



INVOC*ell*

Intra Vaginal Culture of Oocytes

Intra Vaginal Culture

Intra vaginal culture (IVC), is a technique which uses vaginal cavity as an incubator for oocyte fertilization and early embryo development.

IVC environment ...

IVC Provides-

- 5% O₂
- 5-6% CO₂
- 37⁰ C

CO₂ Incubator Provides

- ~20 % O₂
- 5-6% CO₂
- 37⁰ C

How IVC can be performed?



INVO cell, the gas permeable device, specially designed for Intra vaginal culture (IVC).

INVO Device

Made of-

- Polystyrene,
Polypropylene and TPE



* Sterile

* Non-Pyrogenic

* Non-Embryotoxic



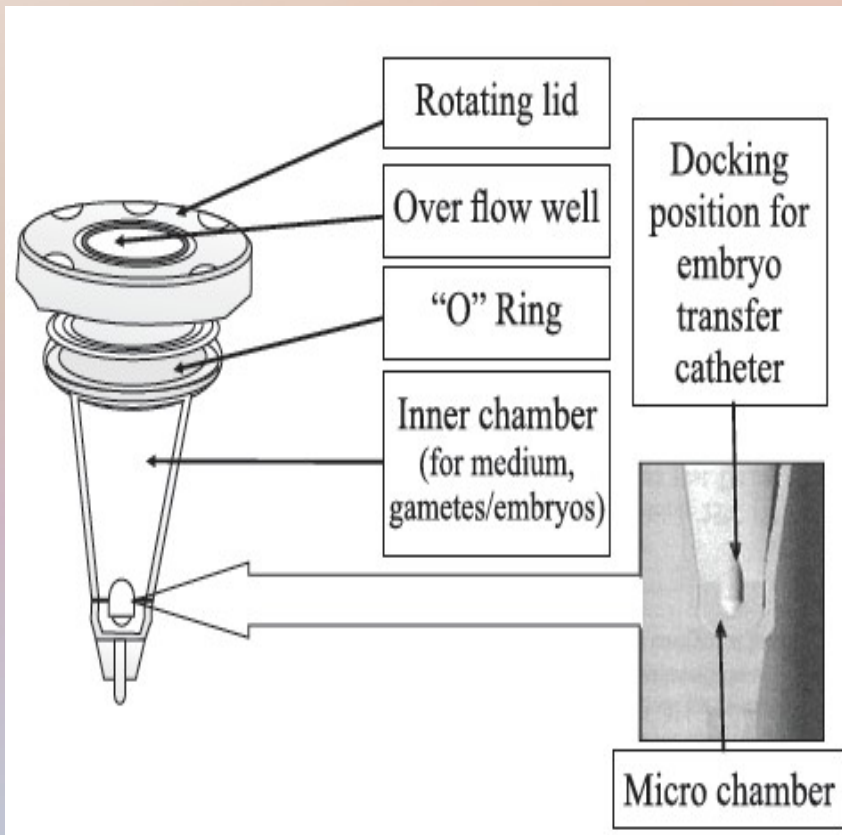
ISO 10993 Tested

Gaseous & Thermal exchange

- Polystyrene, Polypropylene allow gaseous exchange O_2 and CO_2 between the Venous Blood flow in the Vaginal Cavity and the Culture media
- Outer Rigid shell is responsible for thermal Transfer to the Gametes/ embryo in the inner chamber



Inner Chamber Design



Advantage:

Designed to identify and loading of embryos directly from micro chamber

Ease of Use

INVO culture device is designed to stay in the upper vaginal cavity, fornix, when positioned properly.

Awareness of the device and its positioning is important for the patient for the successful INVO cycle.

Global experience of 800 cases no complaints on discomfort and infections.

INVO cycle

Procedure:

- Minimal / No stimulation
- Follicular Aspiration
- Intravaginal Culture
- Embryo Transfer
- Post ET care

Differs from Conventional IVF as

- Super Stimulation ~ Risk of OHSS
- In-Vitro Culture ~ Oxidative Stress,
Monitoring of
Laboratory parameters

Conventional IVF _{vs} INVO

- Risk of OHSS • ---
- Depletion of Ovarian Reserve • ---
- Higher manipulations of oocyte/embryo • ---

How IVC is superior?

- CO₂ incubator provides 20% O₂ Which results oxidative stress on fertilization and early embryonic development. Eg. PN arrest and Fragmentation of Embryos
- Co-culture of Embryo with cumulus will results better Embryo quality thus greater chances of implantation

Patented ...Globally Experienced



Now , In INDIA

Advantages

For the Hospital

- Less capital of Investment
- Minimum Space is Adequate
- Easy and Quick procedure
- Less interventions ~ Less complications

Advantages

For the Patient

- Minimal Hormonal Usage
- Minimal Lab Investigations
- Limit less number of cycles
- Cost effective
- Easy to use

Laboratory Requirements

- Laminar Air Flow with integrated heating system
- Sterio Zoom Microscope with stage warmer
- Light Microscope
- Centrifuge
- Test tube warmer
- Makler chamber/ Heamocytometer
- Aspiration Pump
- 5% CO₂ regulated flow jar for LAF(optional)

Disposables

- INVO cell
- Aspiration Needle
- Embryo Transfer Catheter
- Pasteur Pipettes
- Organ Center Well Dishes
- Petri Dishes
- Test tubes
- Glass slides & cover slips
- Conical tubes

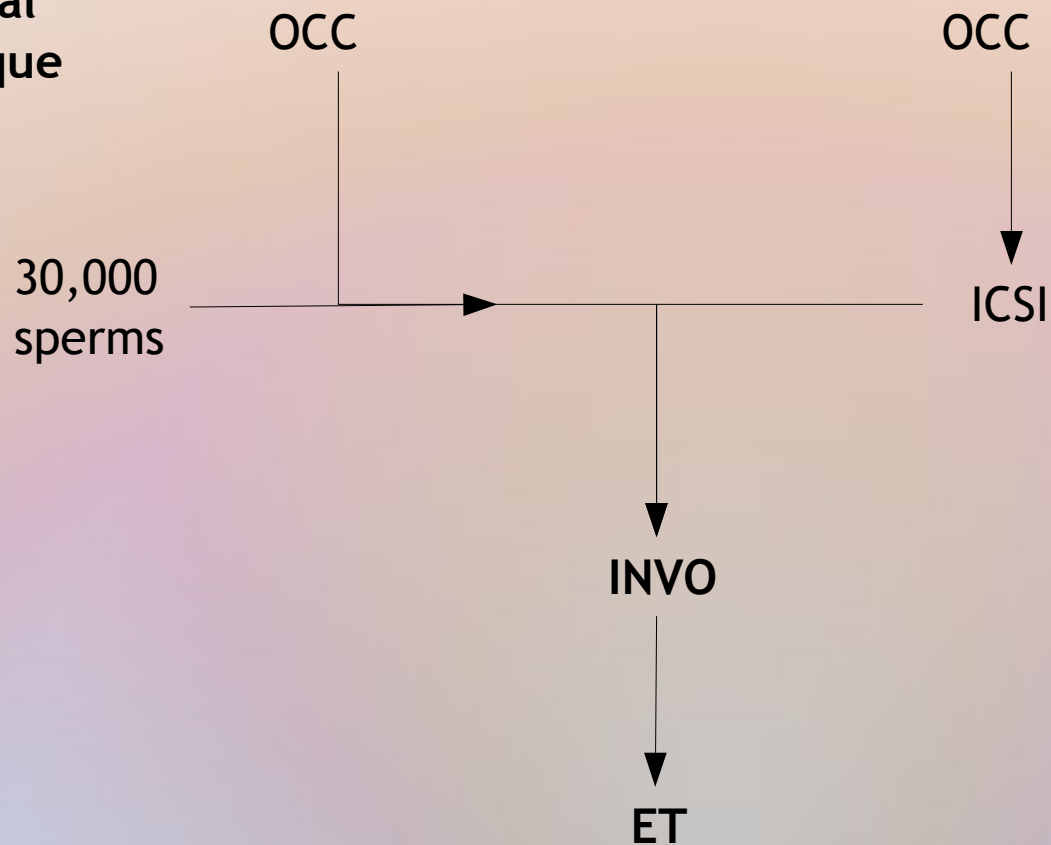
Medias

- HEPES buffered Media (flush)
- Culture media (Day 0-3)
 - Universal IVF media
 - Eg: P1- SSS media, G IVF
- Single or Double Layer Density Gradient

Overview

INVO as a
conventional
IVF Technique

INVO as a
superior culture
for ICSI- oocytes



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Thank you