

Figure 2: IVM and cryopreservation of oocytes

Advantages

Immediate harvesting in case of IVM (can start treatment without delay)

No male partner/gamete donor needed

Complete gonadotoxic and or ionizing radiation treatment without exposing gametes

Preserve fertility

Avoid risk of cancer re-transmission

IVM suitable for prepubertal girls

IVM is best suited for patients with polycystic ovaries containing numerous small antral follicles

Oocyte cryopreservation becoming more successful

Disadvantages

Oocytes sensitive to cryoinjury

Requires surgical procedures for tissue harvesting or follicle aspiration

Oocyte retrieval requires 2 to 3 weeks for induction of multiple follicular maturation (place patient at risk of ovarian hyperstimulation syndrome)

Oocyte retrieval not suitable for prepubertal girls

IVM has low success rate