



BUITENGEWOON

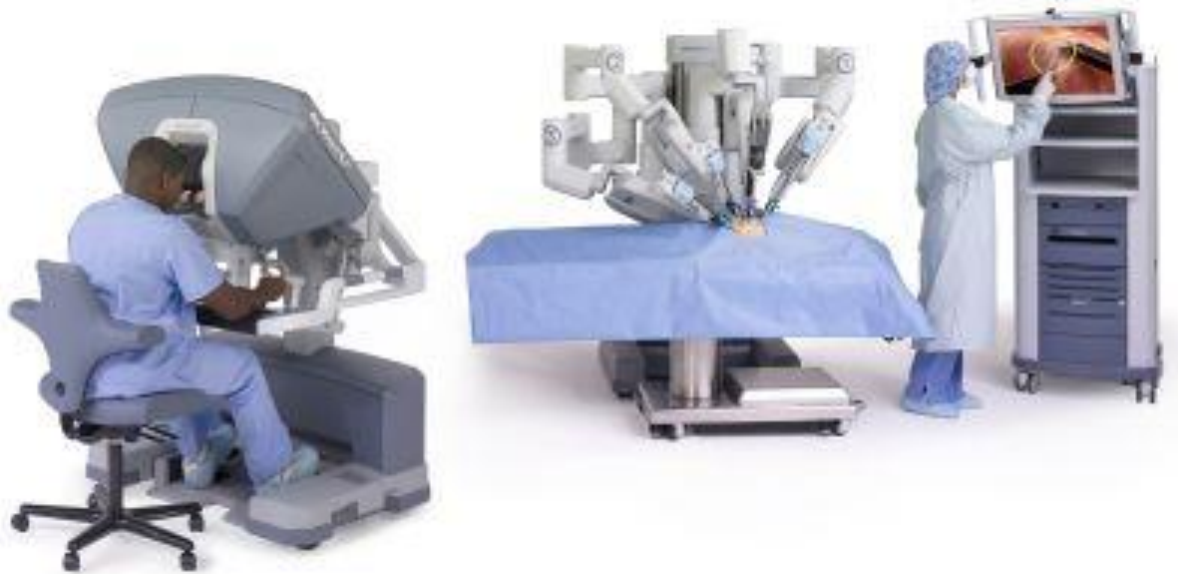


Eerste Nederlandse ervaringen met Medtronic Hugo™ RAS robotchirurgie

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Elisabeth – TweeSteden Ziekenhuis, Tilburg, NL

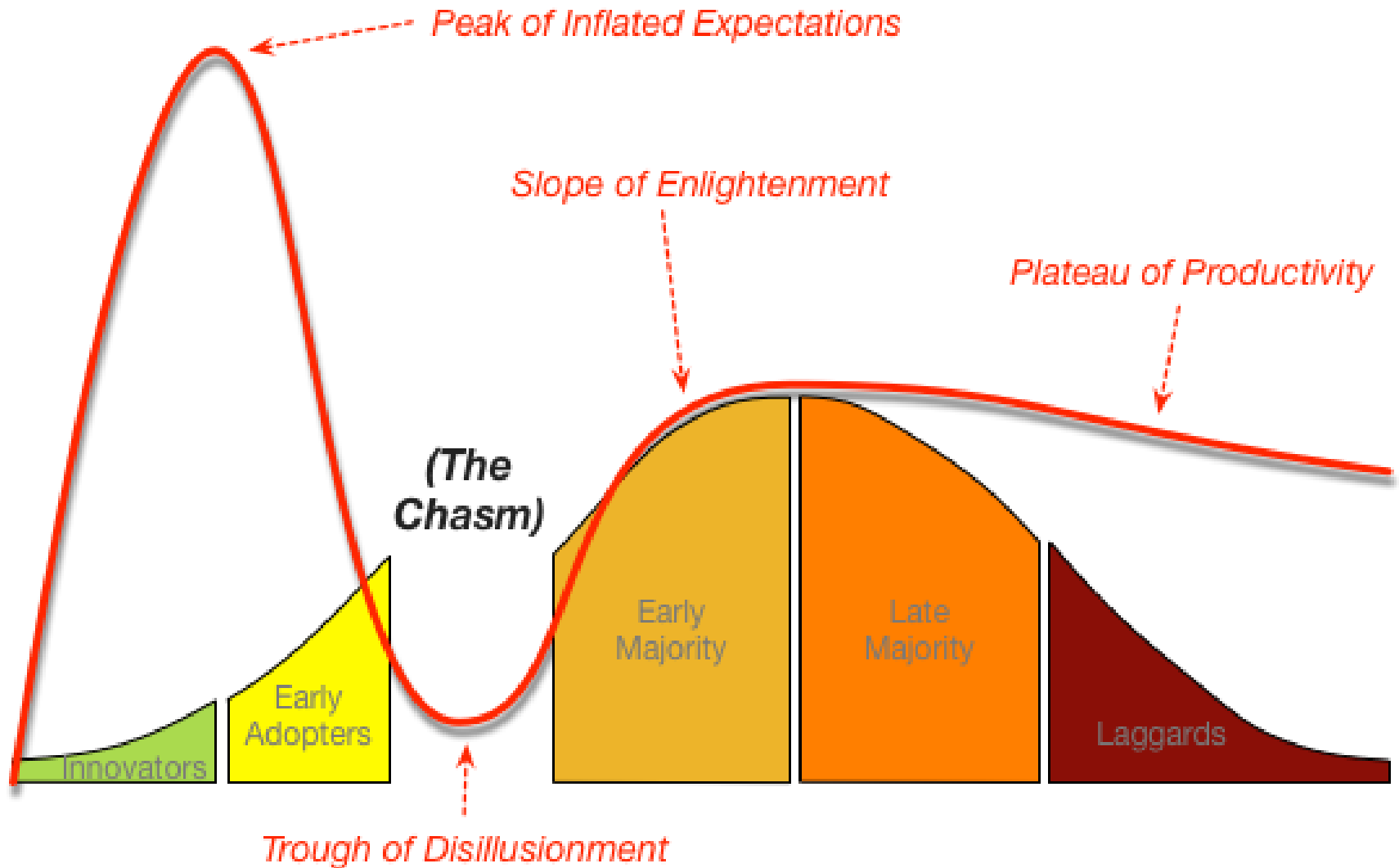




**Geen toekomst denkbaar zonder robotchirurgie,
echter vooralsnog financieel niet (realistisch)
haalbaar!**







Global expectations

- Decrease Conversion Rate
- Decrease LoS
- Improved resection margins
- Improved Surgeon Ergonomy
- Improved functional outcome



Local expectations

- Improved Surgeon Ergonomy
- Improved functional outcome and WIT
- Platform new Technology (AI, AR)
- Strategic concerns
 - Patient demand
 - Regional choices / centralisation/ EMBRAZE
 - **No conceivable surgical future without Robotics**



Our aim

“Implement Robotic Surgery
in a *Cost-effective* and
Efficient manner..”



2019

2020

2021

2022

2023

THE
**NEXT
GENERATION**





Our aim

“Implement Robotic Surgery
in a *Cost-effective* and
Efficient manner..”



2019

2020

2021

2022

2023



Final decision...

2019

2020

2021

2022

2023



Negotiations and contract Medtronic

2019

2020

2021

2022

2023



Simulator Animal & Cadaver training



2019

2020

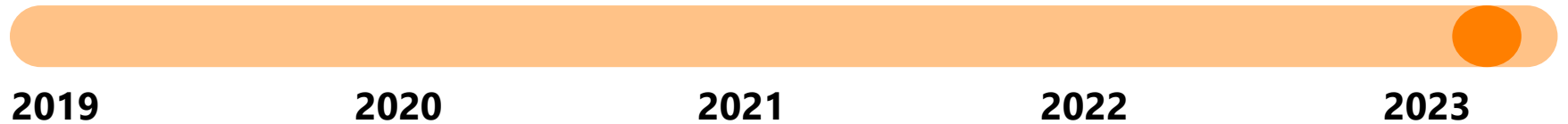
2021

2022

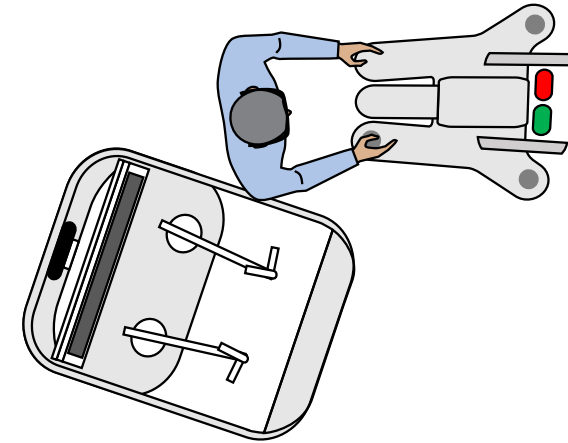
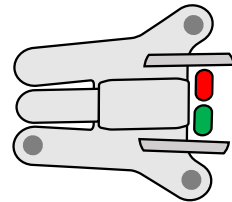
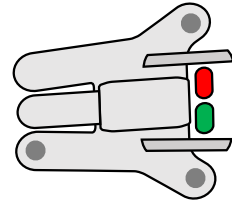
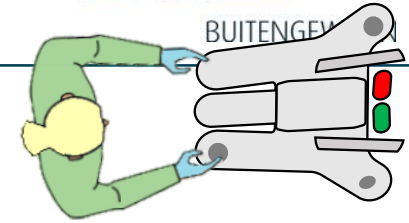
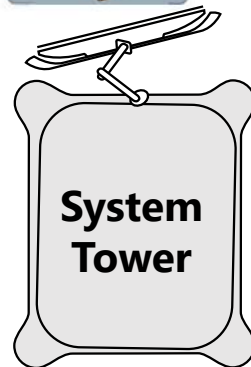
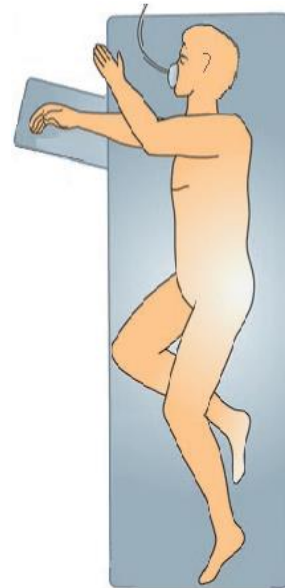
2023



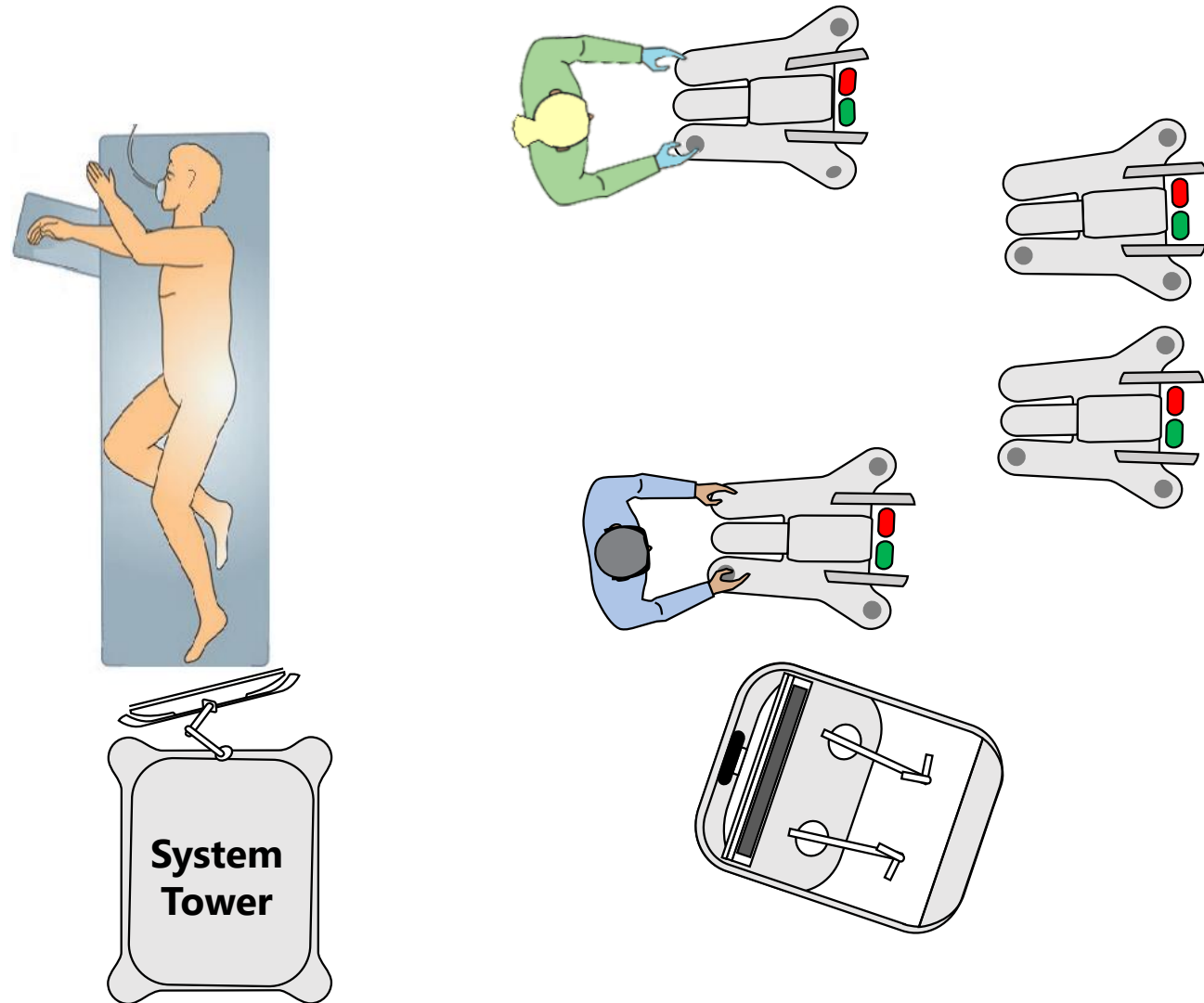
First procedures...



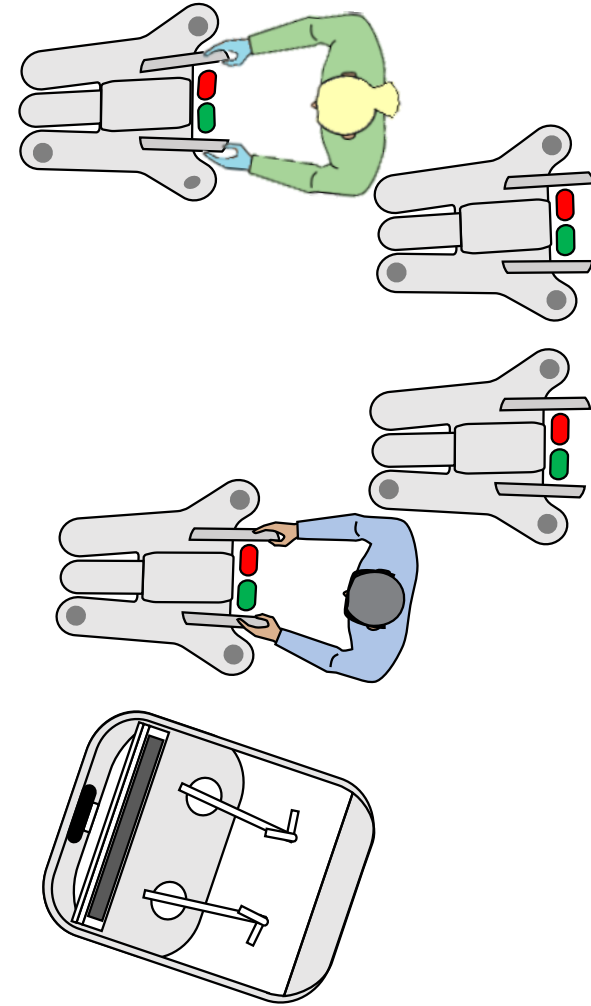
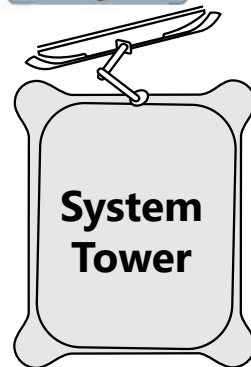
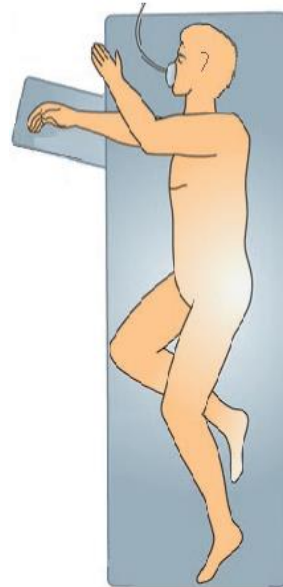
Standardised Setup Left Kidney



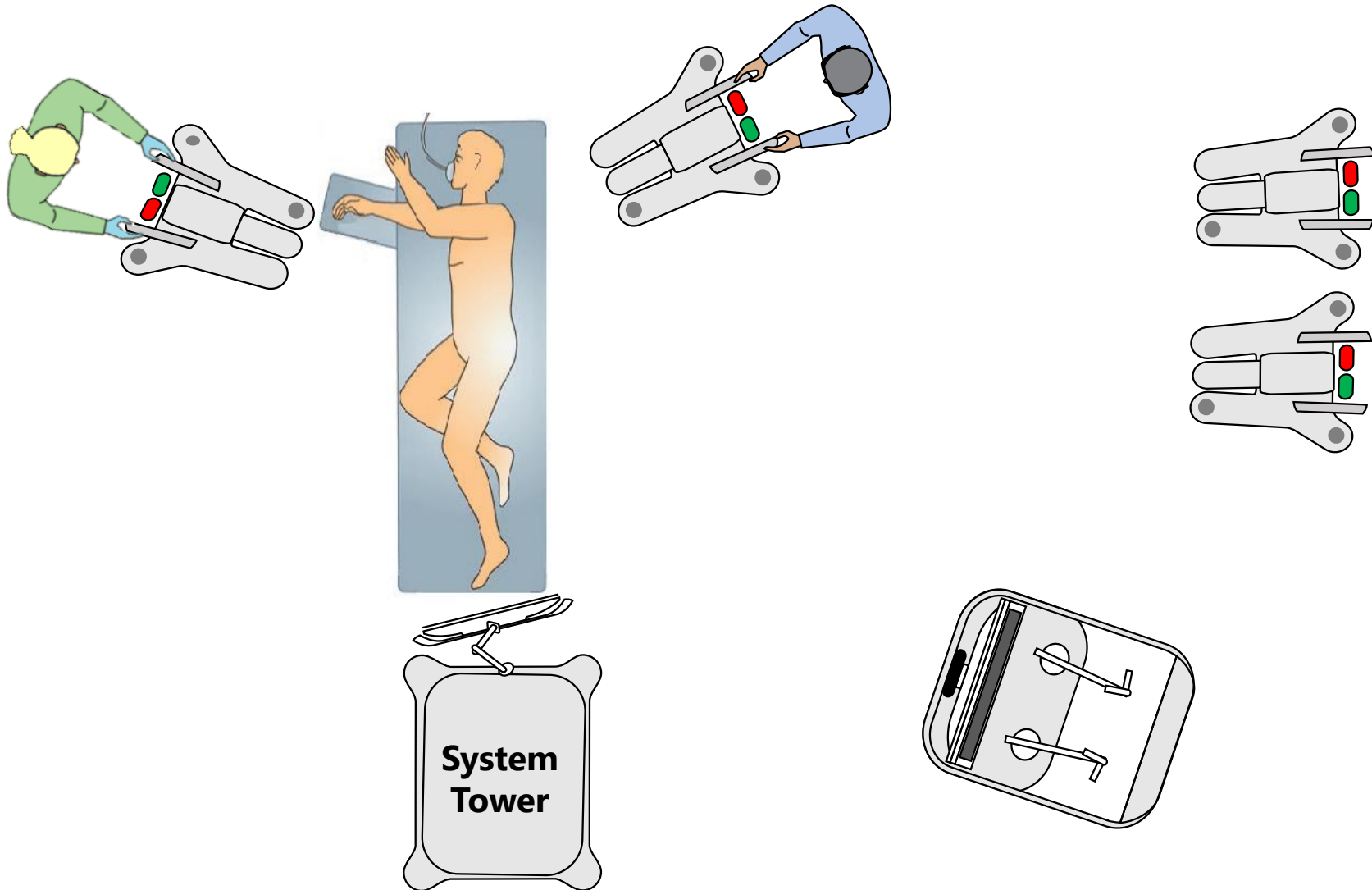
Standardised Setup Left Kidney



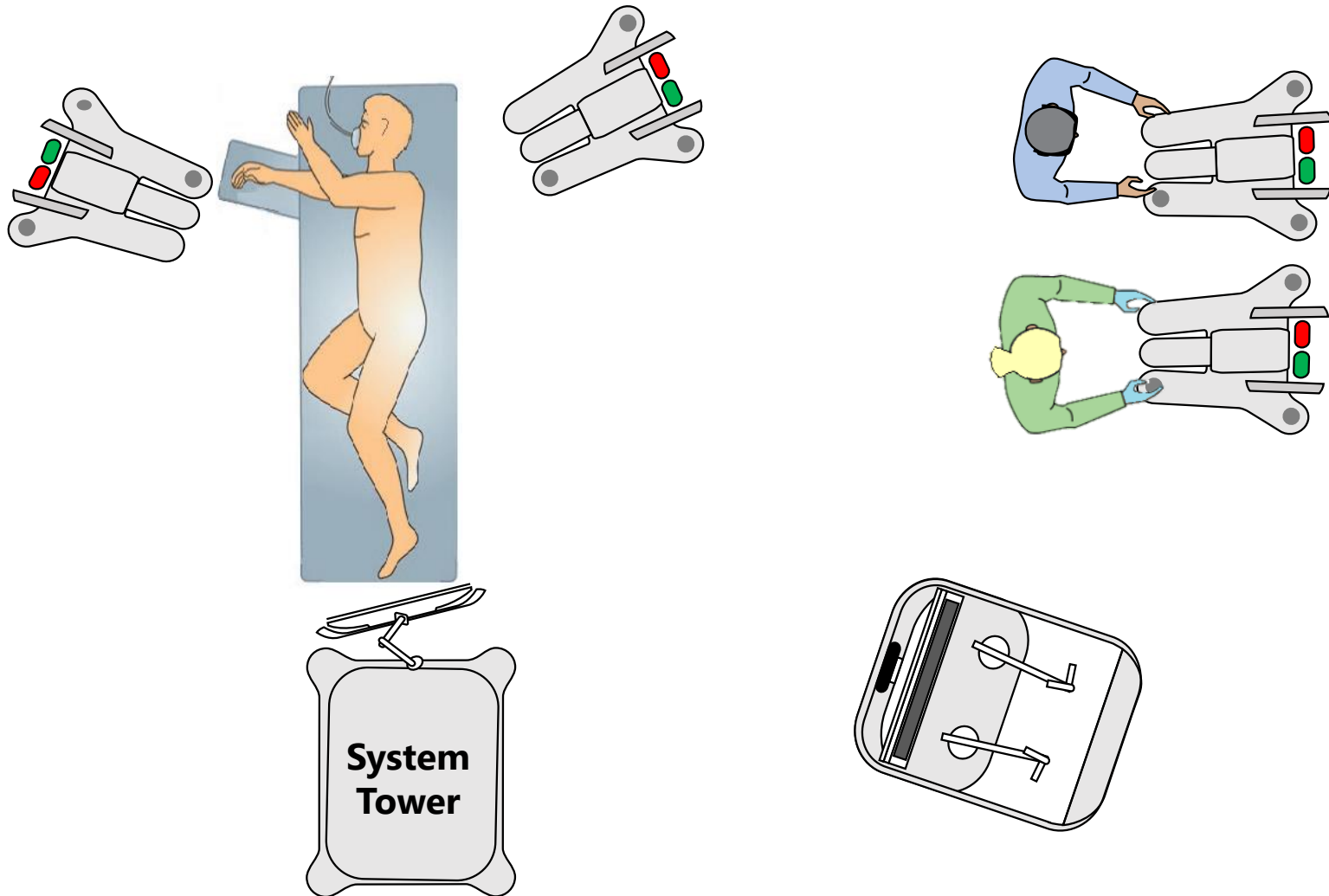
Standardised Setup Left Kidney



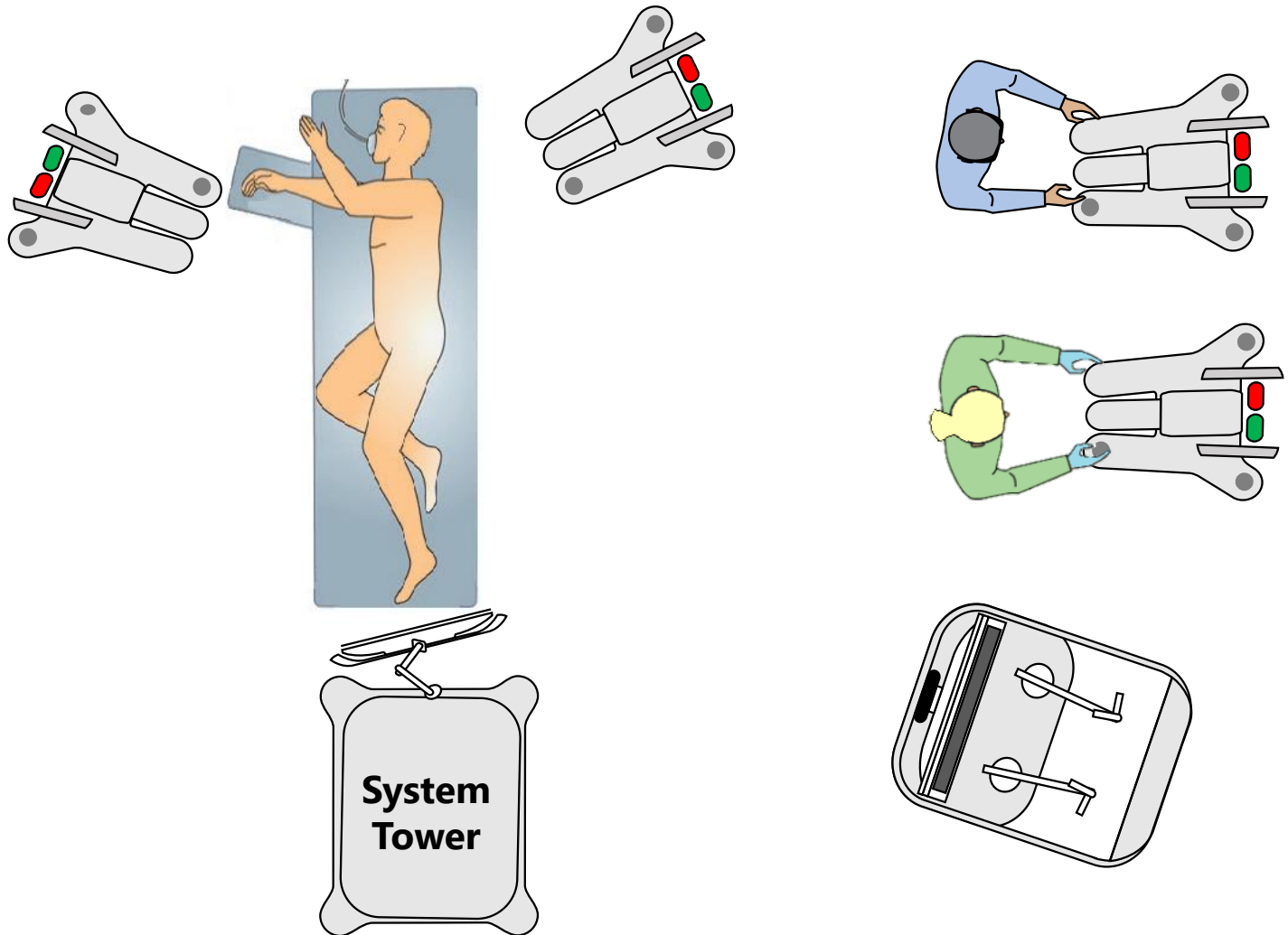
Standardised Setup Left Kidney



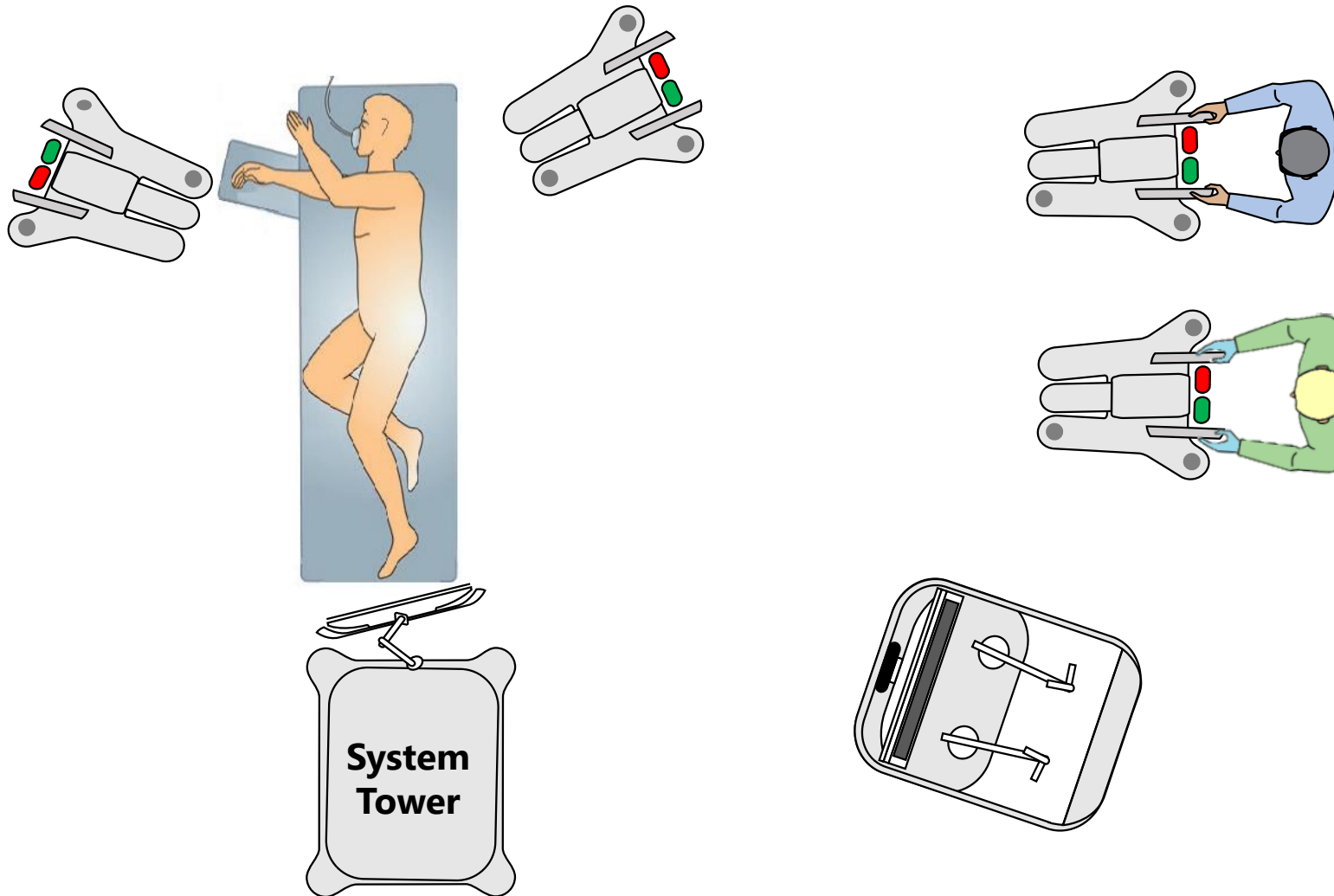
Standardised Setup Left Kidney



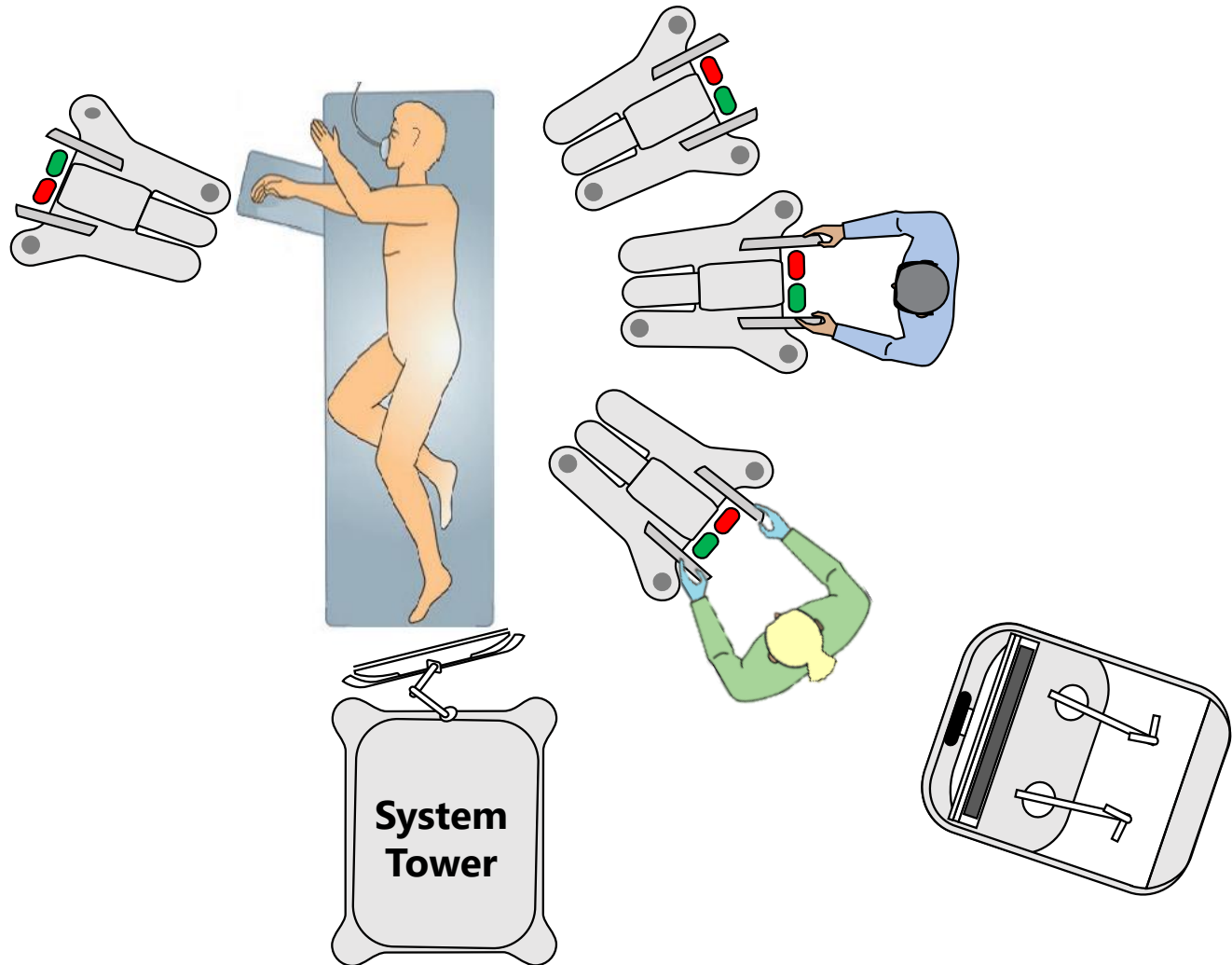
Standardised Setup Left Kidney



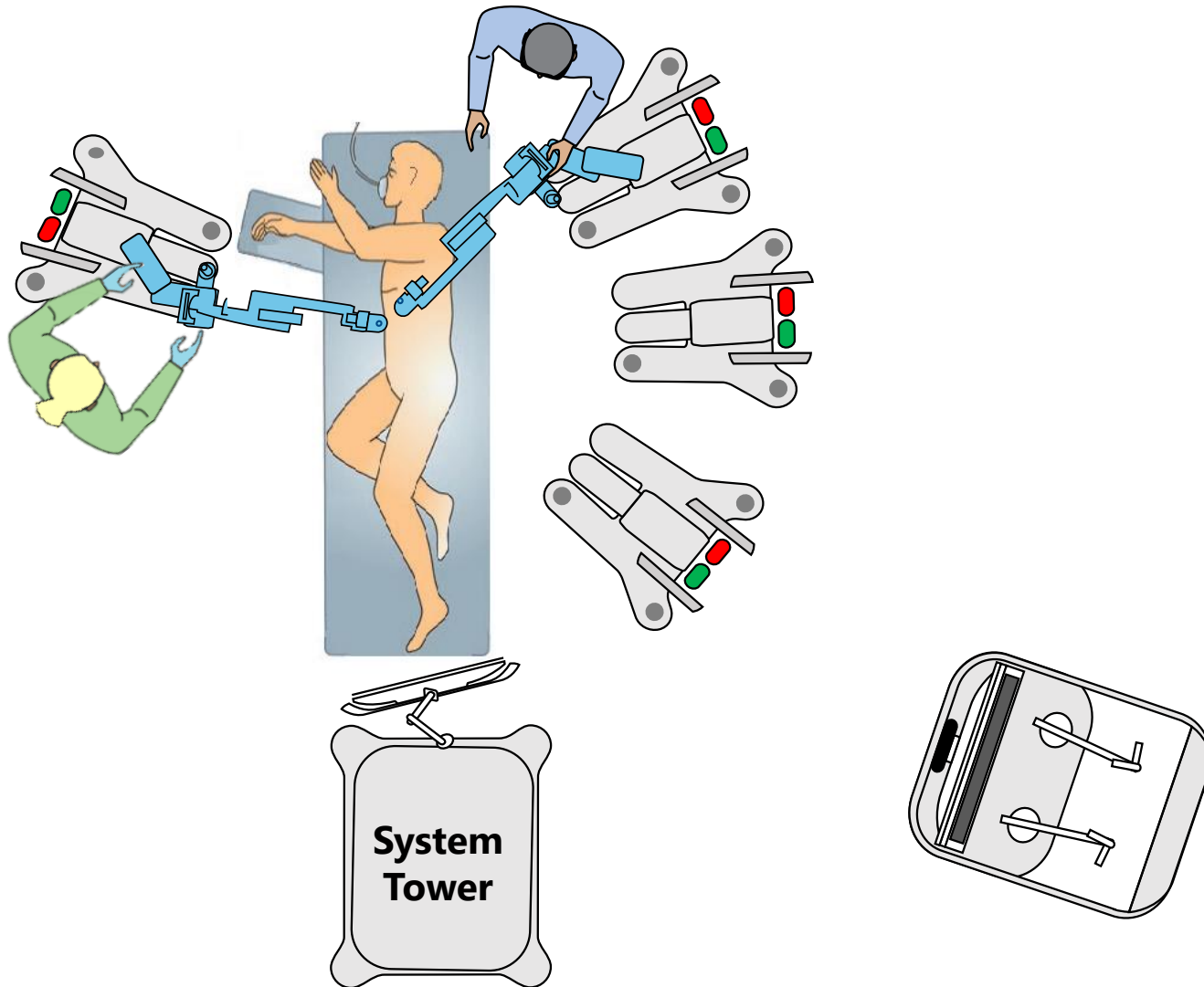
Standardised Setup Left Kidney



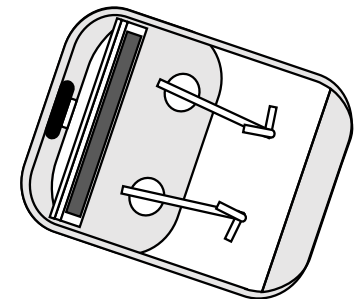
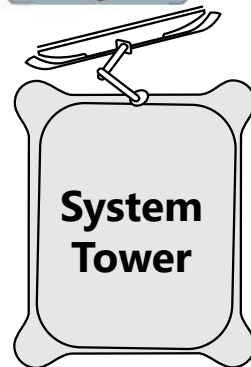
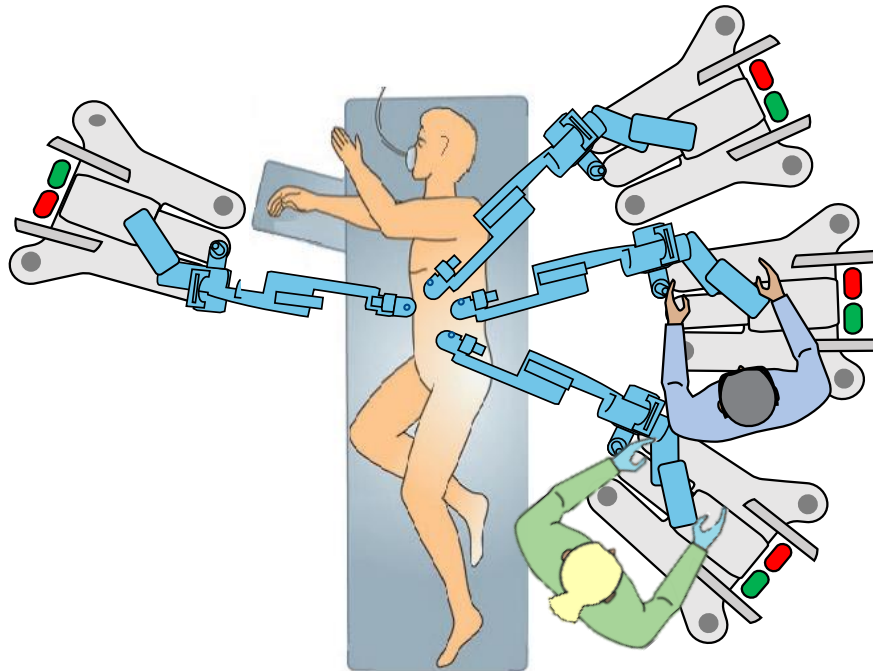
Standardised Setup Left Kidney



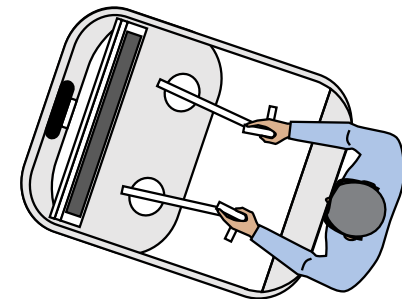
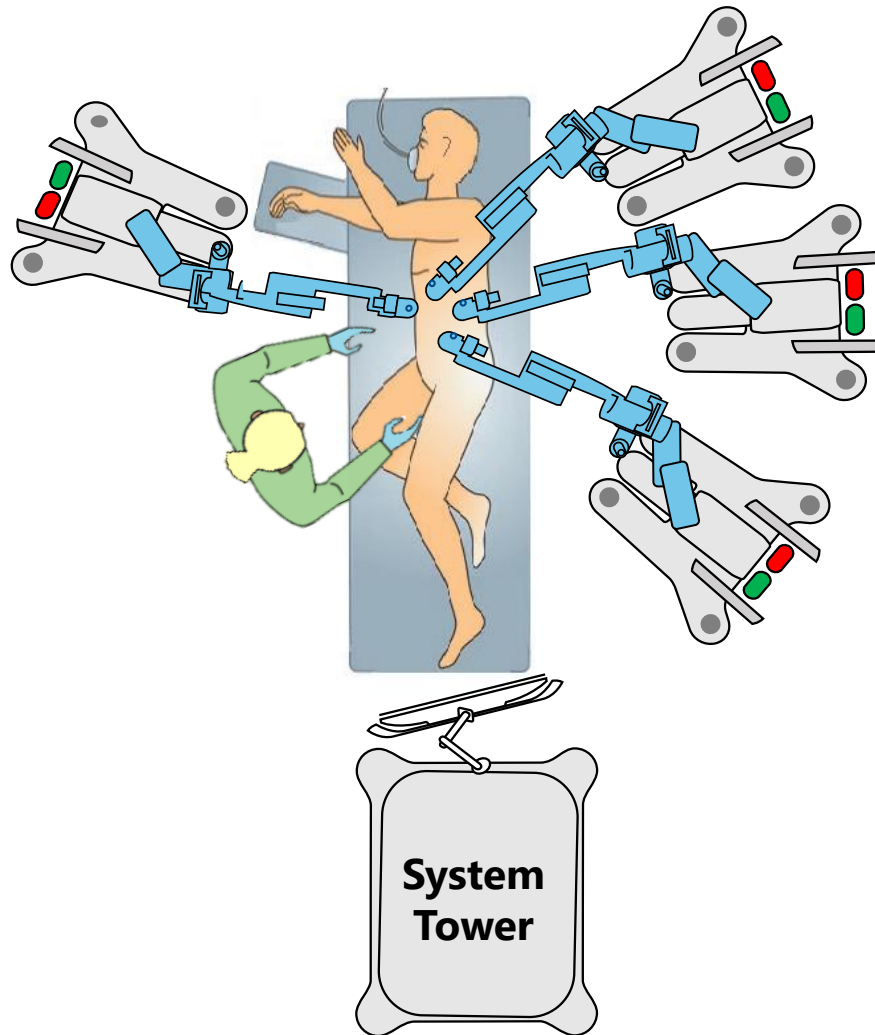
Standardised Setup Left Kidney



Standardised Setup Left Kidney



Standardised Setup Left Kidney



Standardised Setup Left Kidney

**Urologist
Left Hand**

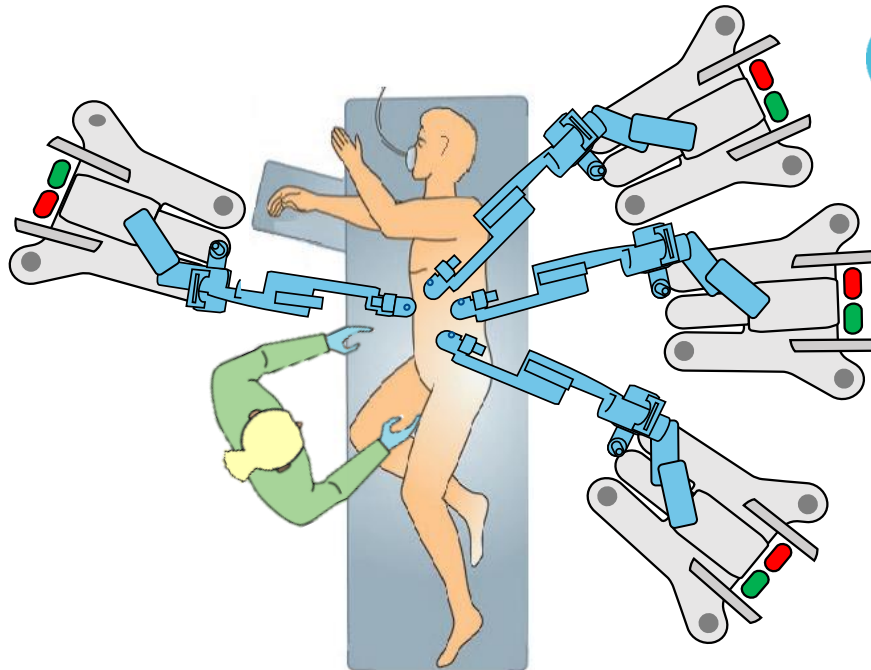
Angle 45°
Tilt -30°



4th Arm
Angle 90°
Tilt -30°

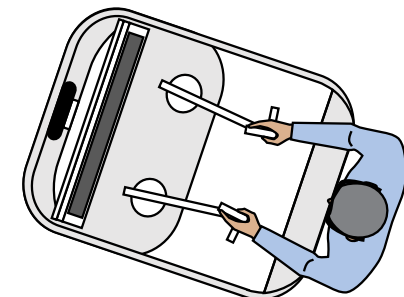
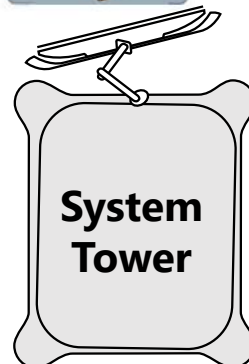


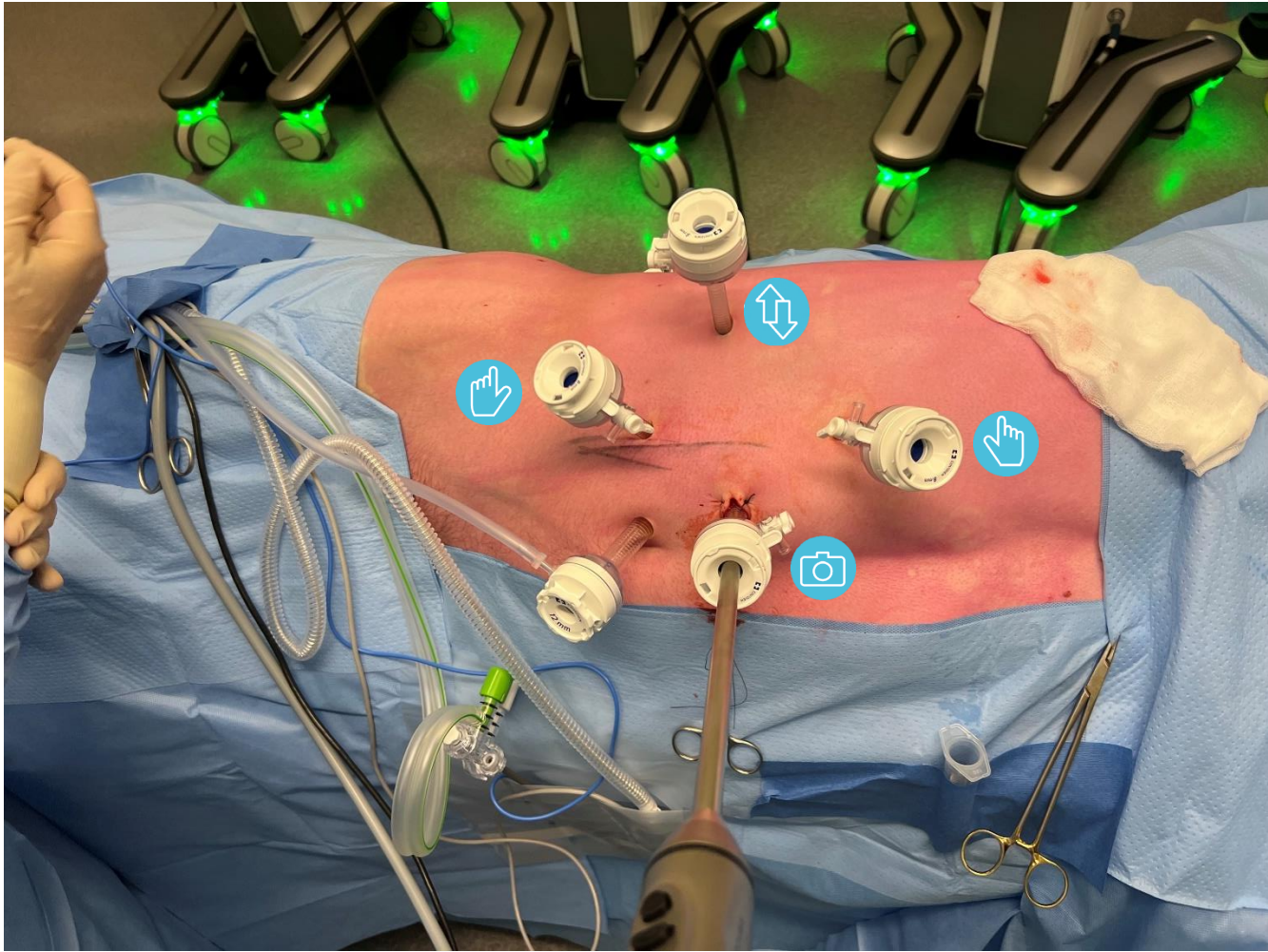
Endoscope
Angle 315°
Tilt +30°



**Urologist
Right Hand**

Angle 135°
Tilt -30°





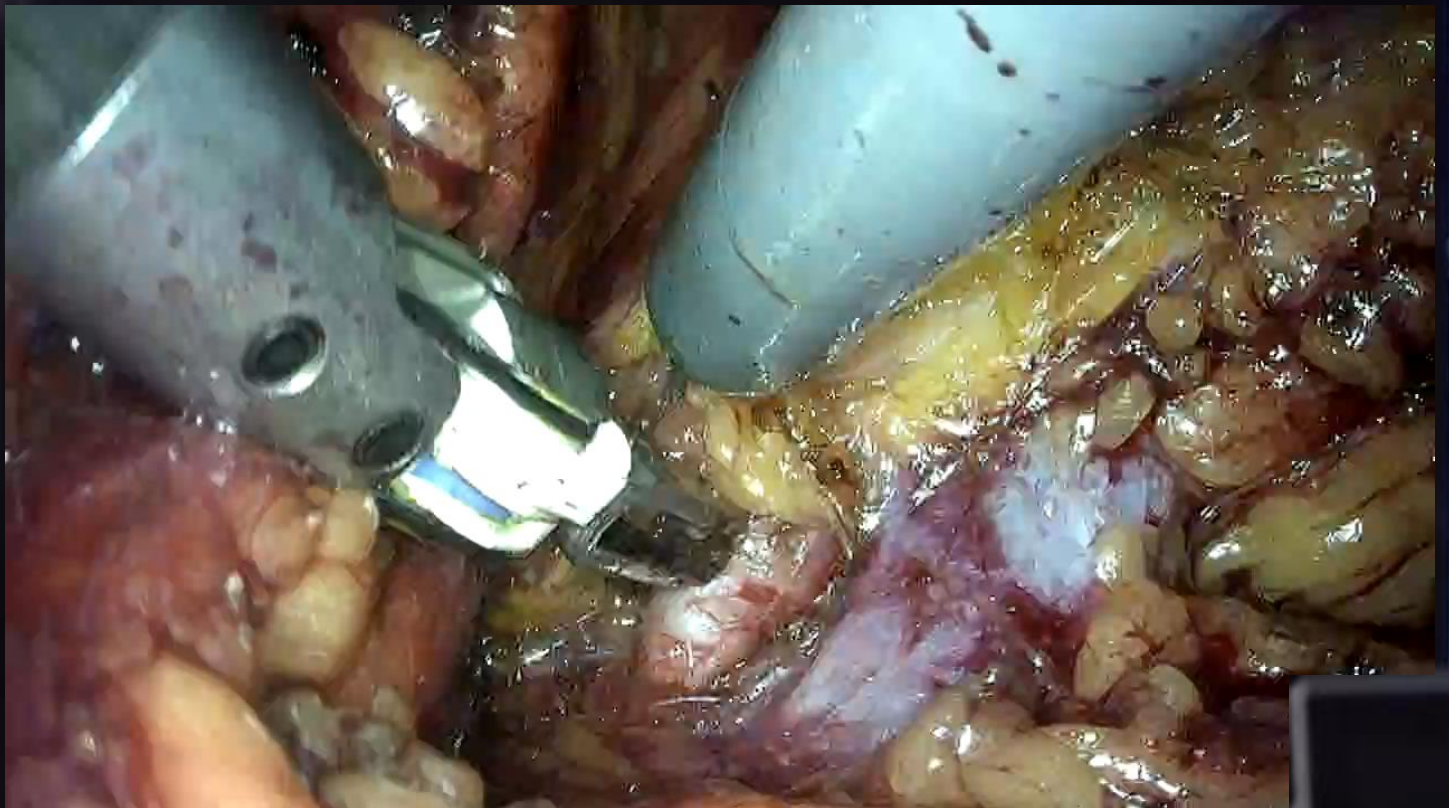


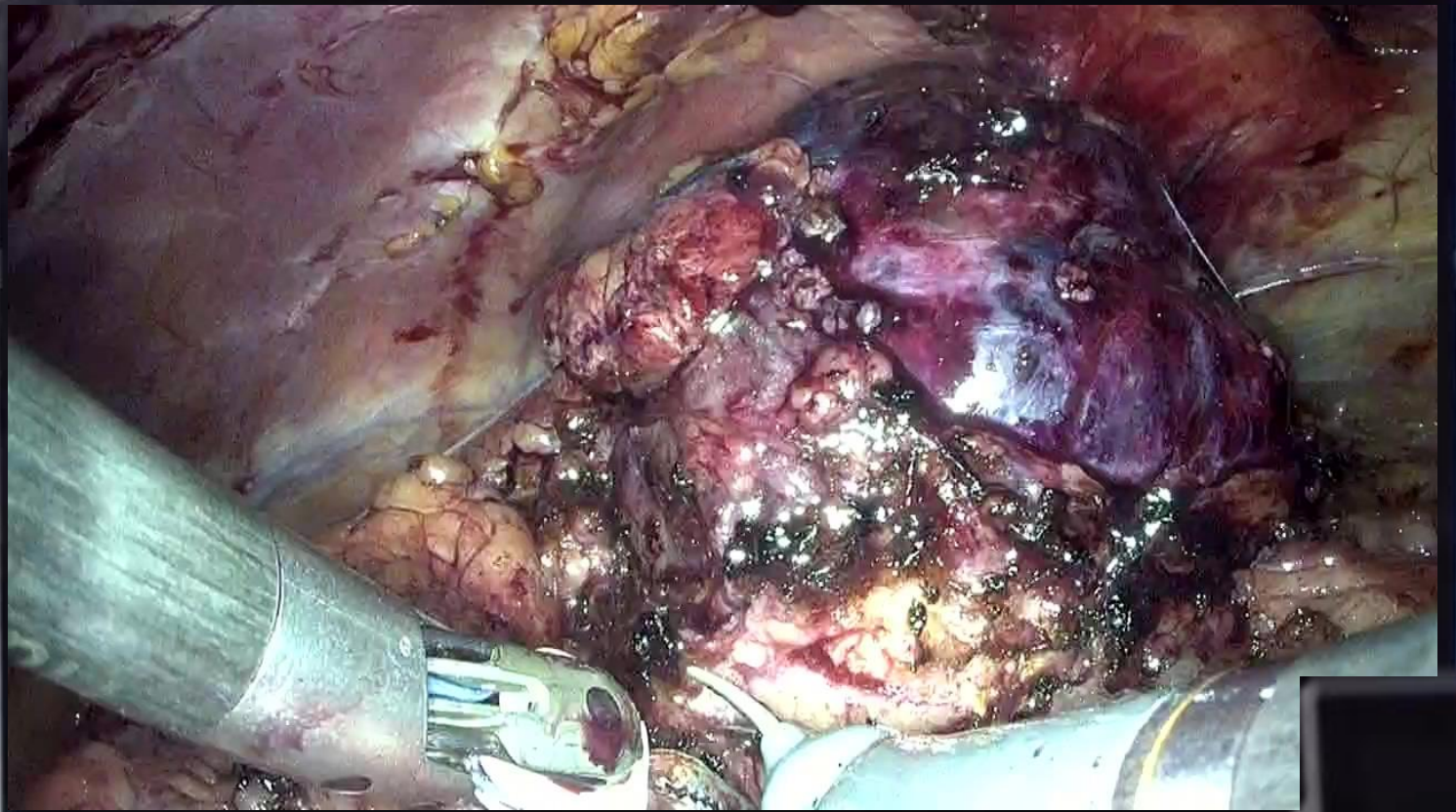


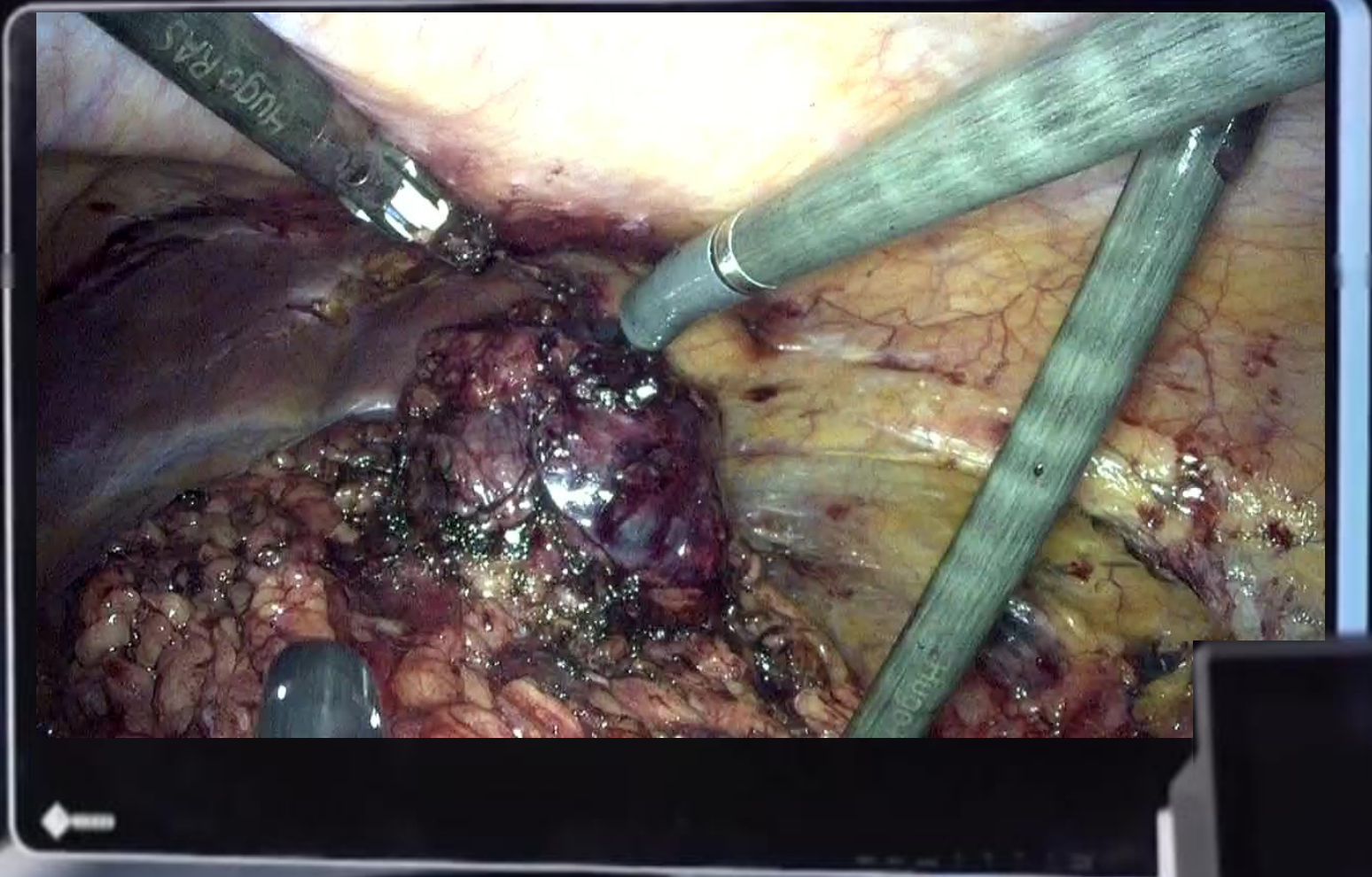


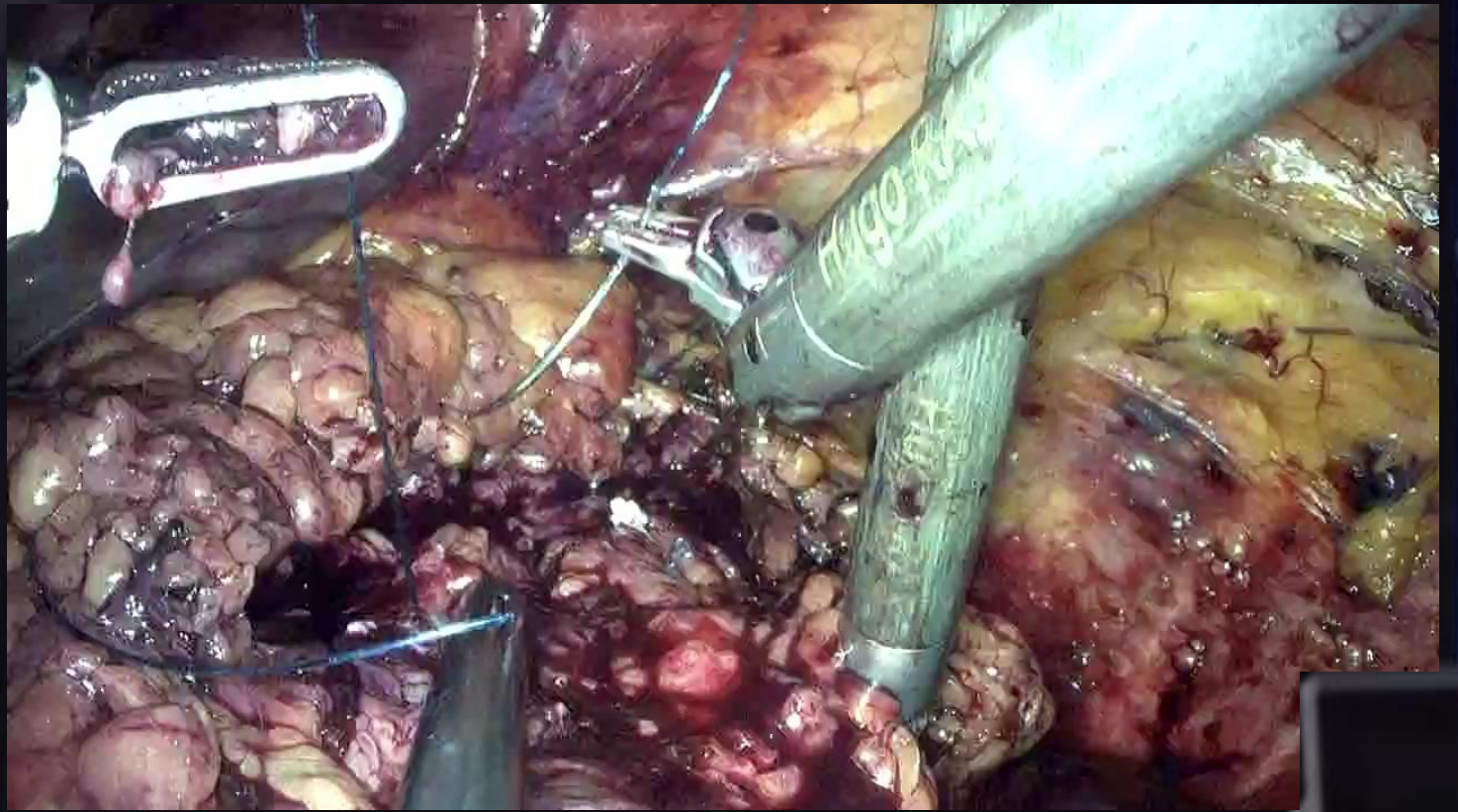
Medtronic

Hugo RAS











In Conclusion...

- Short learning curve for Installation and Docking
- Safe and Quick implementation is Possible
- (Also for Non-Robotic teams)

- Still Novice Robotic Surgeons!
- System does **not** seem to hold us back
- Pricing-model seems to hold
- 1st Generation System!



Dank aan een geweldig team!

