

Freiburg Medical Laboratory ME LLC, P.O.Box 3068, Dubai

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Semen analysis

see also Fertility diagnostics

General:

The significance of a spermiogram for male fertility has to be considered relative and is specific exclusively in complete absence of spermatozoae (azoospermia). The prognosis of the spermiogram parameter for the probability of pregnancy is approx. 20%. In the spermiogram the following pa-rameters are considered: ejaculate quantity, number of sperms, pH-value, viscosity, motility, microscopic differentiation.

Indication: Fertility disturbances, hypogonadism, e.g. infertility for > 1 year, therapy

monitoring

Material: Sperm, native, without spermicidal substances, collection into sterile container,

send the sample as soon as possible to laboratory. Transportation time should not exceed 1 hour, alternatively send patient to the laboratory for sample collection. Four to five days without ejaculation should be considered prior to

performing the test.

Preanalytics: send immediately!

TAT: same day, FML

Method: Microscopy, staining (Eosin, Giemsa)

Ref.- range: see report

Note: Fructose determination is recommended as additional examination, see also

fructose in seminal fluid. Further parameters are: FSH, LH, testosterone in

serum.

Nomenclature:

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Aspermia	no ejaculate	retrograde ejaculation by neurogene or mechanical causes (e.g. retroperitoneal lymphadenektomia, diabetes mellitus, spinal artherial throm-bosis, traumata, genital anomalia), perturbation in the range of ampullae and prostatic urethra, psychic caused aneja-culation
Azoospermia	neither spermatozae nor cells of the spermatoge-nesis visible in the ejaculate	Transportation perturbations: congenital (aplasia, dysgenesia, pH decreased, fructose re-duced), inflammatory (epidi-dymitis) or iatrogen. (e.g. vasectomy). Testes volume and FSH in the normal range. Production perturbations: Tubular testicular parenchyma damage, FSH almost always increased, usually testicle volume reduced.
Asthenozoospermia	less than 50% spermato-zoae with a fast, progres-sive, linear movement and less than 50% slow spermatozoae with inert, linear or not linear movement or less than 25% spermatozoae with a fast, linear, progressive movement	
Hemospermia	erythrocytes in ejaculate, redish/brownish color	
Hyperspermia	volume of the ejaculate > than 6 ml	
Kryptozoospermia	less than 1 million sper-matozoae/ml	
Nekrozoospermia	only non vigorous sper-matozoae	

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OAT syndrome	oligoasthenoterato- spermia	oligozoospermia with unsatisfactory growth of normal spermatozoae
Oligozoospermia	< t h a n 2 0 m i o . sper-matoz./ml	
Polyspermia	more than 250 mio. spermatoz./ml	
Pyospermia	ejaculate with bacteria, many granulocytes	e.g. in acute prostatic vesiculitis, pH higher than 8
Teratozoospermia	less than 30% normal spermatozoae	

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit http://www.fml-dubai.com/parameter-listings/

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