

The Role of Radical Surgery in Rhabdomyosarcoma

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Surgeon's Role

- Presentation and initial management
- Investigation - EUA, biopsy, radiology
- Reassessment - EUA, biopsy, radiology
- Local control

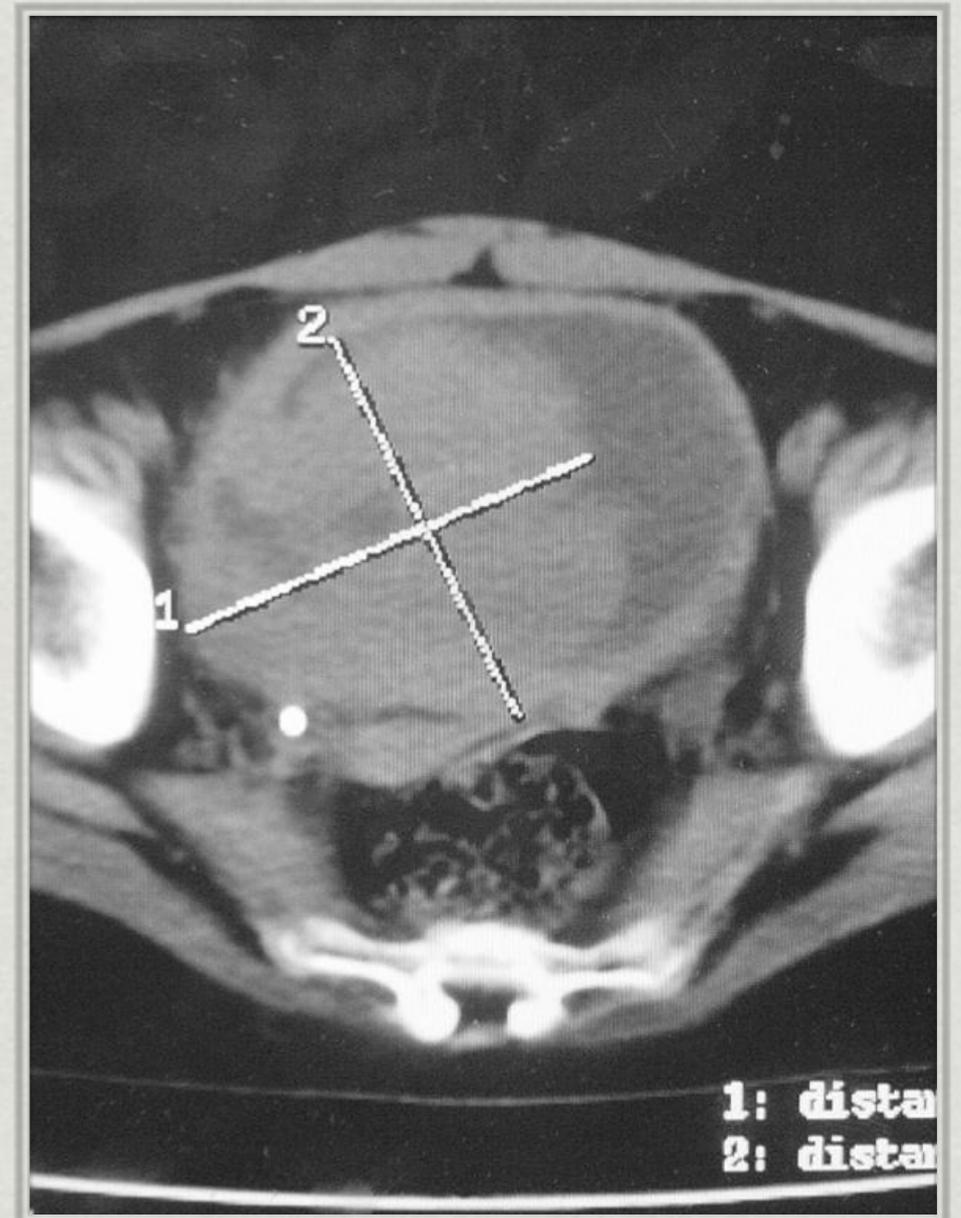
Initial Assessment

- EUA (endoscopy, rectal exam)
- Biopsy
- Catheter
- JJ stents
- Lymph node biopsy

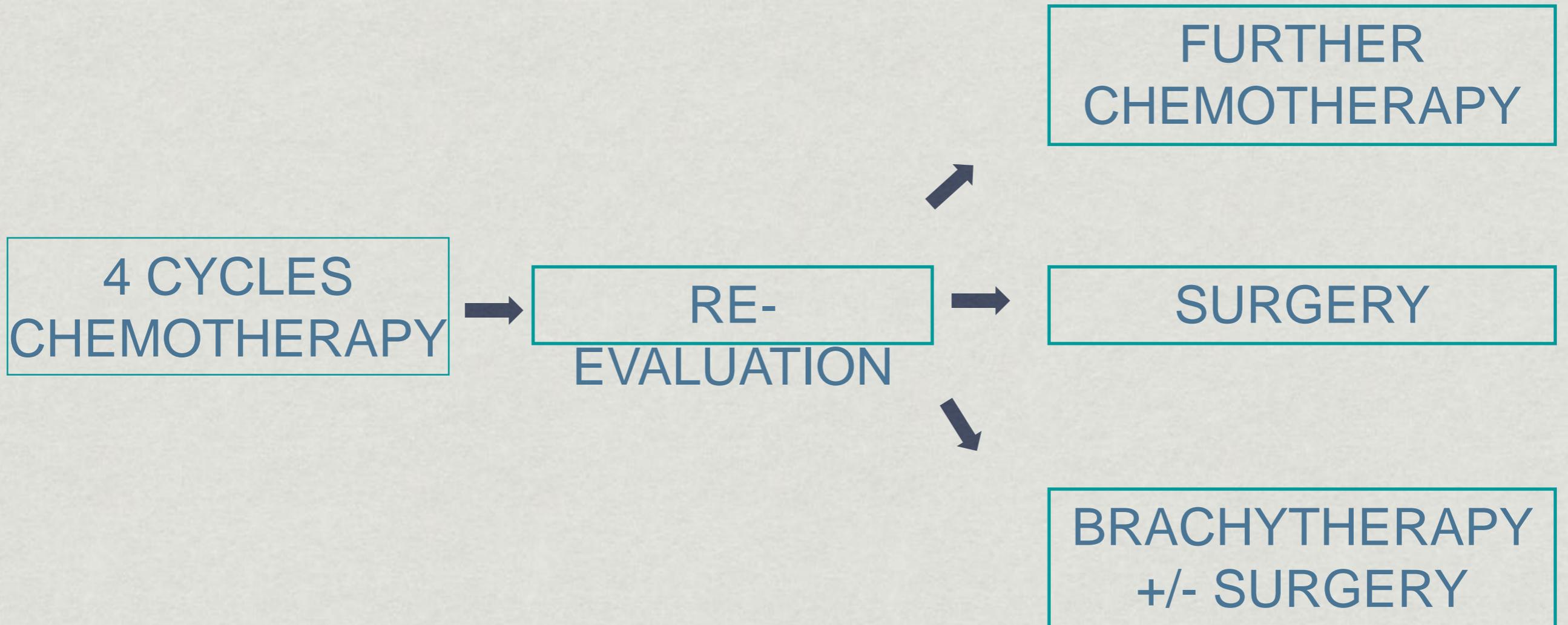


Radiology

- Renal USS - mass, hydro
- MRI - mass, LN's



Treatment



Reassessment

- Same surgeon
- EUA
 - Endoscopy with biopsy
 - Rectal exam/ bimanual palpation
- Radiology - USS, MRI
- MDT discussion

Options for local control

- Site of tumour
- Local invasion
- Metastatic disease
- Response to chemotherapy

Radical Surgery ?

- Radical surgery
- Pelvic exenteration
- Reasonable surgery
- Limited surgery
- Organ preserving/ saving surgery

Radical surgery ?

TUMOUR
CLEARANCE
SURGERY

TUMOUR
REDUCTION
SURGERY +
BRACHYTHERAPY

Literature

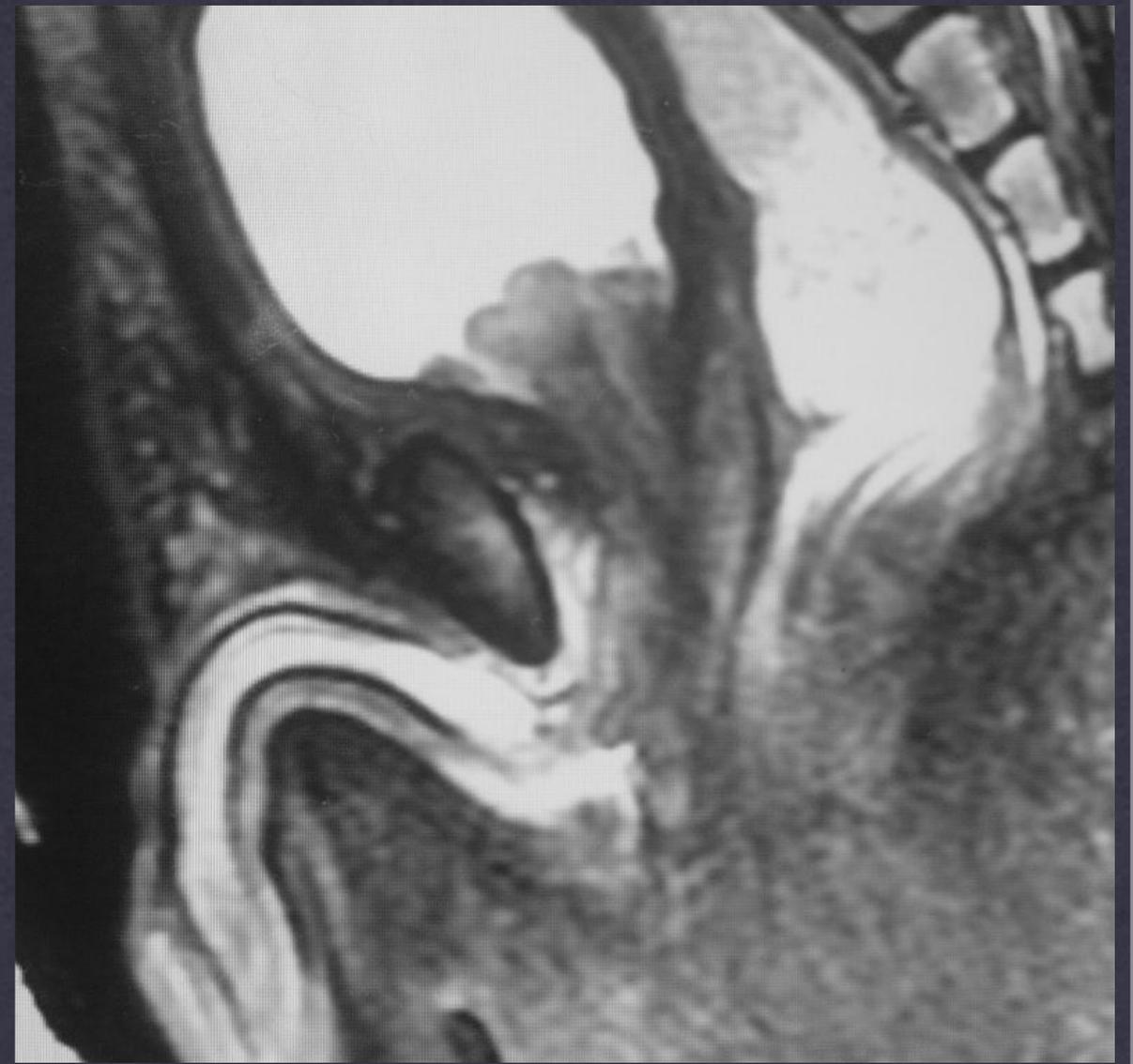
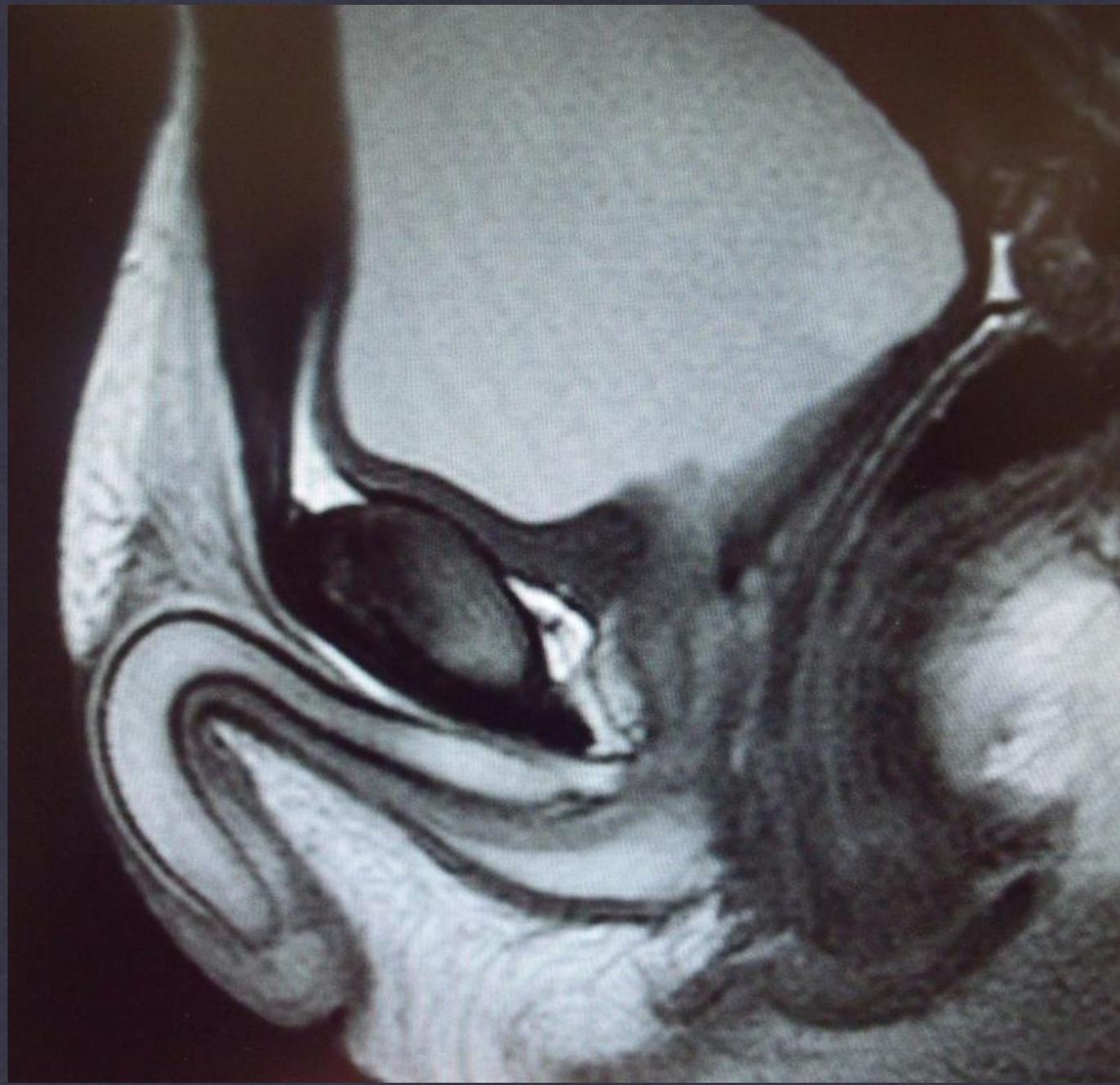
- * Ann Surg. 1973 Sep;178(3):346-51.
- * **Reasonable surgery for rhabdomyosarcoma: a study of 67 cases.**
- * Kilman JW, Clatworthy HW Jr, Newton WA Jr, Grosfeld JL
- * ‘ survival in children increased from 48% to 89% with use of radiotherapy and chemotherapy’

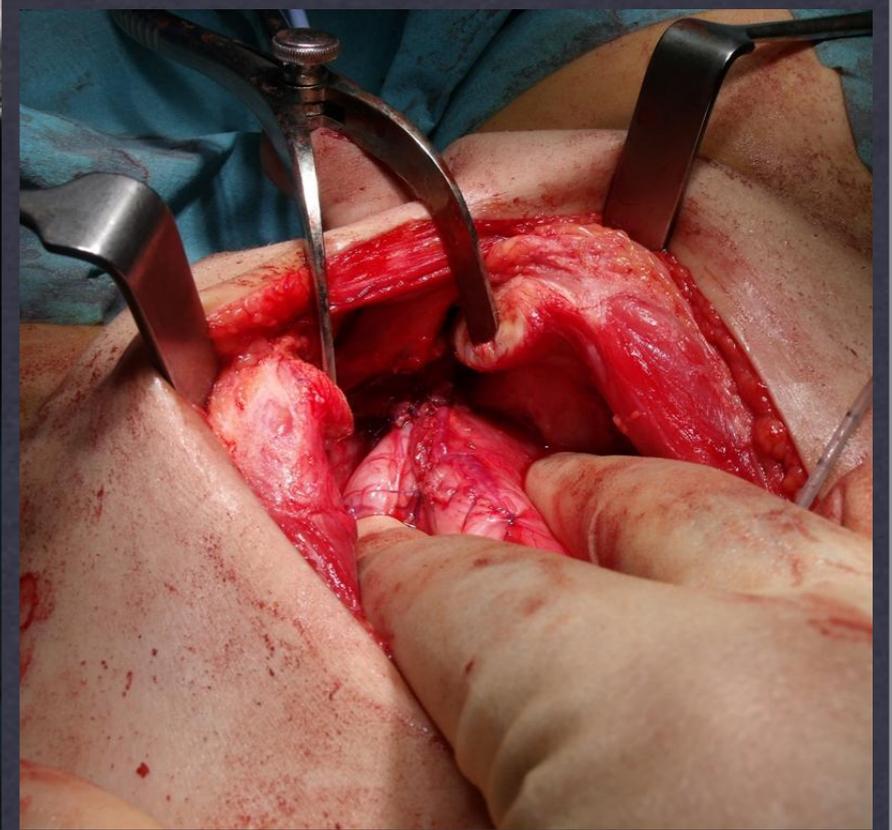
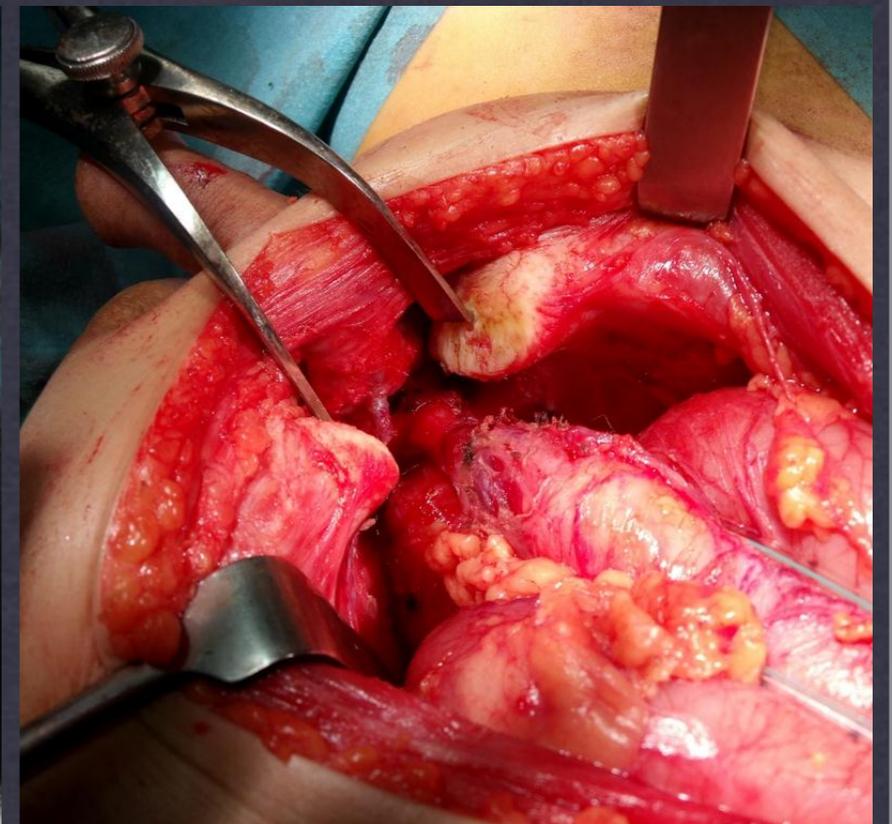
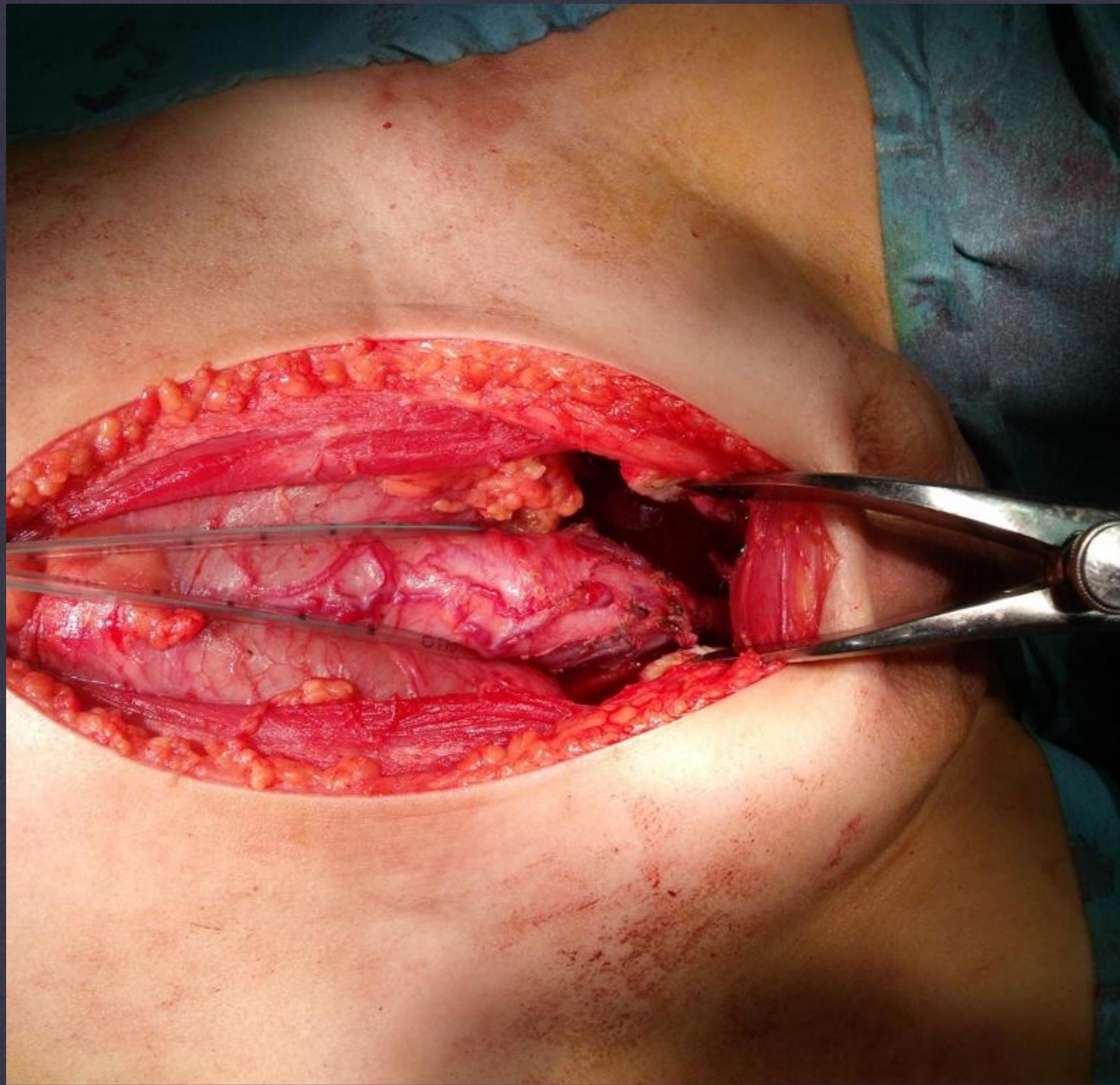
Literature

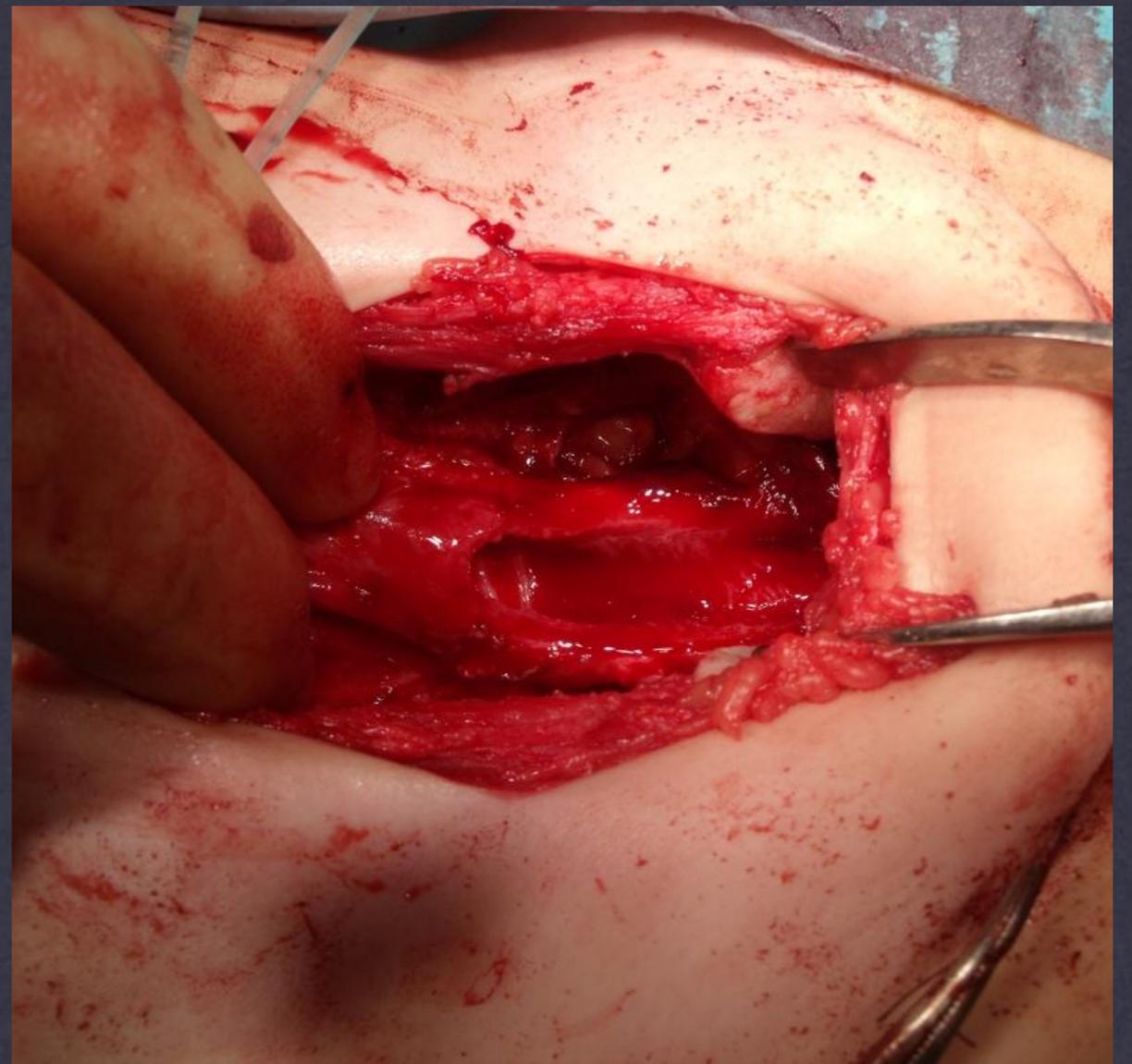
- Br J Cancer. 1994 Nov;70(5):1004-8.
- **Conservative surgery in multimodal therapy for pelvic rhabdomyosarcoma in children.**
- Atra A, Ward HC, Aitken K, Boyle M, Dicks-Mireaux C, Duffy PG, Mitchell CD, Plowman PN, Ransley PG, Pritchard J
- ‘ primary chemotherapy, conservative surgery, radiotherapy’
- ‘ 73% overall survival’
- ‘ recommended referral to specialist centres with experience of pelvic RMS’

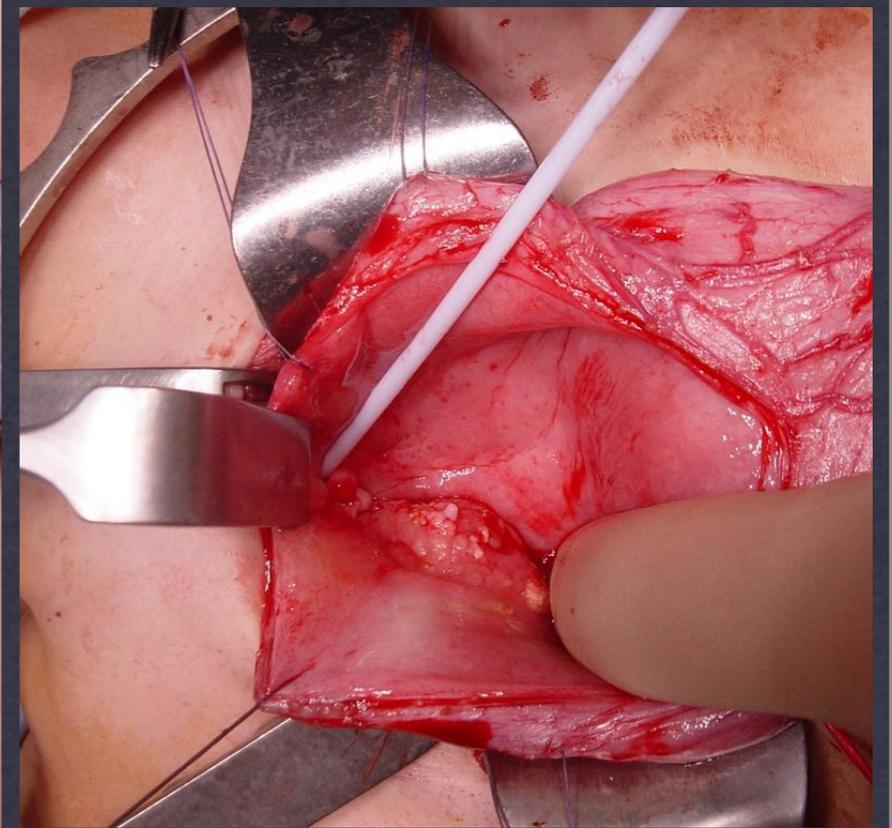
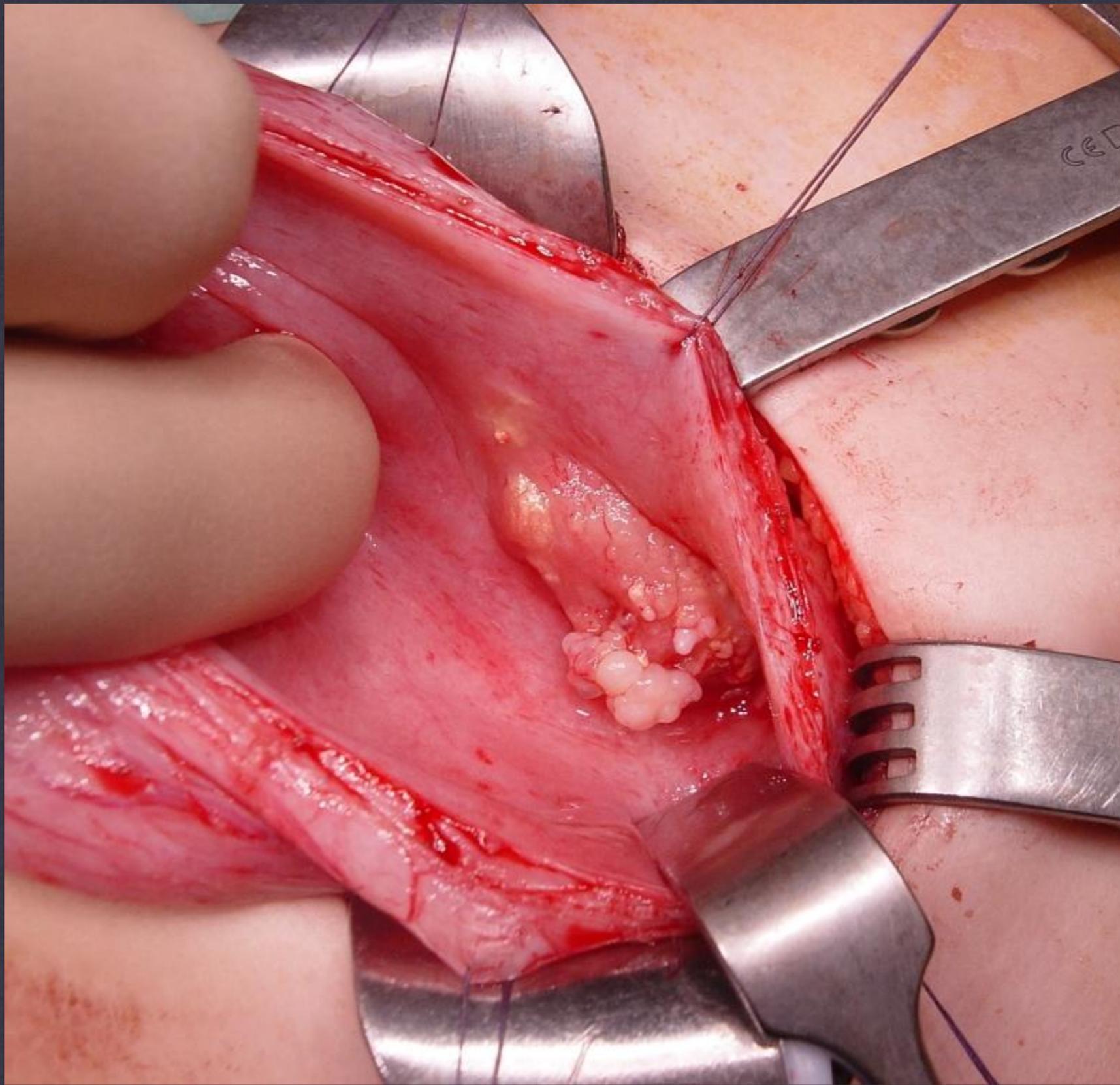
Tumour clearance surgery

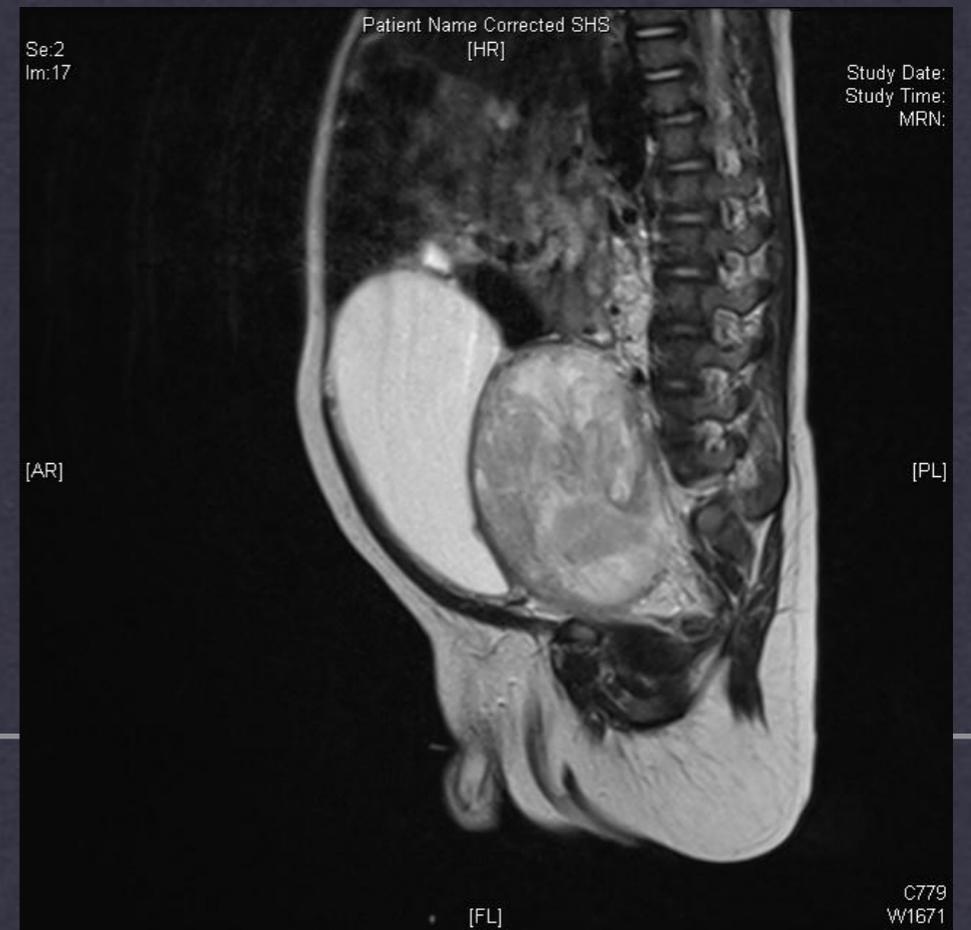
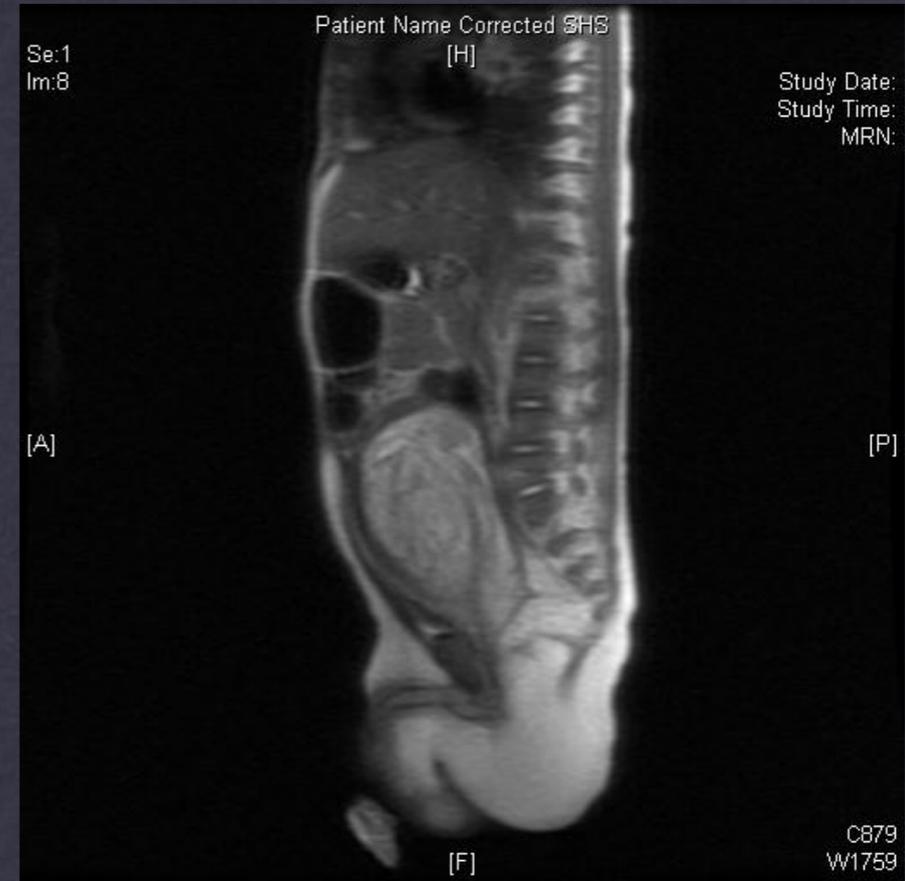
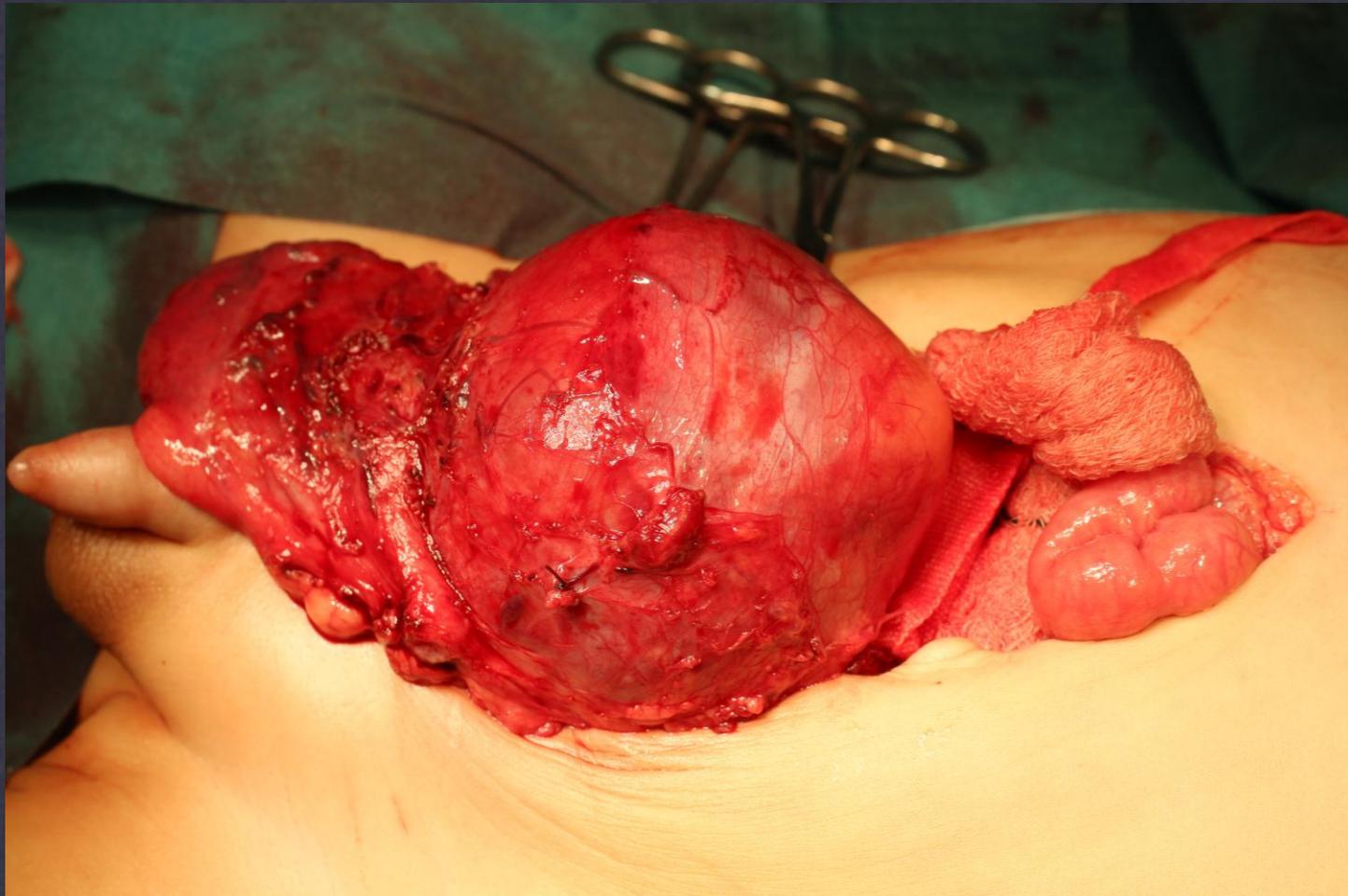
- AIM IS TO AVOID RADIOOTHERAPY
 - Brachytherapy expertise not available
 - Extensive tumour
 - Isolated to prostate
 - Small point of origin











Summary

- Limited number of centres
- Dedicated MDT mandatory
- Referred at presentation
- Delicate balance between tumour clearance, preserve function and avoid radiotherapy