

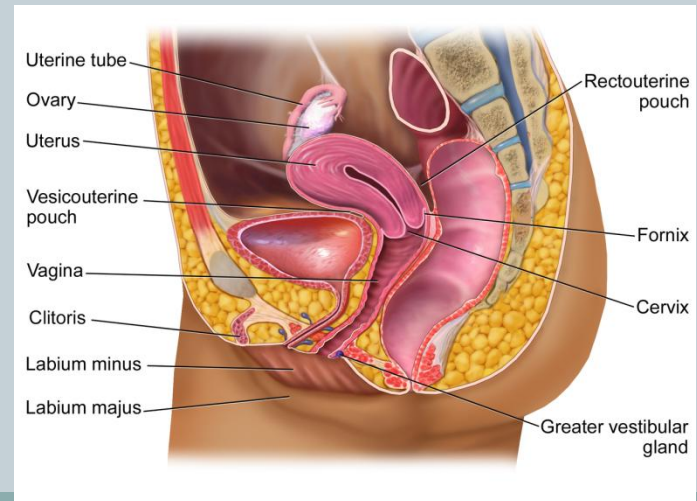
Lower Urinary Tract Catheterization



Source: Campbell-Walsh-Wein Urology,
13th Edition, Chapter 15

Anatomic Considerations: Female Urethra

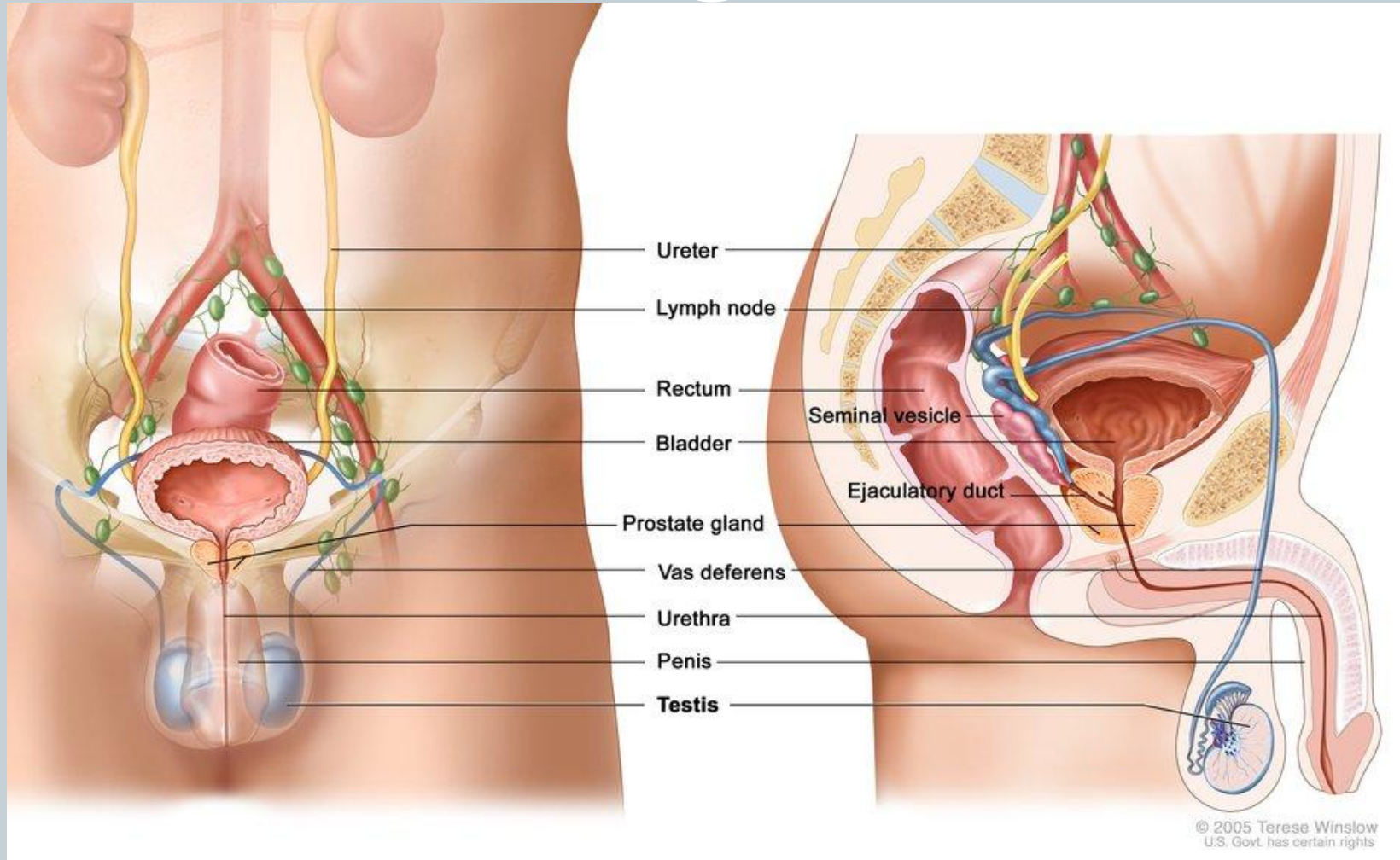
- **Length:** Approximately 4 cm in length.
- **Location:** Present within the anterior vagina.
- **Caliber:** The normal caliber is similar to that of the male urethra



Anatomic Considerations: Male Urethra



- **Length:** Approximately 18 to 20 cm long.
- **Subdivisions (International Consultation on Urological Diseases, 2010):**
 - Urethral meatus
 - Fossa navicularis
 - Penile urethra
 - Bulbar urethra
 - Membranous urethra
 - Prostatic urethra
 - Bladder neck
- **Average Caliber Accommodation:**
 - Normal male meatus: should accommodate a **24-Fr instrument or catheter**



Indications for Lower Urinary Tract Drainage



- **Temporary Urinary Drainage (Straight Catheterization):**
 - Acute urinary retention
 - Sterile acquisition of urine (especially in children or females)
- **Indwelling Catheter Placement (Common Indications):**
 - Acute urinary retention
 - Chronic urinary retention
 - Incomplete bladder emptying
 - Gross haematuria and clot retention
 - Urosepsis with incomplete emptying
 - High-pressure voiding or high-pressure bladder (poor compliance)
 - Immobility
 - Use in lengthy surgical procedures
 - Clinical situations requiring strict output monitoring

Contraindications for Urethral Catheter Placement



- **Absolute Contraindications:**

- **Known or suspected urethral injury.**

- **Suspected patients:** trauma with pelvic fracture, gross haematuria, blood at the urethral meatus, perineal ecchymosis, and a "high-riding" prostate on DRE.

- **Urethral stricture disease:** may require additional techniques

Age of Child | Straight Catheter (French gauge)



- Newborn | 4.0–6.0 | 6.0
- 1–11 Months | 6.0–8.0 | 6.0–8.0
- 12–23 Months | 8.0 | 8.0
- 2–6 Years | 10.0 | 8.0–10.0
- 7–12 Years | 10.0–12.0 | 12.0–14.0

Preparation for Urethral Catheterization



- **Essential Supplies (Usually in a Catheter Kit/Tray):**
 - **Sterile gloves**
 - Catheter (appropriate size and type)
 - **Sterile lubricant**
 - **Antiseptic solution**
 - **Sterile drapes**
 - Sterile water (for balloon inflation)
 - Collection bag with tubing

**I HAVE A
UROLOGY JOKE,
BUT
I HAVE SOME
HESITANCY
IN TELLING IT.**



**THANK
YOU !!**

