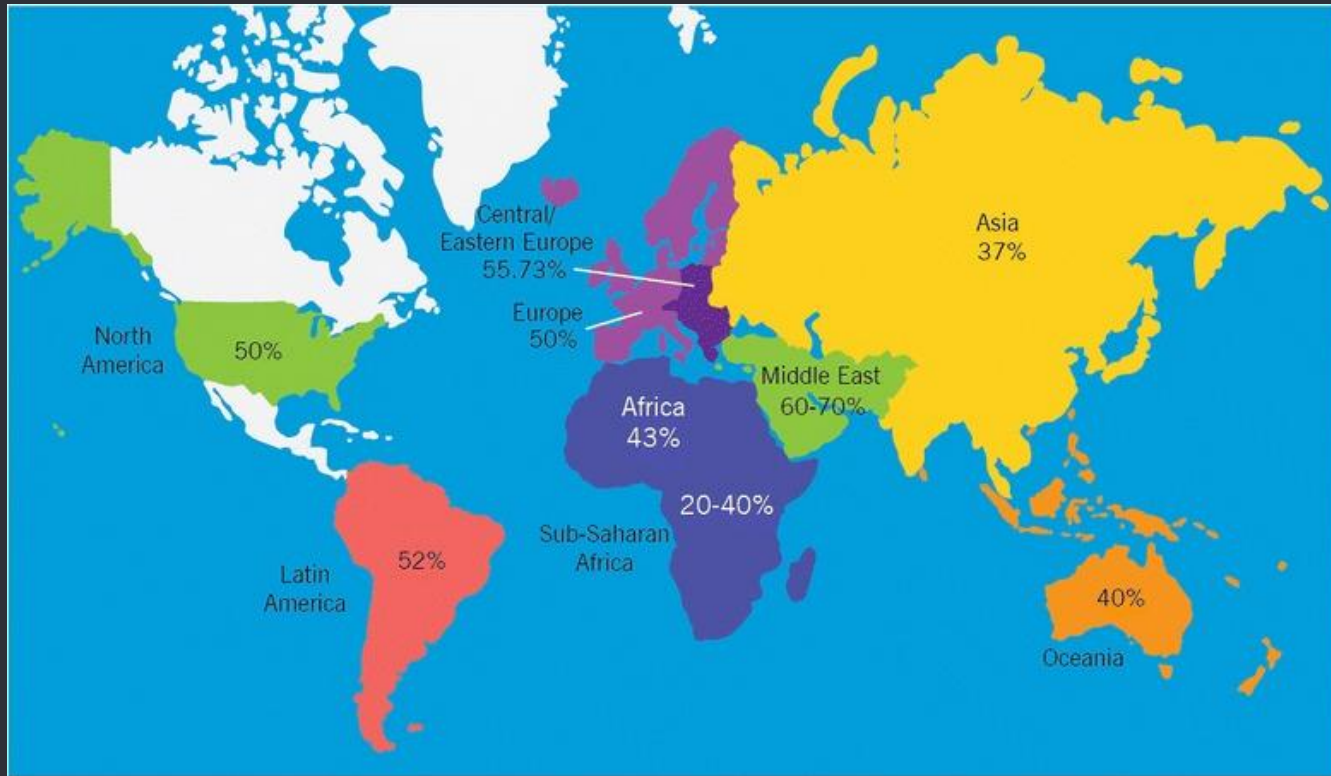
Physical
Exam

Semen
Analysis

Hormonal
Profile



Prevalence

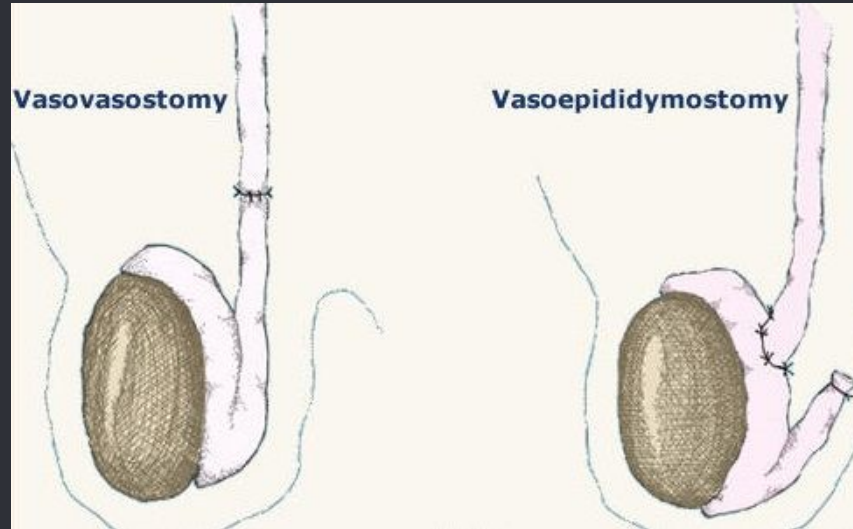




Treatments

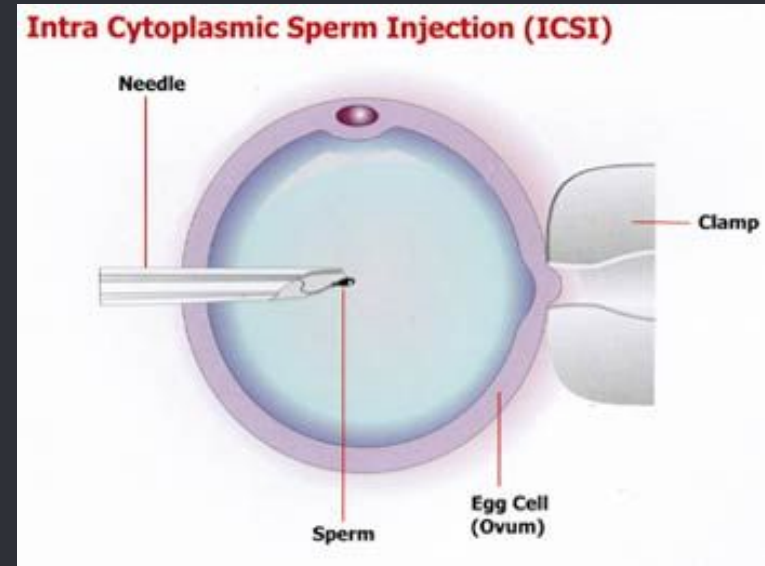
• Surgical Therapy for Male Infertility

- Vasoepididymostomy
- Transurethral Resection of the Ejaculatory Duct



• Assisted Reproductive Techniques (ART)

- Intrauterine Insemination (IUI)
- Intracytoplasmic Sperm Injection (ICSI)
- Testicular Fine Needle Aspiration (TFNA)





Management, Support, and Resources





Myths

• Myths

- A man's age doesn't affect his ability to father a child
- Wearing boxers is better than briefs
- Smoking doesn't affect male fertility
- Diet doesn't affect male fertility



Case Study

• Jimmy Fallon

- Check semen analysis
- Lifestyle adjustments can improve sperm quality
- Indicator for other health problems
- No sperm doesn't mean you can't have kids



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