



# Information on Artificial Insemination

Artificial insemination (AI) may be used to assist married couples with difficulties in conception due to mild male factors, mild endometriosis or unidentifiable causes. Raw semen samples are used for intravaginal or intracervical insemination. In intrauterine insemination, only washed semen is used.

## What will happen during the treatment cycle?

### 1. Before Insemination

#### If superovulation is required :

- Day 2 : You may be asked to consult the doctor on the 2nd day of your period. A blood test may be undertaken to monitor the hormone level. An ultrasound examination of your uterus and ovaries may be carried out.
- Day 3 : From day 3 or 4 onwards, you may be given oral medication or an injection to stimulate the ovaries.
- Day 8 or Day 9 onwards : Ultrasound scanning may be performed to monitor the ovarian response to the stimulation if necessary. A blood sample may also be taken to monitor the hormone level. When the eggs become mature, you are given an injection to release the eggs for insemination within 36 to 38 hours after injection.

#### If natural cycle is adopted :

Your doctor may suggest using LH kits, blood tests and/ or ultrasound scans to monitor your natural cycle and determine the best timing for insemination.

### 2. On the Day of Insemination

#### Husband :

On the day of insemination, your husband is required to submit a semen sample to the IVF Centre within 2 hours after masturbation. The semen sample is processed and screened in the laboratory to make sure that only normal and active sperms are used for insemination.

#### Women :

During the procedure, you are asked to lie down on an examination table with your knees up, a posture similar to that for a Pap smear test. A speculum is placed inside the vagina and the cervical area is exposed. The washed semen is then injected into the uterus using a small plastic tube.

You are advised to rest in bed for 15 to 20 minutes after insemination. After the treatment, you may be given medication to maintain the level of Progesterone.

You may experience mild bleeding after the procedure.

Blood tests for Progesterone and  $\beta$ HCG may be performed on the 7th day and 14th day after artificial insemination respectively.

If a cycle fails, menstruation will return in about two weeks after insemination. The client can return to the Centre on the second day of her next period for another cycle of treatment.

## Potential Complications of Artificial Insemination in Women

1. Infection
2. Multiple pregnancies if drugs are used to induce ovulation
3. Ovarian Hyperstimulation Syndrome (OHSS).



# 人工授精須知

人工授精適用於治療因男性不育、女性輕微子宮內膜異位症或其他不明原因而難以成孕的夫婦。醫生會使用丈夫的精液，注入陰道內或子宮頸進行人工授精。如要進行宮腔內人工授精，必須使用已清洗的精液。

## 治療週期

### 1. 授精前

#### 如要進行超排卵：

經期第二日： 您或需於經期第二日約見醫生。期間或需施行血液測試荷爾蒙水平，以及接受超聲波掃描檢查子宮及卵巢的情況。

第三日： 自第三或第四日起，您或需服用口服藥物或接受注射，以刺激卵巢。

自第八或第九日起： 您或需按情況覆診，並接受超聲波掃描，監察卵巢對藥物的反應。您亦會因應情況進行驗血，監察荷爾蒙水平。

當卵泡成熟時，您需注射藥物引發排卵，並於注射排卵針後三十六至三十八個小時施行人工授精。

#### 如採用自然週期進行：

醫生會建議使用黃體酮測試紙、血液測試及/或超聲波掃描，觀察你的自然週期，以便選擇最佳時間作人工授精。

### 2. 治療當日

#### 丈夫：

您的丈夫需於自慰後兩小時內，將精液樣本交予體外受孕中心的實驗室進行洗滌，經篩查後保留正常及活躍的精子作人工授精。

#### 女性：

治療進行期間，您需躺在檢查床上，膝頭向上(姿勢與進行柏氏抹片檢查相似)。醫生會將窺器放入陰道，顯示子宮頸的位置，以便利用微型膠管，將已清洗的精液注射入子宮腔內。

程序完成後，您需臥床約十五至二十分鐘，稍作休息。您或會獲發藥物，以穩定黃體酮之水平。

請注意程序完成後，你或會有輕微出血的情況。

您或需於程序施行後第七日及十四日進行驗血，分別測試黃體酮及人類絨毛膜激素之水平。

如未能成功受孕，月經將於治療後兩星期回復正常。您可在下一次經期的第二日再到本中心，接受新一輪的治療。

## 人工授精的潛在併發症(女性)

1. 感染
2. 多胞胎妊娠(如使用藥物促進排卵)
3. 卵巢過度刺激症候群