

# Patterns of clinical response complete vs near-complete



#### **GL Beets**

Department of Surgery Netherlands Cancer Institute Amsterdam, The Netherlands

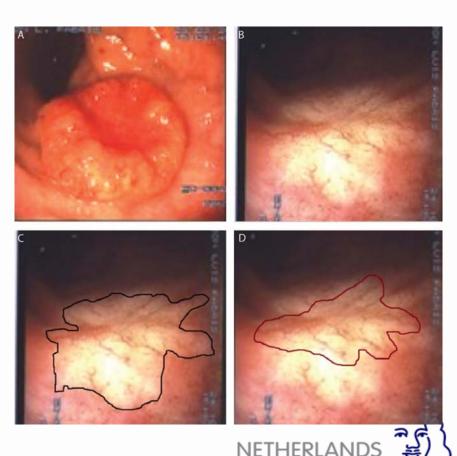


### No disclosures



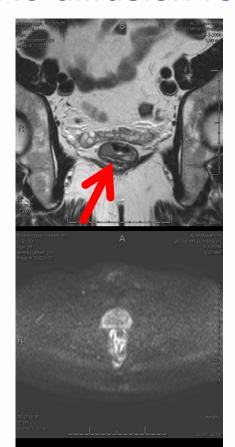
## Complete clinical response

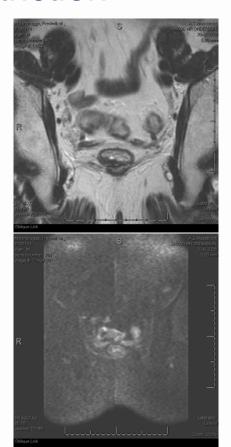
- White flat scar
  - +/- telangiectasis
- No nodule
- No ulceration
- No mass
- Subtle induration OK



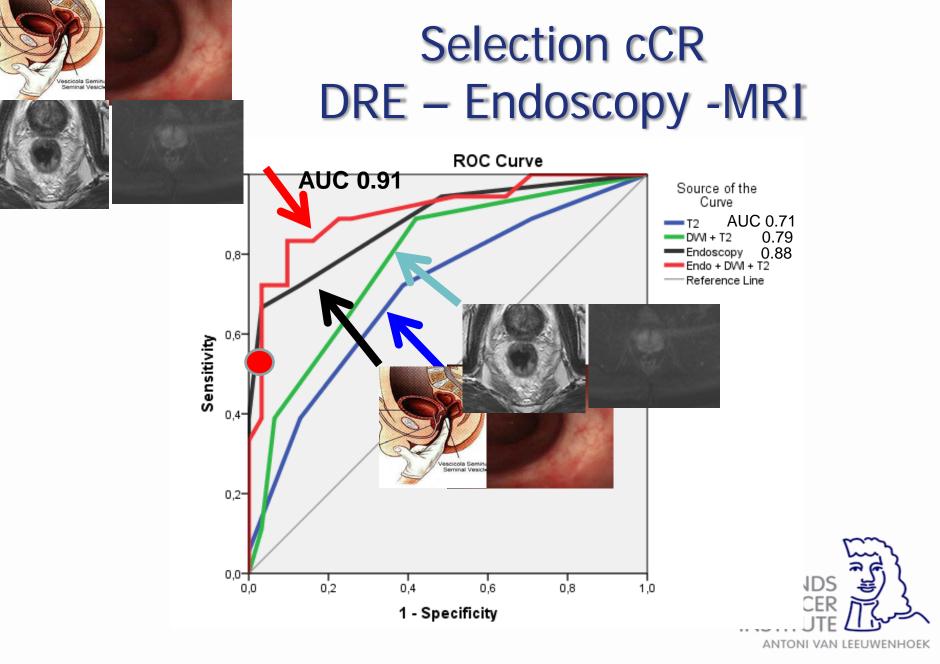
### MRI

- No sign of tumour or involved nodes
  - Only fibrosis T2w images
  - No diffusion restriction







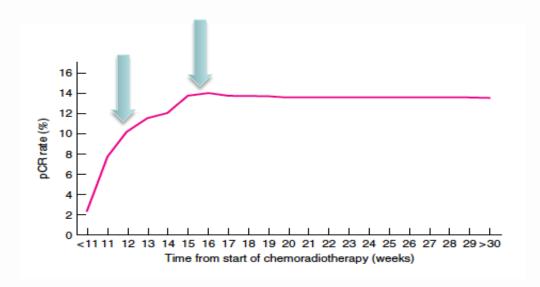






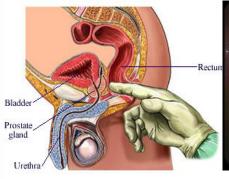


## pCR - cCR

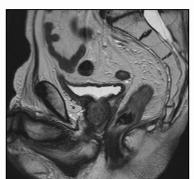


- Tumor dying
- Bowel healing
- Diagnostic tool

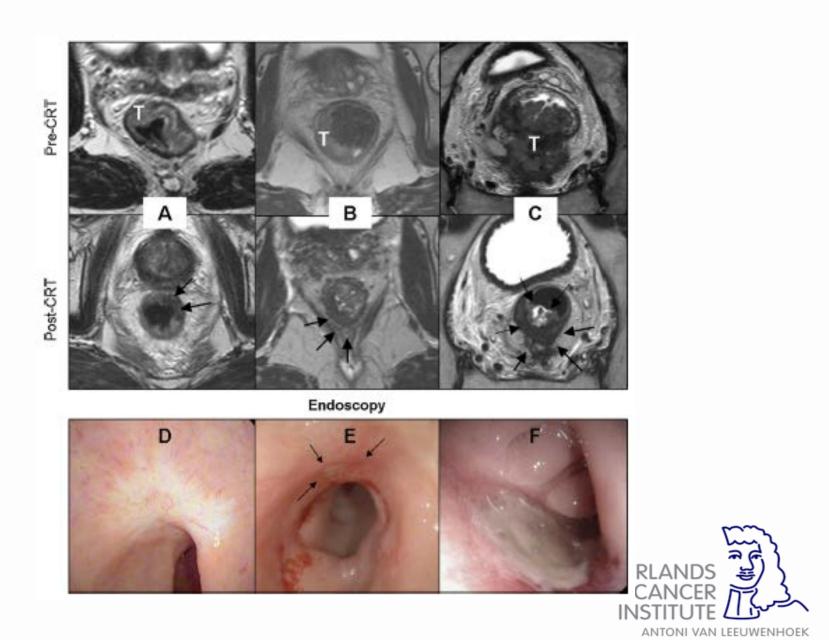
Sloothaak et al. BJS 2013











Maas et al. Annals Surg Oncol 2015

## Near-complete response

- DRE: superficial soft irregularity
- Endoscopy:
  - small superficial ulcer
  - Irregular wall thickening
  - (Biopsy dysplasia)
- MRI:
  - Irregular/heterogenous signal
  - Small focus DWI



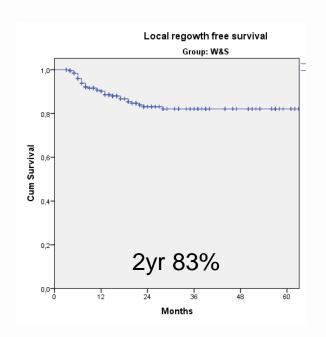
### Local excision?

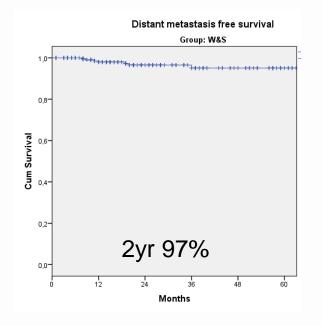
- Cost of LE after ChRT
  - Wound dehiscence 70% vs 23%
  - Readmission 43% vs 7%
  - Pain, bleeding
  - CARTS 8% reoperation
  - ACOSOG 4-8% gr ¾
  - GRECCAR 2: 8% minor
- Anorectal function?
  - Conflicting results
- More difficult FU / salvage
- Many ypT0!!

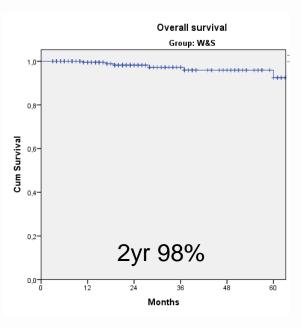
Perez et al. DCR 2011



## Oncological outcome

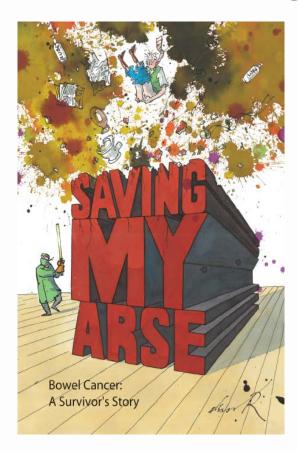


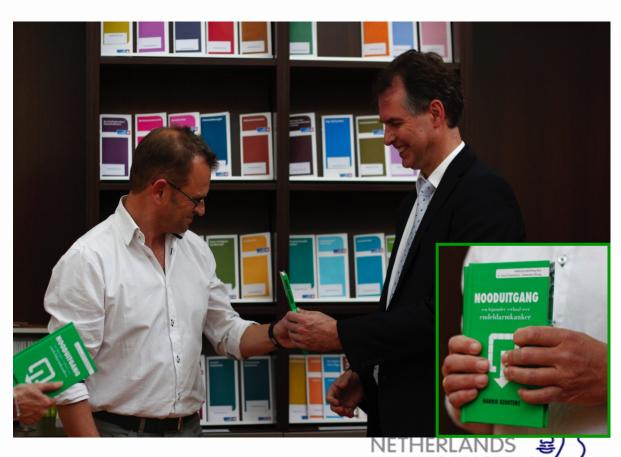




- all regrowth < 2 years</li>
- completion/salvage surgery in all patients
- 100% pelvic control
- no M+ originating from regrowth (?)

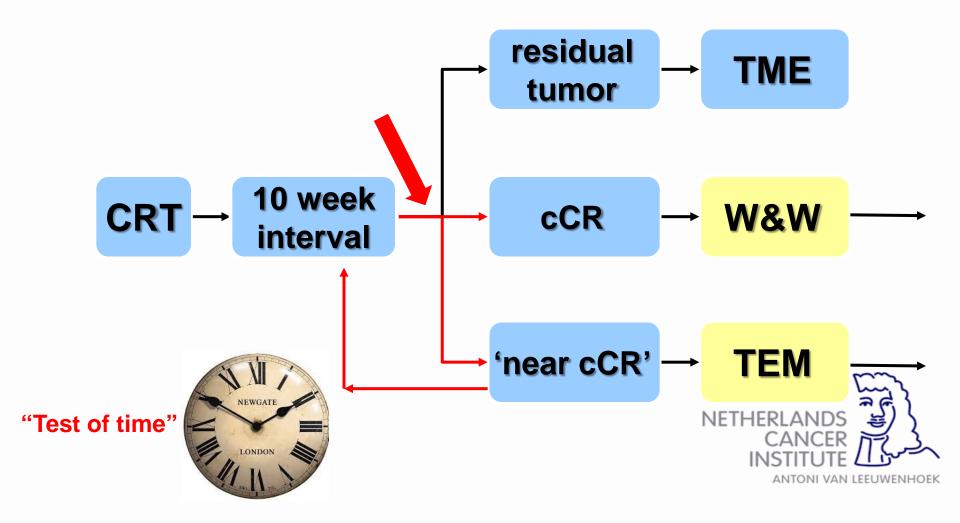
# Organ Preservation Very high interest of patients



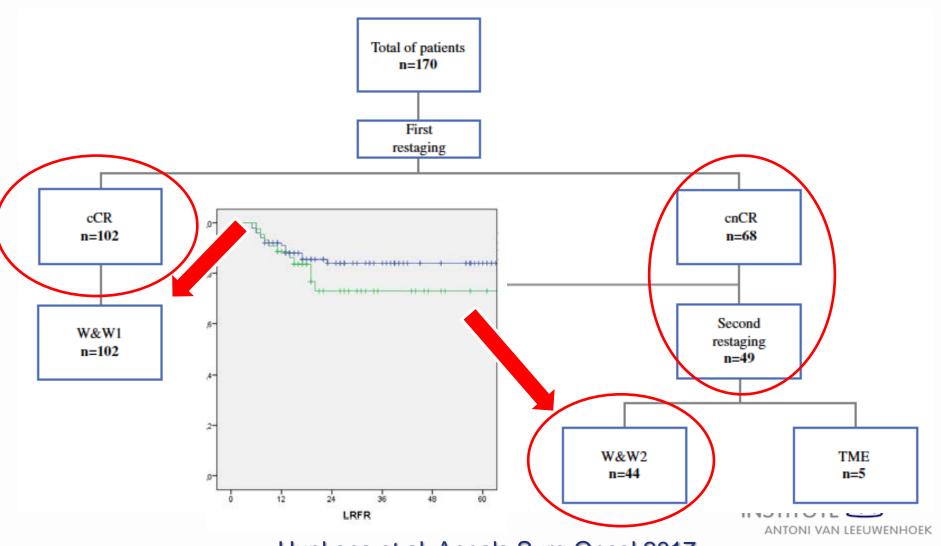


ANTONI VAN LEEUWENHOEK

### Protocol – near cCR

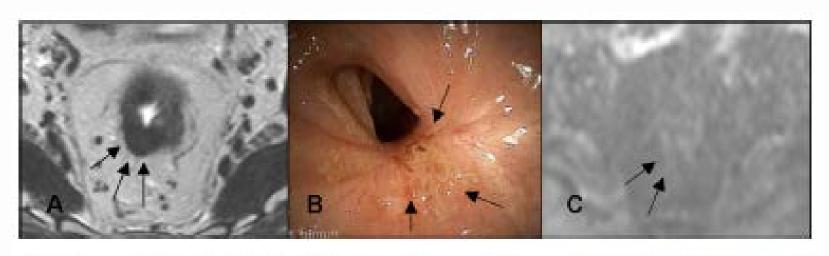


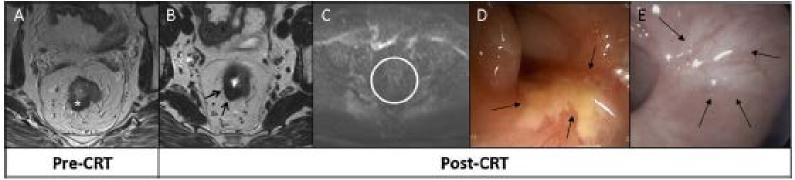
## Near-complete response



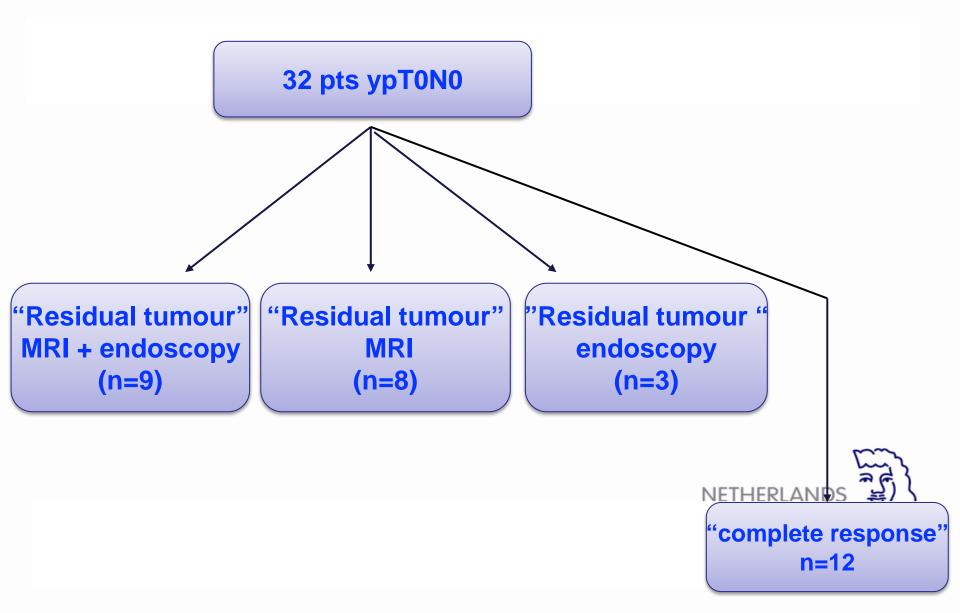
Hupkens et al. Annals Surg Oncol 2017

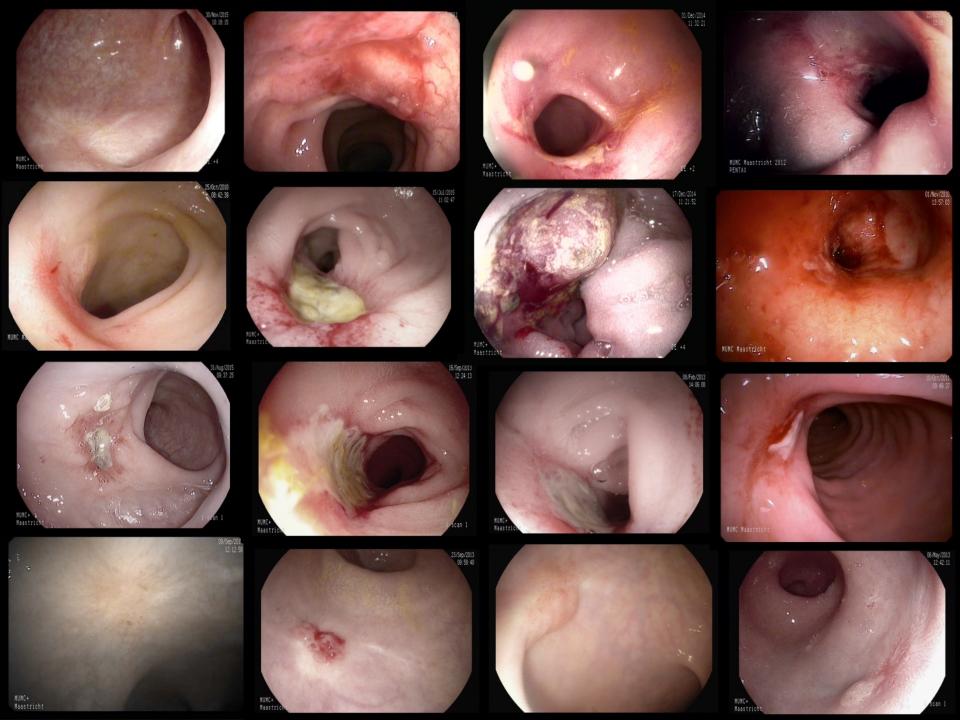
## Near complete responders





## 'Missed' complete responders





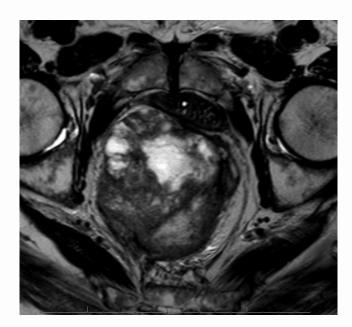
### Missed CR – MRI features





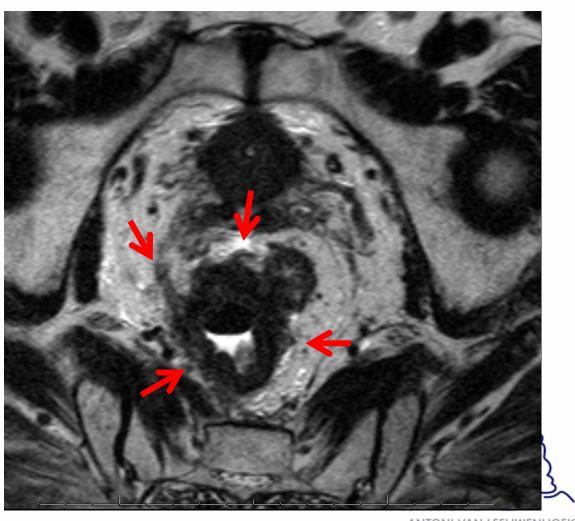


## Missed CR – MRI features

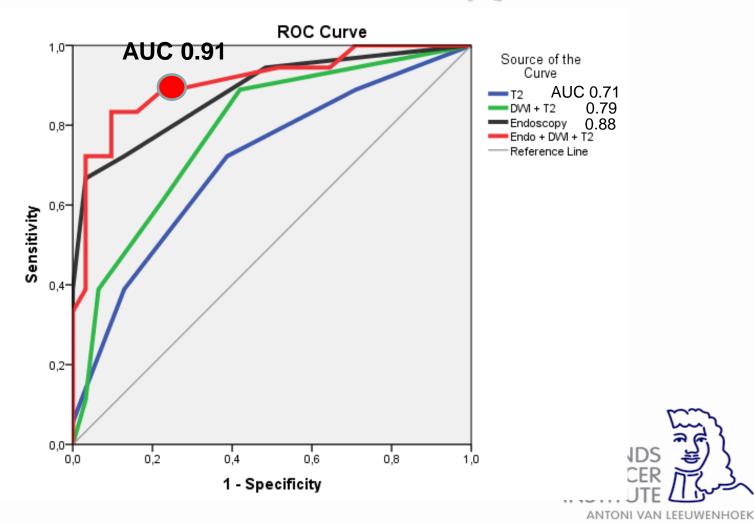


**Before CRT** 

After CRT: Spicular fibrosis



## Selection cCR DRE – Endoscopy -MRI



### Conclusion

- Original criteria cCR very strict
  - Sensitivity for cCR 50%, high specificity
- Goal: avoiding surgery on CR
  - Broaden entry criteria observation period
  - 'Near complete response'
    - Currently not well defined
    - Likelihood of true CR for different constellations
    - Management depends on many things
    - Local excision? contact RT?

