

# POSTEJACULATORY URINE SPERM ISOLATION - WITH ICSI

A non-invasive method of the sperm isolation in the case of retrograde ejaculation.

 Therapy  Male



## About Postejaculatory urine sperm isolation - with ICSI

If a couple is experiencing infertility as a result of retrograde ejaculation and medications are not helping, the male's urine with ejaculate may be centrifuged and the isolated sperm injected directly into the woman's oocyte during IVF-ICSI procedure.

The procedure includes adjustment of the osmolarity of the patient's urine by drinking water and urinary alkalization by an oral agent. The small amount of antegrade-produced ejaculate is collected in a plastic beaker, while the retrograde fraction of the ejaculate needs to be urinated immediately into a jar with culture medium containing human serum albumin to dilute the urine. Finally, the urine/medium mixture has to be centrifuged, resuspended and filtrated on the glass wool column where sperms are separated. When the sperm is isolated it could be injected directly into the egg (which is maintained from woman by transvaginal oocyte retrieval). The following procedure is IVF-ICSI.

## Success or failure factors

In more severe cases, where no sperm is present, surgical retrieval methods (TESE, micro TESE, etc.) may be used.

## Prognosis

If live spermatozoa are present after isolation from urine the results of IVF-ICSI procedure can be comparable to the situation when spermatozoa are obtained from ejaculate.

## Find more about related issues

### Diagnoses

#### **Aspermia**

Male diagnosis connected with male infertility characterised by the complete absence of semen.

Learn more at: [www.fertilitypedia.org/therapy/diag/aspermia](http://www.fertilitypedia.org/therapy/diag/aspermia)

#### **Ejaculatory disorders**

A class of sexual disorders defined as the subjective lack of normal ejaculation.

Learn more at: [www.fertilitypedia.org/therapy/diag/ejaculatory-disorders](http://www.fertilitypedia.org/therapy/diag/ejaculatory-disorders)

### **Retrograde ejaculation**

The semen, which would normally be ejaculated via the urethra, is redirected to the urinary bladder.

Learn more at: [www.fertilitypedia.org/therapy/diag/retrograde-ejaculation](http://www.fertilitypedia.org/therapy/diag/retrograde-ejaculation)



### **Sources**

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