

# Man equally responsible for infertility, IVF-ICSI is solution says IVF Expert

IN 50 % CASES FACTOR 'M' RESPONSIBLE FOR INFERTILITY : DR SHARDA JAIN



## IVF-ICSI: A BREAKTHROUGH

- Now, 80% can father their own child with the new IVF-ICSI technology
- According to IVF expert Dr Sharda Jain and Dr Jyoti Aggarwal, it is

**strongly advised that testicular biopsy should not be done in any center where the sperm freezing technology (ICSI) is not available.**

**When a couple has trouble having a baby, there is about a 50-50 chance that the man has a problem contributing to the pregnancy.**

**He might:**

- Produce too few sperm to fertilize an egg
- Make sperm that are not shaped properly or that do not move the way they should
- Have a blockage in his reproductive tract that keeps sperm from getting out
- If you might have a fertility problem, your doctor will want to perform a complete history and physical, as well as several tests to find out what may be causing your infertility.

### DIAGNOSTIC TESTING FOR MALE FACTOR INFERTILITY

#### Semen analysis

Semen analysis is probably the first test you will be asked to perform. Semen is the fluid that is released when a man has an orgasm. Semen carries the sperm in fluids that should nourish and protect it. You will typically be asked to provide a semen sample by masturbating into a sterile glass jar. If masturbation is not culturally acceptable, your doctor can provide you with a special condom in which to collect semen during intercourse.

The semen analysis provides a lot of information about the quantity and quality of both semen and the sperm it contains.

**Things that are measured are:**

- How much semen a man produces (volume)
- The total number of sperm in the semen sample (total count)
- The number of sperm in each milliliter of semen (conc.)
- The percentage of sperm that are moving (motility)
- If the sperm are the right shape or not (morphology)
- The analysis can also suggest if you have an infection in your reproductive system.
- The semen sample has to be tested within an hour of collection, which usually takes place in the doctor's office. You'll probably need to make two visits to provide samples on two different days more than two weeks apart, because samples from the same man can be different at different times. Collecting two samples makes it easier to tell if something really is wrong. You may be asked not to release sperm (ejaculate) for 2 to 5 days before you provide a sample.

#### Hormone level & reproduction

Important chemicals in your body, called hormones, control sperm production. They also

## Expert Column

affect your interest in sex and your ability to have sex.

Too much or too little of these hormones can cause problems with sperm production or trouble having sex. Two important hormones for reproduction are follicle-stimulating hormone (FSH) and testosterone (T). Your doctor may do blood work to check to see if you have the right amount of these hormones. If indicated, your doctor may check other hormone levels, including luteinizing hormone (LH), estradiol, and prolactin.

#### Other testing

If the semen analysis test results aren't normal, you may need to have more tests that can be performed by your doctor or you may be referred to a urologist. These tests will show: If enough sperm in the semen sample are alive ("vital staining" test) If antibodies have attached to sperm, making it hard for the sperm to move properly ("antisperm antibodies" test) If you have an infection or inflammation that affects your semen ("peroxidase staining" and "semen culture")

#### More tests

If you've had the tests described above, but your doctor still does not know why you are having problems, additional tests may be necessary. **These tests will tell your doctor:**

If the outer layer of the sperm is broken or intact

If your sperm are moving the way they should ("computer-assisted semen analysis")

- If too many of your sperm have broken or fragile DNA ("sperm DNA testing")
- If you produce very few sperm (or if you produce no sperm), your doctor may want to perform a genetic test to see if there is anything abnormal with your genes that makes it impossible for you to produce sperm. The tests can also tell if there is a problem you could pass on to child.
- If your sperm have the correct number of chromosomes
- If you have a chromosome defect
- **If no sperm are seen (determine if the sperm tubes are intact or perform a biopsy of the testicles) and freeze the sperms for IVF-ICSI if retrieved.**

### INFERTILITY FACTSHEET

- There are about two crore Indian couples, who need advanced infertility treatment. Half are Male factor.
- Involvement of third party in reproduction process is now widely accepted fact.
- Sperm retrieval techniques have given a lot of hope in Azoospermia