

COMPLICATIONS OF IVF TREATMENTS

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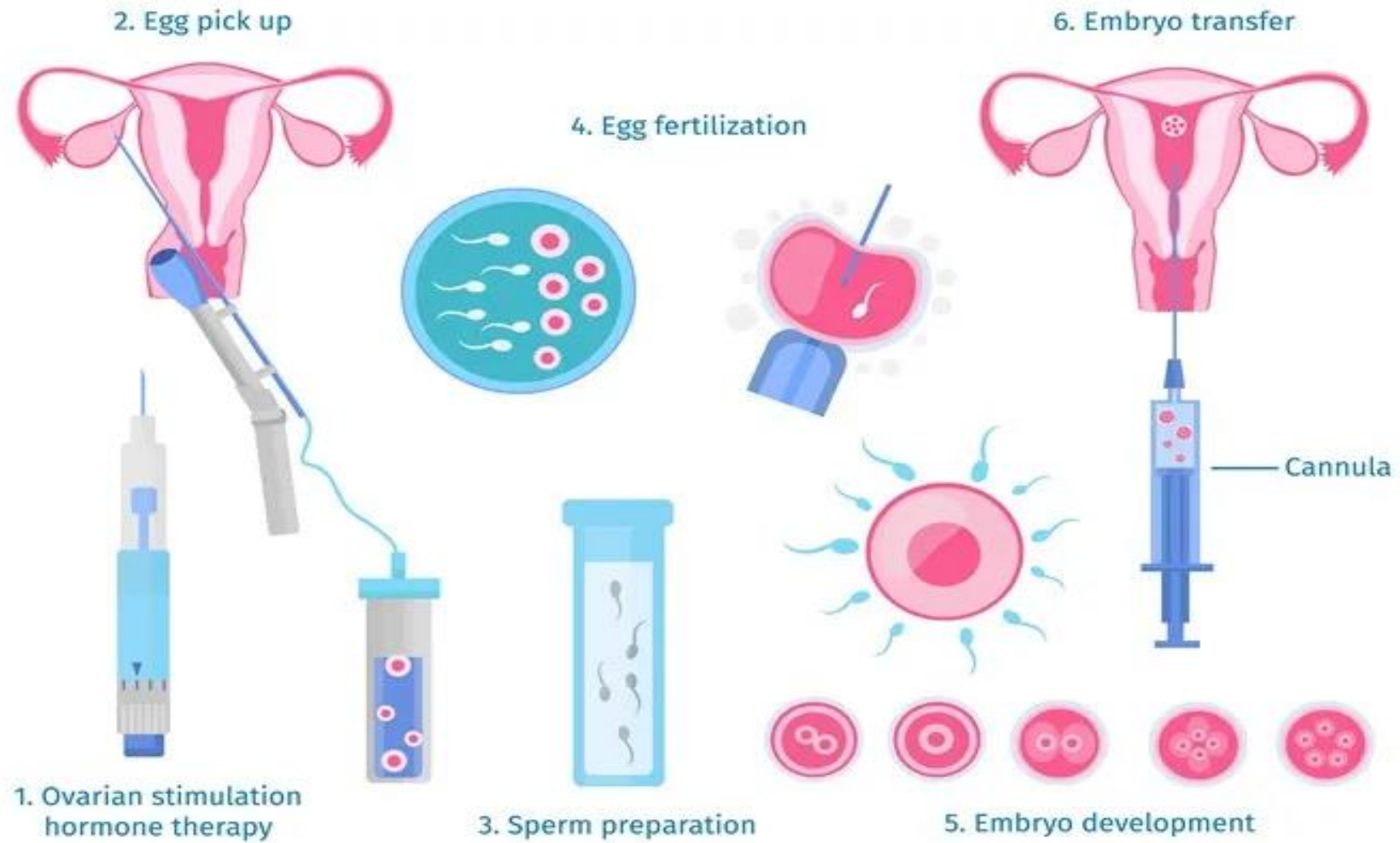
Outline

- Steps involved in IVF
- Benefits of IVF
- Complications

WHO FACTS...

- Around 17.5% of the adult population – roughly 1 in 6 worldwide – experience infertility, showing the urgent need to increase access to affordable, high-quality fertility care for those in need.

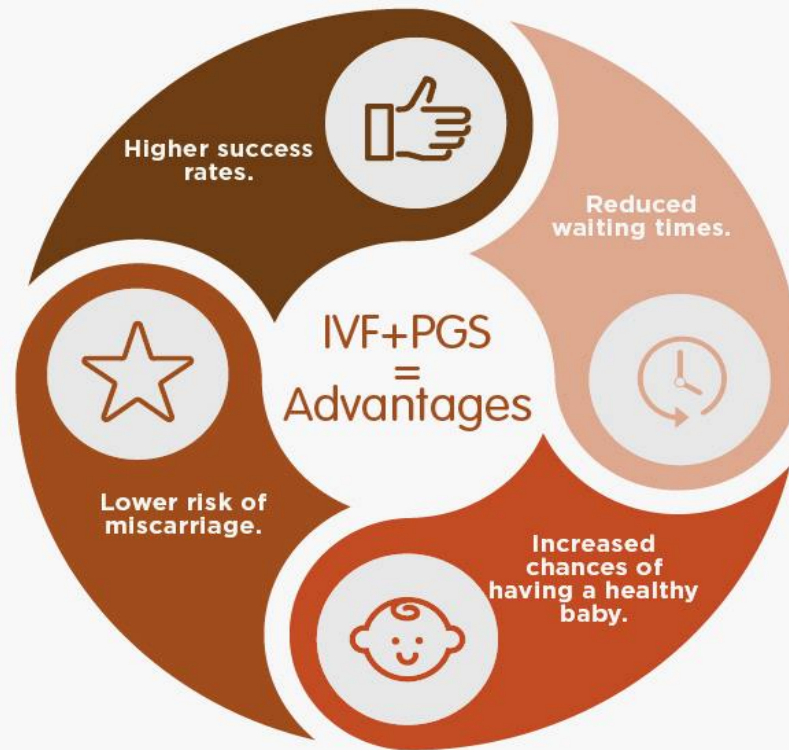
in Vitro Fertilization



What Are The Steps Involved In IVF?

- **Medication**
- An injection is given to the lady to stimulate healthy egg development.
- **Collecting the egg**
- Eggs are collected from the ovaries with minor surgery.
- **Fertilization**
- Here the egg and sperms are combined in a laboratory.
- **Embryo culture**
- Here the embryologists give proper attention throughout the embryo division. The proper growth of the embryo is ensured here.

Benefits of IVF



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- Always helps where infertility treatments fail: After so many infertility treatments, couples give their absolute trust in IVF, which may sometimes give them the best result that they expected.
 - Decrease the chance of miscarriage: Common cause of miscarriage depends on genetic issues. In this technology, they use PGT to determine the genetic issues so that the chance of miscarriage is scarce.

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- Increased chance of conception: IVF treatment with PGT have the highest success. When proper treatment is given to the mother, chances are less for miscarriage and increase the chance to have a healthy baby.

Medical procedure without side effects...



ZERO

Don't turn back...Don't say no...



Prevention

- Selection;
- Adjustment of therapy;
- Prompt action if imminent complication
- Counseling

Stress

- The cost may be high for specific treatments. So the financial, physical, and emotional draining may make them more stressed. So having better people around you can help you to get out of this.

STIMULATION

Side Effects & Risks

Hot
Flashes



Bloating



Headache



Vaginal
Dryness



Mood
Swings



Fatigue



Weight
Gain



Breast
Tenderness



Abnormal
Spotting



Injections side effects

- **Bruising and Soreness**

It's very common to experience bruising or soreness at the injection sites. In order to reduce this side effect, it is often recommended to use different injection sites. This should help alleviate some soreness and bruising, although it may not eliminate it entirely.

Hot Flashes During IVF Injections

- In some cases, women experience hot flashes. A hot flash is a sudden feeling of warmth across the entire body. Usually, it is most noticeable in the face, chest, and neck. You may become red and begin to sweat. After the hot flash has ended, you might even feel a chill due to the loss of body heat.

Nausea

- Nausea is another common IVF side effect. During IVF, nausea may occur for various reasons. It could be a side effect from the medication itself. For some, it may also arise due to the needle being injected. Either way, nausea is common and usually nothing to worry about.

Headache

- An IVF headache is very common in the following hours after injection. In fact, if you tend to experience headaches as your menstrual cycle fluctuates, you may be more at risk of experiencing headaches as a side effect during IVF.

Breast Tenderness

- Breast tenderness is a side effect that many women may have experienced when on birth control or other hormonal contraception. Since fertility drugs contain hormones, IVF may also cause this effect.

Abdominal Bloating

- IVF bloating is similar to what many women experience during their menstrual cycle. Many women experience bloating before or after their period. This bloating may last for hours or several days. It may feel uncomfortable. However, it should not become painful. If this happens, ensure you check in with your doctor or seek out proper care accordingly.

Weight Gain

- The hormones injected during IVF impact your weight and hunger. Thus, you might gain a bit of weight during the IVF process. However, IVF weight gain is nothing to panic about, especially if pregnancy is potentially on the horizon.

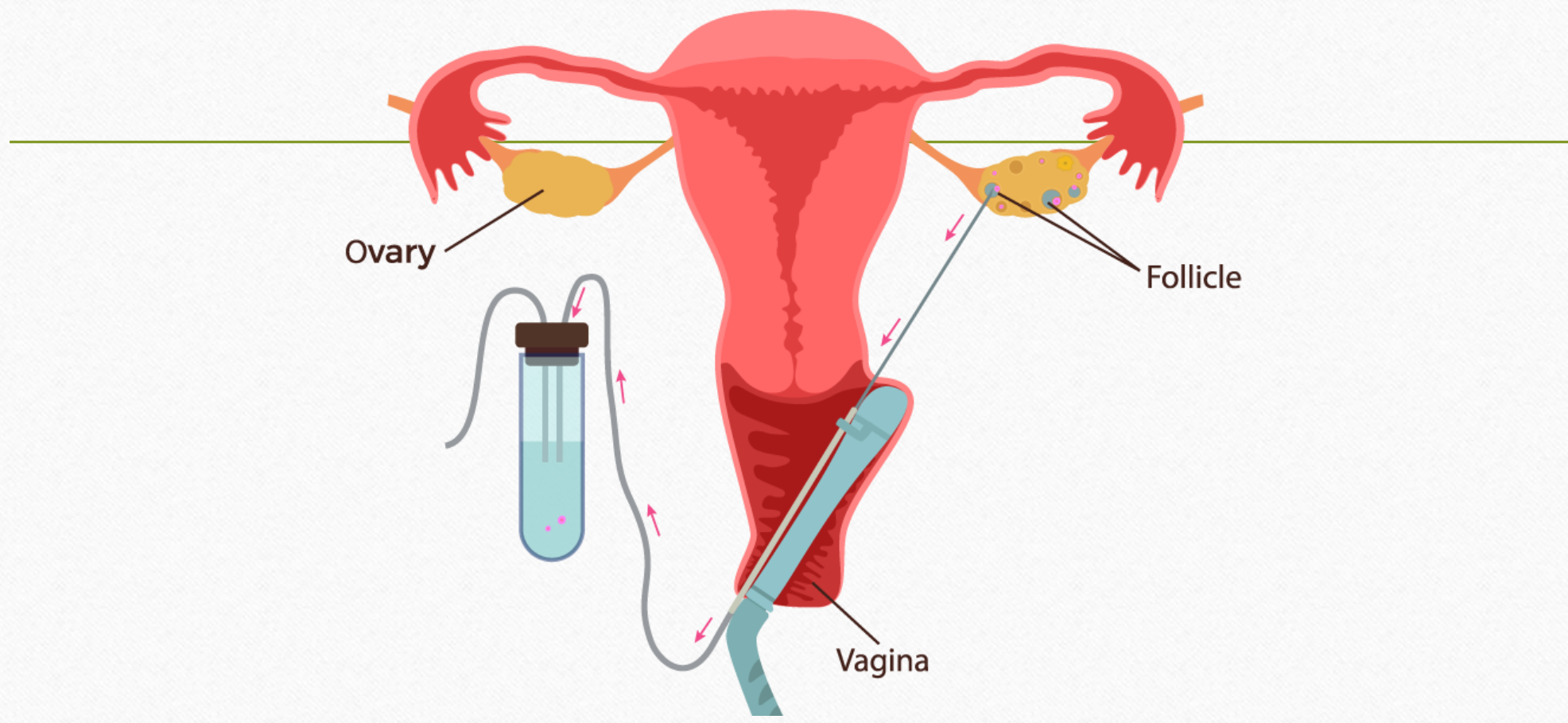
Allergic Reaction

- Although it's uncommon, some women may have an allergic reaction to the injections. This often involves itchiness or redness at the site of injection.

Ovarian Hyper-stimulation Syndrome

- Ovarian Hyper-stimulation Syndrome (OHHS) is an infrequent complication that can occur due to ovarian stimulation during the IVF process. OHHS is when the ovaries swell, leaking fluid into the abdomen. This is very rare. However, it's important to be aware of, since this condition can develop into a serious medical situation that requires hospitalization.

Egg Retrieval Side Effects



Fatigue

- Fatigue is another common side effect. This may happen due to the anesthesia used during this process. Usually, it is recommended to rest afterward, if possible.

Cramping/pain

- IVF cramping is a common side effect after egg retrieval. Usually, many women report this as mild to moderate cramping. This happens because the ovaries become swollen after egg retrieval. Yet, this swelling and cramping should subside within 5-7 days.

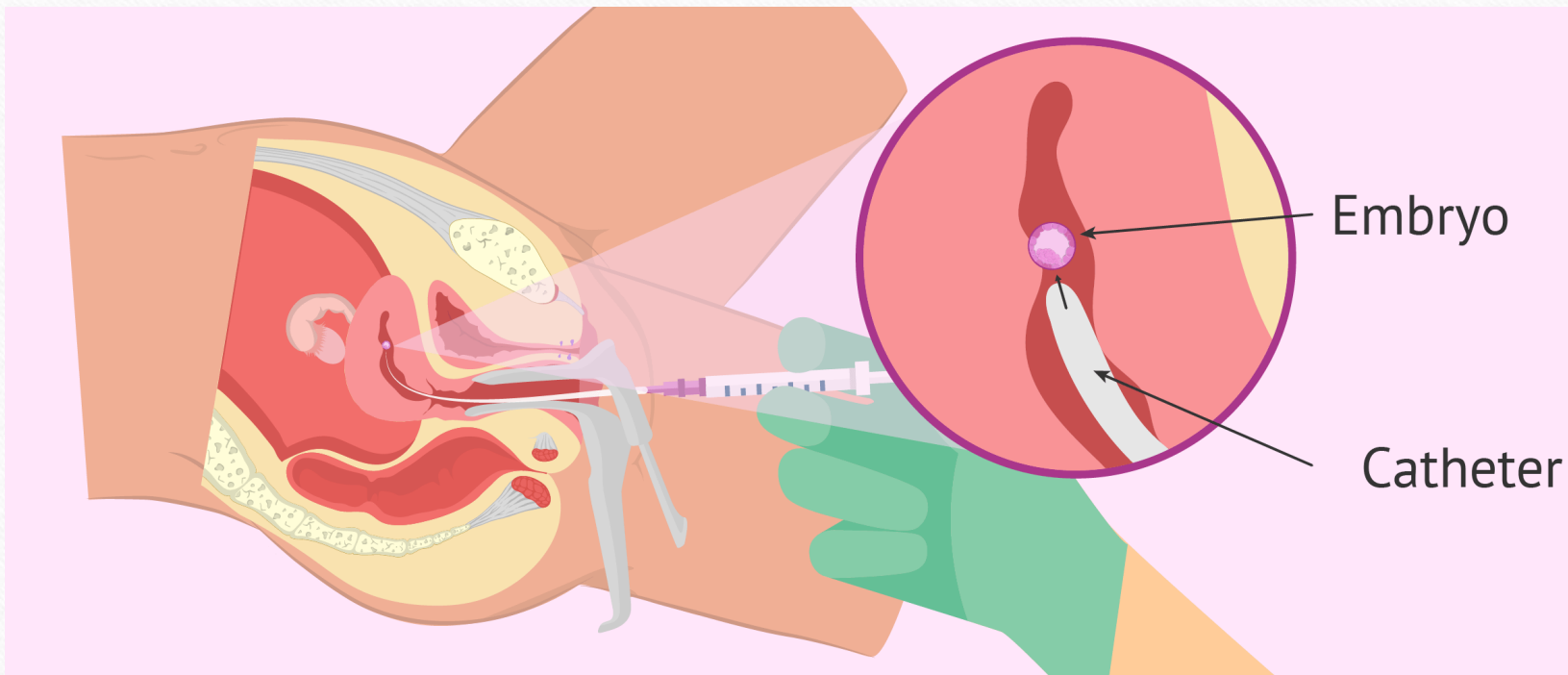
Others...

- Vaginal bleeding
- Intrapertoneal bleeding
- Injury to the surrounding organs

Pelvic Infection

- Infections are very rare side effects after egg retrieval. Yet, they can happen when the needle collecting the eggs spreads bacteria from the vagina or bowel to the abdomen.

Embryo Transfer Side Effects



Embryo

Catheter

Cramping

- Cramping after an embryo transfer is a very normal response. This typically happens within the days after. It can also be a sign of your period is about to start or that pregnancy has occurred.

Breast Tenderness

- Breast tenderness may be due to progesterone. However, it can also happen because the embryo transfer has been successful. During this time, it may help to take over-the-counter pain medications or to wear loose bras or shirts to avoid pressure on the breasts.

Bloating

- Bloating is typical due to excess progesterone in your system. Progesterone often slows down your digestive tract, which may cause you to bloat.

Fatigue

- IVF fatigue may result after an embryo transfer. This may be a side effect of a successful transfer or due to the fertility drugs taken during this time.

Headaches

- Headaches are usually most common in women who experience migraines or headaches at certain parts of their menstrual cycle. However, the surge in hormones can also cause headaches to occur.

Ectopic pregnancy

- Nearly 2 to 5 percent of women who tried IVF have ectopic pregnancies. When the fertilized egg is implanted outside the uterus, usually in the fallopian tube, the egg can't survive.

Others...

- Thromboembolism (rare and mostly associated with a hx of OHSS)
- Adnexal torsion
- Mood swings

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- Multiple pregnancies;
 - Long time effect of art on women;
 - Effect of ART on offspring;

END