

# Introducing Laparoscopy – Early Review of Results and the Learning Curve.

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- Retrospective review of laparoscopic cases performed in Jamaica by the same surgeon.
- April 2010 to February 2012 – 22 months
- Total of 26 laparoscopic cases performed
- In all but one institution this was the the first time this surgery was being performed.
- Bottom of the learning curve for nursing staff, surgical assistant, anesthetic staff and to a lesser degree the surgeon!

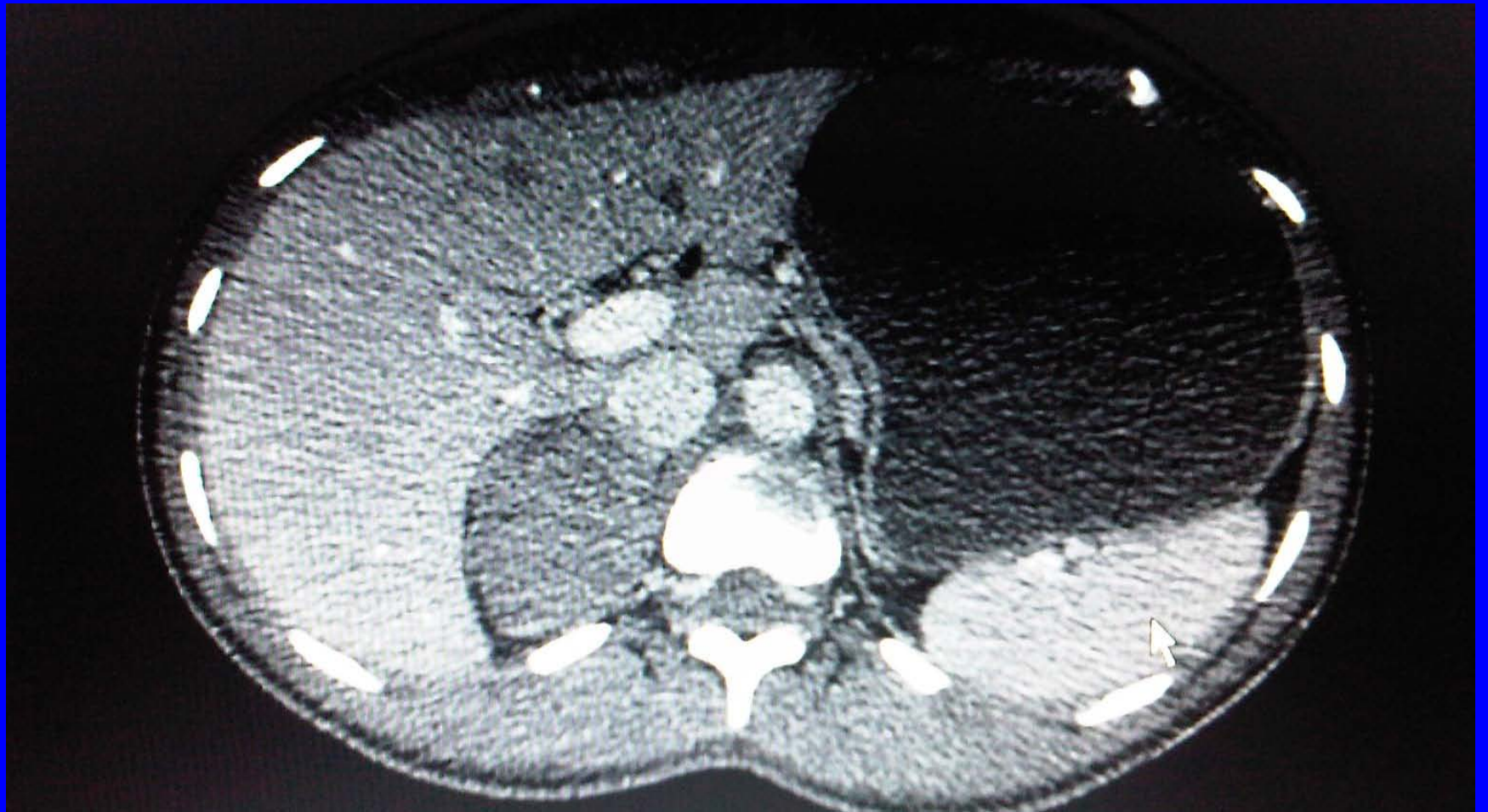
# Table of Number of Cases Performed by Location

	Lap Neph	Lap PyeloP	Lap Nephro-ureterec	Lap De-roofing Renal Cyst	Lap Adrenal	Lap Pyelolith	Lap RP + Ext LN Dissec	Lap RP	Total
CRH	6	1	2		3	1	7		20
UHWI + TT	1				1			1	3
Andrews Hospital	1			1					2
Mobay Hospital	1								1
<b>Total</b>	9	1	2	1	4	2	6	1	26

# Lap Adrenalectomy

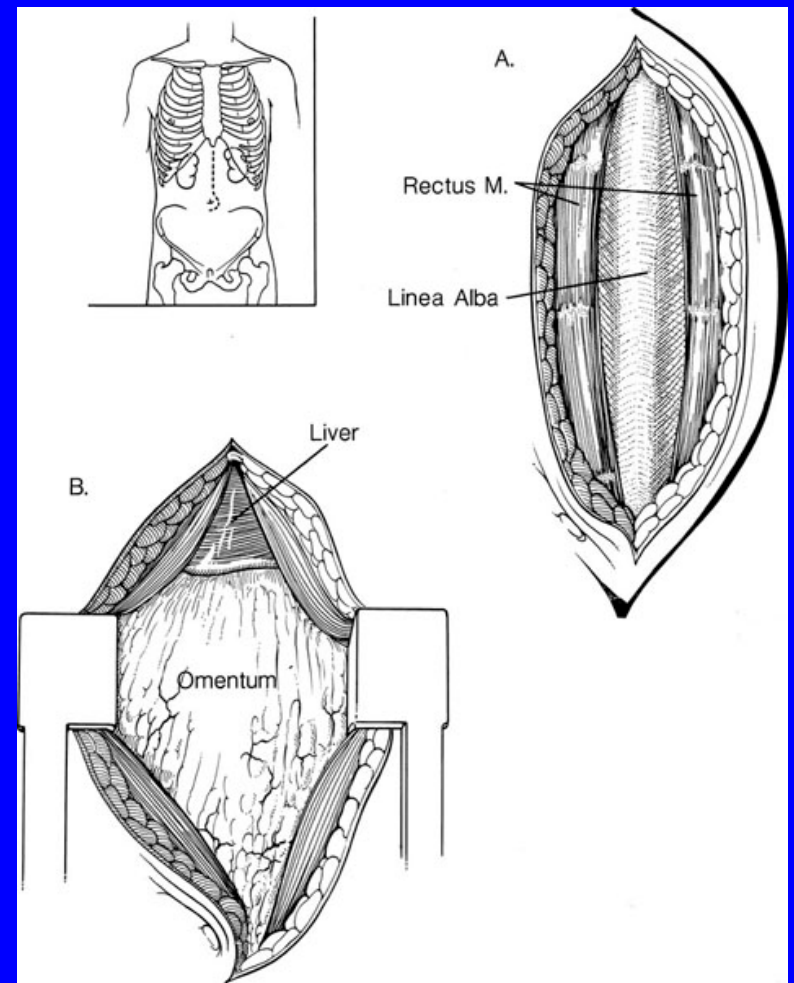
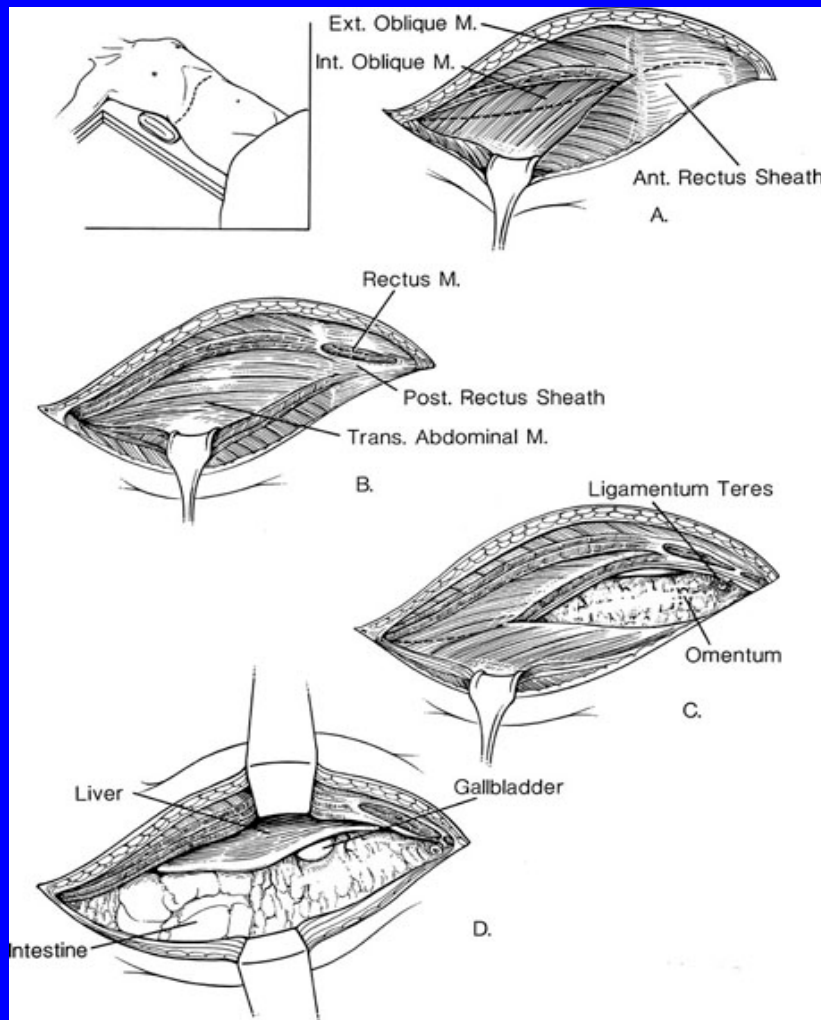
- N=4
- Average age 48yrs (range 32-56yrs)
- First two and last case performed at CRH.
- All right sided
- Size between 3cm and 6cm
- Average blood loss 40mls (range 20 – 50mls)
- Average hospital stay 2.5 days (range 2 – 3 days)

# 1<sup>st</sup> Case



- Laparoscopic adrenalectomy is a good example of a laparoscopic procedure that is obviously the better option compared to open surgery

# Open Trans Abdominal Approach



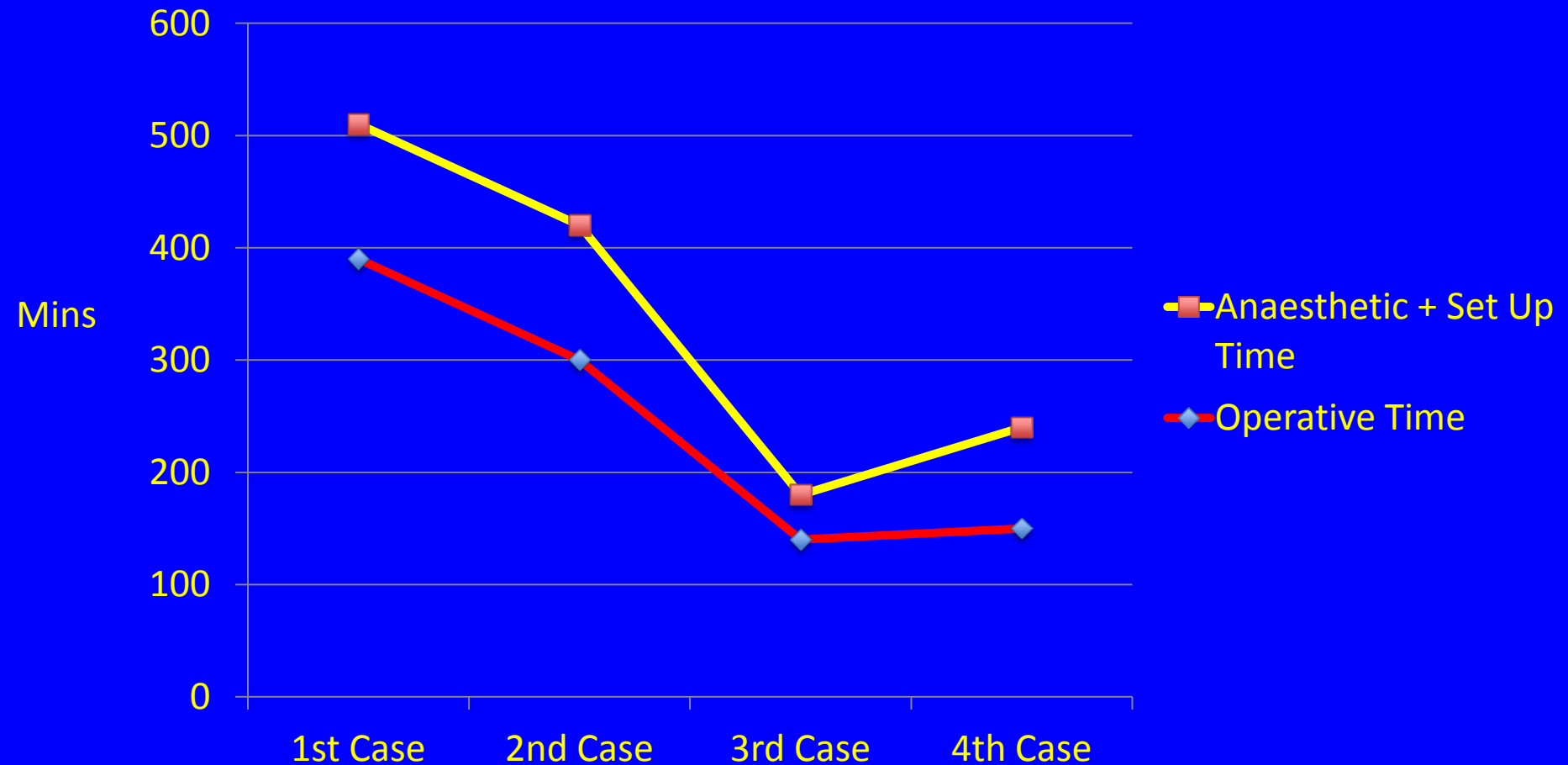
# Laparoscopic Approach

- Transperitoneal approach





# The Learning Curve – operative time and anesthetic + setup time



- Good example of a steep learning curve wrt both anesthetic and set up times as well as operative time.

# Laparoscopic Radical Prostatectomy

- Nov 2011 – Feb 2012
- 8 cases (only reporting on first 5)
- All with clinically localized Ca prostate
  - -ve bone and CT scan
- Average age 61yrs (range 43 – 72yrs)
- Average pre op PSA 11 (range 4 – 14)
- Average pre op Gleason 6.6 (range 6 – 9)
- DRE T2a =2 and T2b = 3

# Lap RP Patient Demographics

Age (yrs)	PSA	DRE	Gleason	OP
54	12	T2b	6	Lap RP + LN
68	13	T2b	9	Lap RP + LN
72	14	T2b	6	Lap RP + LN
68	13	T2a	6	Lap RP + LN
43	4	T2a	6	Lap RP

- 4 patients had Intraperitoneal lap radical prostatectomy + extended iliac lymph node dissection.
- 1 patient had a extraperitoneal lap radical prostatectomy

# Outcome

- Average operative time 354 mins
- range 420 – 210 mins
- Average blood loss 184mls (range 50 – 300mls)
- Average hospital stay 3 days (range 2 – 4)

# 3 months Post OP

- All PSA's are undetectable
- All patients are getting semi erections without pharmacological input.
- 3 patients are completely continent. No pads.
- 1 patient very mild occasional stress incontinence (SUI) / 1 pad a day usually dry.
- 1 patient has mild SUI / 1 pad a day slightly damp)

# Day 1 post op





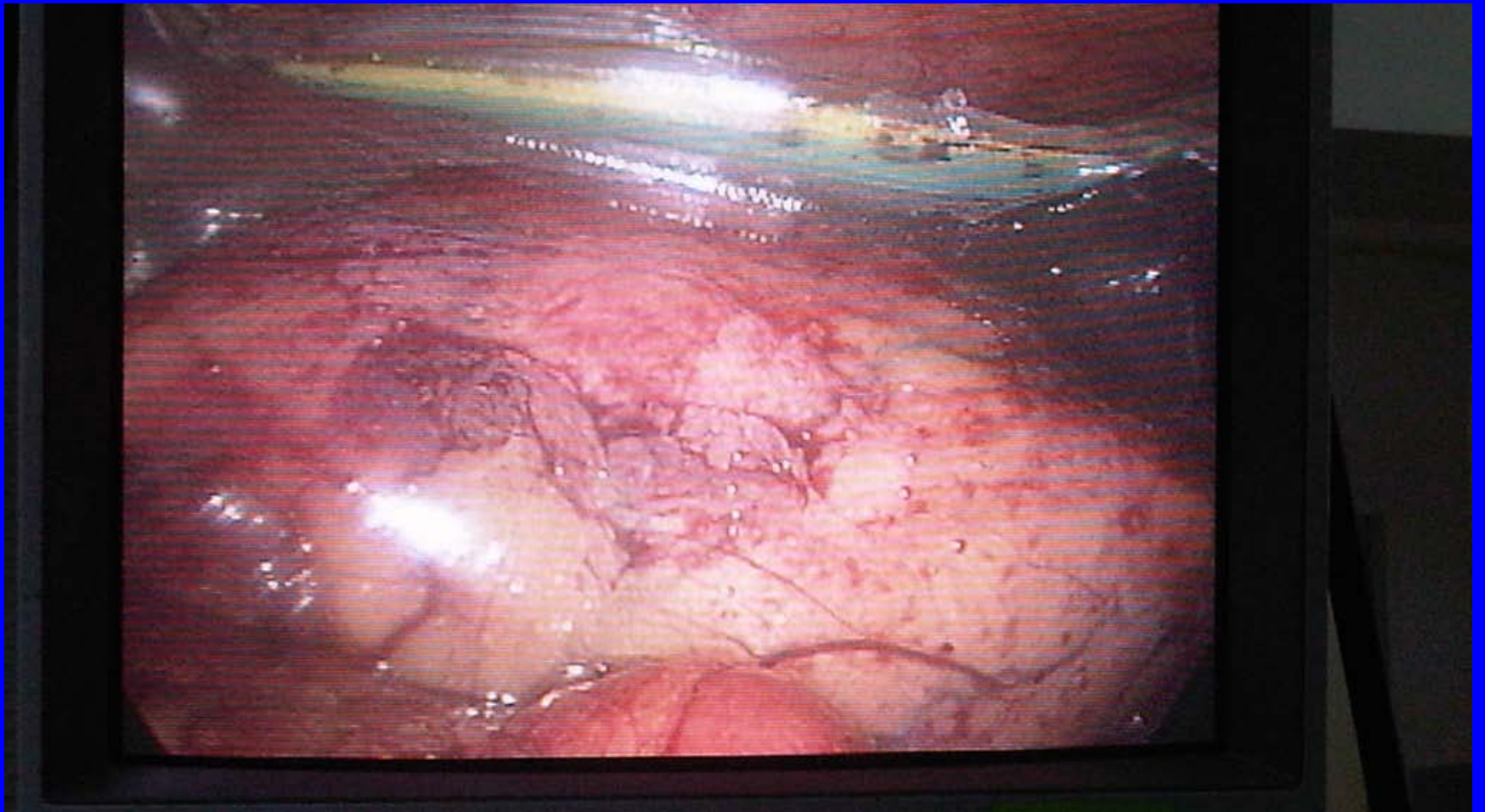
# Laparoscopic renal surgery

- N=14
- Average age 54yrs (range 19-76yrs)
- Average blood loss 161mls (range 20 – 500mls)
- Average hospital stay 3.5 days (range 2 – 6 days)

# Problems When Starting

- Things that increase operative time:
  - Working in a new environment
  - Inexperienced assistant, nursing, anesthetic and support staff (not familiar with equipment, steps of operation)
- Having to “work with what you’ve got!”
  - Eg. Zip lock bag
  - Using instruments that are not ideal

# Kidney in a zip lock bag!



# Solutions

- Get necessary equipment - Raise money yourself (charities, government funds)
- Get a dedicated nursing team:
  - Reduces time wastage and therefore op time
  - Steepens the learning curve
  - Preserves expensive equipment
- Check that all the equipment is available before starting
- Be patiently aggressive and never never ever give up!

Thank you

