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The MicroTESE Procedure

The microscopic surgery is performed to retrieve sperm for male partner who have zero sperm count after semen analysis and when there is no obstructions in the tubes that transfer the sperm to the urethra. Is not obstructed. This technique is based upon that described by Dr Schlegel in New York.

The MicroTESE usually takes at least two hours if both sides involved. You will need to shave the scrotal area the day before or the morning of the procedure .

The procedure is done Under general anesthesia and an incision is made on the scrotum and the testis is explored and a traverse incision to the covering layer of the testis will be made. Under the guidance of the operating microscope or surgical loops that provide a high magnification will allow identifying the bigger tubules that are more likely to contain sperm. These tubules will be isolated and will be given to the embryologist who will initially milk these tubules to move the sperm out of the tubules then they will be transferred to be examined under another microscope with a much higher magnification x 400 to search for the sperm .

At the time of MicroTESE, I will send a tiny specimen for pathological evaluation to rule out a precursor to malignancy called intratubular germ cell neoplasia (ITGCN) and also to match the findings from the pathology with that of the embryology lab.

At the conclusion of the procedure the layer covering the testis will be closed with microscopic 6-0 sutures then the outer layers leading to the skin will be closed with absorbable stitches , the skin stitches will be left a bit long at the skin and they will not need to be removed.

Micro-TESE procedure involves a day surgery, so you'll be able to go home on the same day as your operation.

Sperms that have been retrieved surgically can only be used for ICSI (Intra Cytoplasmic Sperm Injection) so the female partner has to undergo IVF and each collected mature egg will be injected with single sperm. The other good news is that men who are diagnosed with Klinefelter syndrome will benefit from doing MicroTESE as the sperm can be found in up to 70% of the cases.