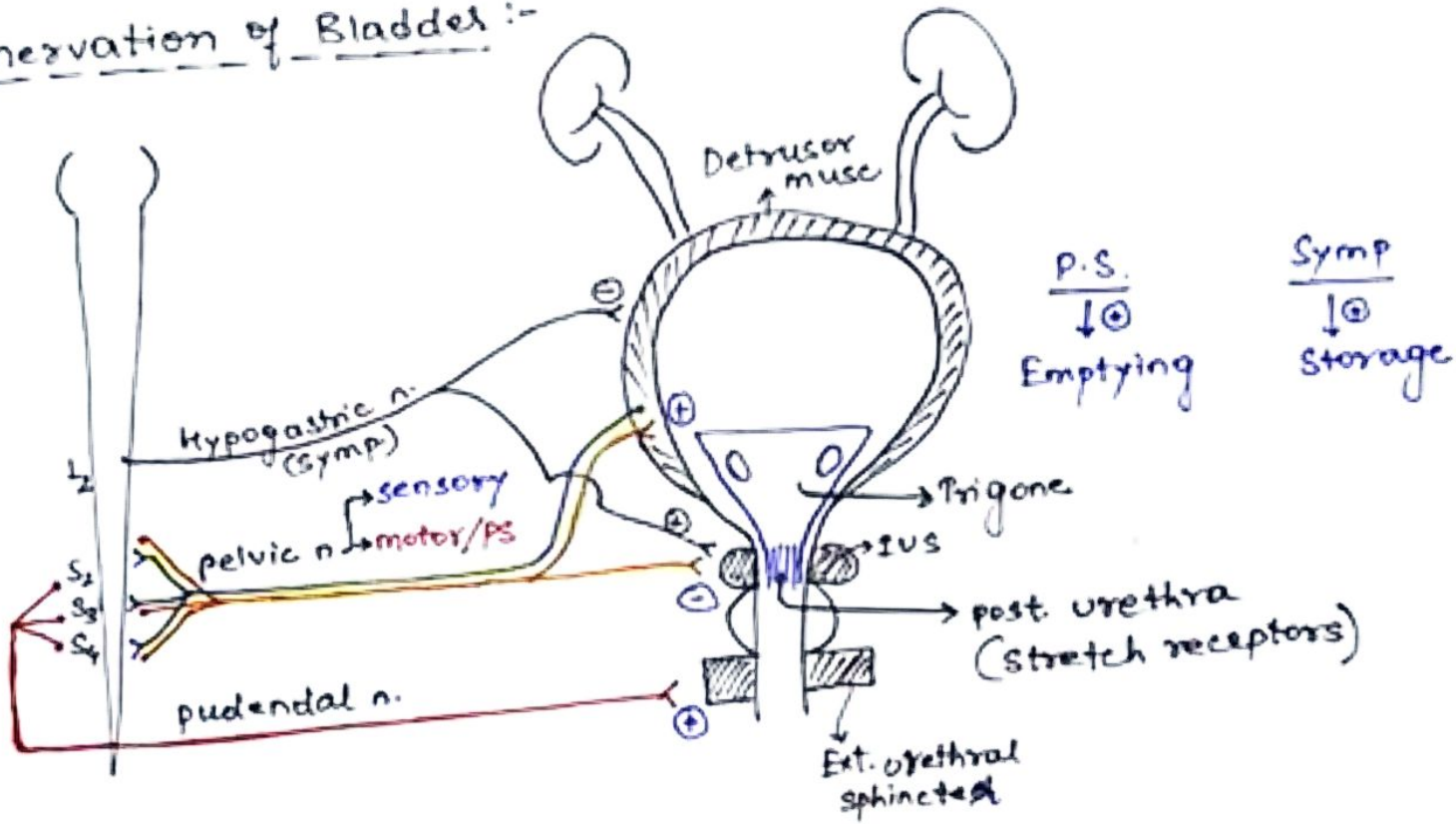
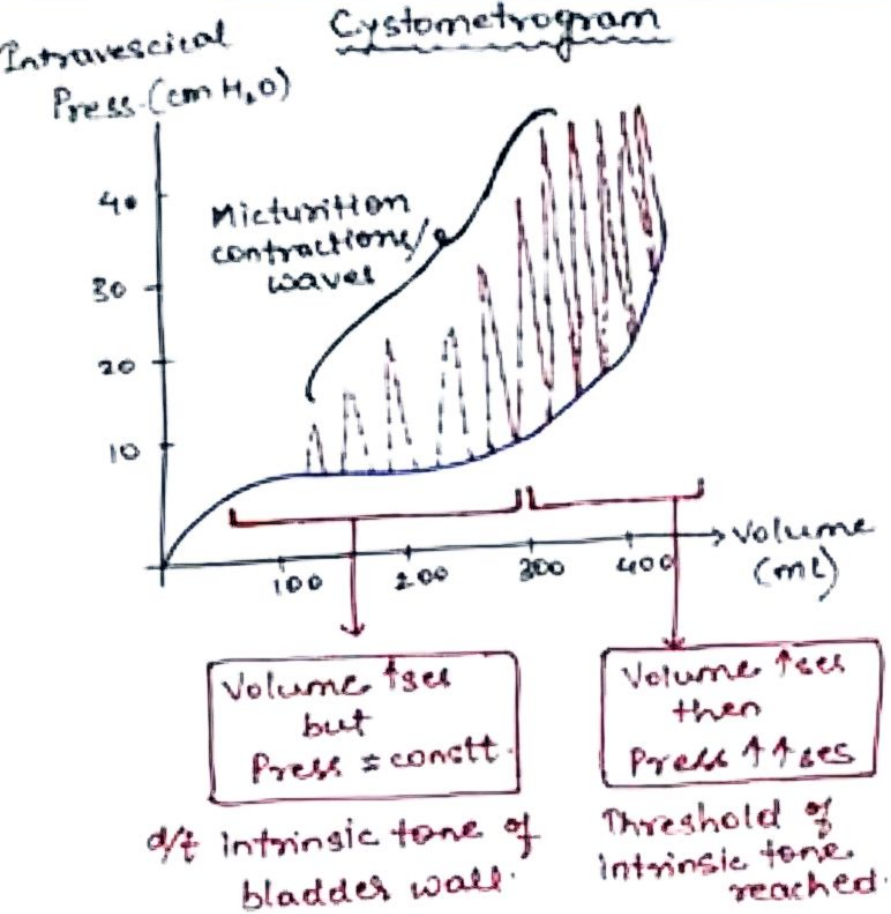
MICTURITION

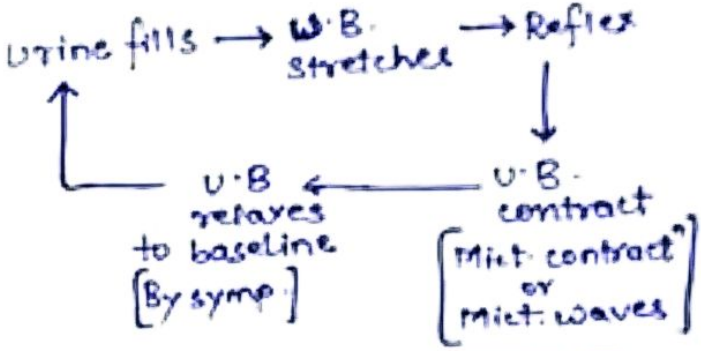
- process of emptying urinary bladder

Innervation of Bladder :-

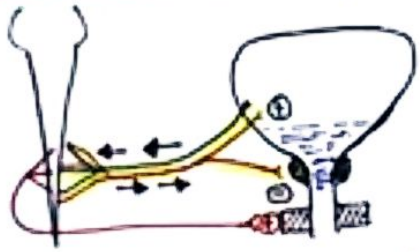


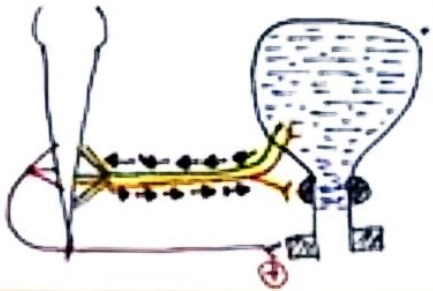
Cystometrogram



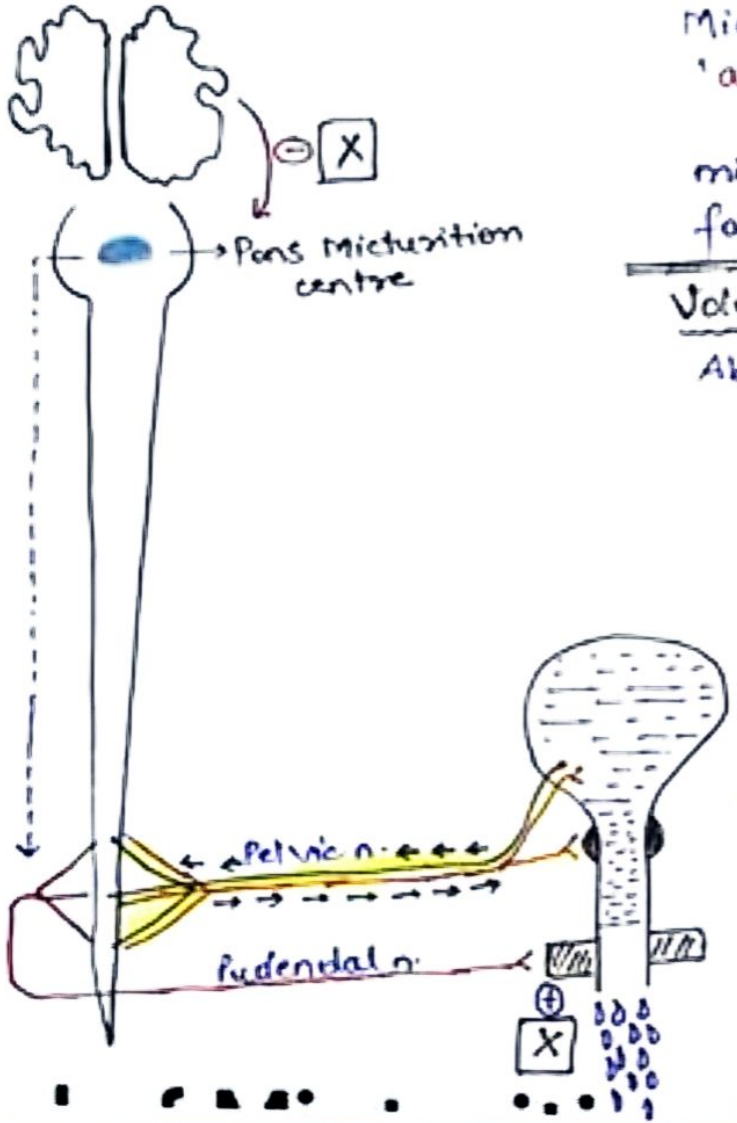


∵ Micturition reflex is 'self regenerative'





- freq. ↑
- intensity ↑



Micturition reflex is an 'autonomic Spinal cord reflex' but micturition is inhibited or facilitated by 'brain'

Voluntary urination:-

Abdominal muscle contracts
↓
Bladder pressure
↓
More urine in post urethra
↓
Used Stretching
↓
Micturition reflex
↓
Brain decides to urinate by releasing inhibition from PMC
↓
⊖ of Pudendal n.
↓
EUS relaxes
↓
Voiding.

Abnormalities of micturition:-

Atonic bladder ⇒ Sensory n. fibres damage
↓
No micturition reflex
↓
Bladder filling & overflow
↓
'Overflow incontinence'

Automatic bladder ⇒ S.C. above sacrum damaged
↓
micturition reflex ✓
Inhibitory control of brain ✗
} → frequent micturition.

Unhibited neurogenic bladder ⇒ S.C./Brainstem damaged
↓
micturition reflex ✓
Inhibitory control of brain ✗
} → frequent & uncontrolled micturition