

# **Basic Infertility Evaluation**

**Department of OB-GYN**

**Dr. Agrusa**

# Definition

- **One year of unprotected intercourse.**
- **Affects 10-15% of couples.**
- **Will affect 1/3rd of women who defer childbearing until mid to late 30's.**

# Causes

- **Ovulatory- 40%**
- **Tubal pathology- 30-40%**
- **Cervical- 10% or less**
- **Male factor- 40%**
- **Unexplained- 10-15%**

# The Investigation

- **Recommended to have both partners present during the initial interview.**
- **Breakdown the components of infertility and organize your notes to comment on each compartment at each clinic visit.**

# History

- **Sexual problems, frequency**
- **Visual complaints**
- **Menarche/cycle length/flow**
- **dysmenorrhea/dyspareunia**
- **Thyroid dysfunction**
- **Nipple discharge**
- **Pelvic infections/surgeries**

# Physical

- **Thyroid**
- **Breasts**
- **Hair pattern**
- **Pelvic and recto-vaginal**

# Components of Infertility

- **Baseline labs**
- **Ovulatory Factor**
- **Male Factor**
- **Tubal/Peritoneal factor**
- **Cervical factor**

# Baseline Labs

- **CBC**
- **UA with culture**
- **Rubella**
- **RPR**
- **TSH**
- **Prolactin**
- **GC/Chlam**
- **Pap smear**
- **Semen Analysis**
- **21-day progesterone**
- **BBT charts**

# Ovulatory Factor

- **Menarche/cycle length/flow**
- **molimina**
- **BBT charts**
- **21-day progesterone**
- **EMB**
- **Role of Clomiphene citrate**

# Male Factor

- **Semen Analysis!!!**
- **May need 2-3 samples before a normal result**
- **Historical factors: injury, surgery, heat exposure, severe allergic reactions, radiation, marijuana, smoking**
- **Role of IUI**

# Semen Analysis

- **2.6 cc**
- **liquefaction < 1hr**
- **pH 7-8**
- **20 million/cc or more**
- **>50% motile**
- **>60% normal forms**

# **Tubal/Peritoneal Factor**

- **PID**
- **Ectopic's**
- **Appendicitis**
- **Dysmenorrhea**

# HSG

- **Outpatient procedure in fluoroscopy suite**
- **Done within first 10 days of cycle**
- **Gives details of uterine anatomy and tubal patency**

# Laparoscopy

- **If HSG is abnormal or unable to do HSG**
- **Lysis of adhesions**
- **Fimbrioplasty**
- **Ablation of endometriosis**
- **Chromopertubation**

# Cervical Factor

- **History of CKC, LEEP, DES exposure**
- **Post-coital test**

# Post-coital Test

- **Done at mid-cycle**
- **2-8 hours after intercourse**
- **Spinnbarkeit**
- **Ferning**
- **Motile sperm**
- **Role of IUI**