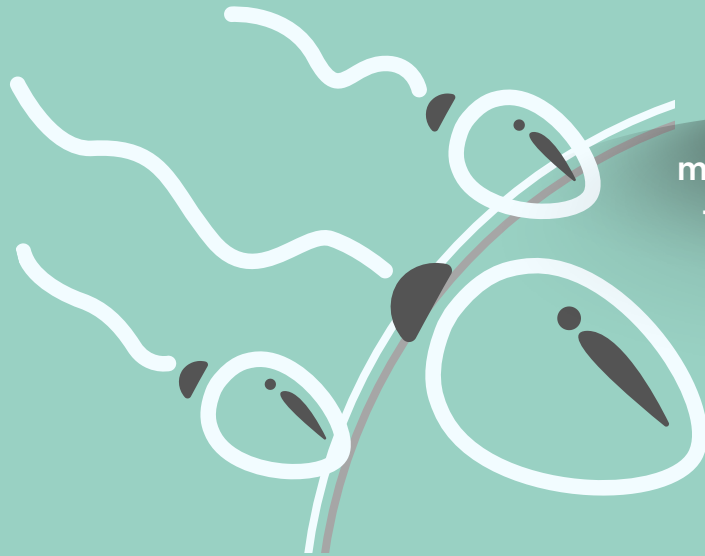


MALE FACTOR TESTING



At Fertilysis, we recommend an evidence-based, multi-modal approach for evaluating male fertility that encompasses:

The Fertilysis Male Microbiome

Male Microbiome and Infection Analysis studies have shown that infections in the male reproductive tract trigger immune responses that lead to oxidative stress, sperm DNA damage, and reduced sperm function, while leukocytospermia (elevated white blood cells in semen) further exacerbates oxidative stress and inflammation. Microbiome testing allows for the identification of these infections, enabling targeted antibiotic therapy and improving reproductive outcomes.

Sperm DNA Fragmentation Index (DFI)

DFI testing provides critical insights into the integrity of sperm DNA, which is vital for fertilization, embryo development, and sustained pregnancy. Elevated sperm DNA fragmentation has been linked to poor reproductive outcomes, including lower fertilization rates, higher rates of miscarriage, and failure of assisted reproductive technologies (ART) such as IVF and ICSI. DFI is increasingly recognized as a valuable predictive marker for male infertility, especially in cases where standard semen parameters appear normal.

ADVANCING MALE AND
COUPLE INFERTILITY
DIAGNOSTICS

While traditional semen analysis remains the gold standard for male infertility testing, its limitations in predicting reproductive success are well-documented. As male infertility contributes to nearly 50% of cases of couple infertility, there is a growing need for more advanced diagnostic approaches to fully assess male reproductive potential.

SPERM DNA FRAGMENTATION INDEX (DFI)

& SEMEN MICROBIOME

Critical Markers for Male Infertility

Symptoms Indicating Male Microbiome Issues:

Pain, swelling, or discomfort in the genital area, discharge or irritation, painful urination), discomfort during ejaculation, changes in sexual function or fertility.

Clinical Indications for DFI Testing

Infertility and failed ART

Varicoceles,
advanced paternal
age & unhealthy
lifestyles

Unexplained infertility &
recurrent pregnancy loss

Infections & abnormal
semen Microbiome

Prostatitis

High levels of sperm
DNA fragmentation

Presence of infections in the
female partner's reproductive tract
microbiome

Clinical Indications for Male Microbiome Testing

Bacterial Infections and Sperm Quality

Pathogenic bacteria in semen can lead to inflammation, oxidative stress, and sperm DNA fragmentation, compromising male fertility. Specific bacterial infections directly impact sperm motility and morphology.

Key Scientific Findings

Impact on Female Microbiome

Semen is not only a carrier of sperm but also a vector for microbial transfer between partners. Studies show that seminal bacteria can compromise the female genital tract microbiome, leading to Endometritis or vaginosis, leading to recurrent implantation failure (RIF) or miscarriage.

GET IN FRONT OF THE COMPETITION

DOCTOR BENEFITS

Evidence-Based Diagnostics

Our testing protocols are rooted in the latest scientific research, ensuring the most accurate and reliable results.

Special Rates for Healthcare Providers

Superior Diagnostic Accuracy

Unlike traditional methods, the tests offer highly sensitive testing, reducing false negatives and positives.

Targeted Interventions

Identifying infections, microbiome imbalances, and DNA damage enables precision medicine, allowing for targeted antibiotic and antioxidant therapies.

An ideal option for doctors with an international clientele

The tests are available worldwide as mail-order tests, ensuring greater accessibility for your patients.

With Fertilysis, healthcare professionals can offer their patients a comprehensive, scientifically sound approach to male infertility testing, improving both natural conception and ART success rates.

FERTILYSIS is a licensed medical company located at 1 Argyroupoleos St., in the Argyroupoli southern suburbs of Athens in Greece. FERTILYSIS is ISO 9001:2015 (EQA Hellas) certified and member of the Piraeus Medical Association. To ensure high quality service we participate in external quality control programs including EHEQAS (European HPV DNA Test External Quality Assurance Scheme Assurance Scheme, INSTAND Molecular Genetics, UK NEQAS - Leucocyte Immunophenotyping Immune Monitoring) We operate interdisciplinary clinical practices in Internal Medicine, Obstetrics and Gynecology and Clinical pathology. With a special interest in male and female Infertility, our medically-led diagnostic and research/R&D laboratories, provide the full range of specialized diagnostic services in the field of Infertility to patients and clinics both Greece and Internationally.

JOIN THE GROWING NETWORK OF PROVIDERS WHO TRUST FERTILYSIS

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