

Knotting



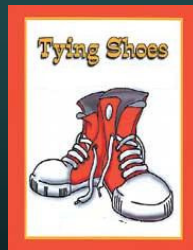
Endoscopy in reproductive medicine
2010



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Knotting

- ✓ Knots classification
- ✓ Knotting technique



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Knots Classification

- ✓ **Simple knots:**
 - Flat Knot
 - Half loop / Demi-clé
- ✓ **Complete knots:**
 - Square Knot (2 sequential identical flat knots)
 - Surgical Knot (locking sequence of flat knots)
 - Sliding/Rolling Knot (locking sequence of half loops/demi-clé)
 - Sliding/Pushing Knot: Roeder, endoloops



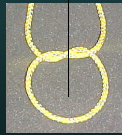
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Flat knot

- ✓ An hypothetical midline divides this knot in two **symmetric parts**



- ✓ To tie this knot we need to pull with equal intensity the two ends of the thread.

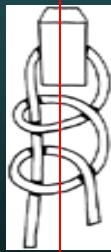


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Half Loop/Demi-clé

A hypothetical midline divides this knot in two asymmetric parts

To tie this knot we need to pull the passive thread and to push the active one



PASSIVE ACTIVE



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The Laparoscopic Knotting techniques

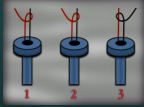

The Intra-corporeal Knotting technique

The Extra-corporeal knotting technique



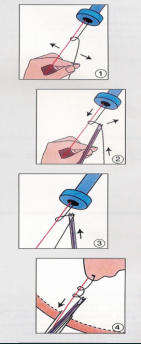
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INTRACORPOREAL AND EXTRACORPOREAL SUTURING : INDICATIONS		
	INTRACORPOREAL KNOTS	EXTRACORPOREAL KNOTS
"SOFT" TISSUES REPAIR (URETER, BOWEL, BLADDER...)	+++	+
"SOLID" TISSUES REPAIR (VAGINA, UTERUS)	++	+++
HEMOSTASIS	-	+++
SUSPENSION/ FIXATION	+	+++
DEEP SURGERY	+	+++

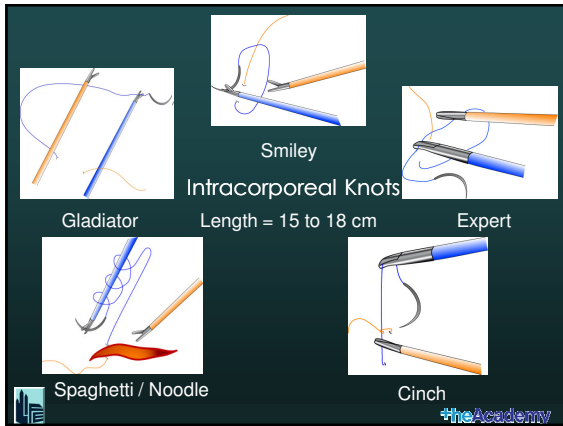
Extracorporeal knot

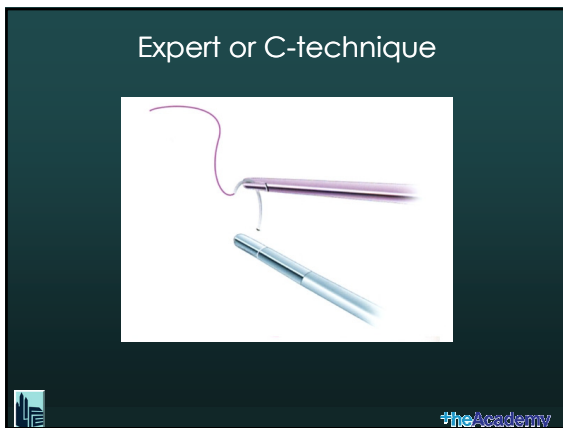
Length = 120 to 150 cm

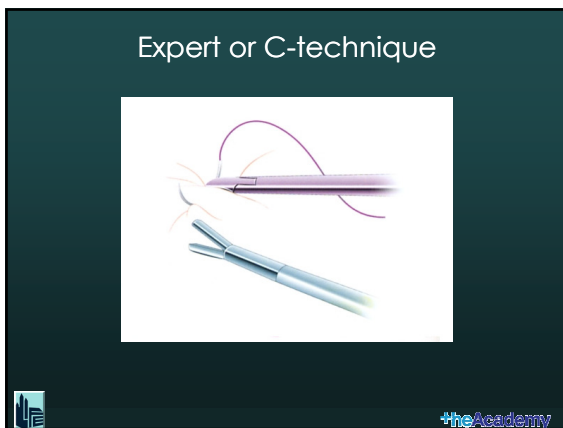




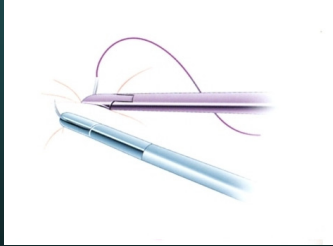
Extracorporeal knotting





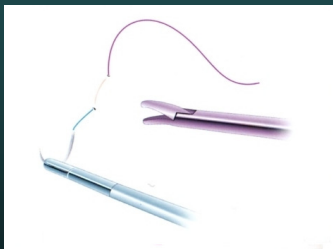


Expert or C-technique



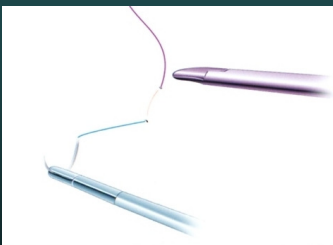
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Expert or C-technique



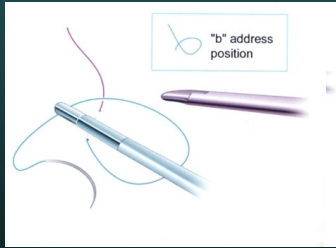
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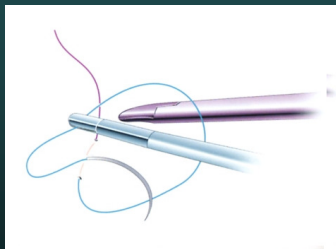
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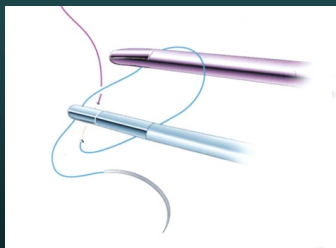
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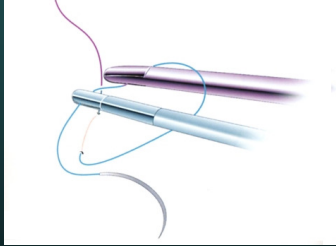
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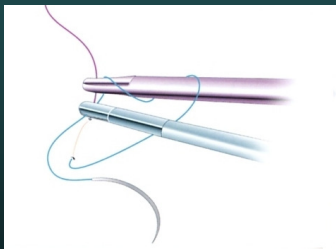
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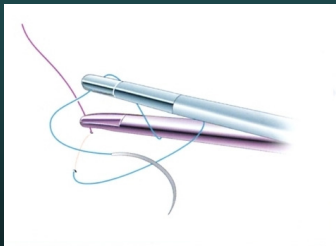
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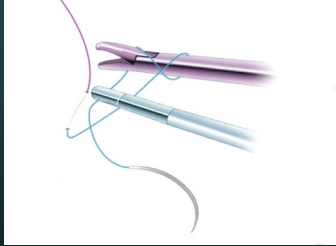
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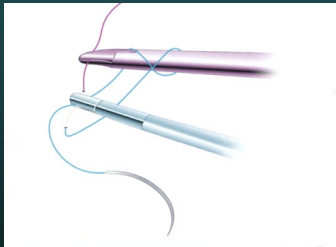
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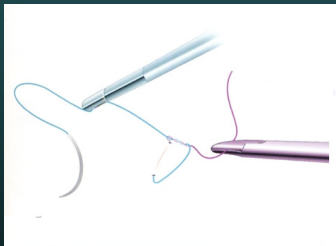
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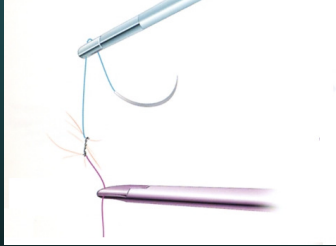
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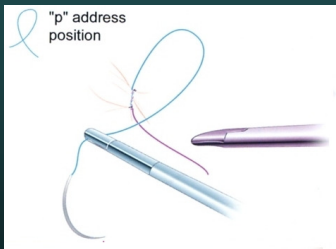
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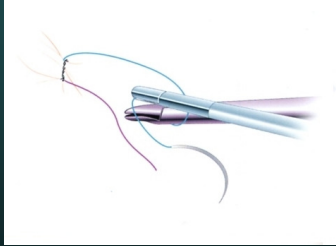
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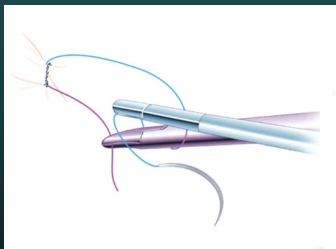
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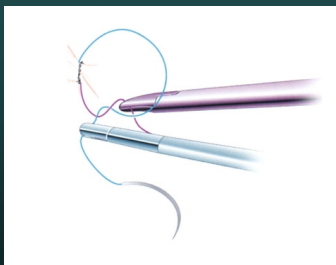
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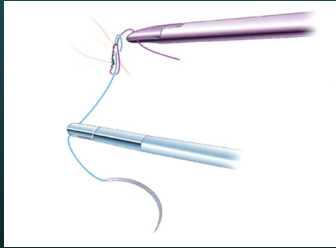
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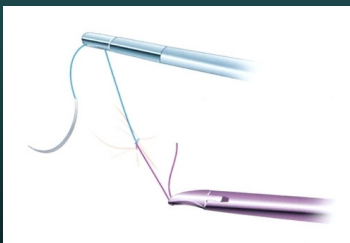
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✓ [C-technique](#)



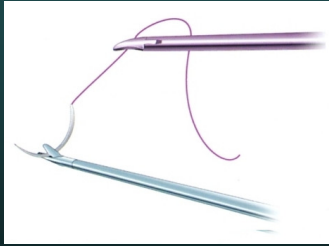
Simley technique



Simley technique

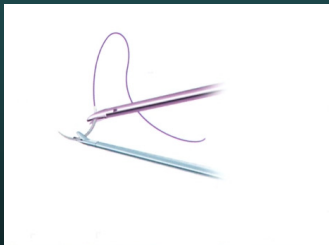


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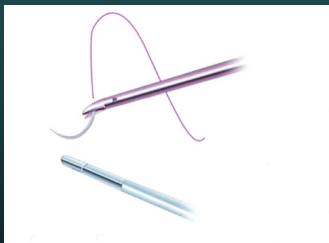
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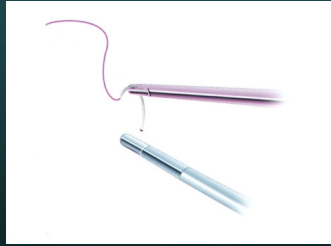
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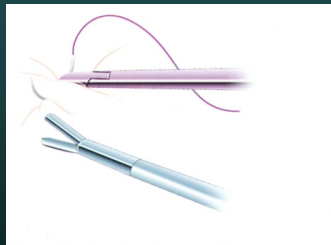
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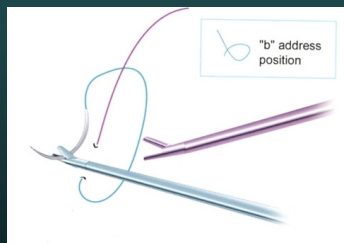
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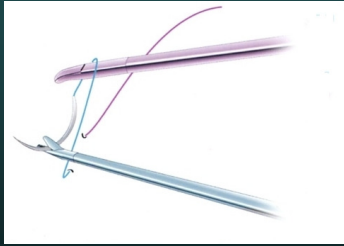
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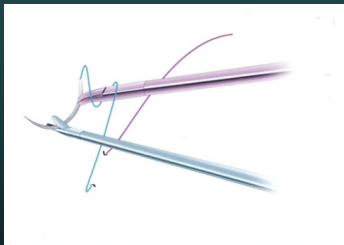
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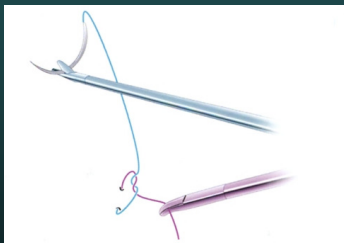
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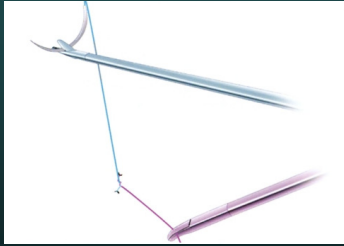
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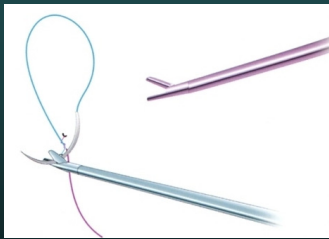
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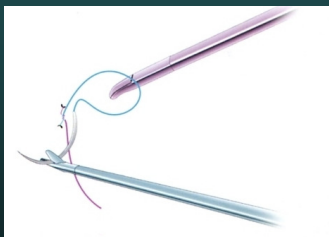
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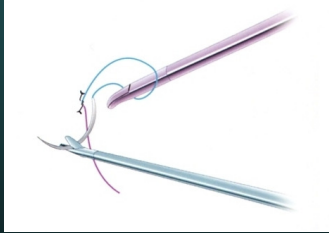
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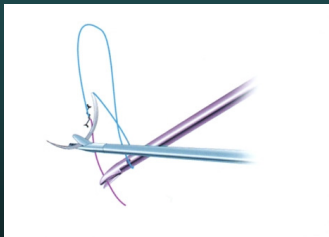
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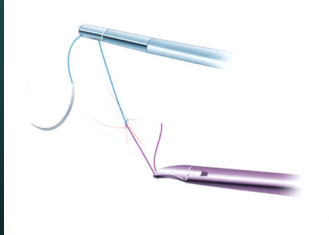
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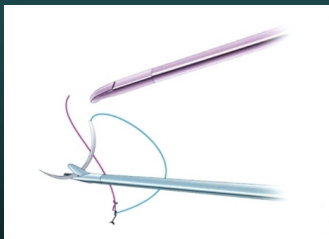
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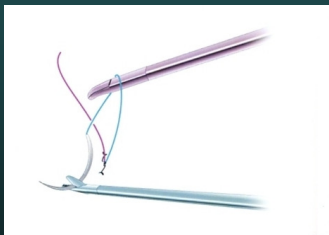
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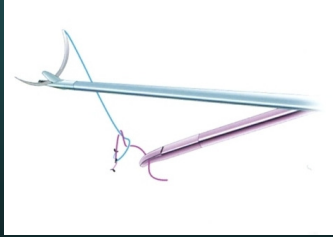
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Simley technique



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Simley technique

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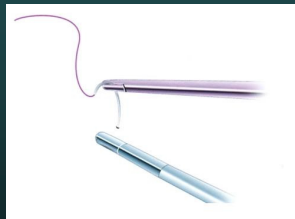
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Cinch technique



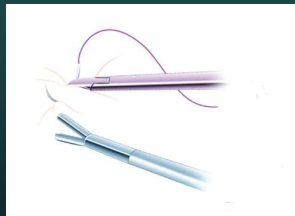
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Cinch technique



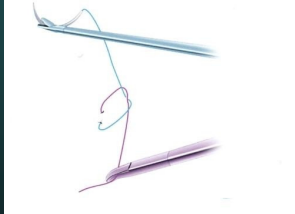
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Cinch technique



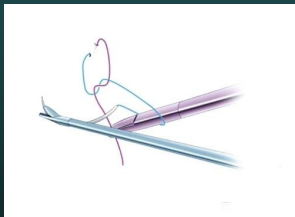
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Cinch technique



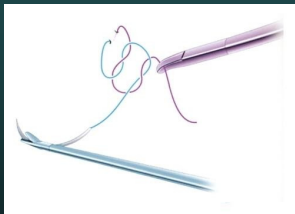
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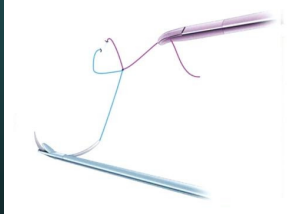
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Cinch technique



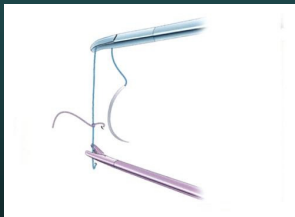
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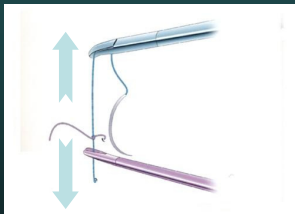
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Cinch technique



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Cinch technique



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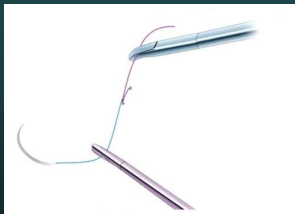
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Cinch technique



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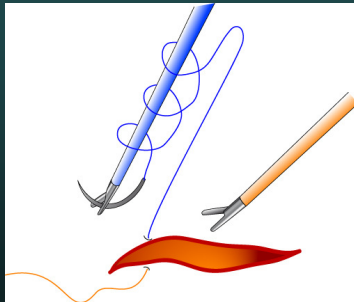
Cinch technique

✓ [Cinch](#)



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Spaghetti or Noodle technique



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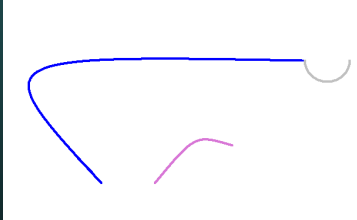
Noodle technique

✓ [Spaghetti / Noodles](#)



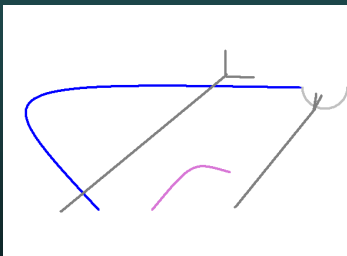
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Gladiator's technique



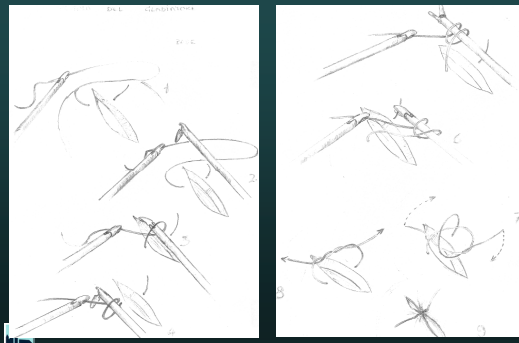
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Gladiator's technique



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Gladiator's technique



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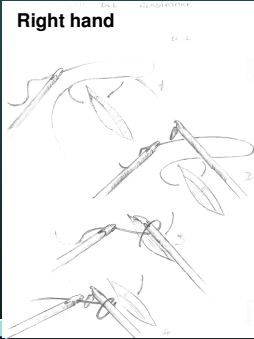
Gladiator's technique

✓ [Gladiator](#)






Gladiator's technique

Right hand



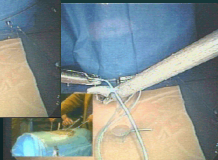

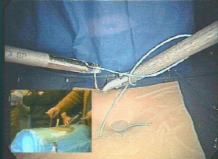


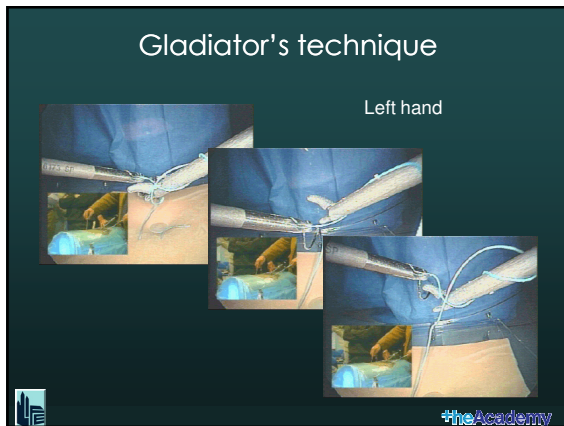
Left hand

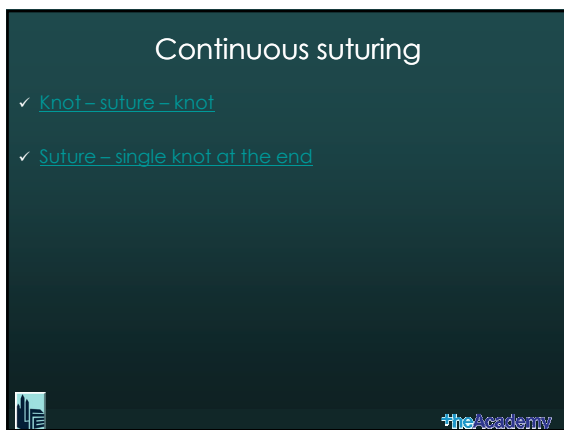


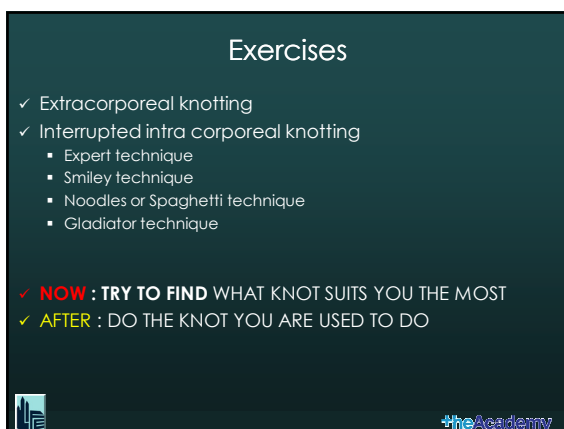
Gladiator's technique

Right hand









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