

1. MALE UROGENITAL SINUS - terminology

DIVISIONS OF MALE UROGENITAL SINUS:

Urorectal septum divides cloaca into anorectum and primitive urogenital sinus (UGS).

Upper border of the sinus tubercle (Müllerian eminence) divides the primitive urogenital sinus into *vesicourethral canal* and *definitive urogenital sinus*.

Primitive urogenital sinus:

- a) *Vesicourethral canal*
- b) *Definitive urogenital sinus (vestibule/urethra)*

Vesicourethral canal:

- a) *Upper part:* allantoic diverticulum (urachus)
- b) *Middle part:* urinary bladder, prostatic urethra.
- c) *Lower part:* bladder neck, prostatic urethra.

Vestibule/urethra:

- a) *Pelvic part:* membranous urethra (endoderm)
- b) *Perineal part:* bulbar urethra (endoderm)
- c) *Phallic part:* penile urethra, fossa navicularis / 'glanular' urethra (endoderm),
- d) *Outlet:* inner surfaces of labia and dorsal commissure of labia of the glans penis (ectoderm)

Note:

Labia of the glans penis develop from the **unfused distal end of the** vestibular/urethral folds, and dorsal commissure of the labia of the glans (*ectoderm*).

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