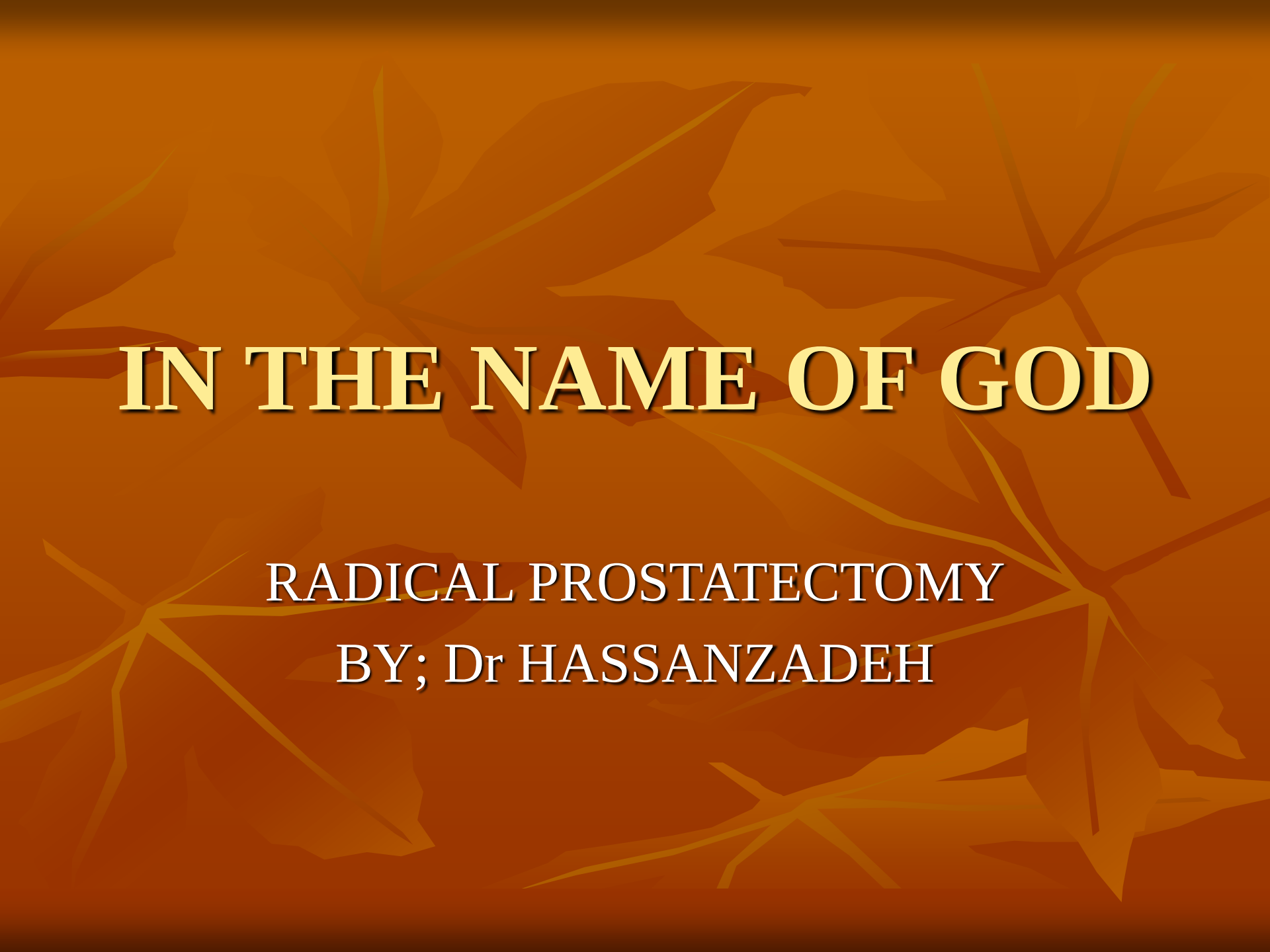


The background of the slide features a pattern of stylized, overlapping leaves in various shades of orange and yellow, creating a warm, autumnal feel.

IN THE NAME OF GOD

RADICAL PROSTATECTOMY

BY; Dr HASSANZADEH

Ca.P

- Age
- Blacks
- Diet
- Androgen
- Vasectomy
- Cigarette
- Sexual

Diagnosis

- DRE
- PSA
- Biopsy
- PSA density
- PSAvelocity
- Free/total PSA

Table 94-5. Prostate Cancer Staging Systems

TNM		Description	Whitmore-Jewett	Description
1997	1992			
TX	TX	Primary tumor cannot be assessed	None*	None
T0	T0	No evidence of primary tumor	None	None
T1	T1	Nonpalpable tumor—not evident by imaging	A	Same as TNM
T1a	T1a	Tumor found in tissue removed at TUR; 5% or less is cancerous and histologic grade <7	A1	Same as TNM
T1b	T1b	Tumor found in tissue removed at TUR; >5% is cancerous or histologic grade >7	A2	Same as TNM
T1c	T1c	Tumor identified by prostate needle biopsy due to elevation in PSA	None	None
T2	T2	Palpable tumor confined to the prostate	B	Same as TNM
T2a	T2a	Tumor involves one lobe or less	B1	Same as TNM
		Tumor involves less than half of one lobe	B1N	Tumor involves half of lobe—surrounded by normal tissue on all sides
T2b	T2b	Tumor involves more than one lobe	B2	Same as TNM
		Tumor involves more than half of a lobe but not both lobes	B1	Same as TNM
None	T2c	Tumor involves more than one lobe	B2	Same as TNM
T3	T3	Palpable tumor beyond prostate	C1	Tumor <6 cm in diameter
T3a	T3a	Unilateral extracapsular extension	C1	Same as TNM
T3b	T3b	Bilateral extracapsular extension	C1	Same as TNM
T3c	T3c	Tumor invades seminal vesicle(s)	C1	Same as TNM
T4	T4	Tumor is fixed or invades adjacent structures (not seminal vesicles)	C2	Same as TNM
T4a	T4a	Tumor invades bladder neck, external sphincter, and/or rectum	C2	Same as TNM
T4b	T4b	Tumor invades levator muscle and/or fixed to pelvic wall	C2	Same as TNM
N(+)	N(+)	Involvement of regional lymph nodes	D1	Same as TNM
None	None	None	D0	Elevated prostatic acid phosphatase
NX	NX	Regional lymph nodes cannot be assessed	None	None
N0	N0	No lymph node metastases	None	None
N1	N1	Metastases in single regional lymph node, ≤2 cm in dimension	D1	Same as TNM
N2	N2	Metastases in single (>2 but ≤5 cm) or multiple with none >5 cm	D1	Same as TNM
N3	N3	Metastases in regional lymph node >5 cm in dimension	D1	Same as TNM
M(+)	M(+)	Distant metastatic spread	D2	Same as TNM
MX	MX	Distant metastases cannot be assessed	None	None
M0	M0	No evidence of distant metastases	None	None
M1	M1	Distant metastases	D2	Same as TNM
M1a	M1a	Involvement of nonregional lymph nodes	D2	Same as TNM
M1b	M1b	Involvement of bones	D2	Same as TNM
M1c	M1c	Involvement of other distant sites	D2	Same as TNM
None	None	None	D3	Hormonal refractory disease

TNM, tumor, node, metastasis; TUR, transurethral resection.



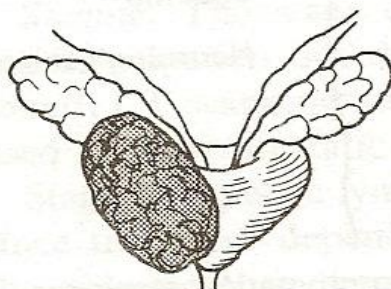
T₀ — No tumour palpable (incidental carcinoma)



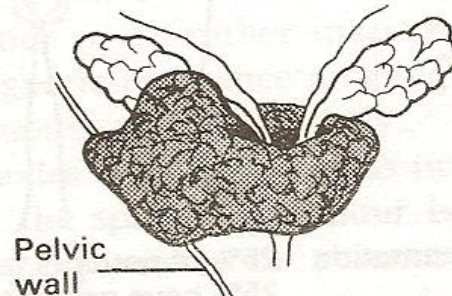
T₁ — Intracapsular nodule, surrounded by normal gland



T₂ — Intracapsular nodule that deforms the gland



T₃ — Extension beyond the capsule



T₄ — Fixed to neighbouring structures

INCIDENCE OF POSITIVE PELVIC LYMPH NODES

T Category	%
T ₀ (focal)	0
T ₀ (diffuse)	20
T ₁	15
T ₂	30
T ₃	50
T ₄	85

Fig. 17.9 T staging for carcinoma of prostate

SYMPTOMS

'Prostatism'	70%
Acute retention	25%
Back pain	15%
Haematuria	5%
Uraemia	5%
Anuria	1%

Also:

weight loss & fatigue
perineal pain
haemospermia
constipation
paraplegia

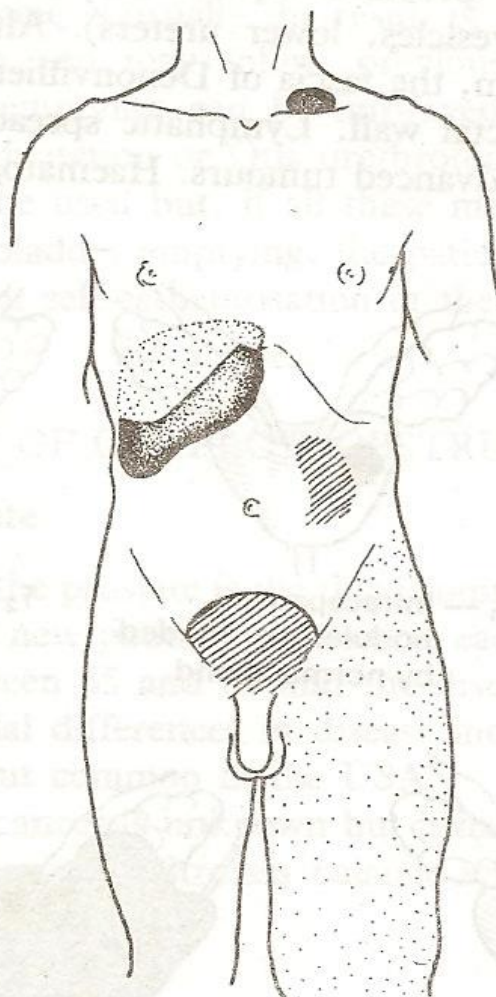
EXAMINATION

Anaemia
Supraclavicular nodes
Enlarged liver
Palpable hydronephrosis
Vertebral tenderness
Palpable bladder
PR — local extent of tumour (T-stage)

Swollen leg from
iliac vein occlusion

Penile and scrotal
oedema

Neurological signs



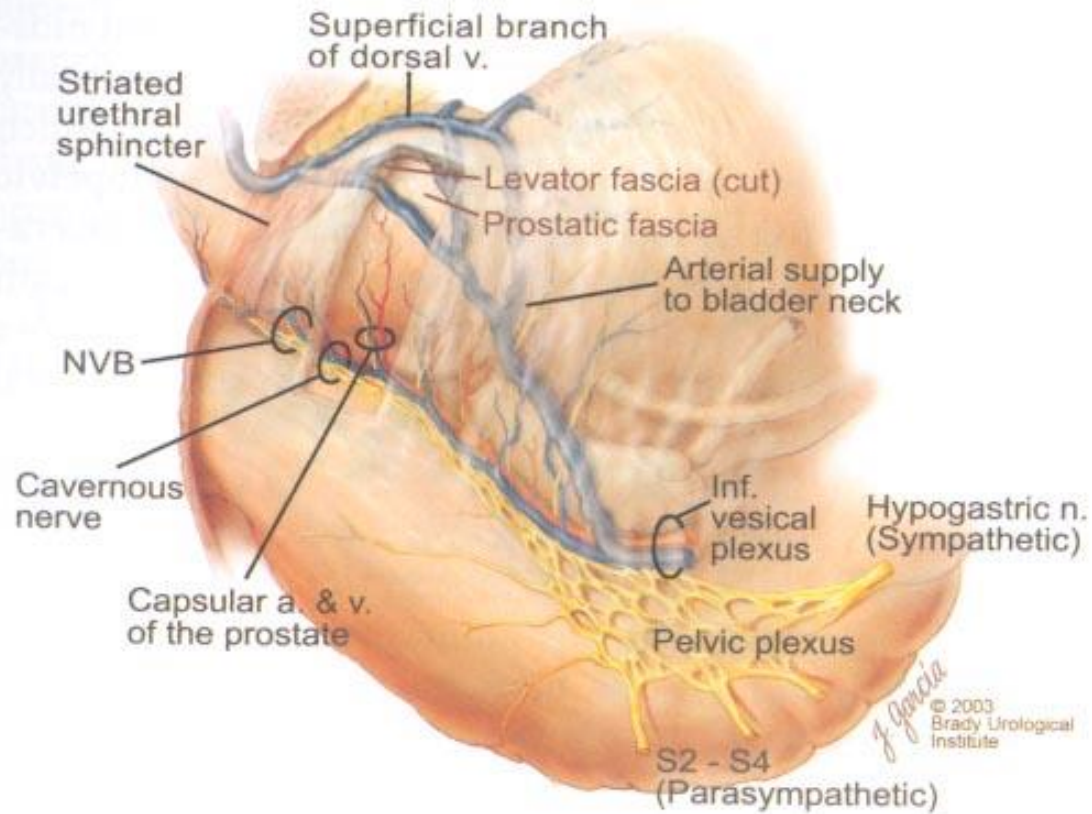
At presentation 25% of patients have symptomatic metastases
25% have asymptomatic metastases

Fig. 17.10 Clinical features in carcinoma of the prostate

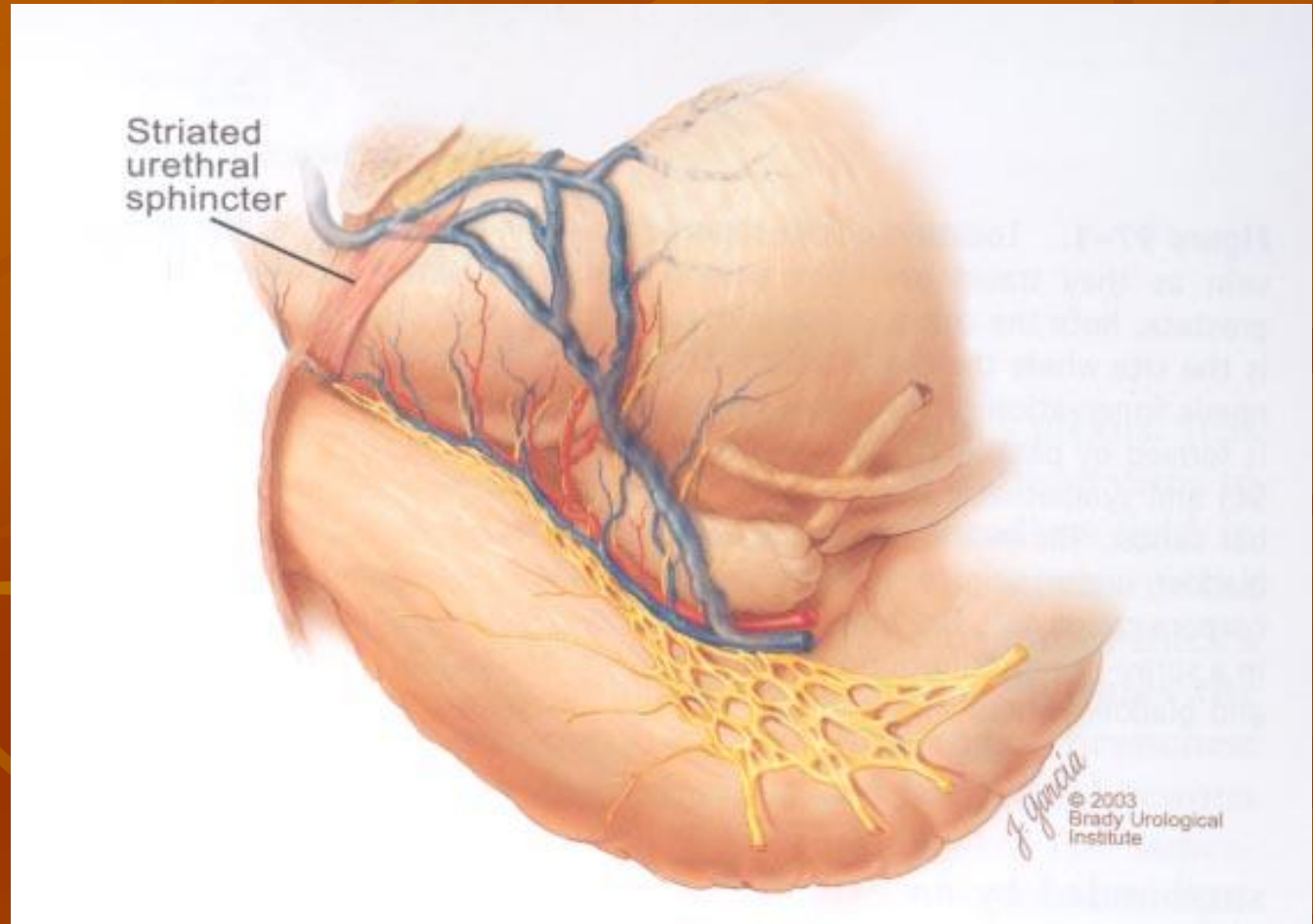
TREATMENT

- Watchful waiting
- Radical prostatectomy
- Radiotherapy
- Androgen deprivation
- castration
- medical castration; estrogen, LHRH agonist
- block in target cell anti-androgens
- MAB

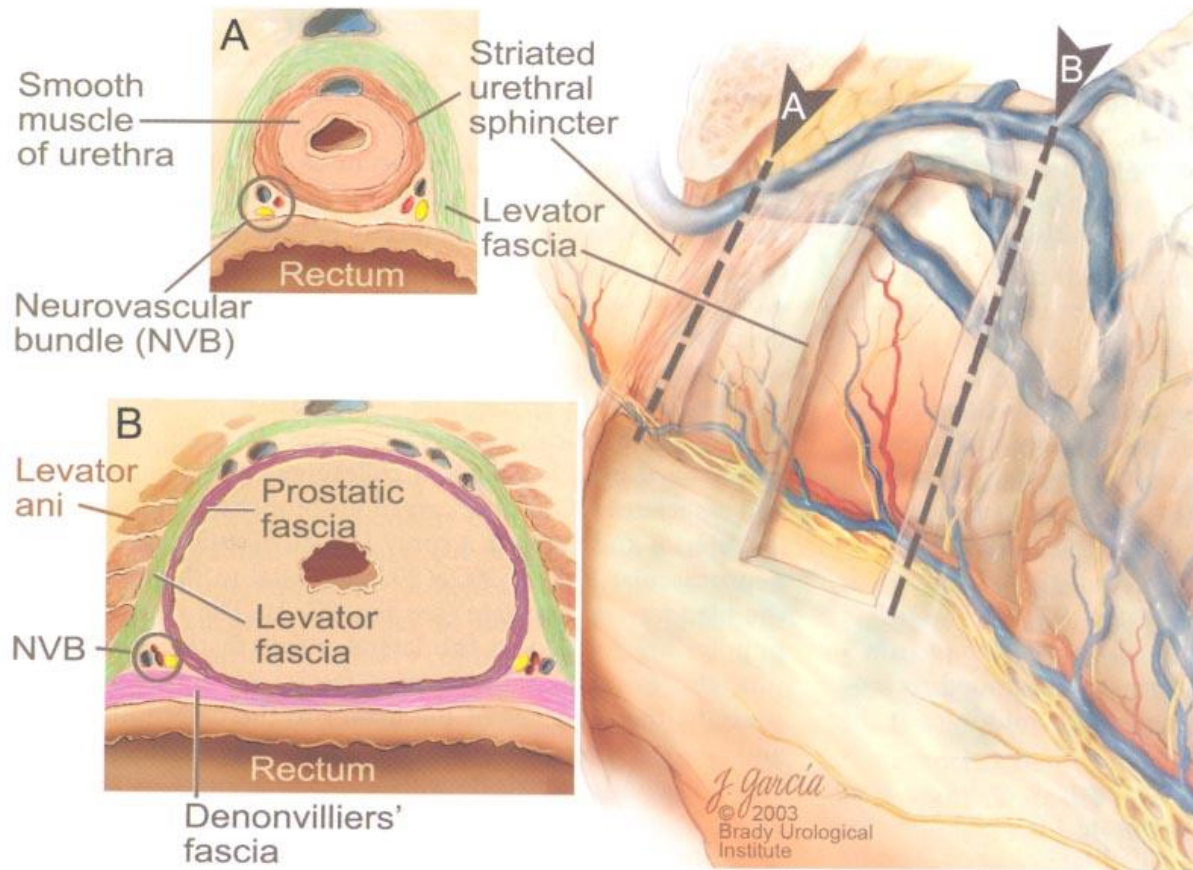
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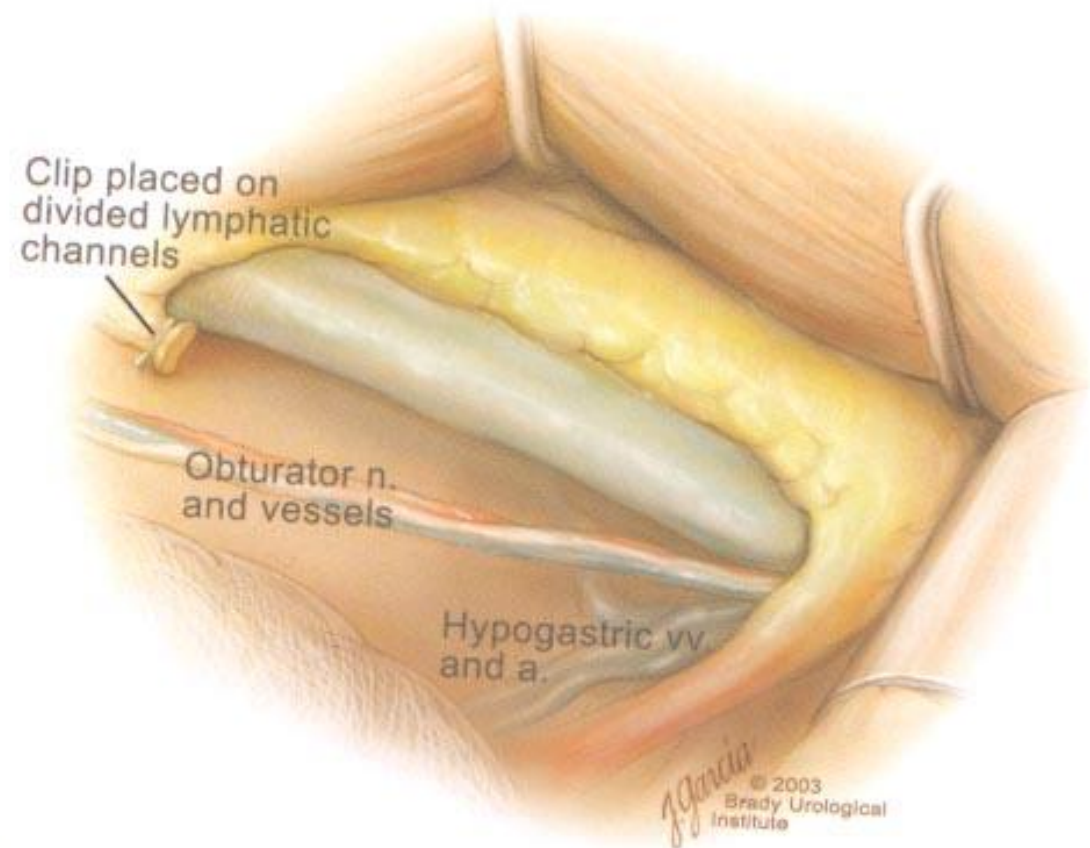
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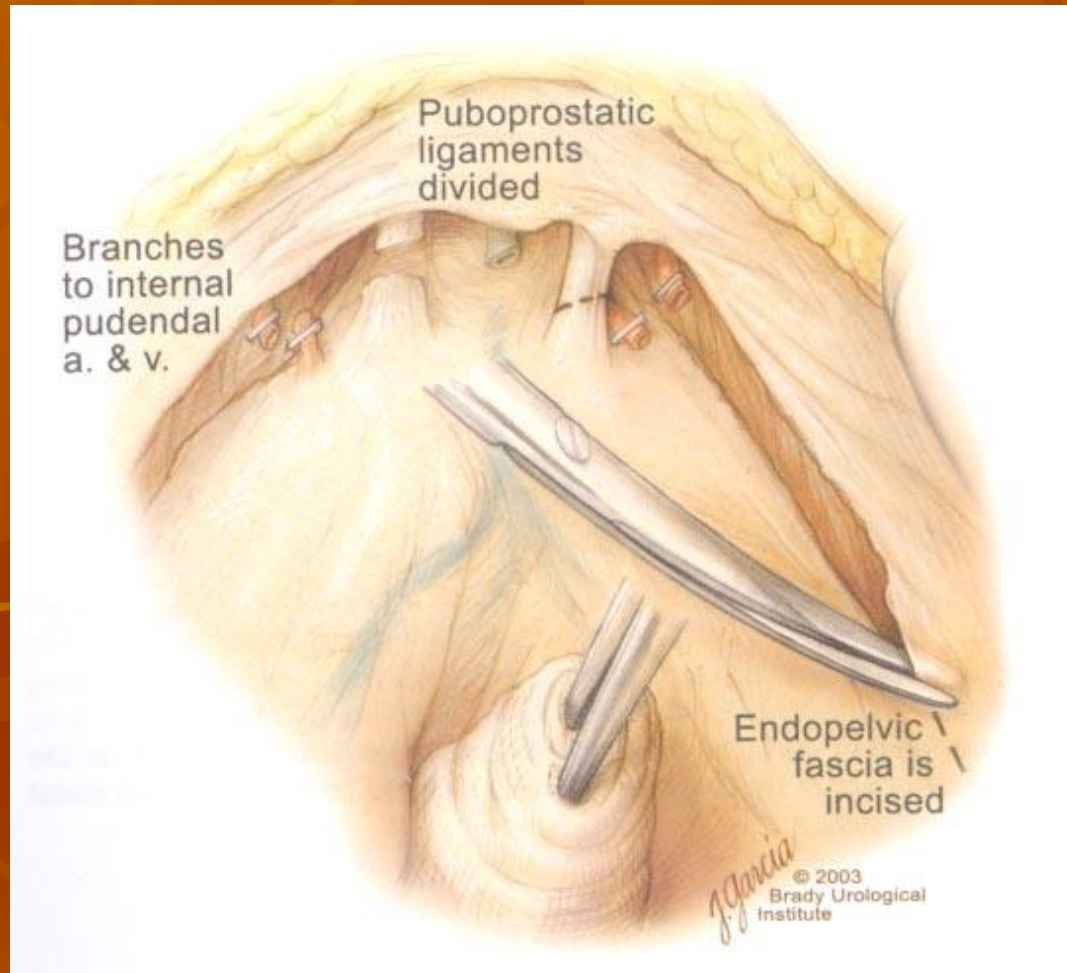
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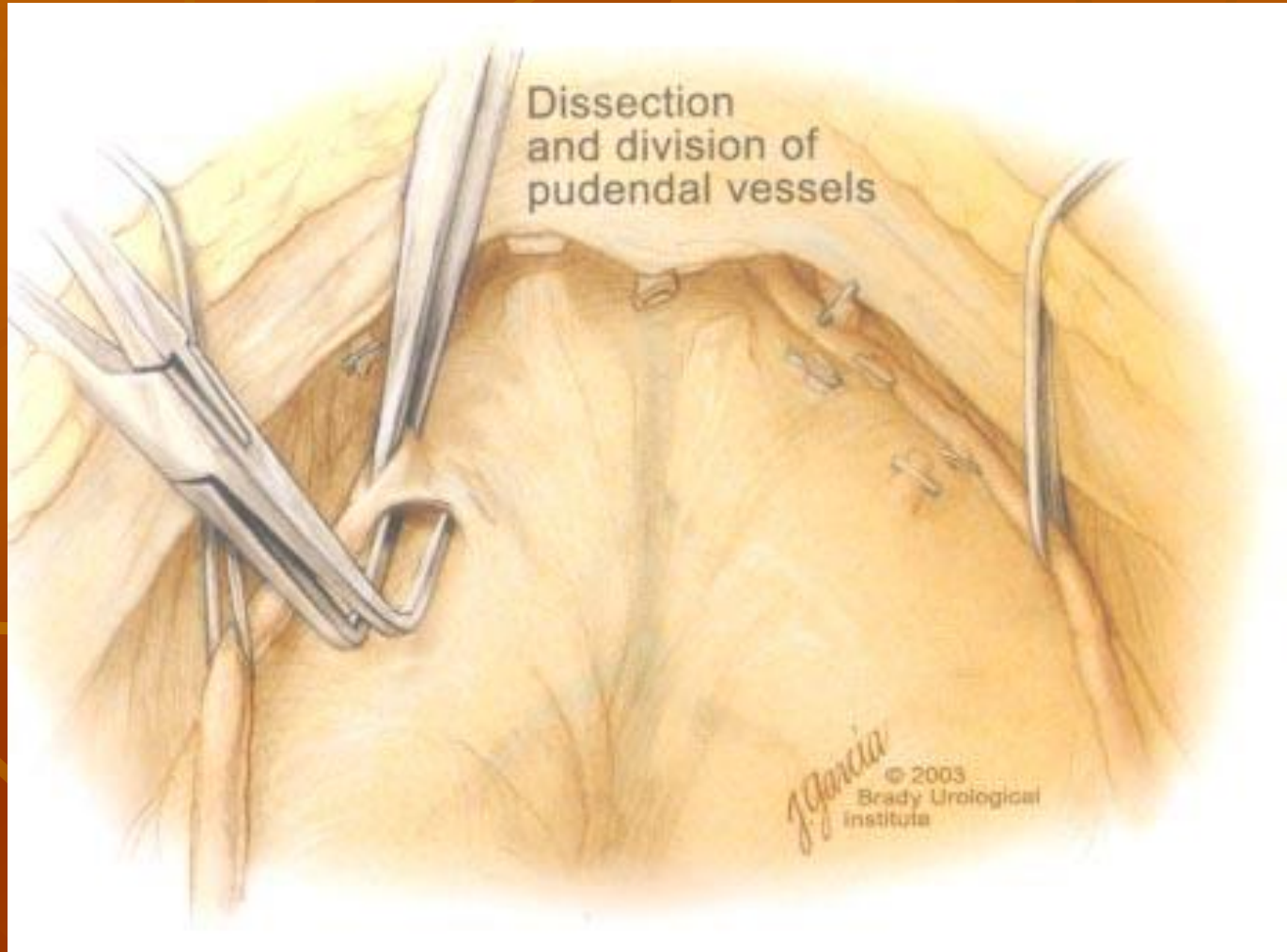
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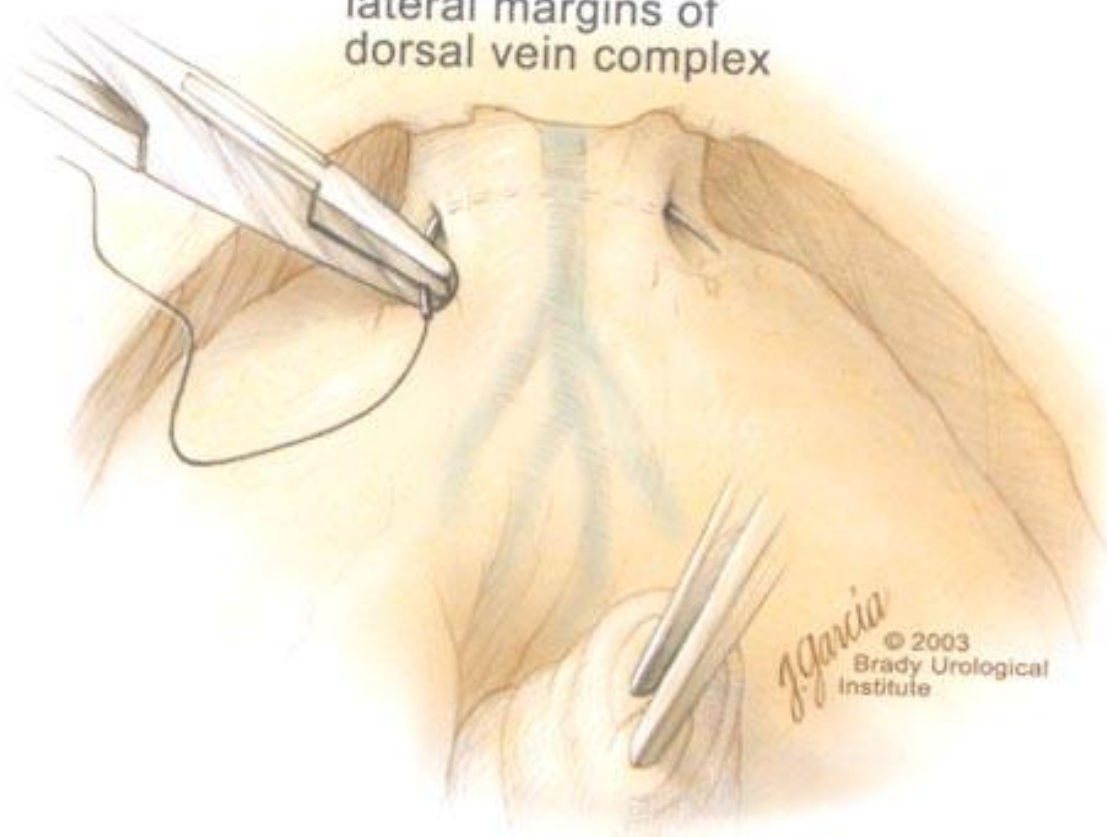


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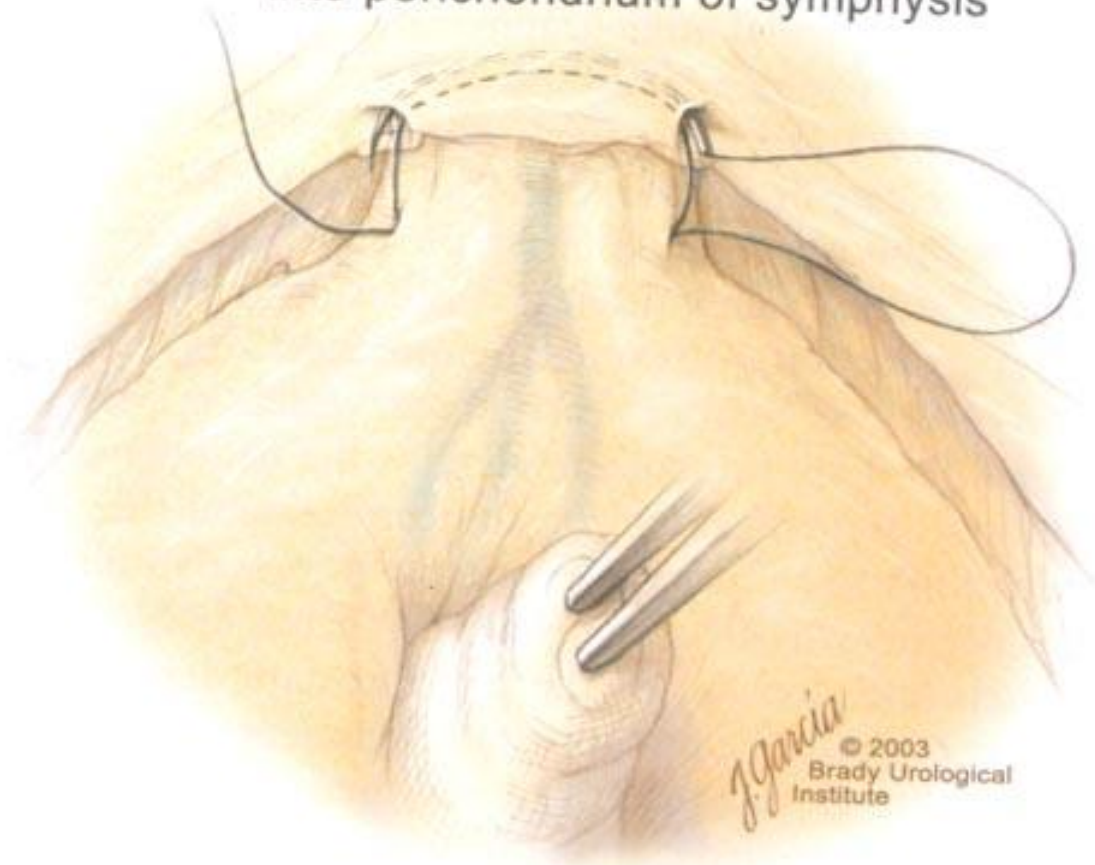
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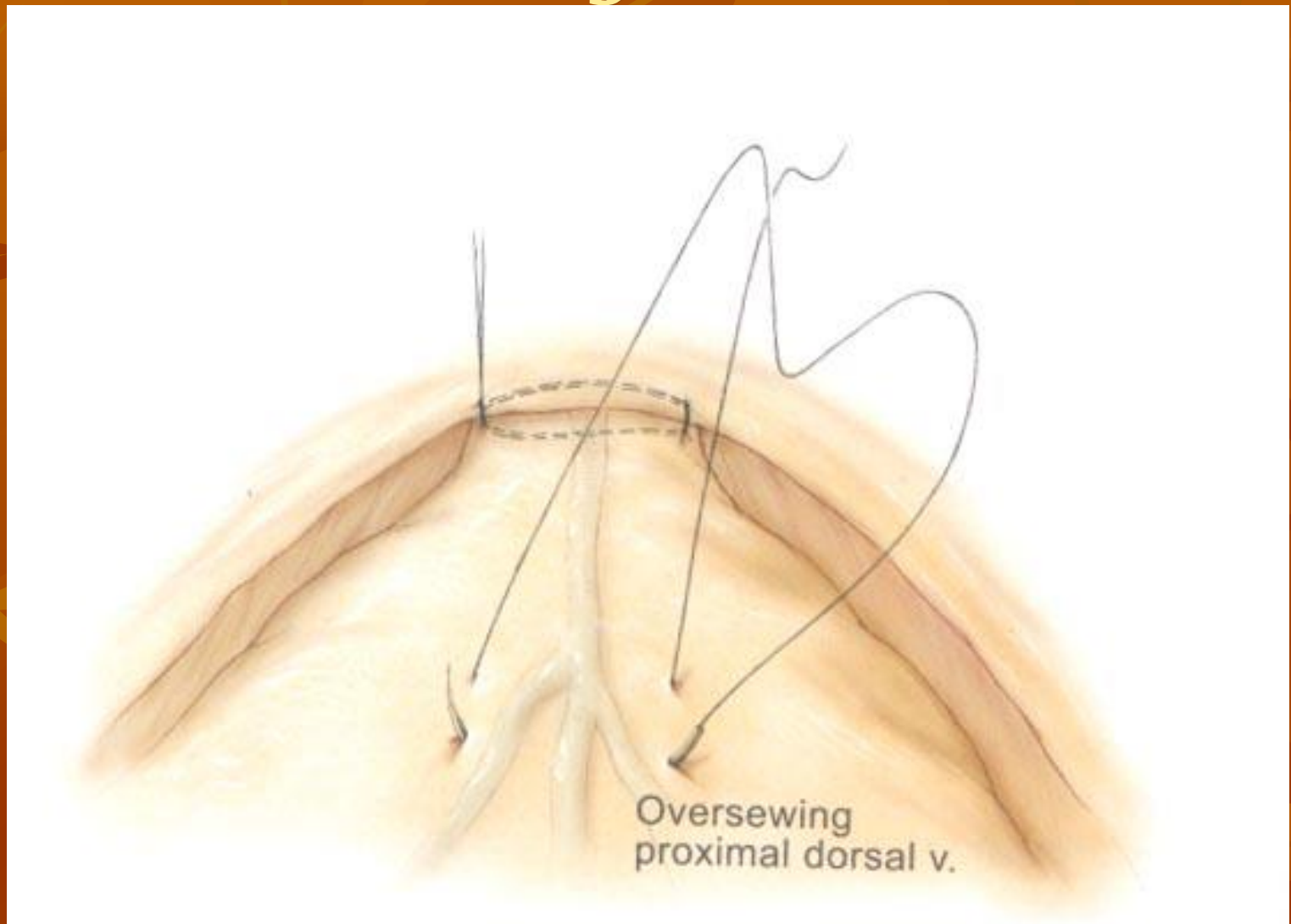
Suture encompasses
lateral margins of
dorsal vein complex



8

Figure of 8 suture then passed
into perichondrium of symphysis

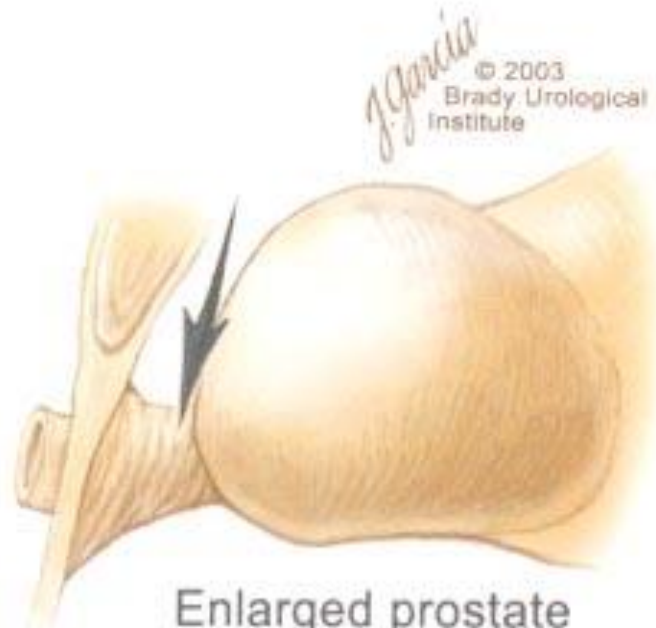




10

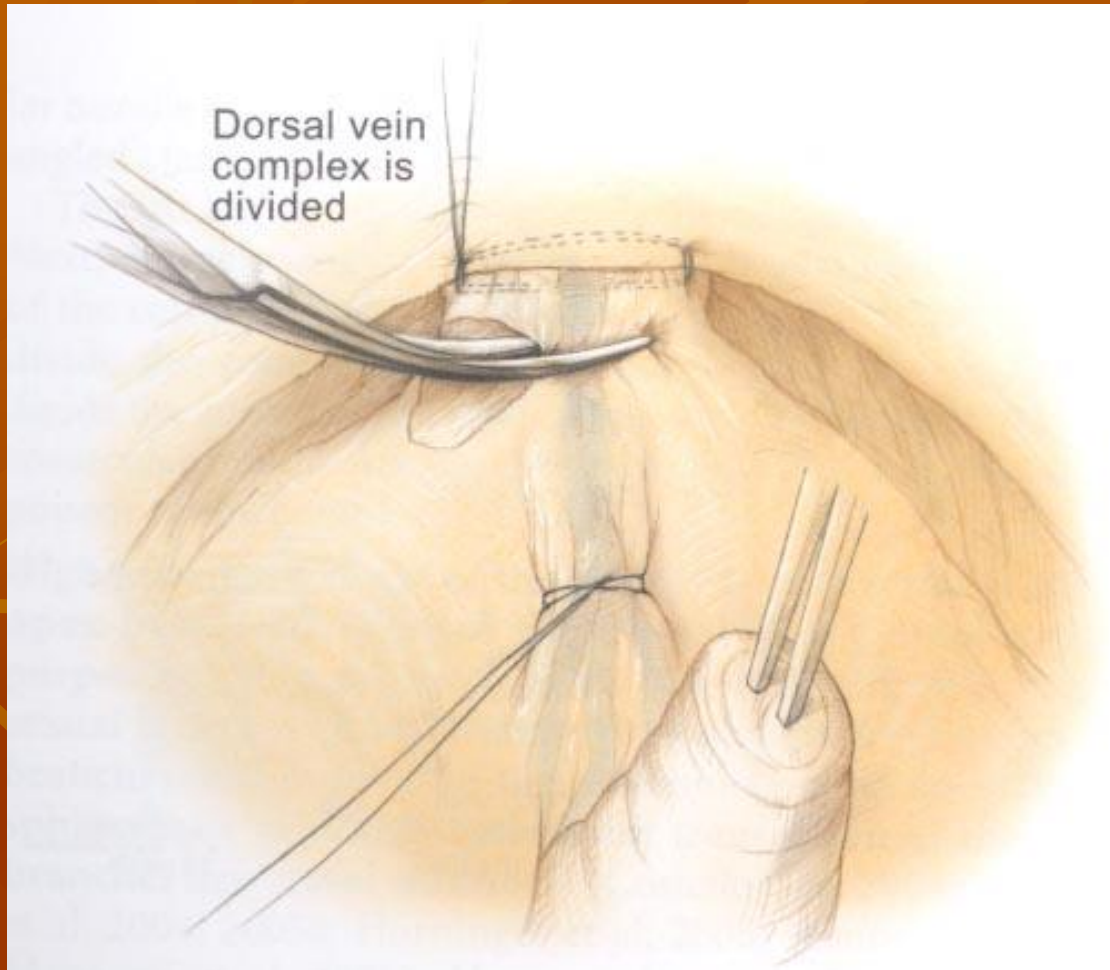


Small prostate



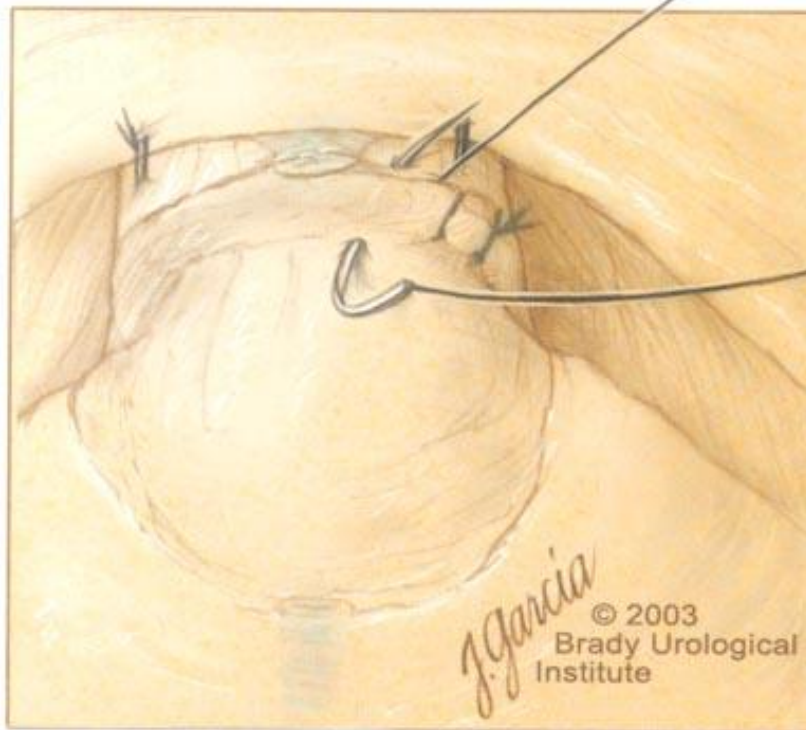
Enlarged prostate

11

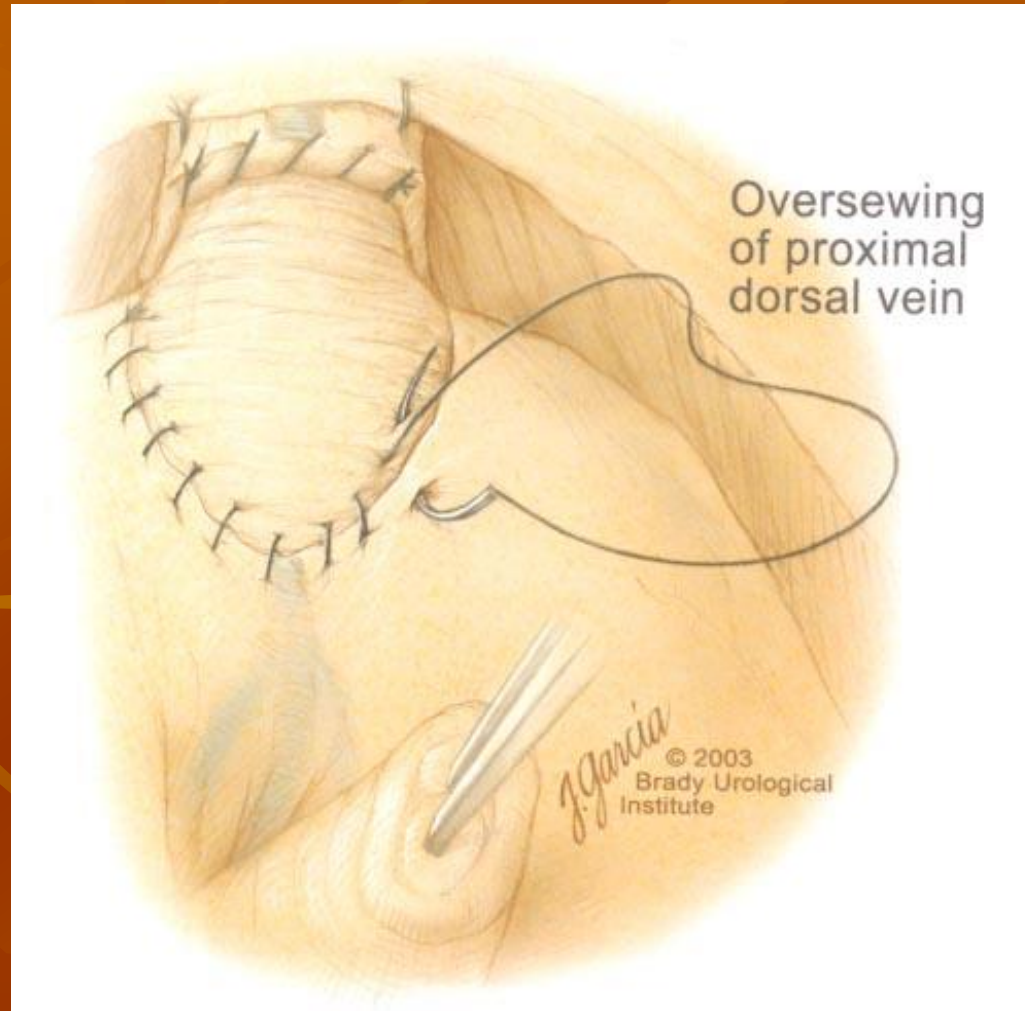


12

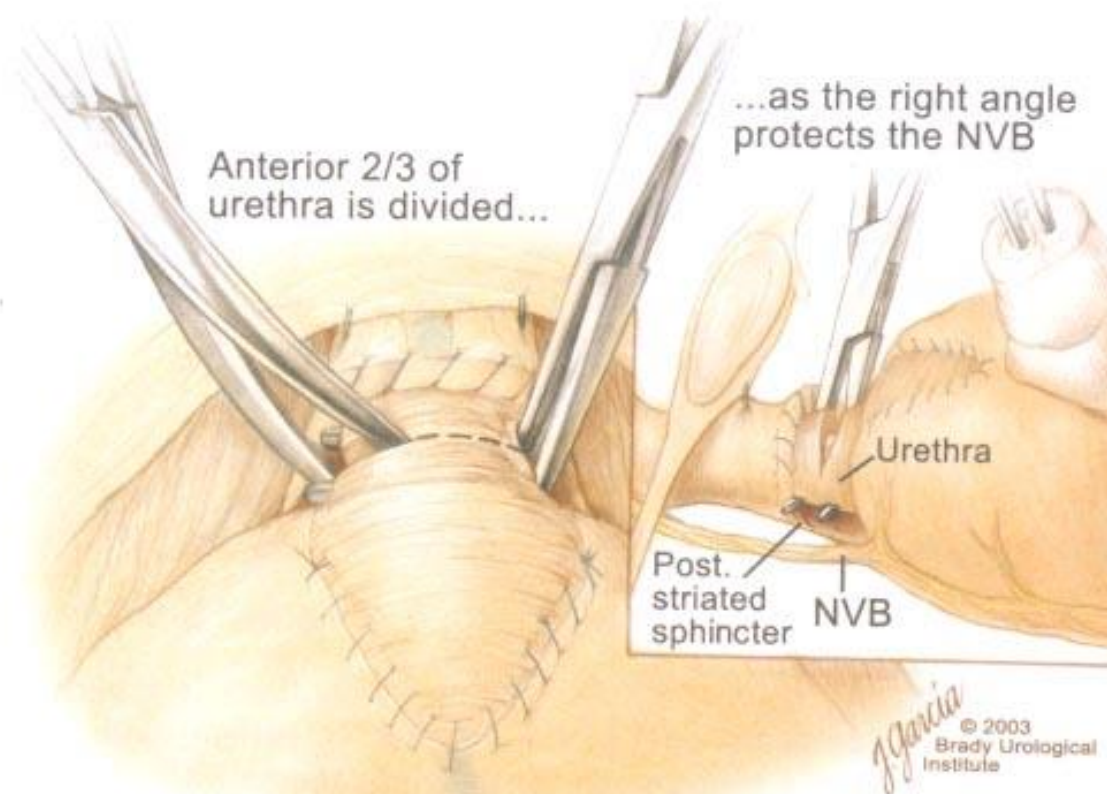
Oversewing of striated
urethral sphincter
and dorsal vein



13



14

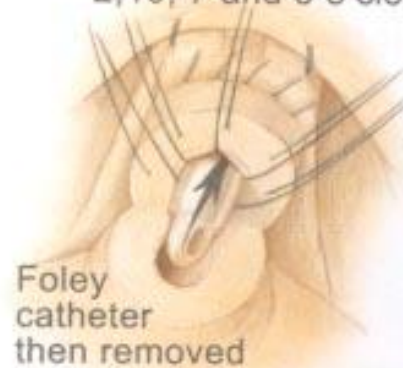


15

Initial suture placed
at 12 o'clock



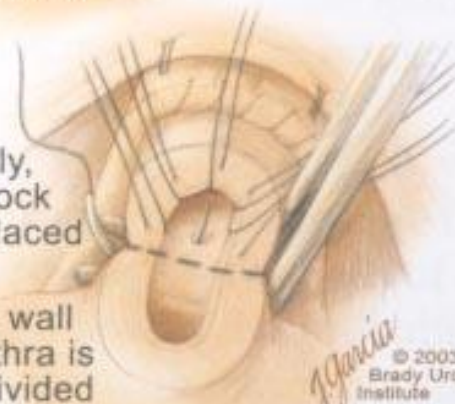
Followed by sutures at
2, 10, 7 and 5 o'clock



Foley
catheter
then removed

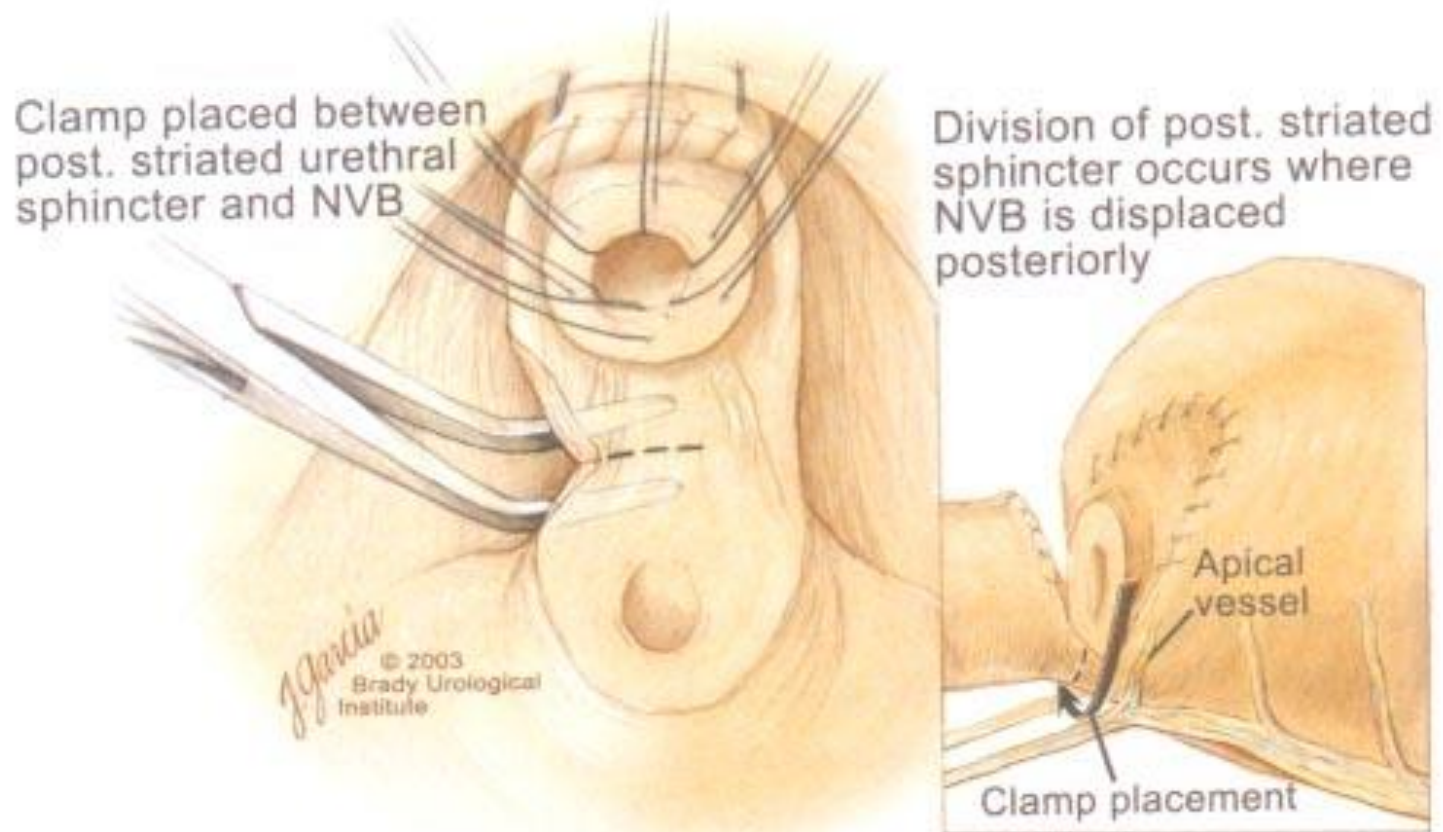
Finally,
6 o'clock
suture placed

Post. wall
of urethra is
then divided

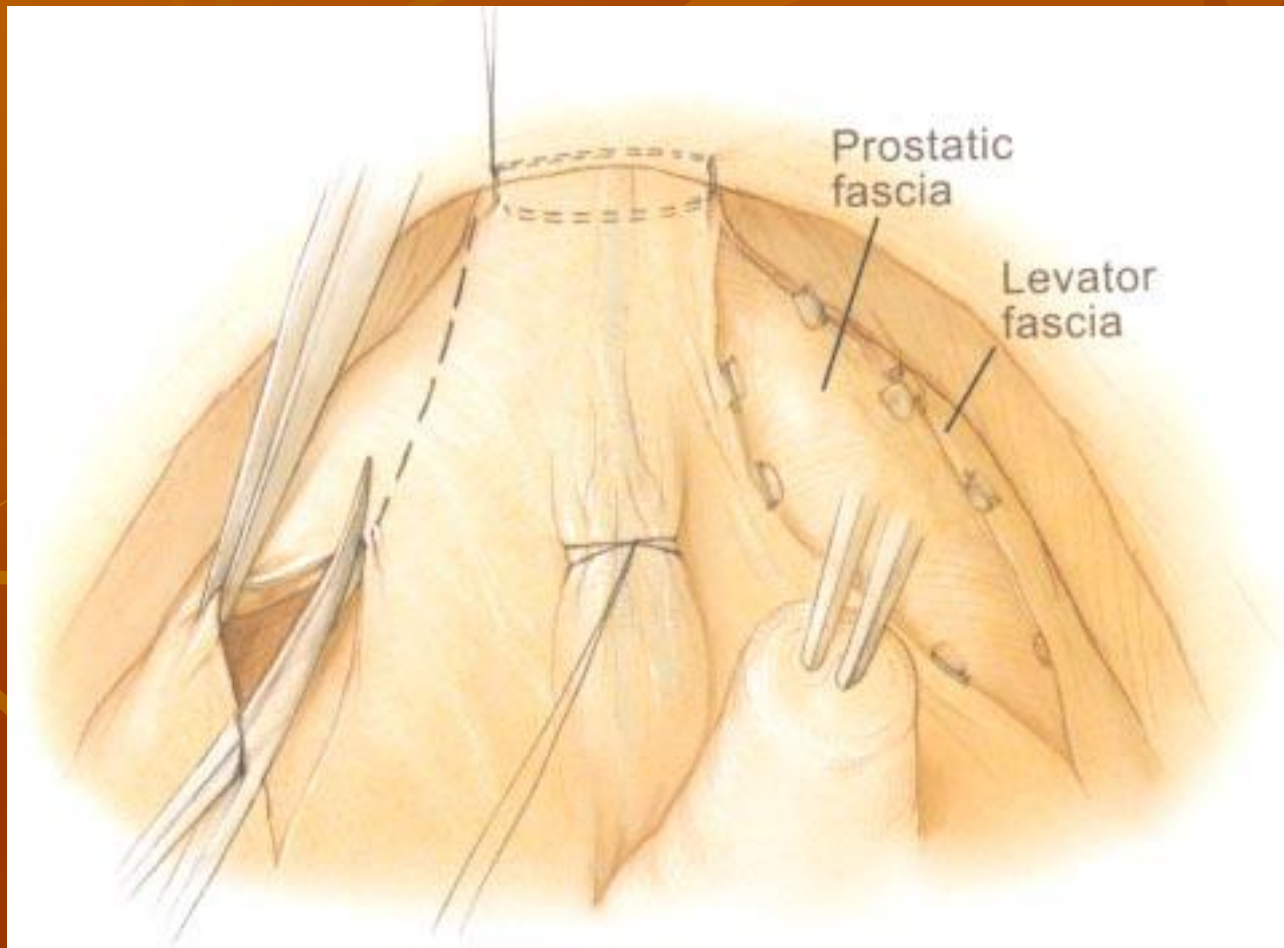


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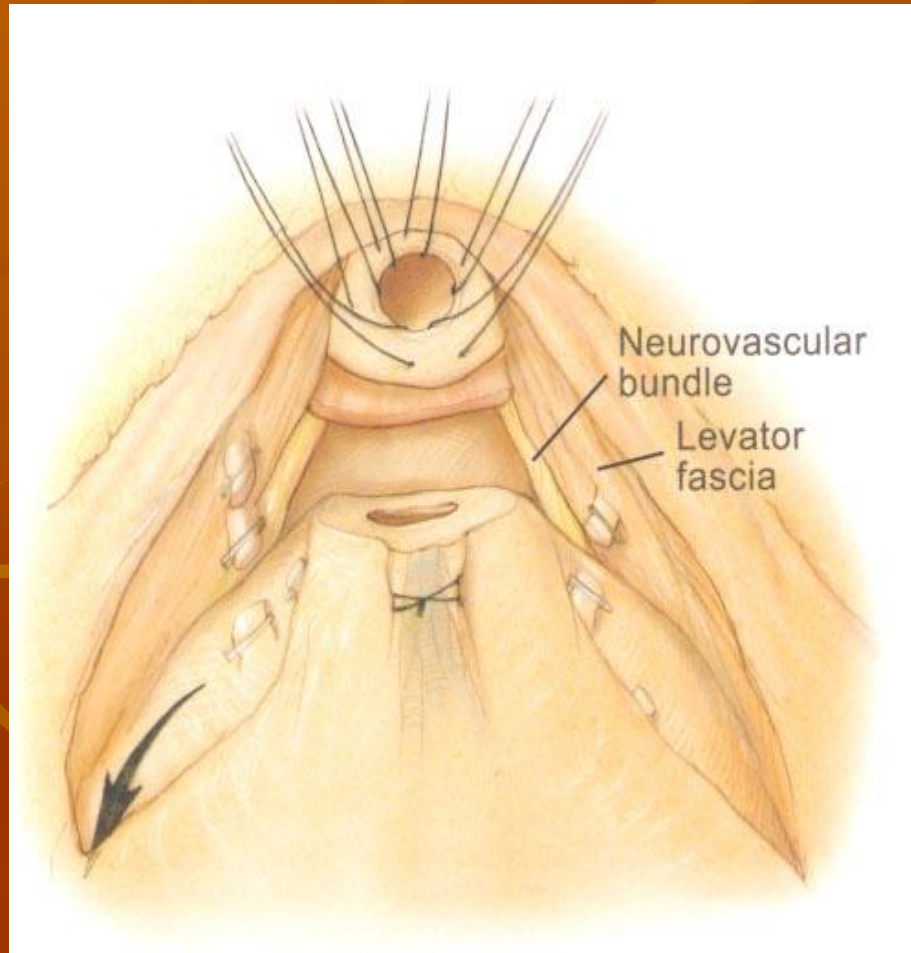
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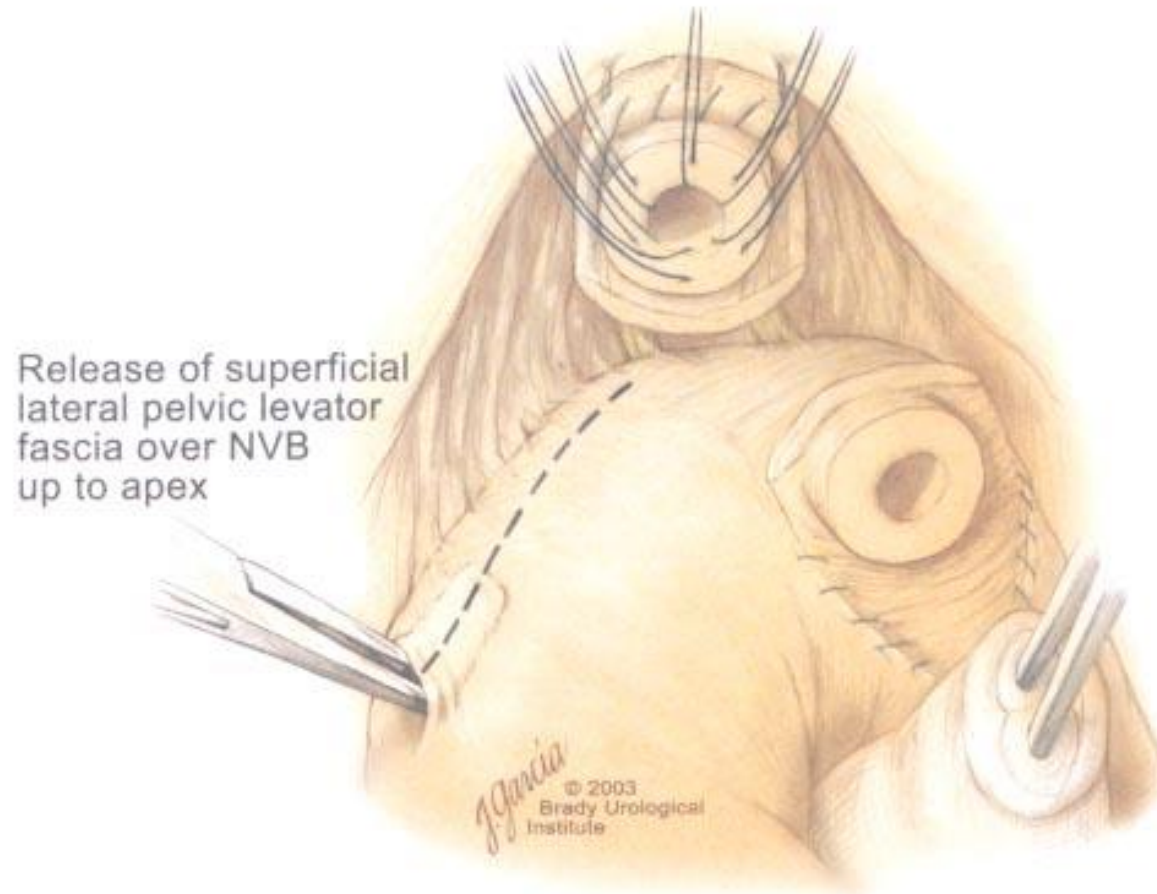
17



18



19

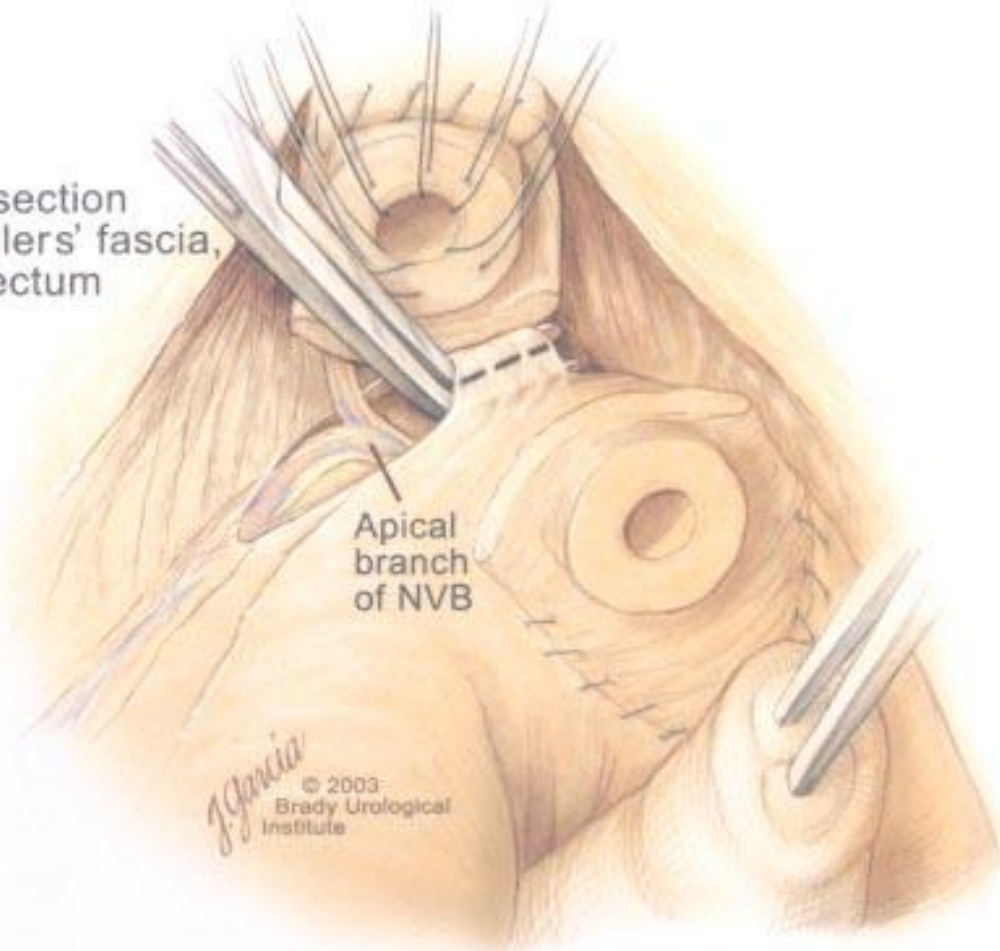


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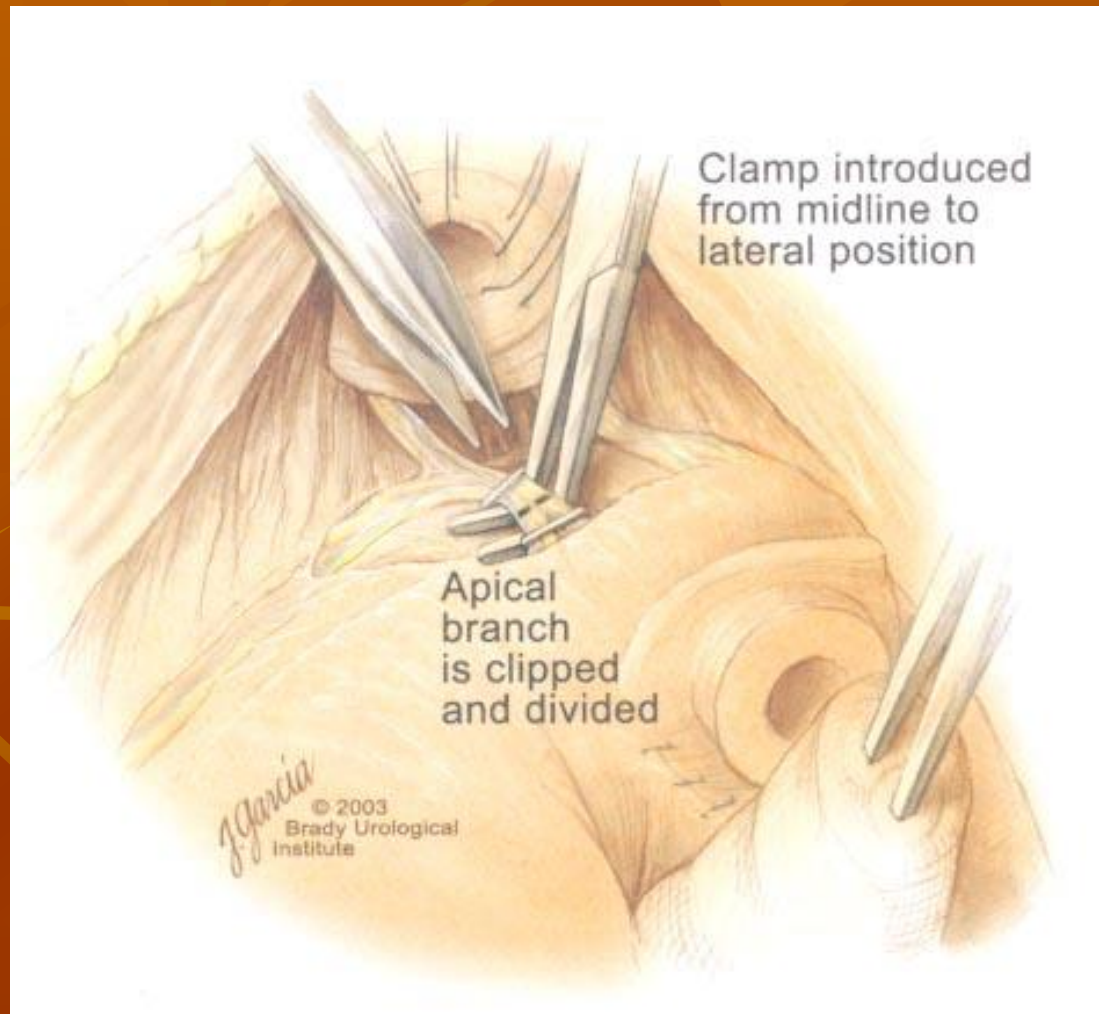
Midline dissection
of Denonvillers' fascia,
exposing rectum

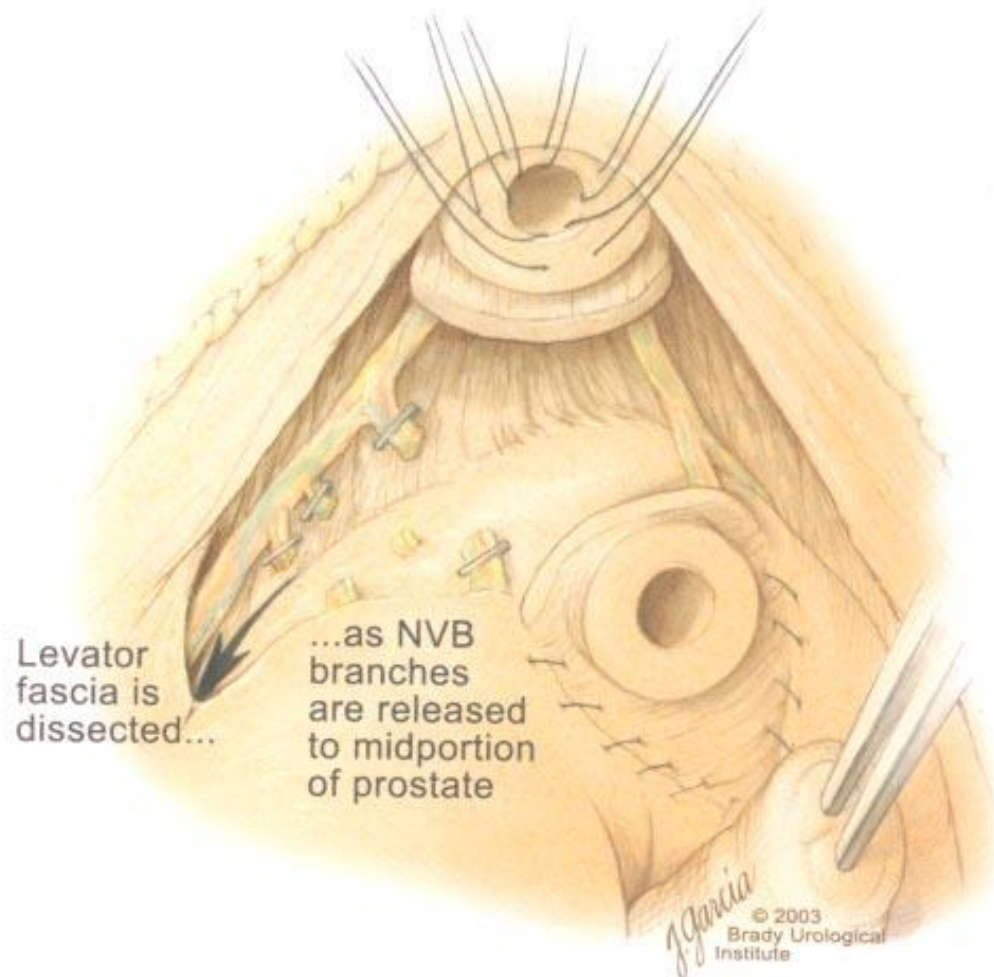
Apical
branch
of NVB

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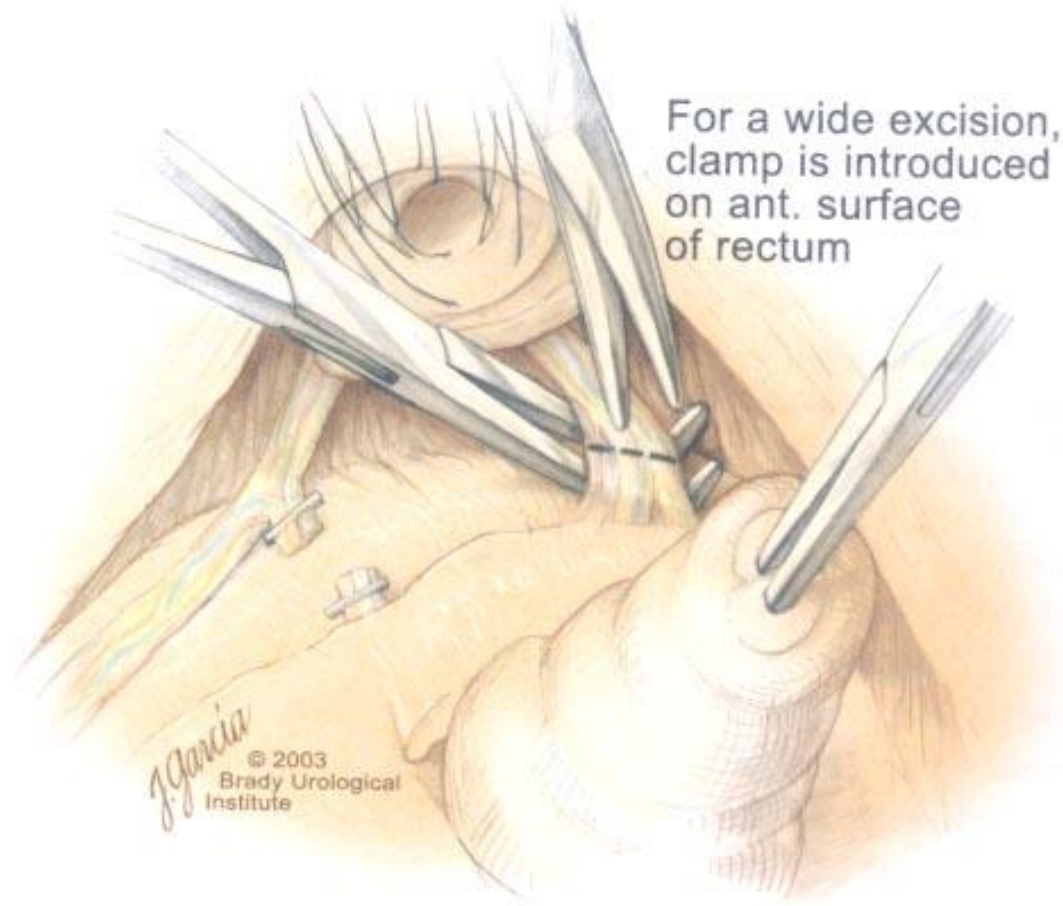


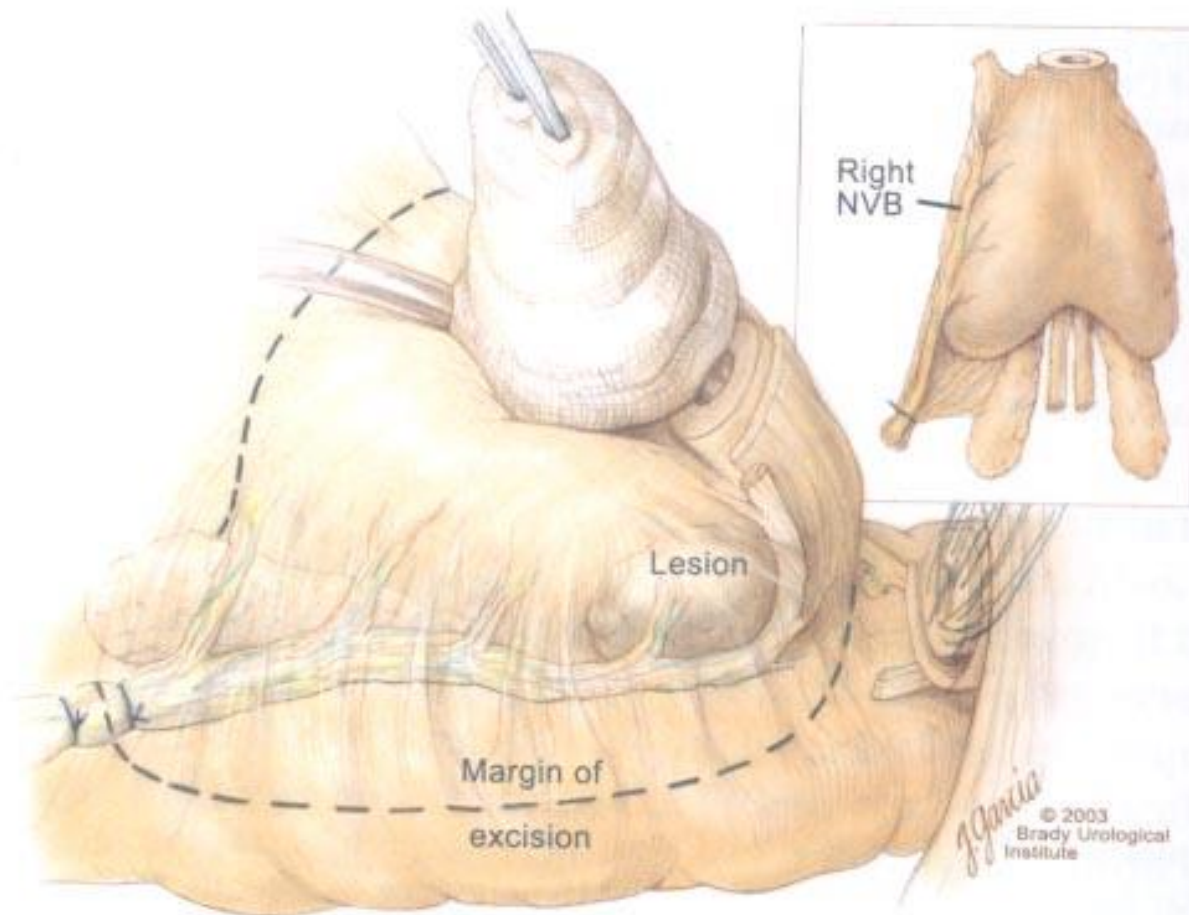
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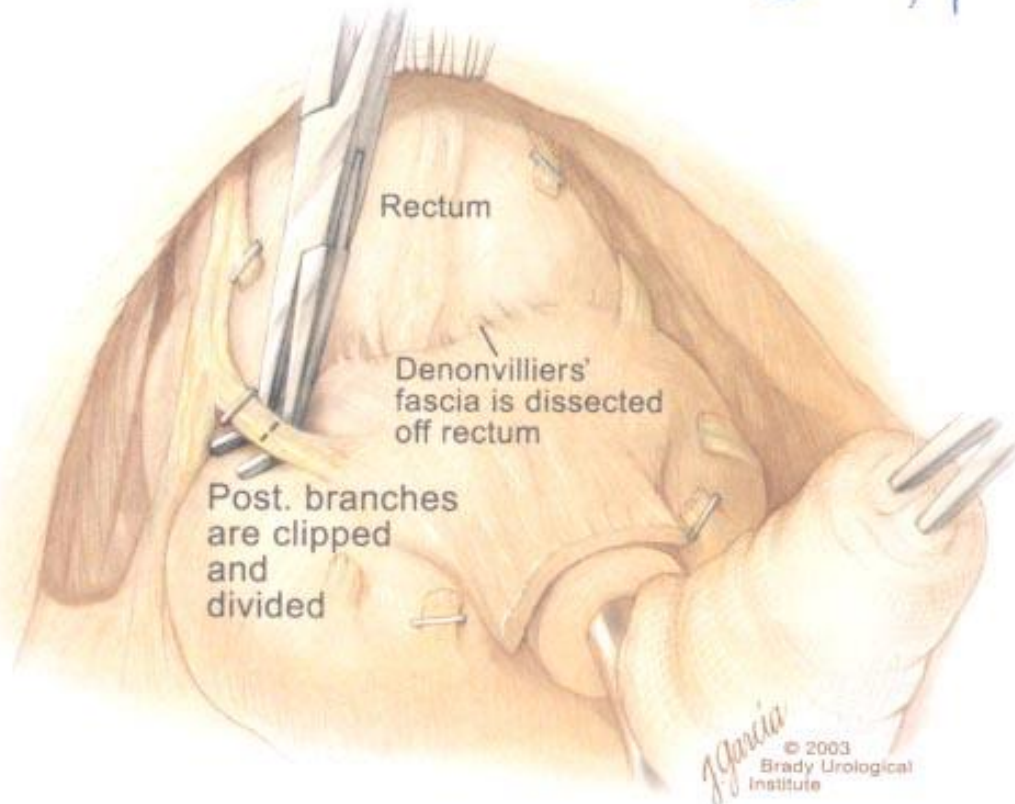


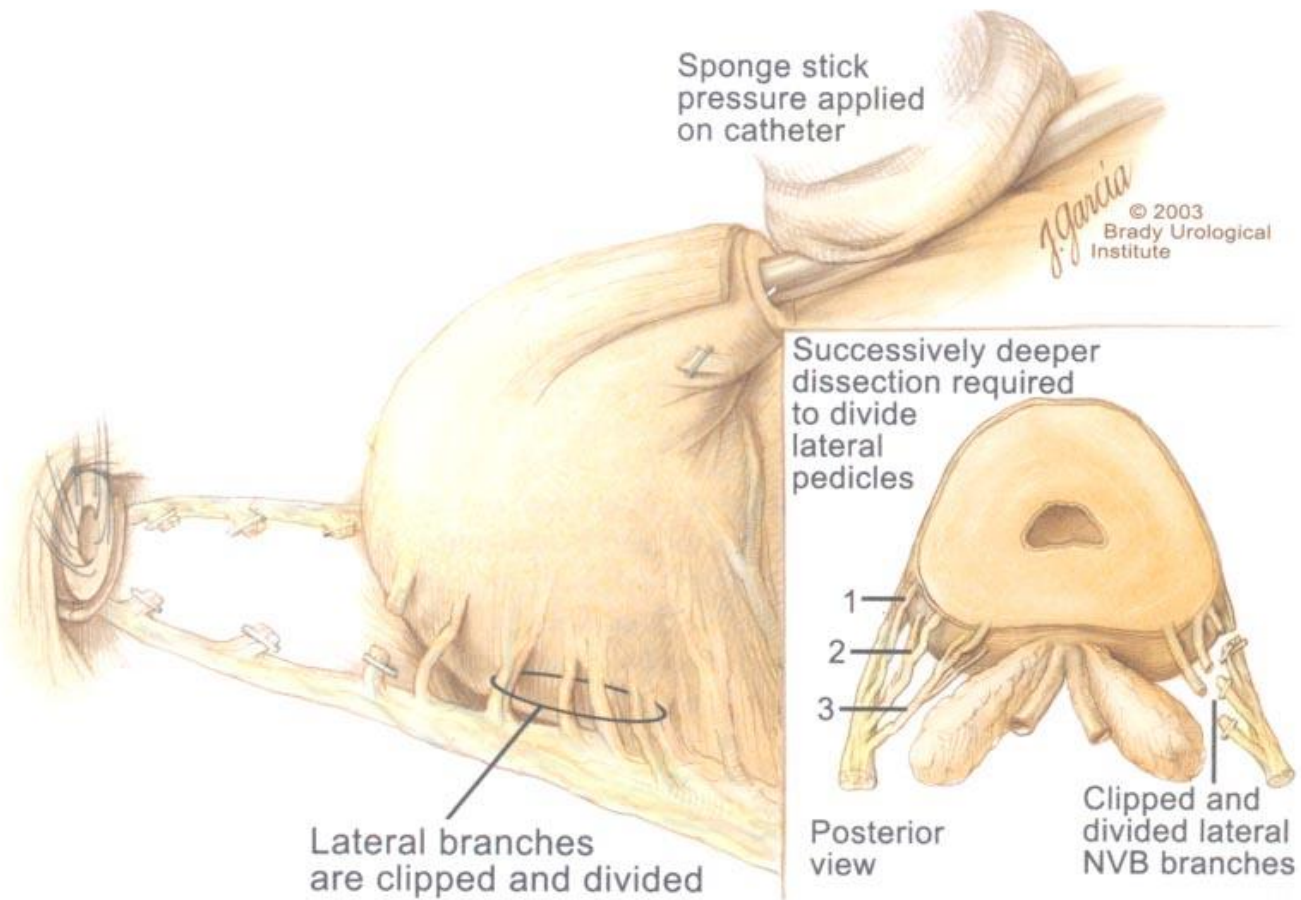
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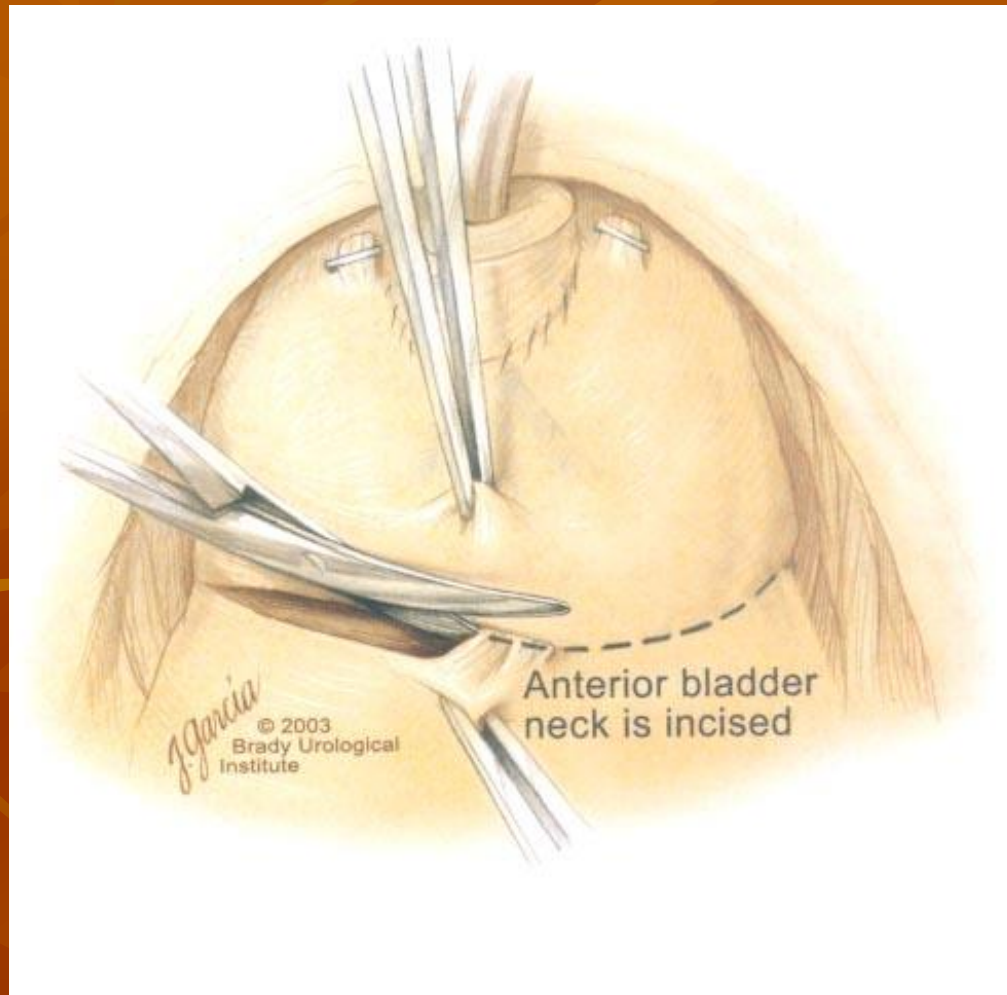


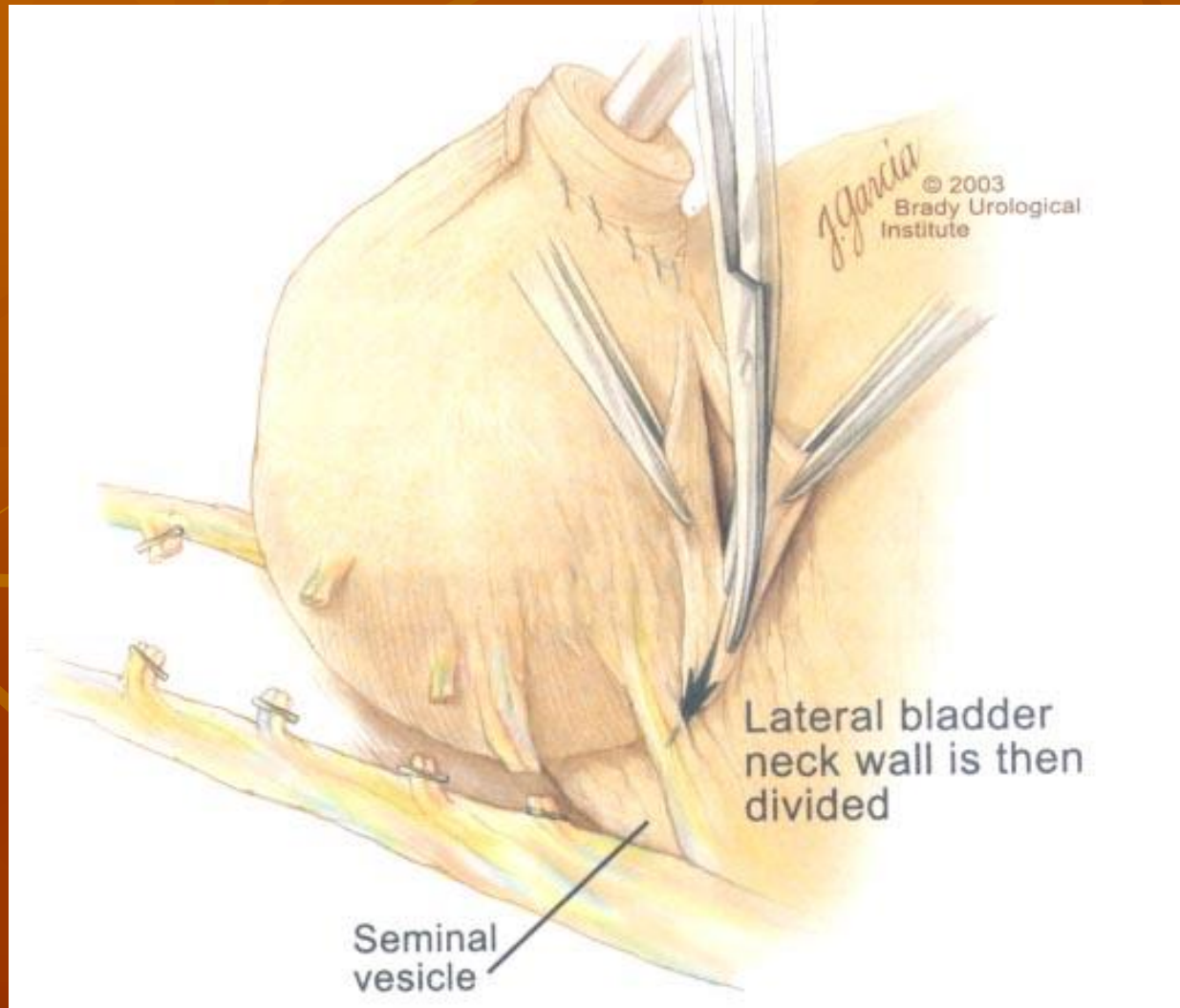


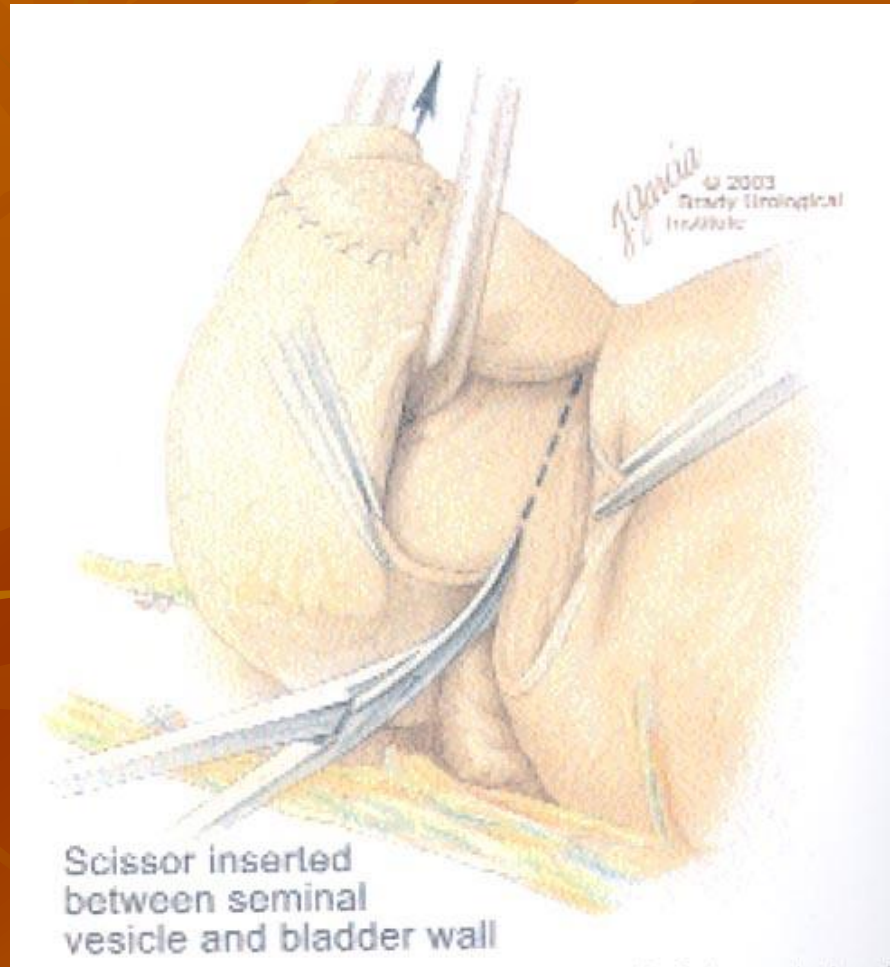
همان‌طور که در تصویر دیده می‌شود، در مرحله ۷ از عمل برداشتن پروستات



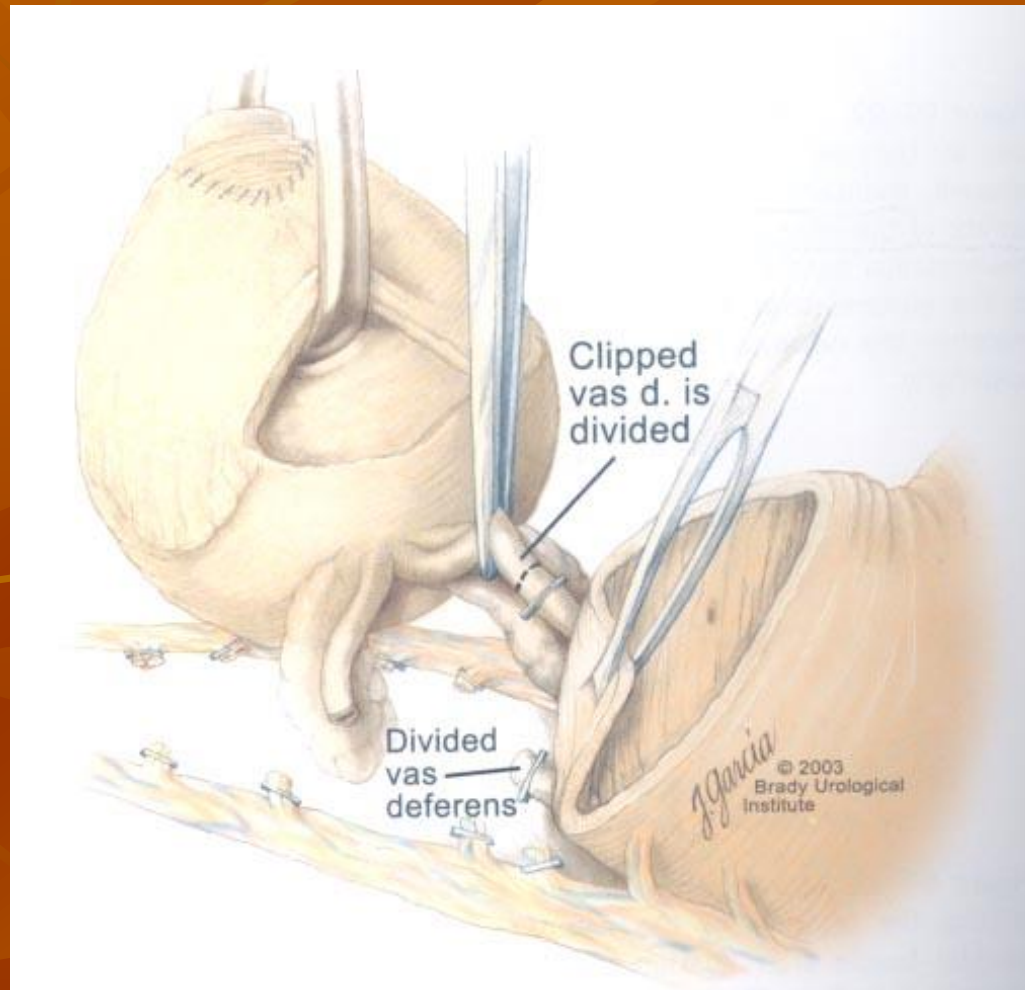


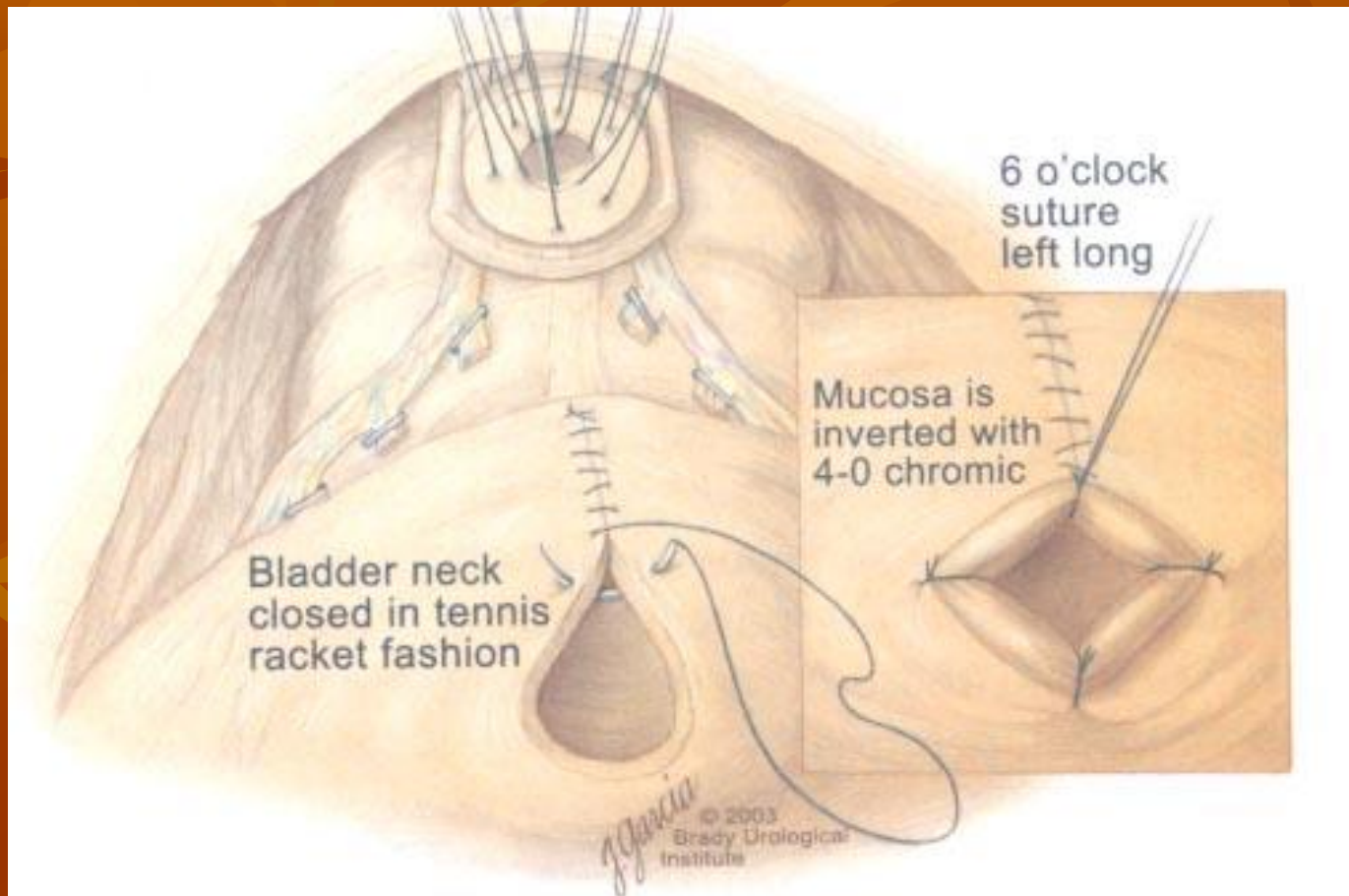




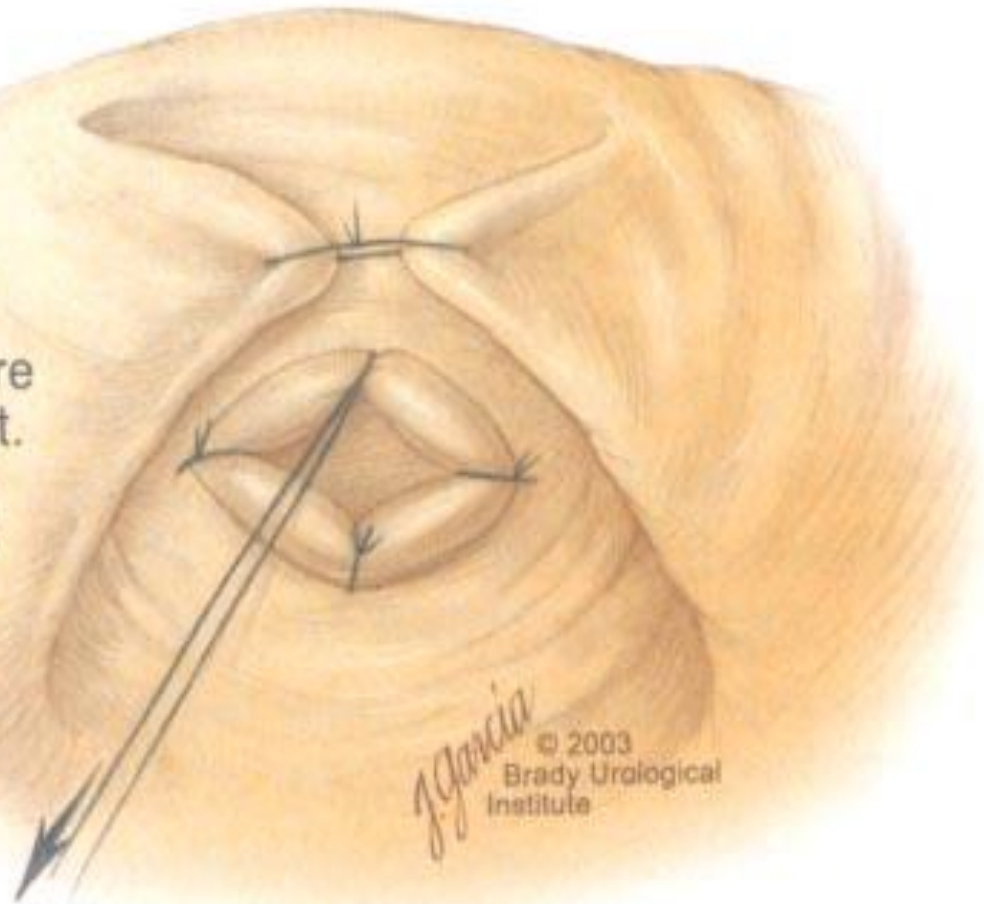


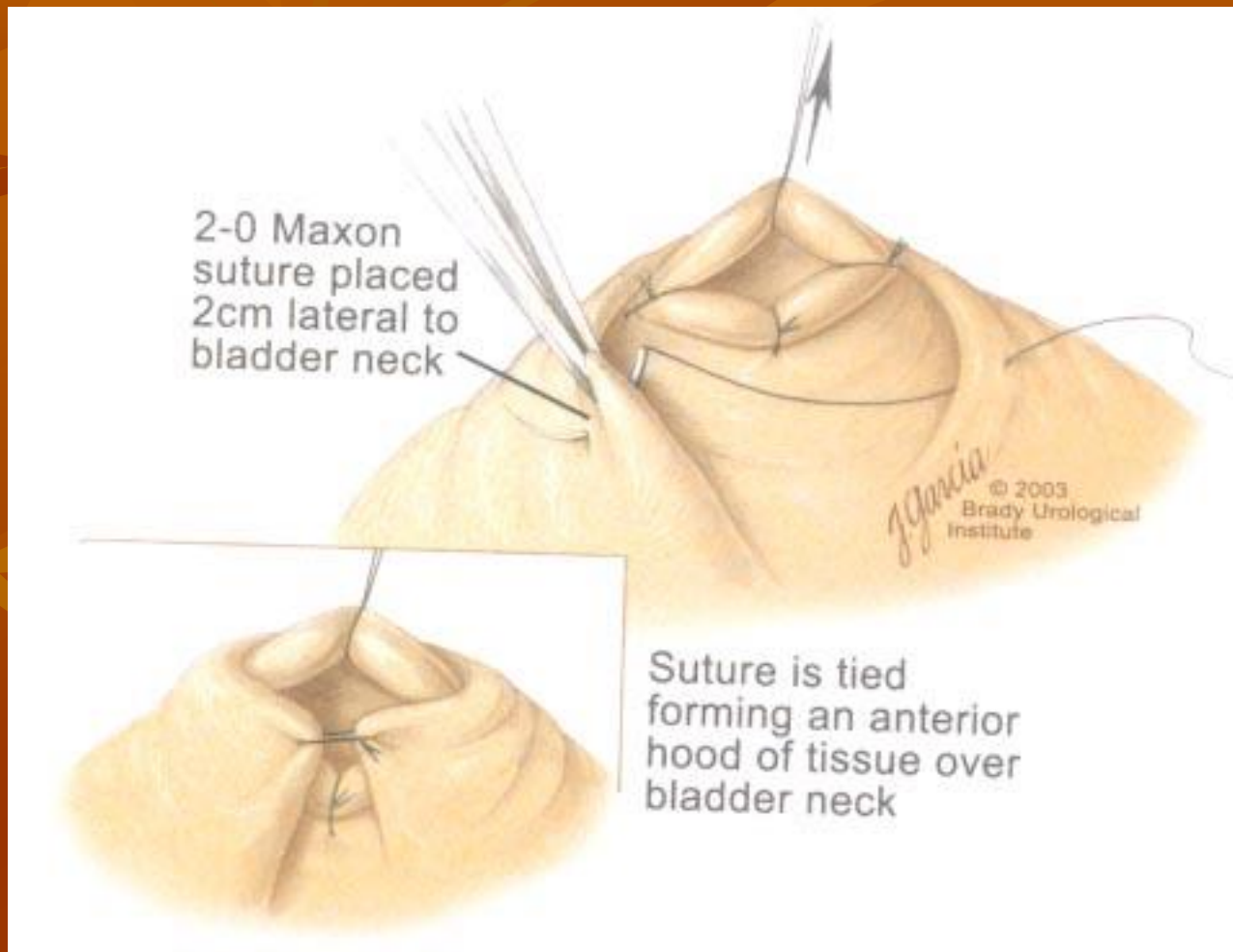
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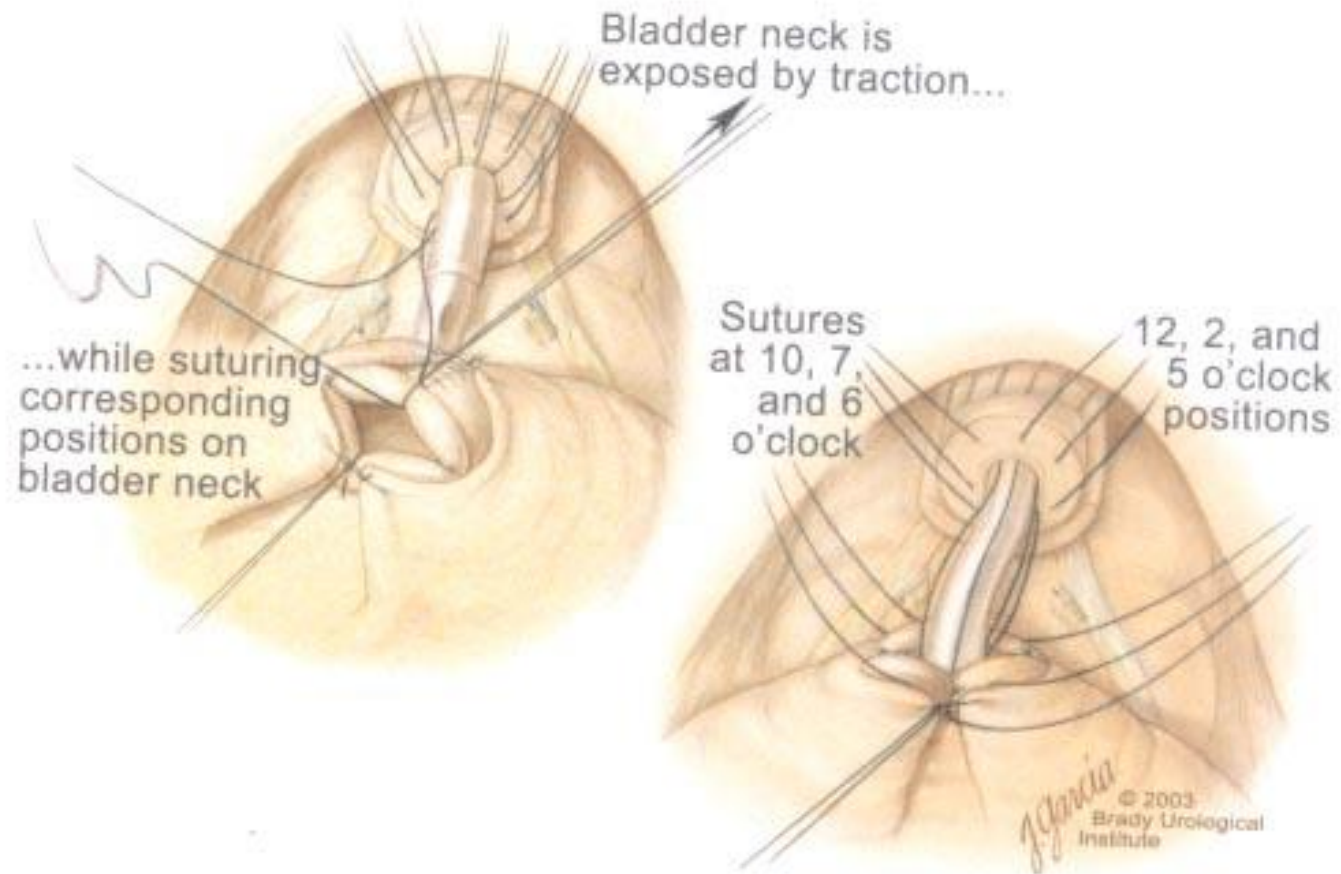


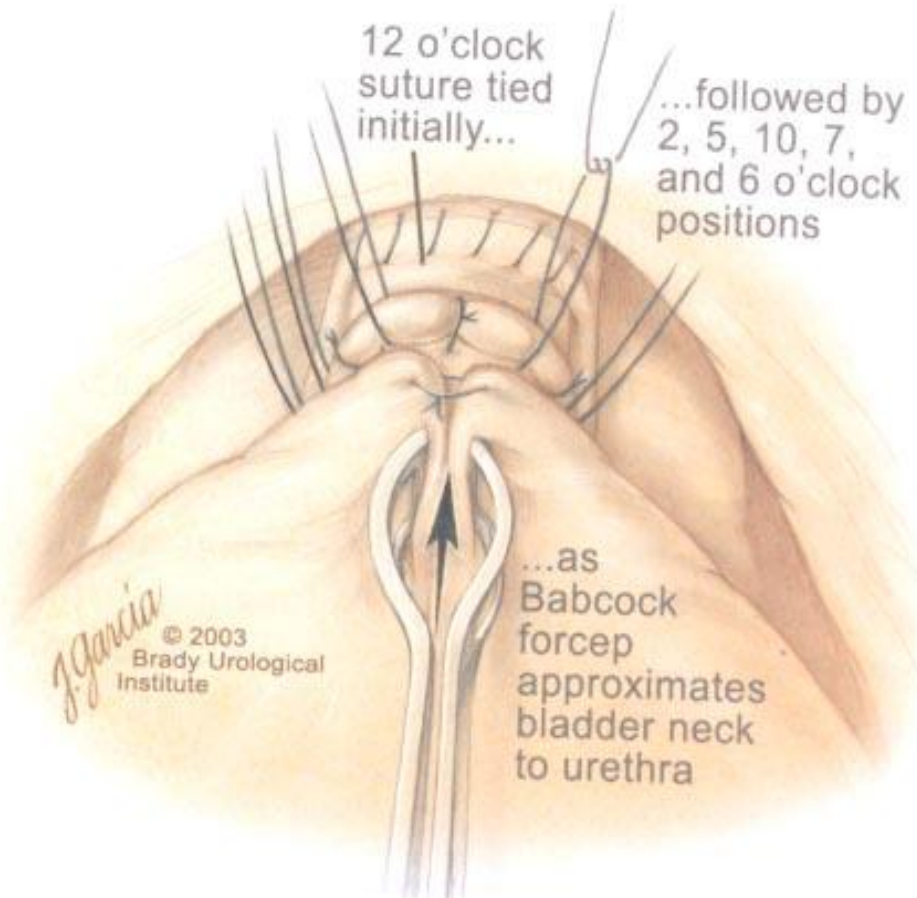


2-0 Maxon suture
placed 2cm post.
to bladder neck
and tied loosely

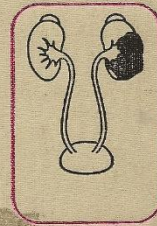
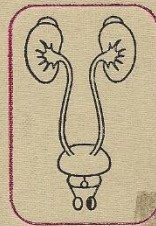
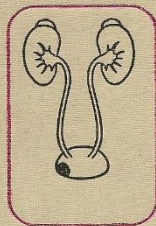
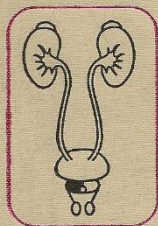








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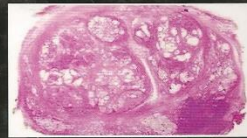


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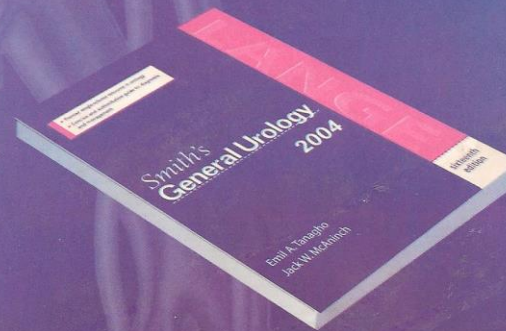
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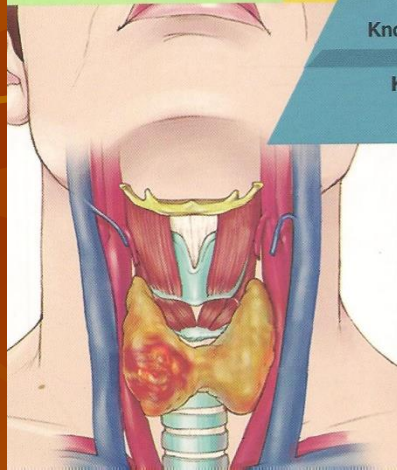
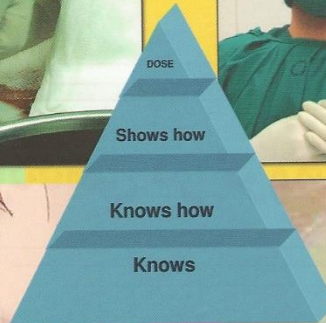
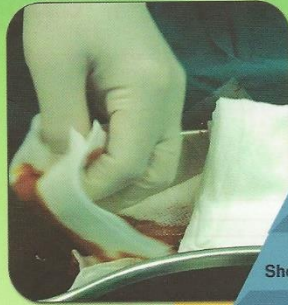
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شانزدهم
۲۰۰۴



آموزش

مهارت‌های جراحی و اورولوژی با رویکرد مبتنی بر صلاحیت

- آشنایی با مبانی آموزش مبتنی بر صلاحیت
- راهنمای آموزش و یادگیری مهارت‌های جراحی در حد تسلط

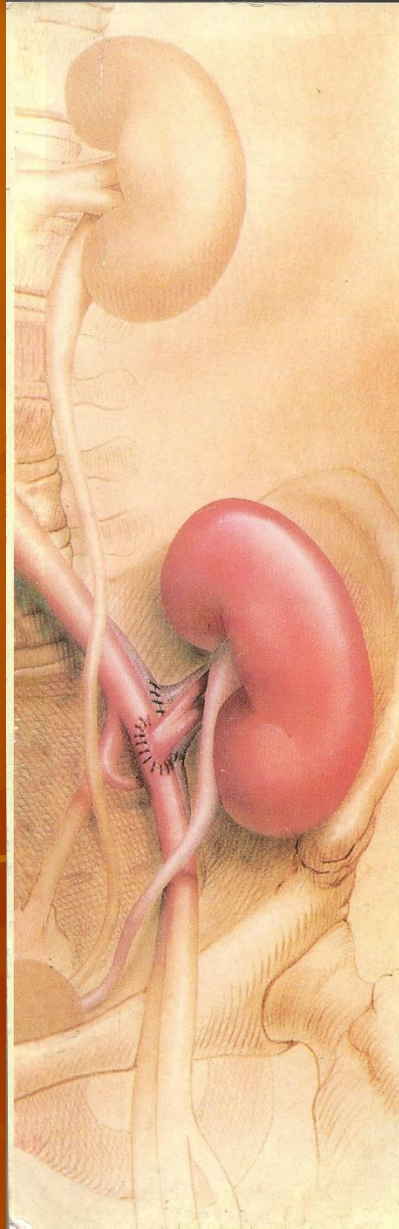


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مرکز مطالعات و توسعه آموزش علوم پزشکی
واحد مهارت‌های بالینی

مفاهیم نهفته در مبحث ارولوژی

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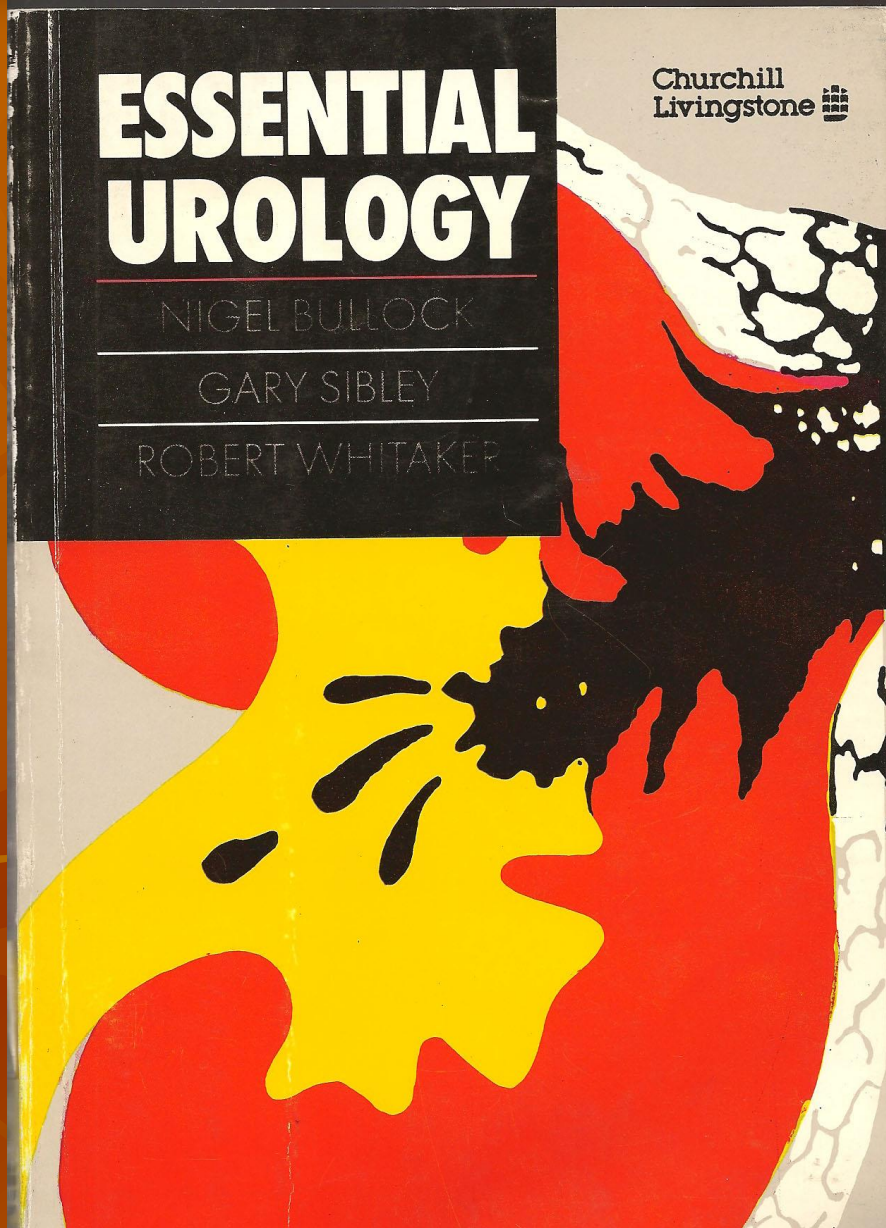
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