



By:
Mohamad Alaa,
M.Sc.
Department of
Dermatology,
Venereology and
Andrology
Sohag University

Andrology
Part 2:
Male
sexual
dysfunction

Topic outlines

1. Sexual function and dysfunction.

2. Anatomy and physiology.

3. Erectile dysfunction:

- Definition - Prevalence - Etiology -Diagnosis - Treatment

4. Premature ejaculation:

- Definition - Prevalence - Etiology -Diagnosis - Treatment

Function

Sexual
desire

Erection

Orgasm

Ejaculation

- Hypoactive sexual desire

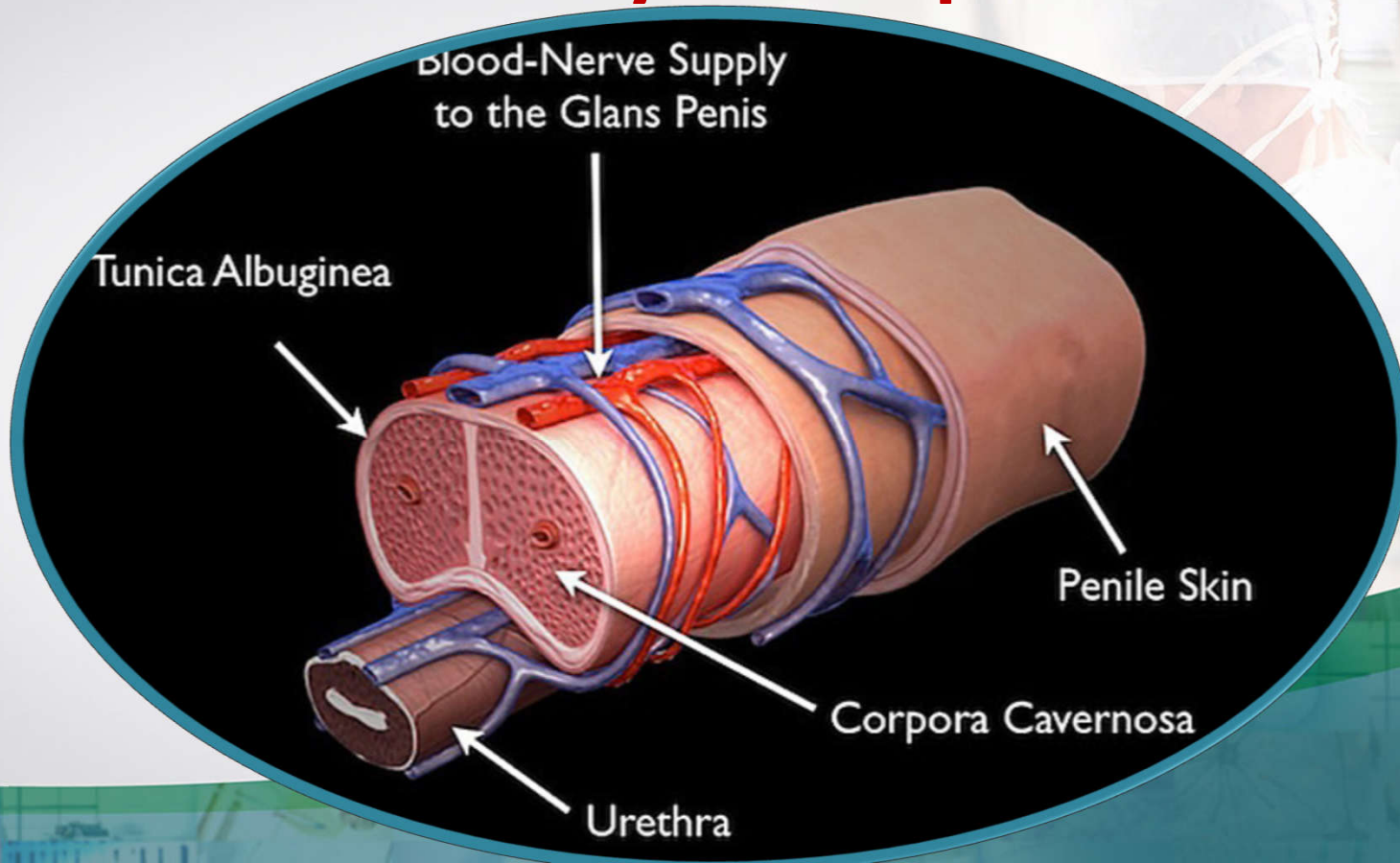
- Erectile dysfunction
- Prolonged erection & priapism

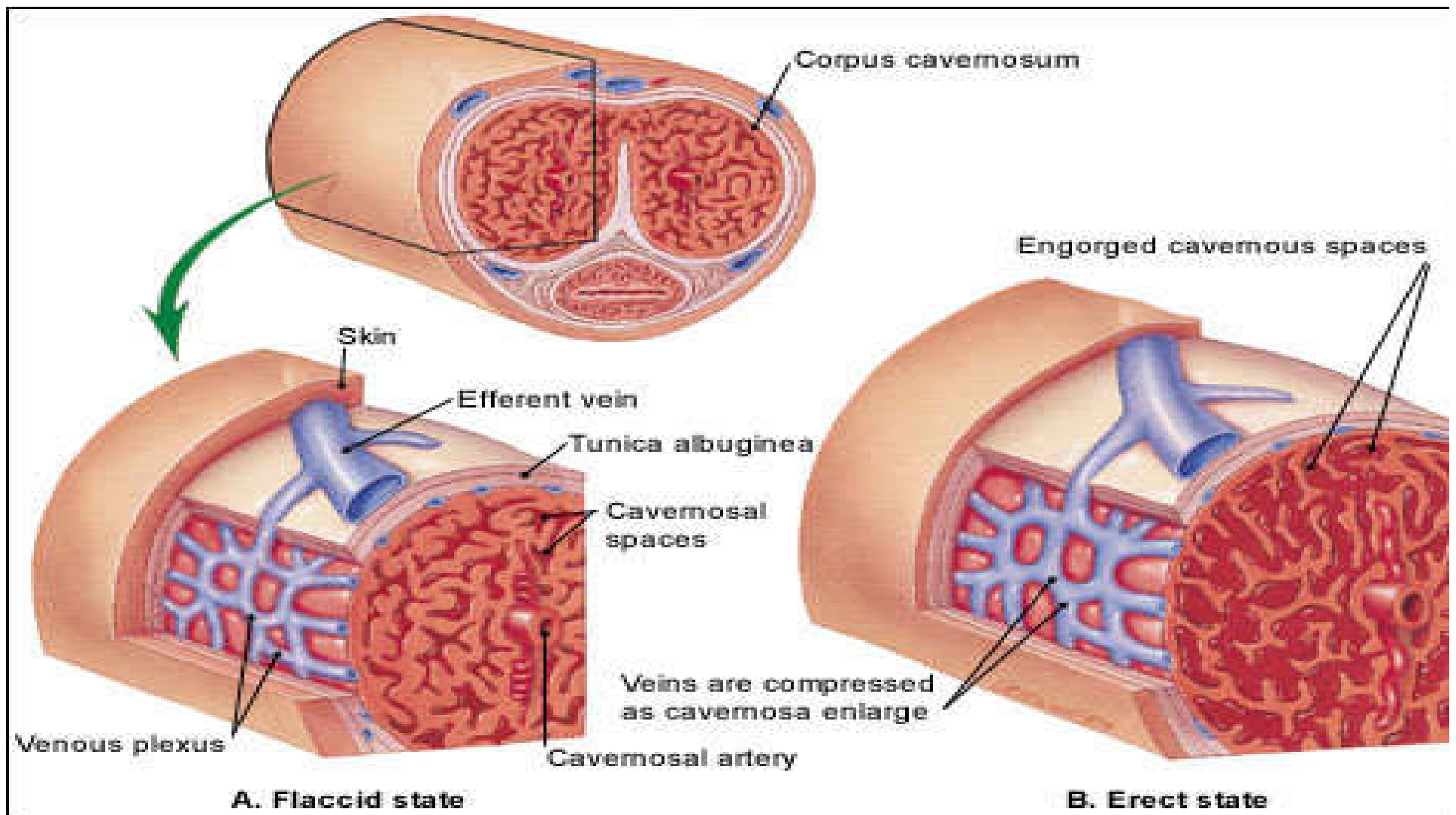
- Weak orgasm
- Anorgasmia

- Premature ejaculation
- Delayed ejaculation & Anejaculation
- Dysejaculation
- Retrograde ejaculation

Dysfunction

Anatomy of the penis





Physiology of erection

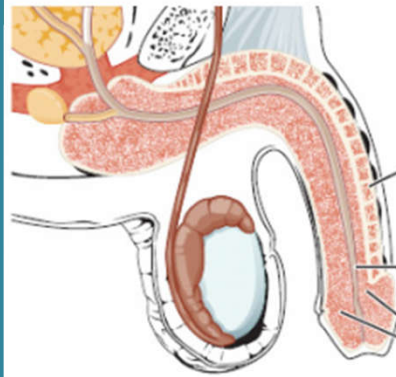
✓ **Erection:**

Tumescence and rigidity of the penis.

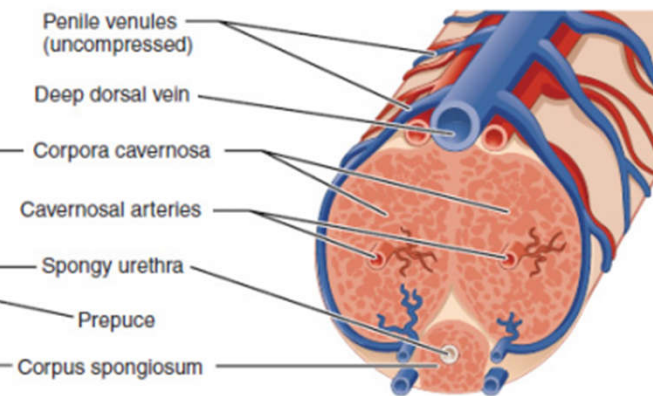
✓ **Mechanism:**

- A) Neuromuscular**
- B) Vascular**
- C) Hormonal**

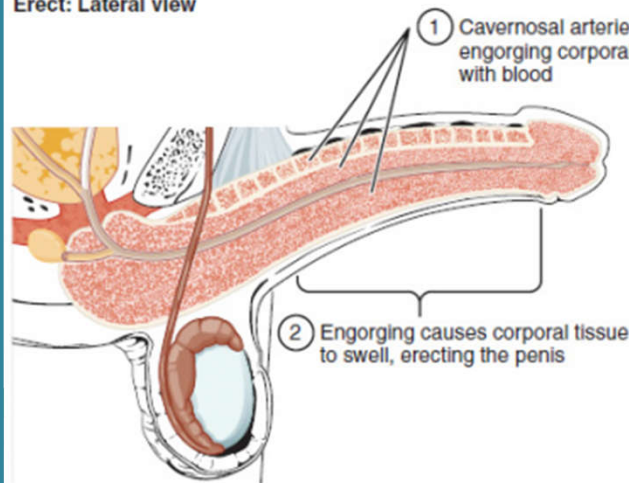
Flaccid: Lateral view



Flaccid: Transverse view



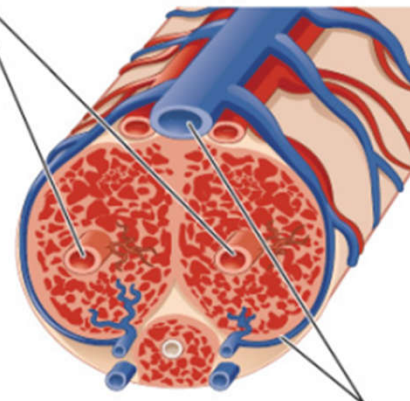
Erect: Lateral view



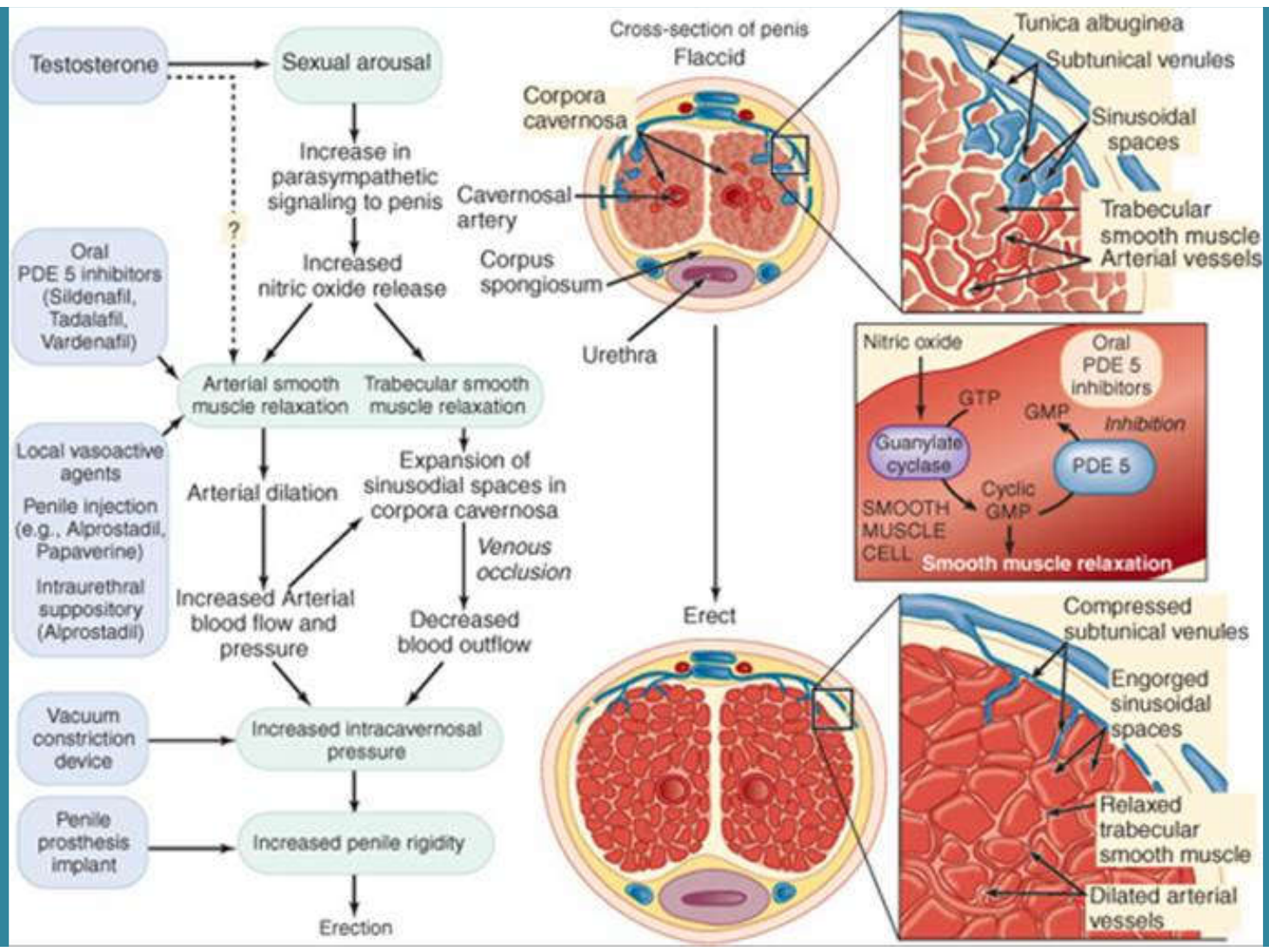
① Cavernosal arteries dilate, engorging corporal tissue with blood

② Engorging causes corporal tissue to swell, erecting the penis

Erect: Transverse view



③ Engorged corporal tissue compresses penile veins and venules, maintaining erection



Definition:

ED is the recurrent or consistent inability to obtain or maintain an erection for satisfactory sexual intercourse.

Q: Why it is important to study Erectile dysfunction?

Etiology:

- 1) Psychogenic E.D.**
- 2) Organic E.D.**
- 3) Mixed psychogenic and organic E.D.**

Psychogenic E.D.

Etiology:

1) Master's and Johnson's classification

- . Developmental
- . Cognitive
- . Interpersonal
- . Neurotic

2) Lue's classification

- . Anxiety
- . Depression
- . Marital disorders
- . Misinformation
- . Psychotic disorders

Organic E.D.

Etiology:

- . Endocrinal
- . Medical
- . Neurogenic
- . Vasculogenic
- . Penile

Diagnosis of E.D:

- A) Detailed history (medical & sexual)
- B) Detailed examination (general & genital)
- C) Differentiation between organic & psychogenic
 - * ICI test.
 - * Nocturnal erection monitoring.
- D) Detection of underlying causes

Investigations:

- * Hormonal assay and blood sugar
- * ICI (Papverine, Phentolamine and PGE1)
- * Color doppler sonography
- * RigiScan
- * Cavernosometry and Cavernosography

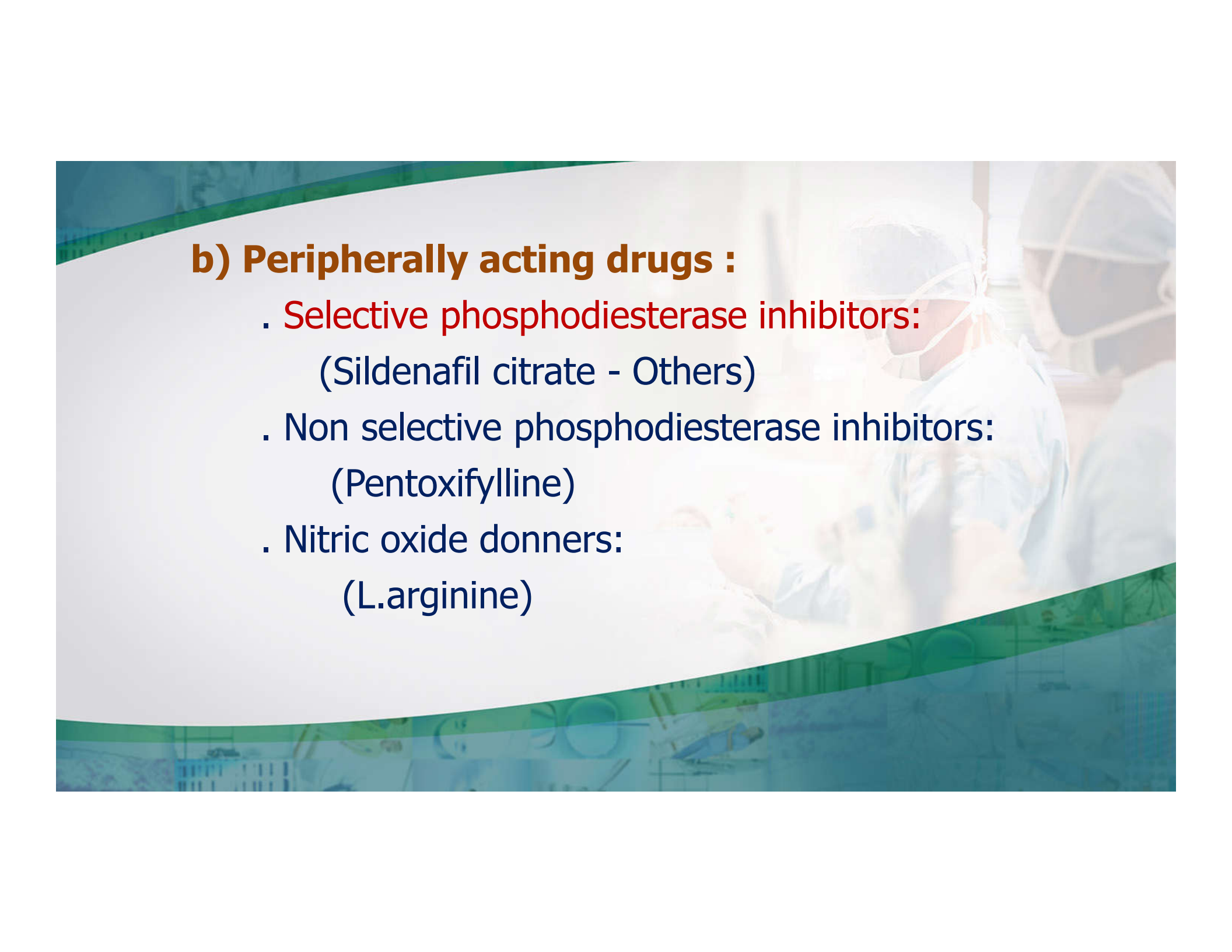
Treatment of E.D.

A) Medical therapy:

1) Oral therapy:

a) Centrally acting drugs:

- . Adrenergic antagonists:
(Yohimbine, Phentolamine)
- . Serotonergic agonists:
(Trazodone)
- . Dopaminergic agonists:
(Apomorphine)

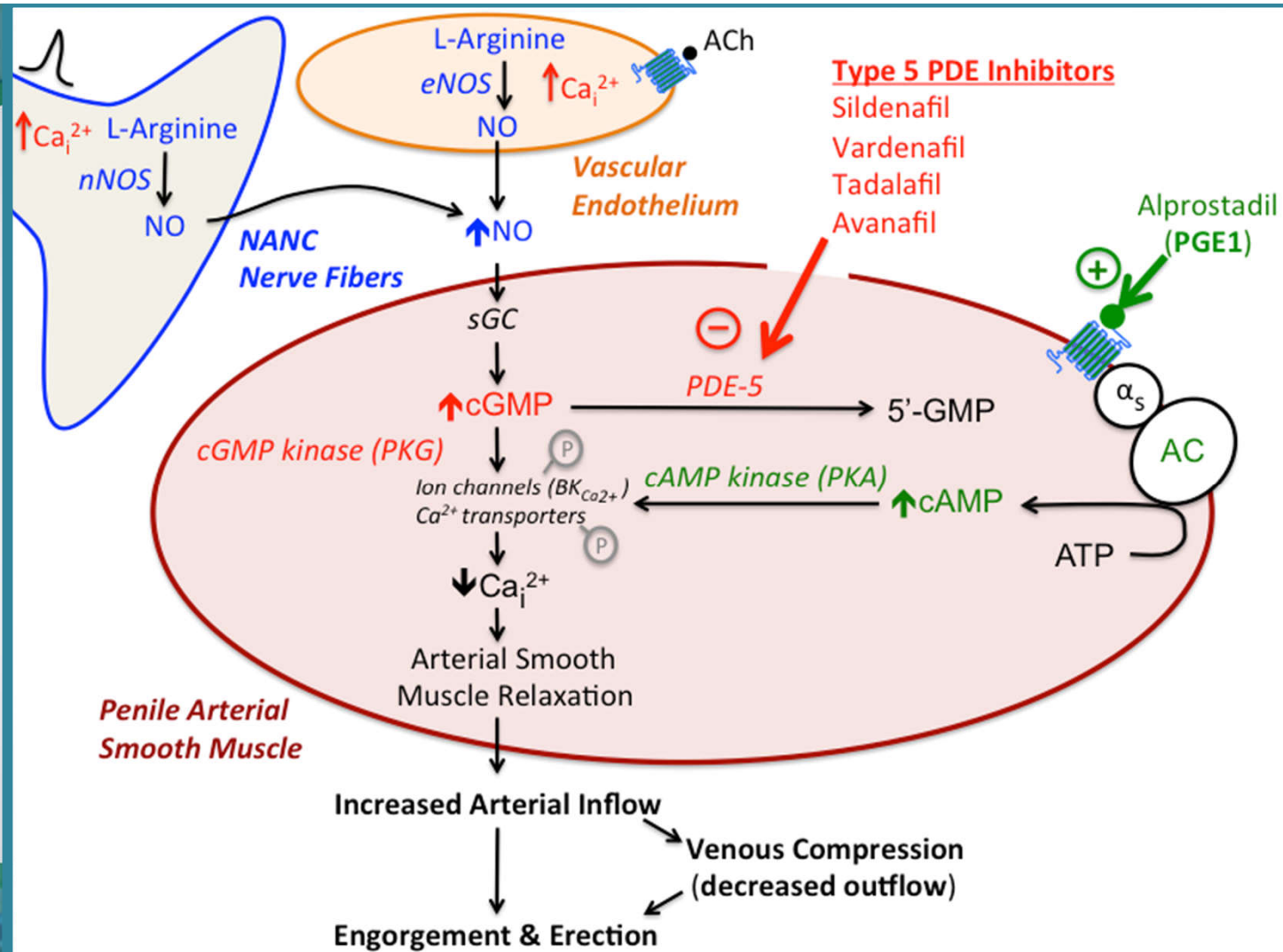


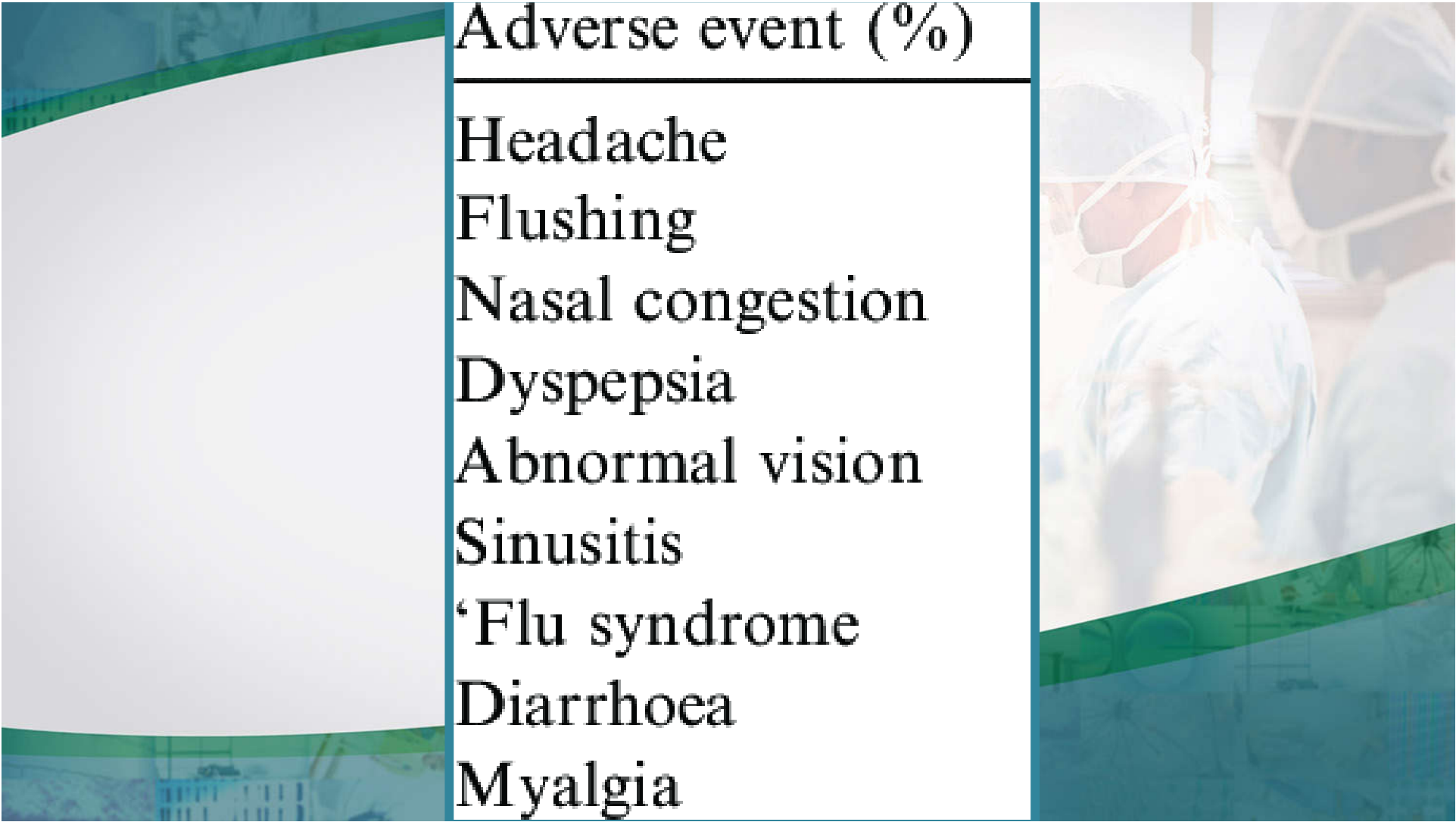
b) Peripherally acting drugs :

- . **Selective phosphodiesterase inhibitors:**
(Sildenafil citrate - Others)
- . Non selective phosphodiesterase inhibitors:
(Pentoxifylline)
- . Nitric oxide donors:
(L.arginine)

PDE5is

- 1) Mechanism of action**
- 2) Members**
- 3) Indications**
- 4) Side effects and contraindication**
- 5) Administration**





Adverse event (%)

Headache

Flushing

Nasal congestion

Dyspepsia

Abnormal vision

Sinusitis

‘Flu syndrome

Diarrhoea

Myalgia

2) Local therapy:

a) Transdermal therapy

(Nitroglycerine, Minoxidil, Papavarine gel)

b) Intraurethral therapy

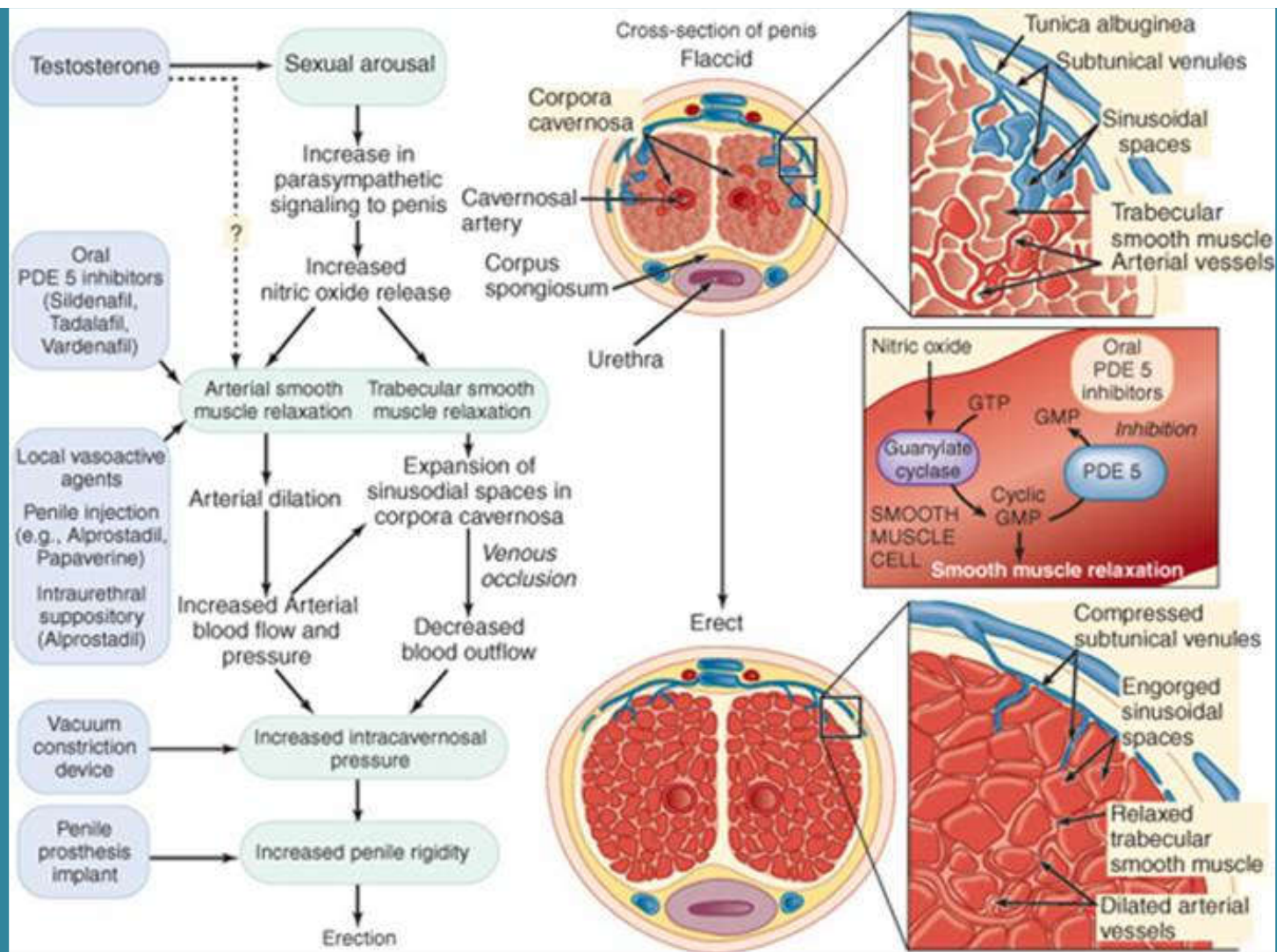
3) ICI

(Papverine, Phentolamine, PGE1)



B- Vacuum constriction devices

C- Surgical therapy



Premature ejaculation

- **Definition**
- **Clinical types**
- **IELT**
- **Causes**
- **Treatment**

THANK
YOU

