

Le iscrizioni online termineranno lunedì 21 ottobre 2013
Dopo tale data sarà possibile iscriversi solo in sede congressuale.

XXIII CONGRESSO AIRO2013

Giardini Naxos - Taormina, 26 - 29 ottobre

Regione Siciliana - Assessorato Regionale dei Beni Culturali e dell'Identità Siciliana
Dipartimento dei Beni Culturali e dell'Identità Siciliana
Servizio Museo Istituzionale Regionale "A. Papafantuzzi"



Efficacia e tolleranza nel follow up di pazienti trattati con radioterapia “short course” per carcinoma del retto

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ACO S. Filippo Neri, Roma**





RECTAL CANCER RADIOTHERAPY

EUROPEAN APPROACH

AMERICAN APPROACH

SCRT

LCRCT

(25G/5CYCLES)

(45 – 54G/28 CYCLES)

- SHORT COURSE → IMMEDIATE SURGERY
- NO CHANGES IN STAGING
- LOWER COST
- BETTER COMPLIANCE
- DOSE EQUIVALENT TO 30-33G
- EXPECTED ABOUT 66% REDUCTION IN LR
- LONG COURSE → DELAYED SURGERY ??
- DOWNSIZE/DOWNSTAGE??

- PROLONGED COURSE → DELAYED SURGERY
- WITH CHEMO
- DOWNSTAGING
- BETTER SURGICAL TOLERANCE
- MORE TUMOR REGRESSION
- MORE SPHINCTER SAVING
- EXPECTED 50% REDUCTION IN LR





RECTAL CANCER: Diagnostic Work- Up for Staging

- ❖ DRE
- ❖ Endoscopy (biopsies)
- ❖ Endorectal ultrasound: useful in T1 vs T2 vs borderline T3
- ❖ Multislice-CT: - poor accuracy for low tumors and LFN+ vs LFN-
- M+ staging
- ❖ Phased Array MRI: - highly accurate in staging
- difficulty in T1 vs T2 vs borderline T3
- highly accurate for CRM
- ❖ FDG-PET: - disappointing results on N
- role in response evaluation



RECTAL CANCER: Multidisciplinary Team

- Colorectal Surgeons
- Radiologist
- Radiotherapist
- Pathologist
- Medical Oncologist
- Gastroenterologist

- Takes place every two weeks
- Makes quick and appropriate referral pathways
- Have a consensus approach for treatment according to agreed protocols
- Permits shared behaviours
- Encourages an efficient team working

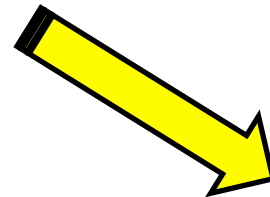
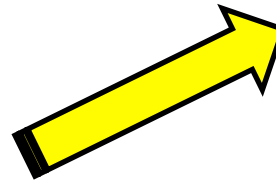


RECTAL CANCER

SHORT COURSE RT:

25 Gy in 5 fractions

ANTICIPATED
SURGERY
(1 wk)



DELAYED
SURGERY
(6-8 wks)



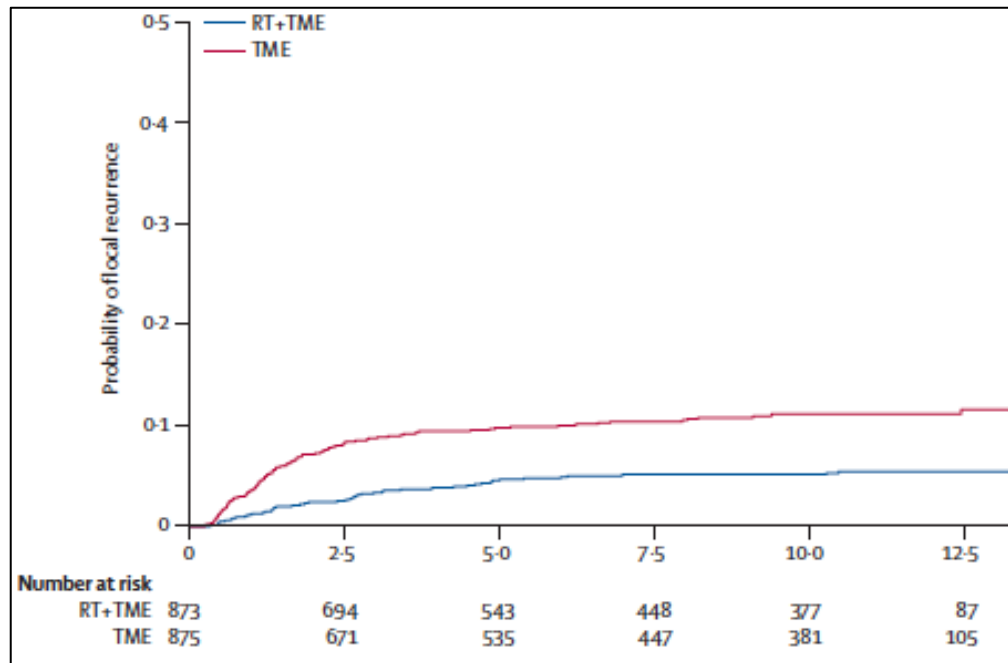
SC Pre-Op Radiotherapy vs Surgery Alone

TRIAL	Local Recurrence	OS	p- value
Swedish Rectal Cancer Trial 1987-1990 - NEJM 1997 1,168 pts - Dukes A, B, and C Short Course RT + Surgery vs Surgery Alone	11% 27% (5-yr FU)	58% 48% (5-yr)	LR p<.001 OS p<.001
Dutch CRC Group Trial 1996-2000 - NEJM 2001 1,861 pts - Dukes A, B, and C Short Course RT + TME Surgery vs TME Surgery Alone	2.4% 8.2% (2-yr)	82% 82% (2-yr)	LR p<.001 OS NS

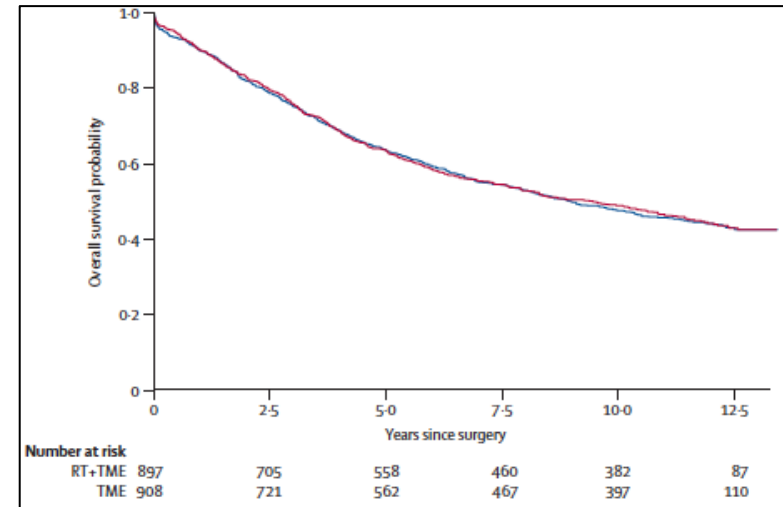


The Dutch TME Trial at 12 years

Local Recurrence



Overall Survival



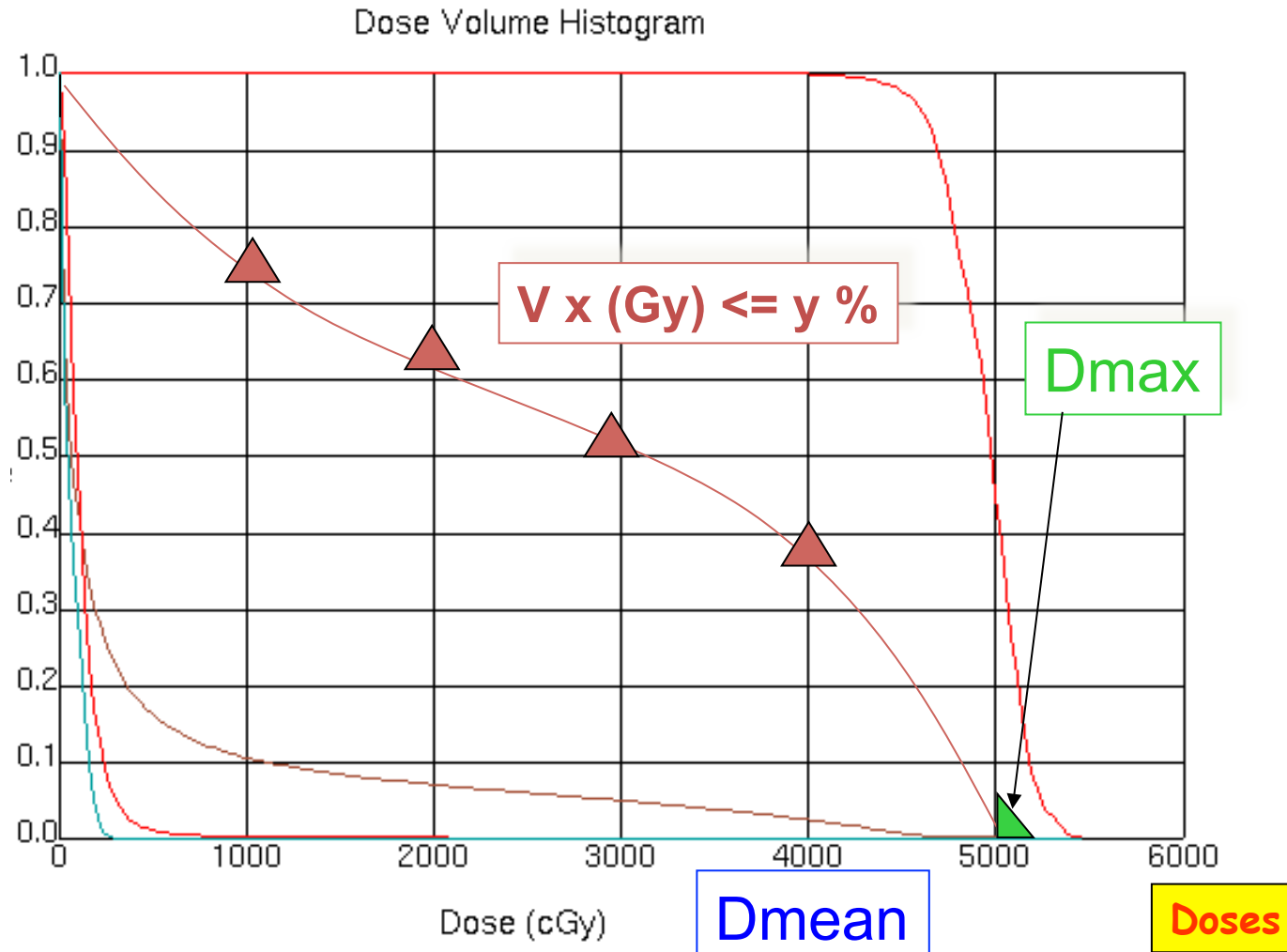
Lancet Oncol 2011; 12: 575-82

Critical organs in rectal cancer RT

- **Bowel:** small bowel, colon, rectum, anal canal
- **Urinary system:** ureters, urinary bladder, urethra
- **Others:** genitalia, bones, nerves, veins/arteries, muscles, bone marrow

OARs

DVH





Pergamon

Int. J. Radiation Oncology Biol. Phys., Vol. 31, No. 5, pp. 1341–1346, 1995
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0360-3016(95)00060-7

● Editorial



Pergamon

Int. J. Radiation Oncology Biol. Phys., Vol. 31, No. 5, 1049–1091, 1995
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0360-3016(95)00075-5

ADJUSTED SOMA SCALES FOR ALL ANATOMIC SITES

RADIATION THERAPY ONCOLOGY GROUP
 AN ORGANIZATION FOR RESEARCH AND
 TREATMENT OF CANCER (EORTC)

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National Cancer Institute

U.S. National Institutes of Health | www.cancer.gov

Common Terminology Criteria for Adverse Events CTC AE v3.0 (2006) o CTC AE v4.02 (2009)

GASTROINTESTINAL						
		Grade				
Adverse Event	Short Name	1	2	3	4	5
Ileus, GI (functional obstruction of bowel, i.e., neuroconstipation)	Ileus	Asymptomatic, radiographic findings only	Symptomatic; altered GI function (e.g., altered dietary habits); IV fluids indicated <24 hrs	Symptomatic and severely altered GI function; IV fluids, tube feeding, or TPN indicated ≥24 hrs	Life-threatening consequences	Death
REMARK: Ileus, GI is to be used for altered upper or lower GI function (e.g., delayed gastric or colonic emptying). ALSO CONSIDER: Constipation; Nausea; Obstruction, GI – <i>Select</i> ; Vomiting.						
Incontinence, anal	Incontinence, anal	Occasional use of pads required	Daily use of pads required	Interfering with ADL; operative intervention indicated	Permanent bowel diversion indicated	Death
REMARK: Incontinence, anal is to be used for loss of sphincter control as sequelae of operative or therapeutic intervention.						
Leak (including anastomotic), GI – <i>Select</i> – Biliary tree – Esophagus – Large bowel – Leak NOS – Pancreas – Pharynx – Rectum – Small bowel – Stoma – Stomach	Leak, GI – <i>Select</i>	Asymptomatic radiographic findings only	Symptomatic; medical intervention indicated	Symptomatic and interfering with GI function; invasive or endoscopic intervention indicated	Life-threatening consequences	Death
REMARK: Leak (including anastomotic), GI – <i>Select</i> is to be used for clinical signs/symptoms or radiographic confirmation of anastomotic or conduit leak (e.g., biliary, esophageal, intestinal, pancreatic, pharyngeal, rectal), but without development of fistula.						
Malabsorption	Malabsorption	–	Altered diet, oral therapies indicated (e.g., enzymes, medications, dietary supplements)	Inability to aliment adequately via GI tract (i.e., TPN indicated)	Life-threatening consequences	Death

From Emami (1991)
 to QUANTEC (2009)





S. FILIPPO NERI HOSPITAL EXPERIENCE

- Jan 2009 - Jan 2012: 33 pts
(4 nineties)
- All were staged with digital exam, colonoscopy, TB CT scan, pelvic MRI and EUS
- All of them were followed for evaluating the therapeutic effect and tolerance
- In the follow up the same exams were performed according to an established schedule
- Toxicity was valuated according EORTC/RTOG criteria

Pts “unfit”



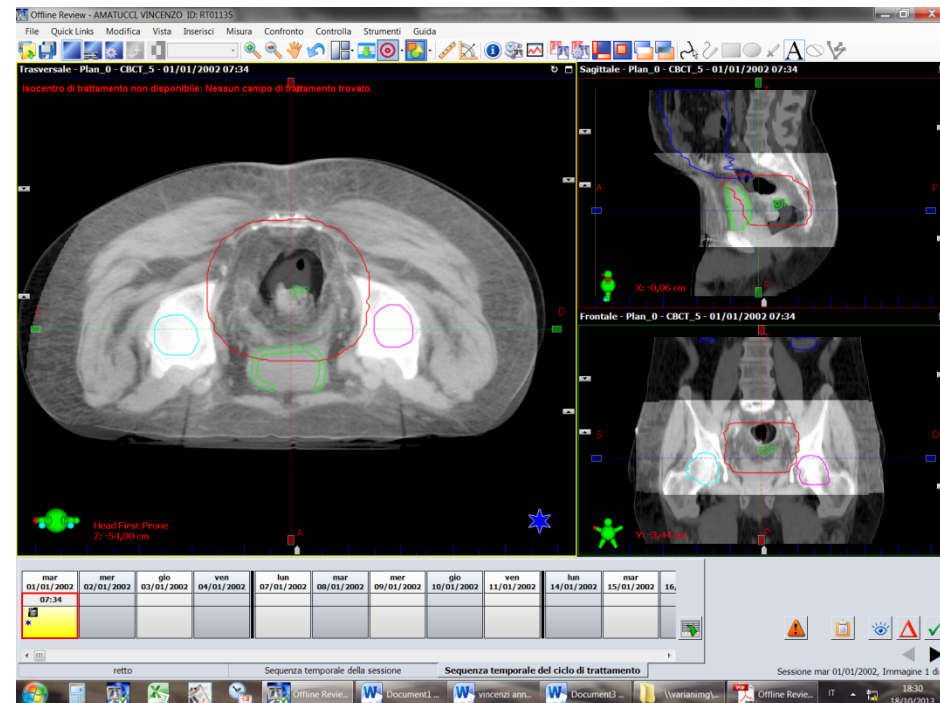
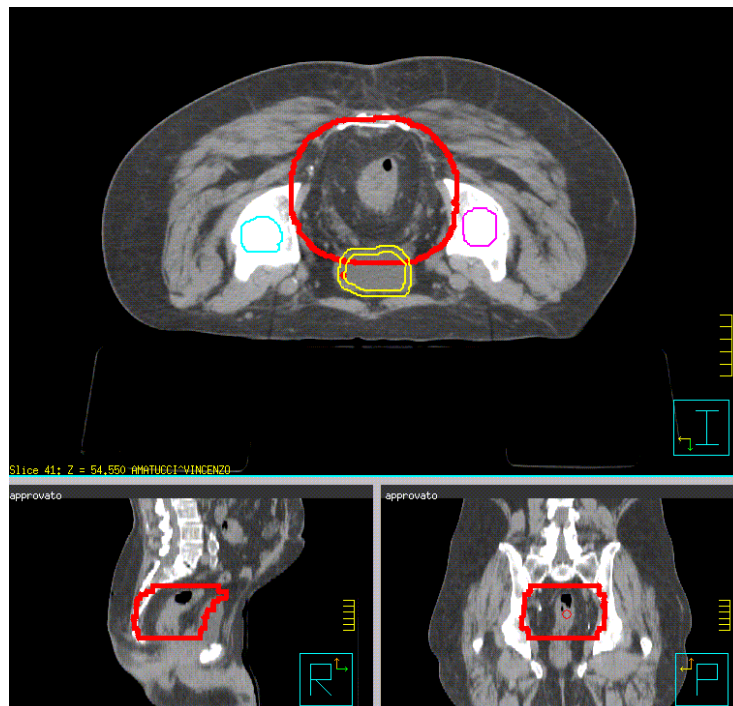
PATIENT'S CHARACTERISTICS



Gender	M: 21 F:12		
Age	Median: 65,2 (33-94)		
KPS	≥ 70		
Initial Stage	22 T3/4 N+, 11 LR		
Histology	ADK		
Contraindication for advanced age	9		
Contraindication for co-morbidities	12		
Contraindication for synchronous metastasis	12		
Contraindication for previous LCRC	11		
Dose	25 Gy/5 fr in one week		
Pain)	19		
Bleeding	13		
Chemotherapy	Pre-RT 0	RT – Surgery 3	Post-Surgery 9

TARGET

The target included the macroscopic disease (CTV: T + locoregional N + mesorectum) with a radial safety margin of 2 cm (PTV)





EARLY RESULTS

All patients completed the planned treatment without interruption and presented an immediate benefit within the first 2 weeks after the end of it

13/13 bleeding

16/19 pain



SURGERY

DELAYED SURGERY	17/33
RA	7 (+ 1 TRANS-.ANAL RES.)
TME	ALL
R0	10

16 pts:

6 refused surgery

4 medical contraindications to surgery

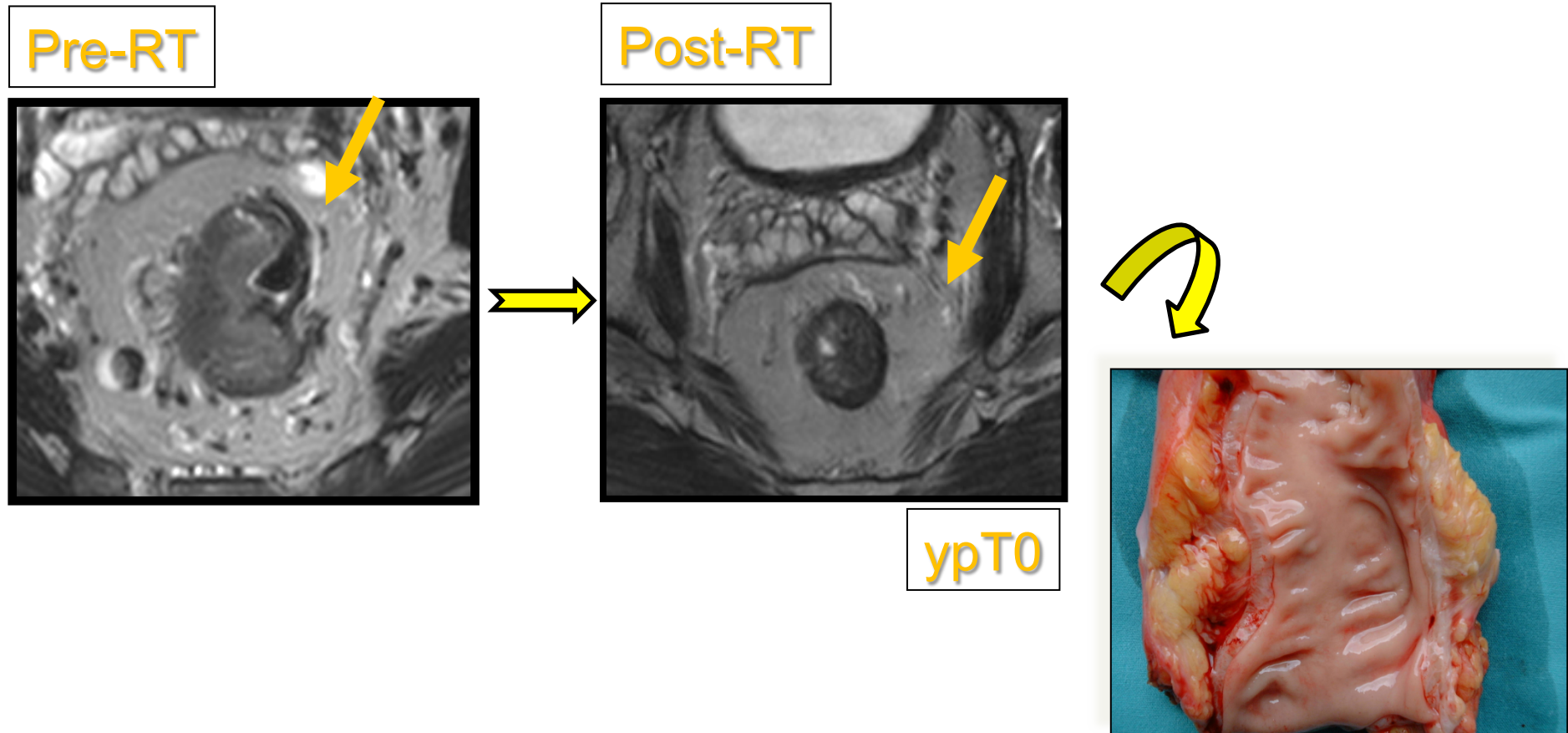
6 multiple distant metastasis

PATHOLOGY

A downstaging was observed in 13/17 pts (76,4%)

4 pts Complete Response

3 after surgery, one without (> 90 ys)



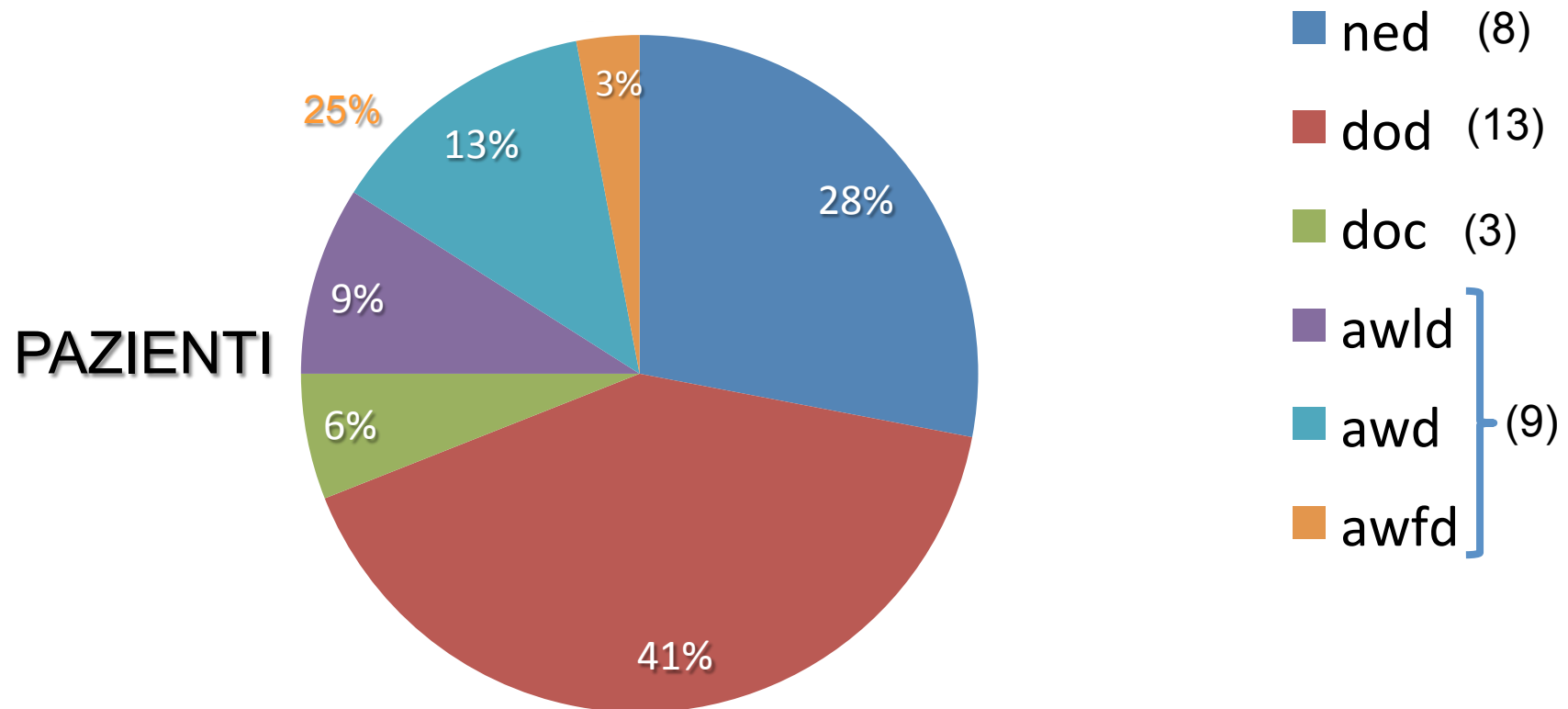


TOXICITY

- ✓ ACUTE TOX:
 - 5 G3 diarrhea (elderly patients)
 - 7 G2 tenesmus
 - 7 disuria
- ✓ LATE TOX:
 - 3 disuria
 - 1 tenesmus
 - 1 rectal bleeding (re-treated)
- ✓ No postoperative deaths or major complications

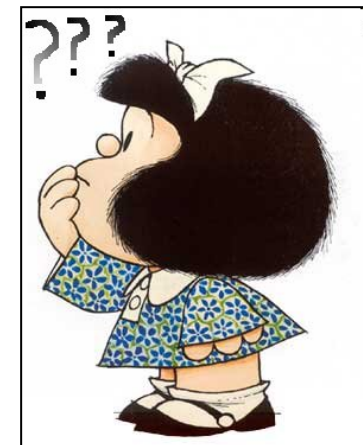
RESULTS

Median FUP 27,4 mts (range 4-41)

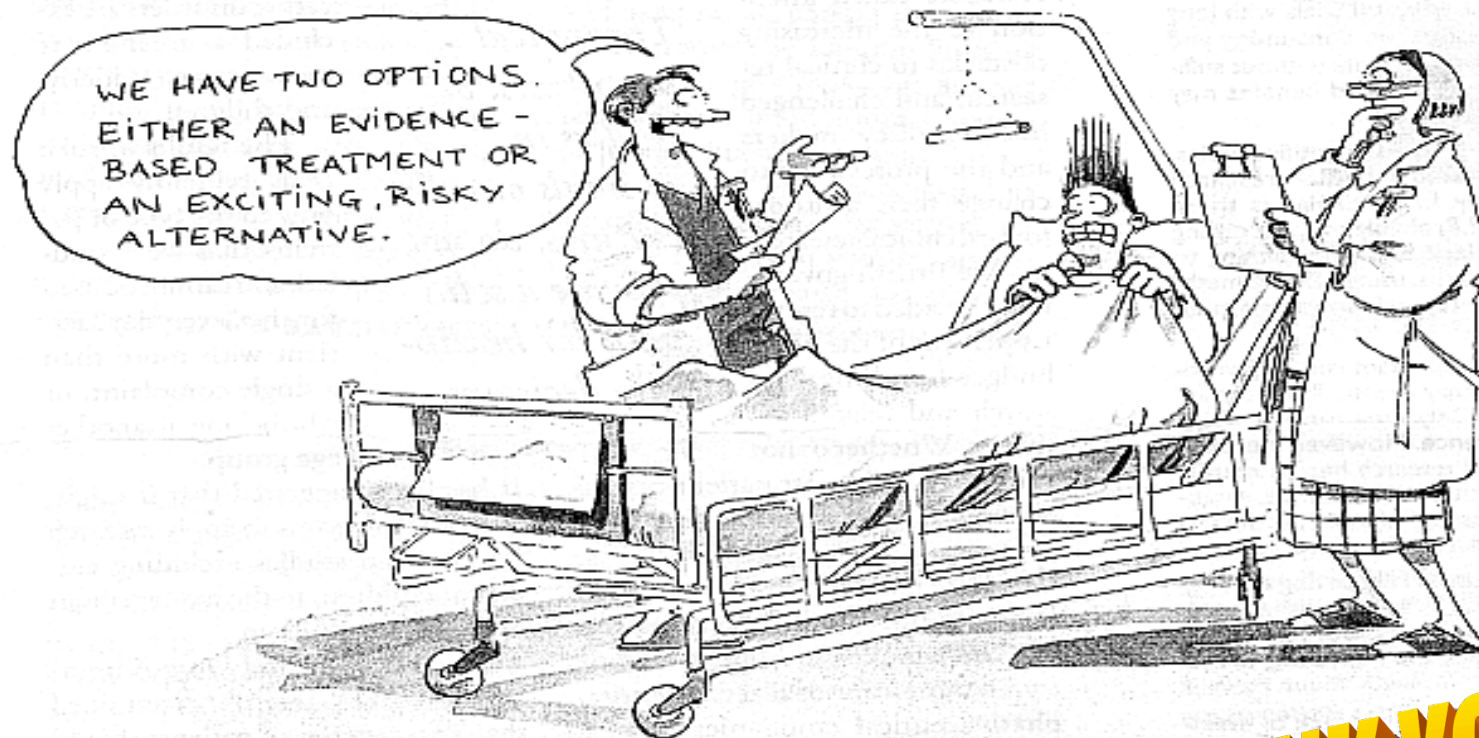


CONCLUSIONS

- ❑ The SCRT treatment followed by delayed surgery is a well tolerated approach in patients not eligible for standard long course.
- ❑ In advanced local stage and/or “*UNFIT*” patients this treatment has considerable anti-tumor activity and can result in radical surgery without major complications.



Faith Versus Facts



THANK YOU!