About Polyzoospermia

According to the World Health Organization (WHO) criteria, men with sperm counts more than 250 mil/ml are referred to as polyzoospermics. Some studies suggest that these individuals might have reduced sperm motility and infertility. Polyzoospermia is generally recognized as a male factor contributing to infertility and/or recurrent abortion, so far there is no conclusive explanation for the assumed reduced reproductive performance in these patients, and data on the fertilizing capacity of spermatozoa from polyzoospermic men are lacking.

This investigation shows that most of the spermatozoa of polyzoospermic men do not undergo the acrosome reaction in vitro. This renders the spermatozoa incapable to penetrate the outer investments of the oocyte which might be one of the reasons for the reduced fertility observed in this patient group.


The polyzoospermic men we studied did not appear to have any defect with the spermatozoal fertilizing capacity, as assessed by the heterologous sperm--ova penetration bioassay. The apparent impairment of fertility and higher abortion rate in couples with polyzoospermic male partners may be related to chromosomal aberrations and/or other unknown functional defect of the spermatozoa.

No evidence for a decreased fertilizing potential after in-vitro fertilization using spermatozoa from polyzoospermic men. - PubMed - NCBI

Find more about related issues

Therapies

Egg donation
Process by which a woman donates eggs for purposes of assisted reproduction or biomedical research.
Learn more at: www.fertilitypedia.org/edu/therapies/egg-donation

ICSI
A micromanipulative fertilization technique in which a single sperm is injected directly into an egg.
Learn more at: www.fertilitypedia.org/edu/therapies/icsi

Sperm donation
The procedure in which a man (sperm donor) provides his sperm for fertility treatment.
Learn more at: www.fertilitypedia.org/edu/therapies/sperm-donation

Standard IVF
A process in which an egg is fertilised by sperm outside the body: in vitro. Own or donated gametes may be used.
Learn more at: www.fertilitypedia.org/edu/therapies/standard-ivf