

# Immature Ovum Aspiration Needle Set

Used for aspiration and flushing of immature oocytes from ovarian follicles. Intended for one-time use.

**Caution:** Federal (U.S.A.) law restricts this device to sale by or on the order of a physician.

**Note:** (One or Two) cell mouse embryo tested and passed with 75% or greater Blastocyst rate. USP endotoxin (LAL) tested and passed with 20 EU's or less per device. Testing is conducted on a lot-to-lot (batch) basis.

## Contraindications:

This needle should not be used on a patient with an active vaginal or intrauterine infection, a sexually transmitted disease, a recent uterine perforation, a recent caesarean section, or is currently pregnant.

## Precautions:

- Where possible, the needle tip should be kept within the ovarian stroma or follicles to prevent the aspiration of air into the needle. This minimizes the potential for oocyte damage and frothing in the test tube.
- Hematuria may occur due to the aspiration needle penetrating a filled bladder during transvaginal ultrasound aspiration. This complication typically resolves spontaneously within a day.
- Extravasation of urine may occur within the abdominal cavity if a needle puncture traverses the bladder. Patients should be monitored for evidence of this known complication. However, there is typically no associated discomfort or adverse sequelae.
- Infection may be introduced via needle puncture and result in urinary tract infection (UTI), pelvic inflammatory disease (PID), uterine infection or cystitis. Recommendations to minimize occurrence include using only biocompatible materials, flushing of the needle (and any other accessories used) with sterile, compatible culture media, and closely adhering to sterile techniques.
- The assisted reproduction needle (and any other accessories used during these procedures that have direct contact with oocytes) should be comprised of materials compatible with embryos.
- Pain may be associated with oocyte retrieval via percutaneous abdominal needle puncture or transvaginal puncture. Pain is usually perceived as tolerable when smaller gage needles are used.
- Local anesthetic may be administered as necessary.
- Vaginal bleeding has been reported to be associated with transvaginal oocyte retrieval via needle aspiration. Bleeding is typically easily controlled with direct pressure.

## Suggested Instructions for Using Immature Ovum Aspiration Needle: Ultrasound Guided Procedure

1. Position the patient in the lithotomy or knee/chest position
2. Introduce the ultrasound transducer into the vaginal fornix to visualize the ovary and follicles. Identify the follicles to be aspirated. Check for the presence of blood vessels in and around the ovary and determine the direct path into the ovarian follicles to be aspirated.
3. If applicable, insert the guide needle into the transducer needle guide.
4. Under ultrasound guidance, advance the needle into the ovarian follicle. For co-axial system, advance guide needle into the ovary, then insert and advance aspiration needle through the guide needle and into the ovarian follicle.
5. Using a vacuum unit or syringe, aspirate and/or flush the follicle to obtain the oocyte. Repeat steps 4 and 5 on remaining follicles.
6. Remove needle and reposition the transducer to visualize the remaining ovary. Repeat steps 2 through 5 on remaining ovary.
7. When the desired number of oocytes have been aspirated, remove the needle(s) and discard properly.

## For Laparoscopic Procedure:

1. Position the patient in the lithotomy or knee/chest position.
2. Under laparoscopic guidance, nick the skin for ease of trocar/cannula placement.
3. Place trocar/needle assembly to the desired location. Remove trocar while leaving the needle cannula in place.
4. Under laparoscopic vision, place the needle through the abdominal cannula and advance into the ovarian follicle.
5. Using a vacuum unit or syringe, aspirate and/or flush the follicle to obtain the oocyte. Repeat steps 4 and 5 on remaining follicles and ovary.
6. When the desired number of oocytes have been aspirated, remove the needles and discard properly.



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