

Objectives

- Understand the complexity of laparoscopic suturing and the rationale for training.
- ✓ Understand ergonomic principles.

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 Understand extracorporeal knot, intracorporeal knot.







Day 1

- ✓ Objective:
 - Evaluate skills status on individual basis
 - Suturing
 - Both hands use in laparoscopic surgery

✓ Practical part

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- Needle introduction
- Needle orientation
- Tissue approximation

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Day 2

- ✓ Objective
 - Understand laparoscopic knotting
- ✓ Practical part
 - Extracorporeal knot
 - Intracorporeal knot

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Day 3

✓ Objective

- Master learned skills
- Implementing trained skills in global surgical practice
- ✓ Practical part
 - Ergonomics
 - Tips and trics

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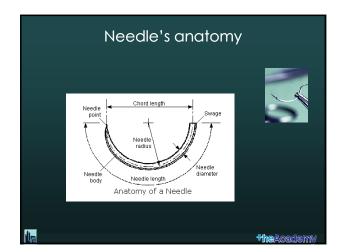
Laparoscopic skill evaluation

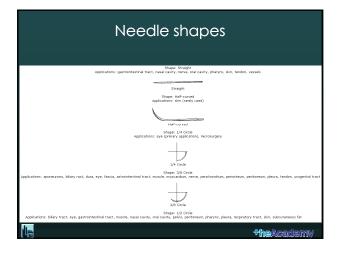
Needle manipulation

- 1. Needle
- 2. Needle holder
- 3. Needle introduction trocars
- 4. Loading the needle
- 5. Suture

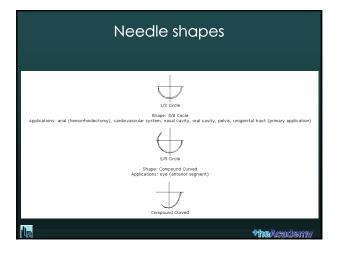
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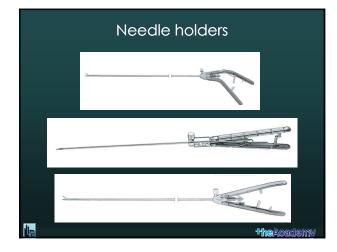








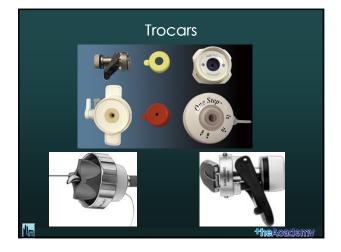




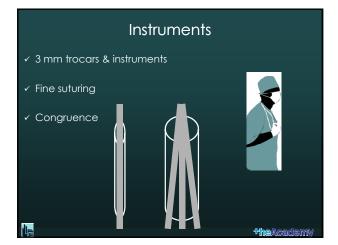
















Needle extraction

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✓ 10mm trocar

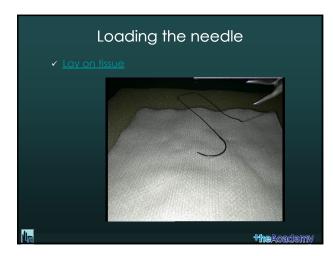
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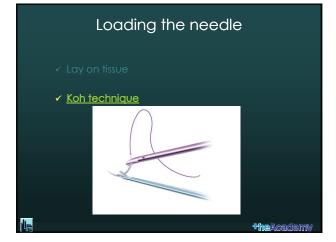
- ✓ 5 mm trocar:
 - Straiten the needle using 2 needle holders

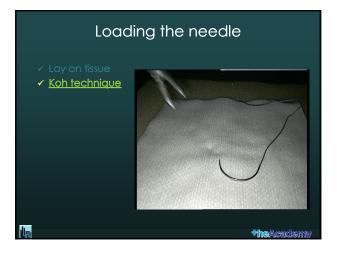
Loading the needle

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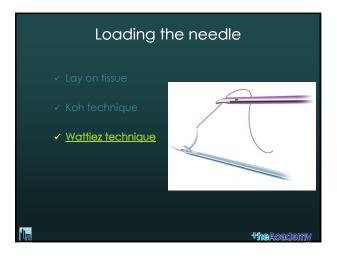
- ✓ Lay on tissue
- ✓ Koh technique
- ✓ Wattiez technique
- ✓ twist

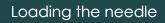






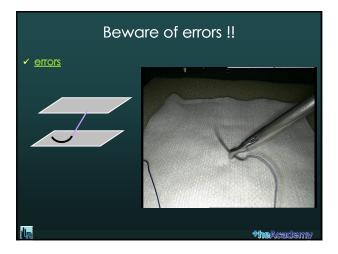


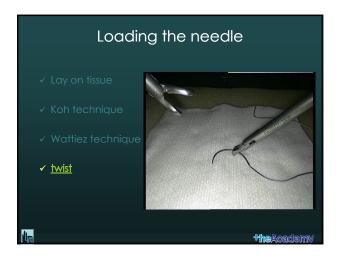


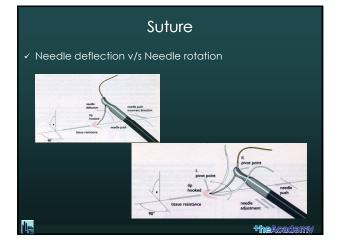


✓ Lay on tissue
✓ Koh technique
✓ <u>Wattiez technique</u>







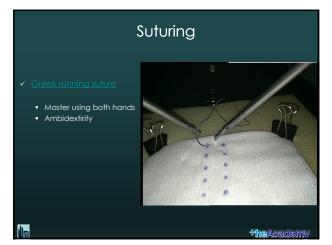


Suturing

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Master rotation principleTrain one hand at a time





Exercises

- ✓ Needle insertion through trocars
- $\checkmark\,$ Loading the needle

 - Lay-on
 Koh
 Wattiez
 twist
- ✓ Suturing WITHOUT KNOTTING

Greek line

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