## Basic Laparoscopy

### Procedural steps
1. Check materials
2. Positioning patient
3. Trocar insertion
4. 3-dimensional orientation and movement
5. Usage of the camera
6. Cutting
7. Grasping
8. Tissue dissection
9. Applying appropriate traction to tissue
10. Smooth clipping
11. Solve bleedings
12. Suturing, handling needle driver

### Simulator
- Box trainer

### Pitfalls technical skills
- Counter-intuitive movement/fulcrum effect
- Eye-hand coordination
- Anatomical orientating
- Image interpretation (2D-3D)
- Tissue handling
- Lack of experience in open procedure or anatomy
- Orientation of position of patient with regards to position of instruments

### Pitfalls non-technical skills
- Lack of knowledge of materials
- Insufficient preparation
- Trouble shooting in material or equipment errors
- Progress of procedure in case of difficulties in orientation
- Teamwork operator/assistance
- Risk assessment in decision to convert to open
- Knowledge of anatomy (difference open and laparoscopic procedure)

### Tasks

#### Task 1: Peg Transfer

![Peg Transfer Image](image1.jpg)

#### Task 2: Cutting a Circle

![Cutting a Circle Image](image2.jpg)

#### Task 3: Single knot tying

![Single Knot Tying Image](image3.jpg)

#### Task 4: Clip & Cut

![Clip & Cut Image](image4.jpg)

#### Task 5: Needle guidance

![Needle Guidance Image](image5.jpg)