

Institute of Surgical Research

„C” Module – Advanced Medical Skills

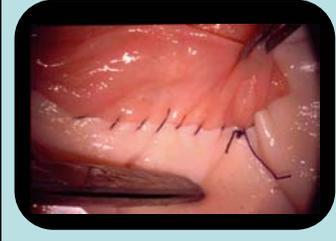
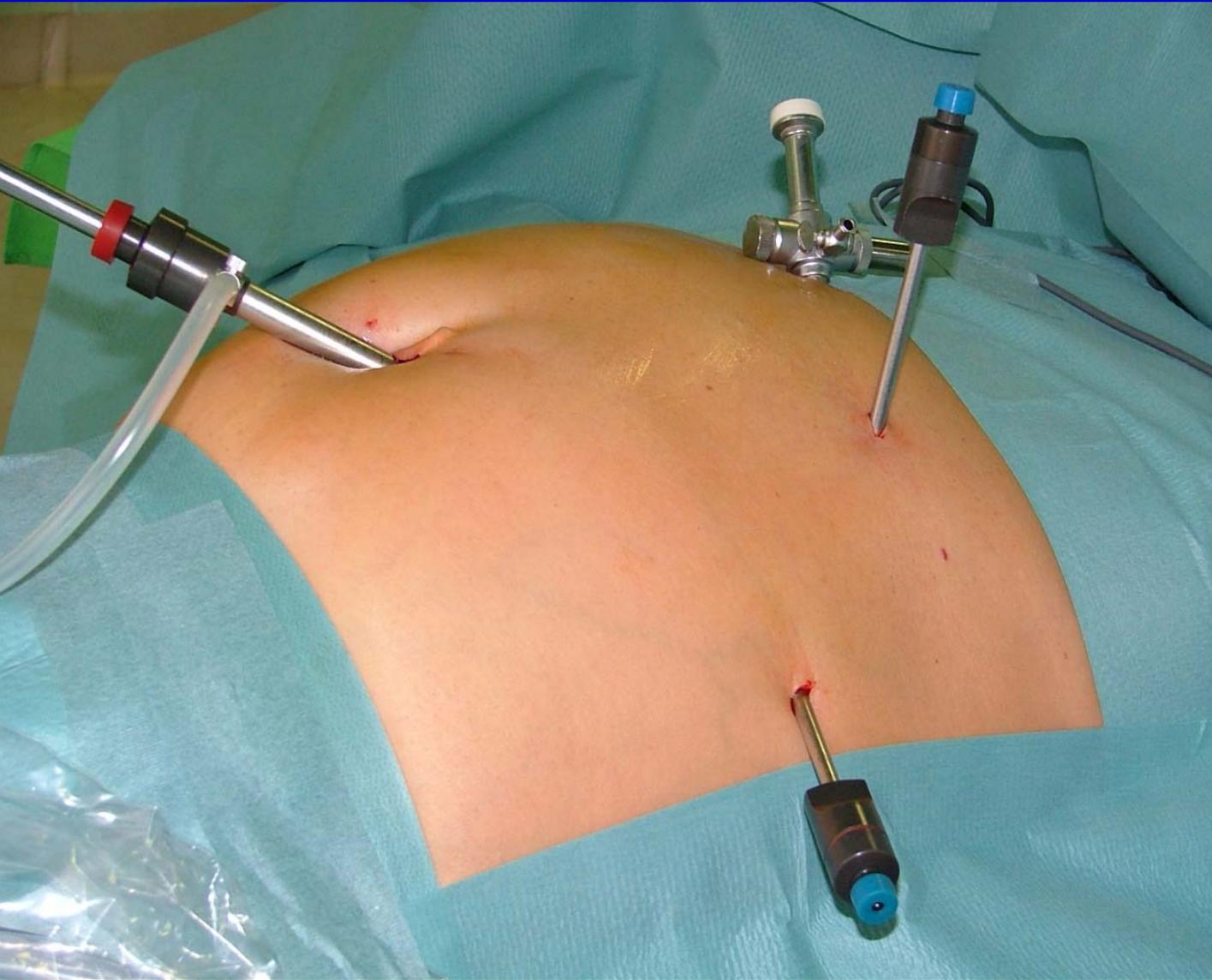
C1-2 MODULE – Minor Surgical Skills. Advanced suturing

C3-4 MODULE – Operations in practice

C5-6 MODULE – Minimally invasive surgery



Steps of Surgery

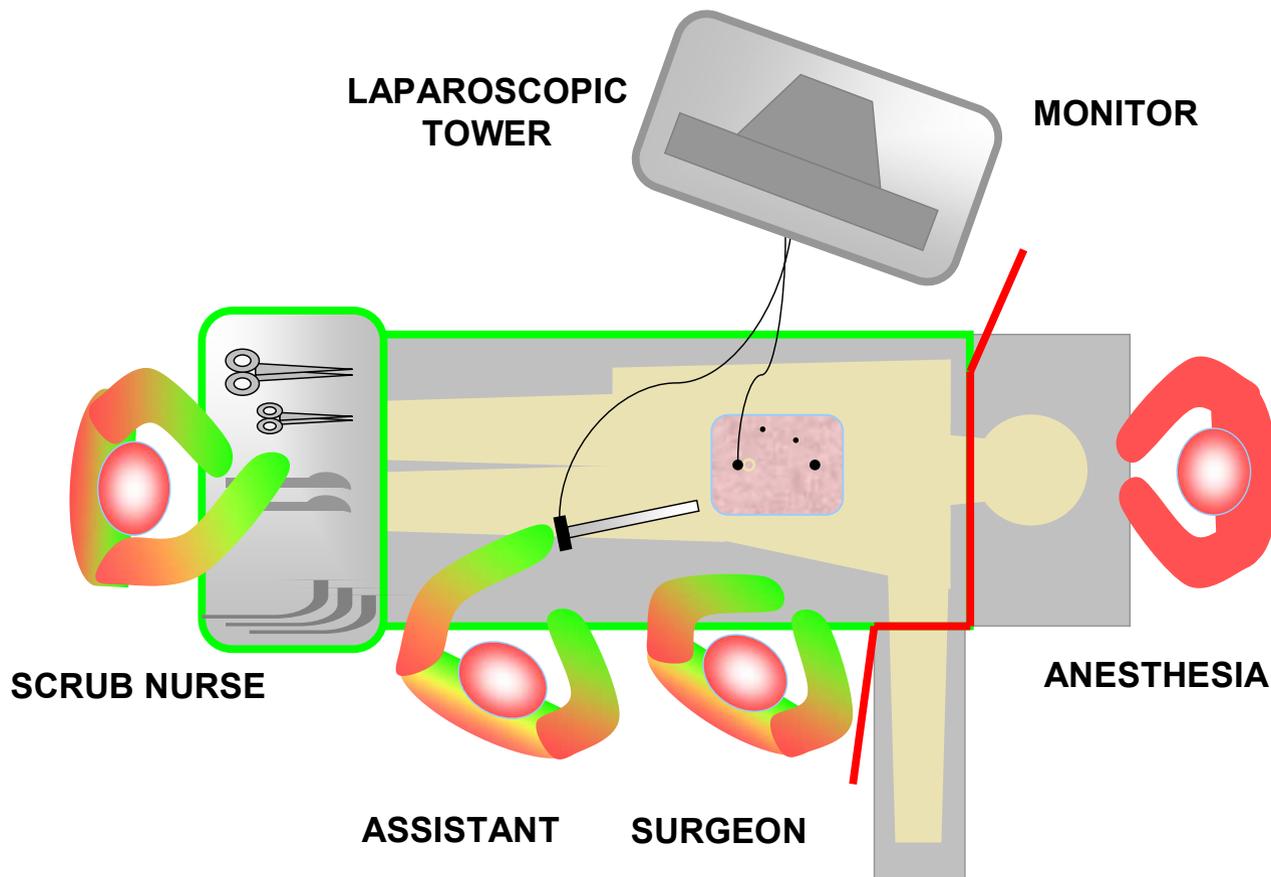


light source

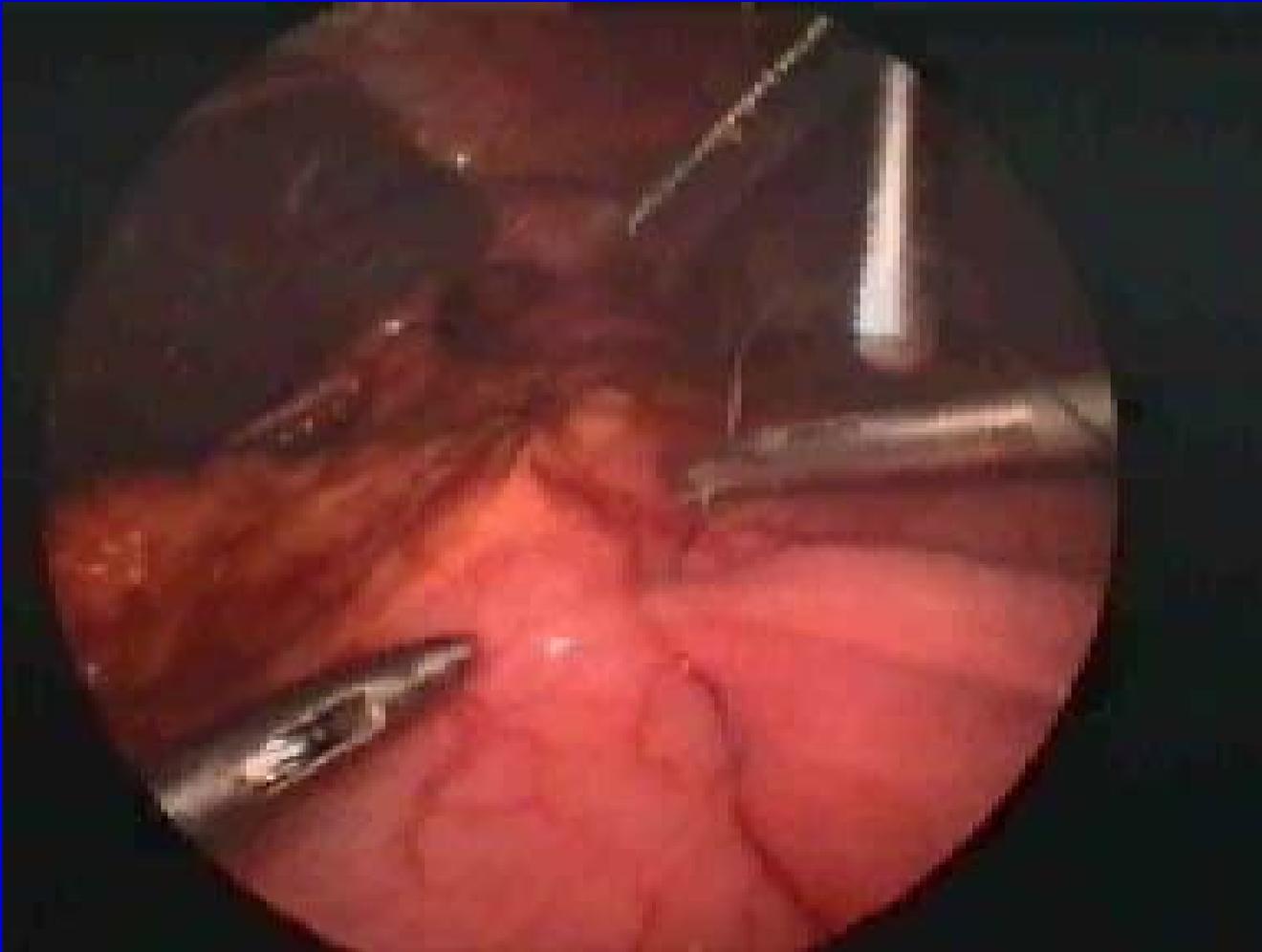
insufflator(CO₂)

diathermy
suction/irrigation

Setup



Video gastro-entero anastomosis



Surgical training
Basic endoscopic skills

Technical difficulties

Two dimensional approach

Special requirements of hand coordination (long instruments, limited movement)

Handling of bleeding

Need for rinsing/suctioning

Humidity in a closed cavity

Tying of knots

- Depth perception by touching
- Pelvitrainer training
- Electrocoagulation
- Special devices
- Warm saline on the optics
- Pelvitrainer training

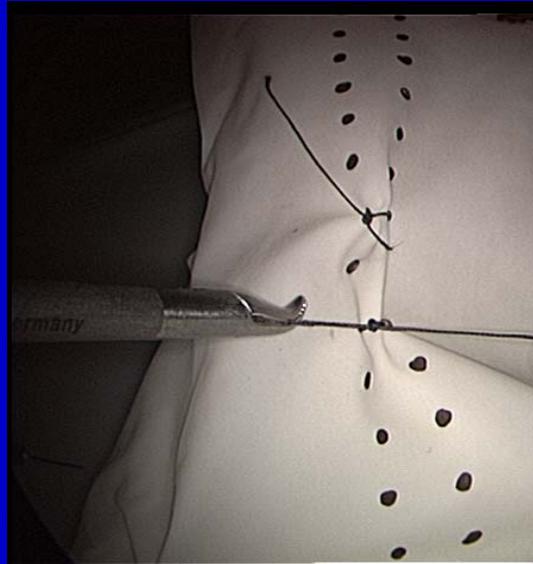
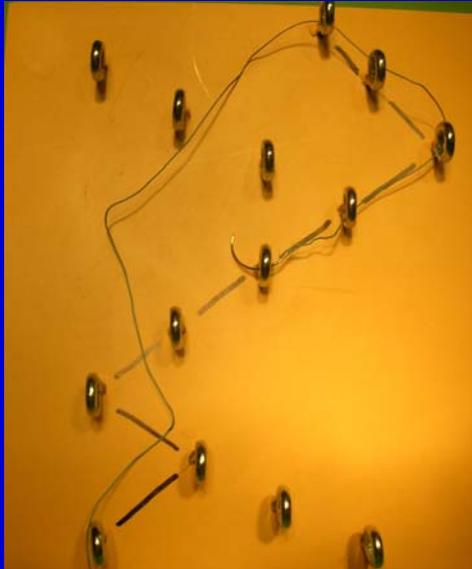
The „pelvi-trainer”



Simulator box used for suturing and tying knots

Training Goals

- Coordination exercises
- Incisions, suturing
- Laparoscopic knotting technique



Video intracorporal knotting



Schedule

6-8 students (60 min)

Coordination exercises
Incisions, suturing
Laparoscopic knotting
technique

Laparoscopic training

6-8 students (60 min)

Practical exam:

B/1 Braunule placement, setting up
an infusion

B/2 Urinary bladder catheterization

C Minor skin procedures (in pairs)

- naevus removal
- closure

Practical exam

