### Female Reproductive System

#### Internal Genitalia

<table>
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<tr>
<th>Organs</th>
<th>Gross Anatomy</th>
<th>Info’s</th>
<th>Arterial Supply</th>
<th>Venous Drainage</th>
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<tbody>
<tr>
<td>Ovary</td>
<td></td>
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- **Oval in shape**
- **Location**
  - Behind the Broad Ligament
  - In the Waldeyer fossa on the Lateral Pelvic wall
- **It has**
  - **2 poles**
    - **Upper/Tubal pole**
      - Near the Fallopian tube
  - **Lower/Uterine pole**
    - Near the Uterine
  - **2 surfaces**
    - Medial
    - Lateral
  - **2 borders**
    - Anterior (Hilum is located)
    - Posterior

#### Anatomical Relation

- **Anteriorly**
  - External Iliac vessels
- **Posteriorly**
  - Ureter
  - Internal Iliac vessels
- **Laterally**
  - Obturator nerve (for sensory innervation of the skin of the medial aspect of the thigh)
  - Vessels on the Lateral Pelvic wall

#### Peritoneal Relations and Ligaments

- **Extraperitoneal organ**
  - Covered by Simple Cuboidal Epithelium
- **Ligaments**
  - **Suspensory ligaments**
    - Attached the upper pole of Ovary with the Lateral Wall of Pelvis
  - **Mesovarium ligaments**
    - Attached the Anterior border of Ovary to the back of Broad Ligament
  - **Ovarian ligament**
    - Attached the lower pole to the proximal end of Uterine tube

#### Contents of Broad Ligament

- **Organs**
  - Uterine tube
- **Ligaments**
  - Round ligament
  - Ovarian ligament
- **Vessels**
  - Uterine vessels
  - Ovarian vessels
  - Lymphatic vessels
- **Nerves**
  - Autonomic nerve plexus
- **Others**
  - Connective tissue
  - Epoophoron (remnant of Mesonephric duct)
  - Paraphorron (remnant of Mesonephric tubules)
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| **Uterine Tube/ Fallopian Tube** | - Extends laterally from the Cornua of the Uterus  
  - Medially open into the Uterus  
  - Laterally open into Peritoneal cavity  
  - Lies on the free edge of the Broad Ligament | - 4 parts  
  - **Utterine part**  
    - Lies within the wall of Uterus  
  - **Isthmus**  
    - Narrowest part  
  - **Ampulla**  
    - Widest and longest  
    - Part of fertilization  
  - **Infundibulum**  
    - Funnel shape  
    - Opens into Peritoneal cavity  
    - Has Fimbria | - Lateral part  
  - **Ovarian artery** | - Lateral part  
  - **Right Ovarian vein**  
  - **Inferior Vena Cava**  
  - **Left Ovarian vein**  
  - **Left Renal Vein** | - Medial part  
  - **Uterine artery** | - **Uterine vein** |
| **Uterus** | - Pear shape, hollow muscular organ  
  - Lies inside the pelvic cavity, between  
  - Urinary bladder (anteriorly)  
  - Rectum (posteriorly)  
  - **Normal position**  
  - Anteverted – Anteflexed | - 3 parts  
  - **Fundus**  
    - Rounded upper part  
    - Entrance of Uterine tube  
  - **Body**  
    - The largest part  
    - Constricted area called the Isthmus separates body of Uterus with Cervix  
  - **Cervix**  
    - Has 2 parts  
    - Intravaginal  
    - Extravaginal  
    - Most fixedly located  
    - Cylindrical in shape  
    - **UTERINE ARTERY passes the URETER just LATERAL to the CERVIX**  
  - **Uterine cavity**  
    - Cervical cavity is separated  
    - From the body of Uterus by Internal Orifices  
    - From the Vagina by the External Orifices | - **Uterine Artery**  
  - **Internal Iliac Artery** | - **Internal Iliac vein** |

### Support of the Uterus
- Funnel shape Pelvic cavity  
- Pelvic and Urogenital Diaphragm  
- Ligaments  
- Blood vessels  
- Surrounding structures  
- Position of the Uterus  
  - Anteverted – Anteflexed
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| Vagina | • Fibromuscular tube  
         • Directed  
           o Upwards  
           o Backwards  
         • Opening  
           o Superiorly to the Cervix  
           o Inferiorly to the Vestibule of Vagina  
         • Anterior wall shorter than posterior wall | • Protrusion of Cervix into Vagina form 4 small spaces called  
           o Anterior Fornix  
           o Posterior Fornix (the deepest)  
           o 2 Lateral Fornices  
         • Anatomical relation  
           o Anterior  
             ▪ Base of the bladder  
             ▪ Urethra  
           o Posteriorly  
             ▪ Rectum  
           o Laterally  
             ▪ Pelvic diaphragm  
             ▪ Urogenital diaphragm  
             ▪ Bulbospongiosus muscle | Upper part  
         • Vaginal artery  
         • Uterine artery  
         Lower part  
         • Internal Pudendal artery | Upper part  
         • Vaginal vein  
         • Uterine vein  
         Lower part  
         • Internal Pudendal vein |