

26TH ANNUAL CONFERENCE OF
THE EGYPTIAN SOCIETY OF COLON & RECTAL SURGEONS

COLON & Rectal



27 - 29 AUG 20
HILTON HELIOPOLIS **25**



MANAGED BY
ICOM
International Congress of Oncology Medicine

Direct to surgery pathway in Rectal cancer.

Ahmed Mostafa Mahmoud MD, Professor of surgical oncology, National cancer institute, Cairo University

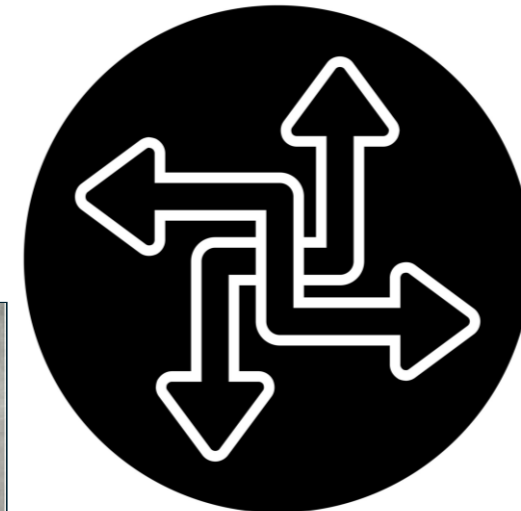
Four pathways for rectal cancer patients

1-TNT, Induction pathway Chemo-Radiotherapy

2-TNT, Consolidation pathway Radio-Chemotherapy

3- Watch and Wait (NO surgery)

4- Direct to surgery



LA REMONTADA

AFTER GETTING HUMILIATED IN THE PARC DES PRINCES, THE CATALANS NEEDED A MIRACLE TO OVERTURN THEIR 4-0 LOSS. HISTORY SUGGESTED IT WAS IMPOSSIBLE. BUT IN THE CAMP NOU, THE CATALANS COMPLETED THE BEST COMEBACK IN FOOTBALL HISTORY.



SERGI ROBERTO

NEYMAR JR

LUIS SUAREZ

**Direct to surgery
pathway**



Most important factor in curing rectal cancer ?

- Biology of cancer
- Surgeon's technical ability to achieve R0 resection and minimal morbidity
- "Adjuvant therapies" to curative surgery

TNT



National
Comprehensive
Cancer
Network*

NCCN Guidelines Version 1.2023 pMMR/MSS Rectal Cancer

CLINICAL
STAGE

TOTAL NEOADJUVANT THERAPY*

pMMR/MSS
T3, N any;
T1-2, N1-2;
T4, N any
or Locally
unresectable
or medically
inoperable

Long-course chemo/RT^{q,r}
• Capecitabine^p or
infusional 5-FU^p
or
Short-course RT^{r,w}

Chemotherapy
(12-16 wk)
• FOLFOX or CAPEOX
• Consider
FOLFIRINOX

Restag

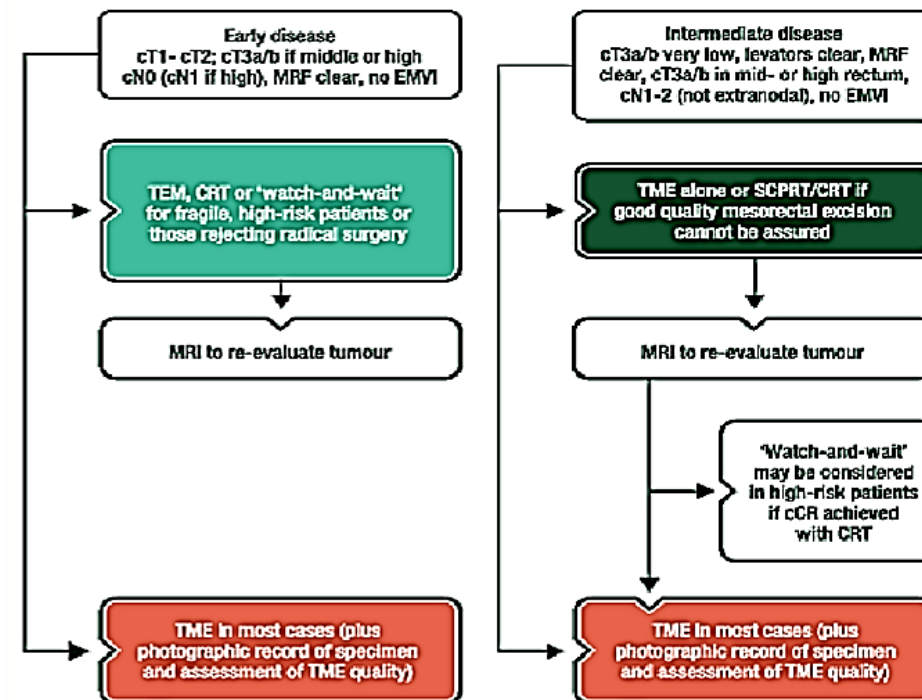
Chemotherapy
(12-16 wk)
• FOLFOX or CAPEOX
• Consider FOLFIRINOX

Long-course chemo/RT^{q,r}
• Capecitabine^p or
infusional 5-FU^p
or
Short-course RT^{r,w}

Rest

**Early and Intermediate disease
TME in most cases plus
photographic record of the
specimen and assessment of
TME quality**

ESMO Guidelines



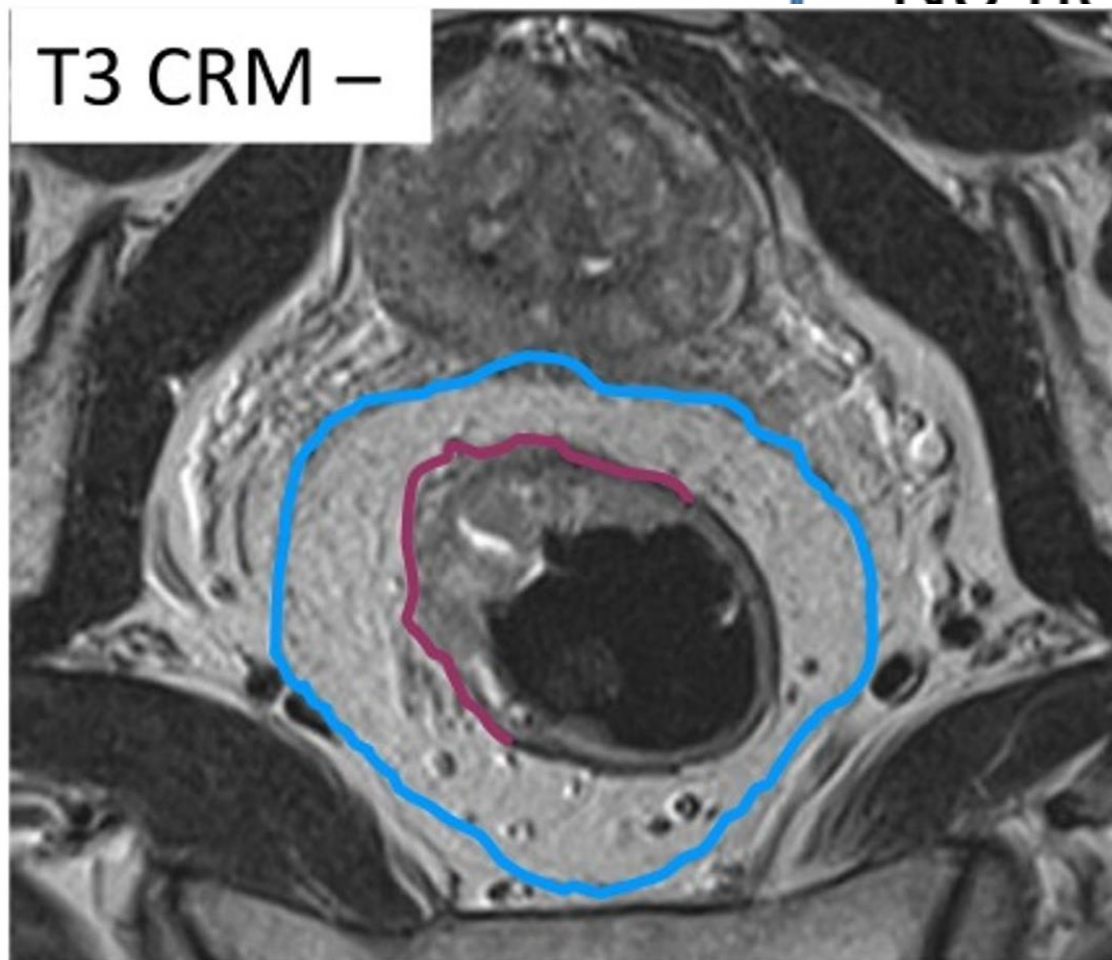
Non of the TNT trials showed survival benefit

Neoadjuvant chemo-radiation + Adjuvant Chemo
may reduce local recurrence but has no benefit in survival

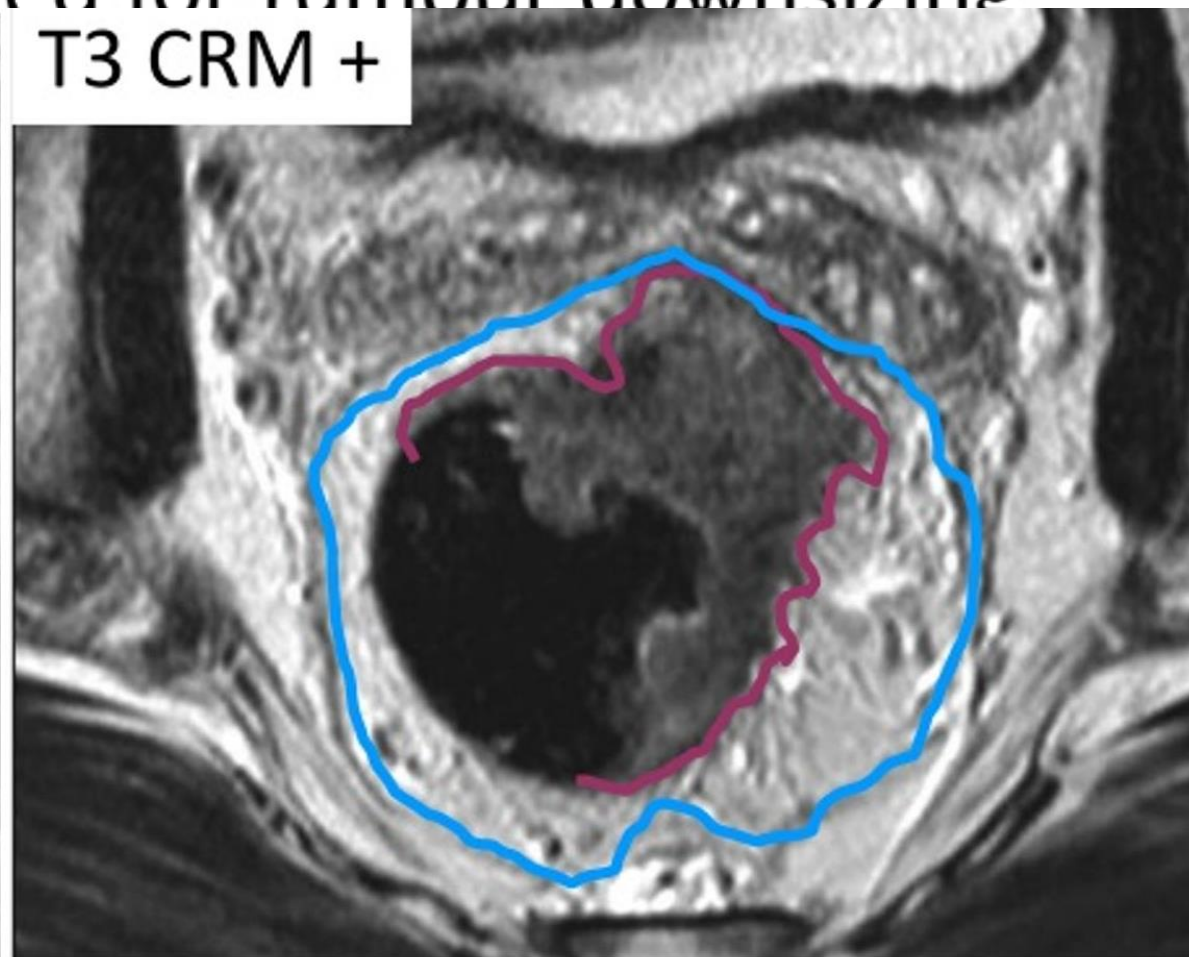
Trials	Neadjuv Radiotherapy	Adjuvant Chemotherapy	Reduced Local Recur	Survival Benefit
FFCD 2006	RT (no chemo) LCRT		YES	NO
DUTCH 2011	SCRT + SURGERY		YES	NO
CR07 2008	SCRT + SURGERY		YES	NO
EORTC 2014	RT (no chemo) LCRT	LCRT + ADJUV CT	YES	NO
CHRONICLE 2014	LCRT	FUFOL / CAP		NO
I-CNR-RT 2014	LCRT	CAPOX		NO
PROCTOR/SCRIPT 2014	LCRT	FUFOL		NO

No need for tumour downsizing

T3 CRM –

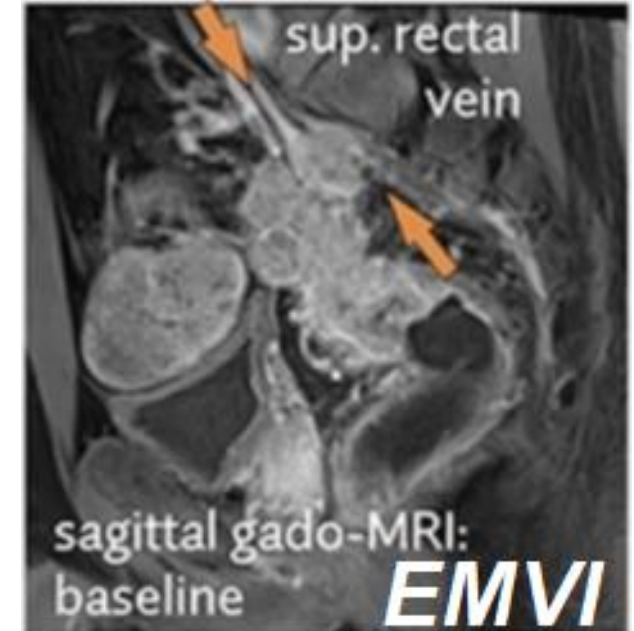
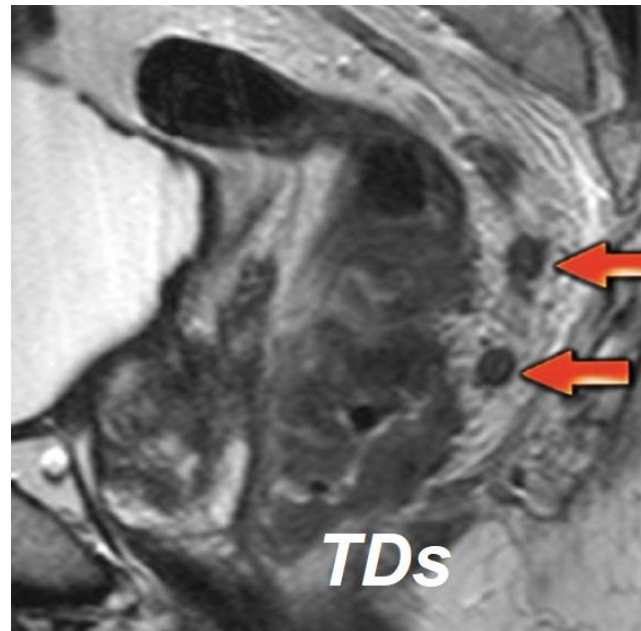


T3 CRM +



500/100/1/

The **high-risk group**, with the most chance of benefiting from preoperative treatment.





Rectal Cancer
Upfront TME

Preoperative High-resolution Magnetic Resonance Imaging Can Identify Good Prognosis Stage I, II, and III Rectal Cancer Best Managed by **Surgery Alone** A Prospective, Multicenter, European Study

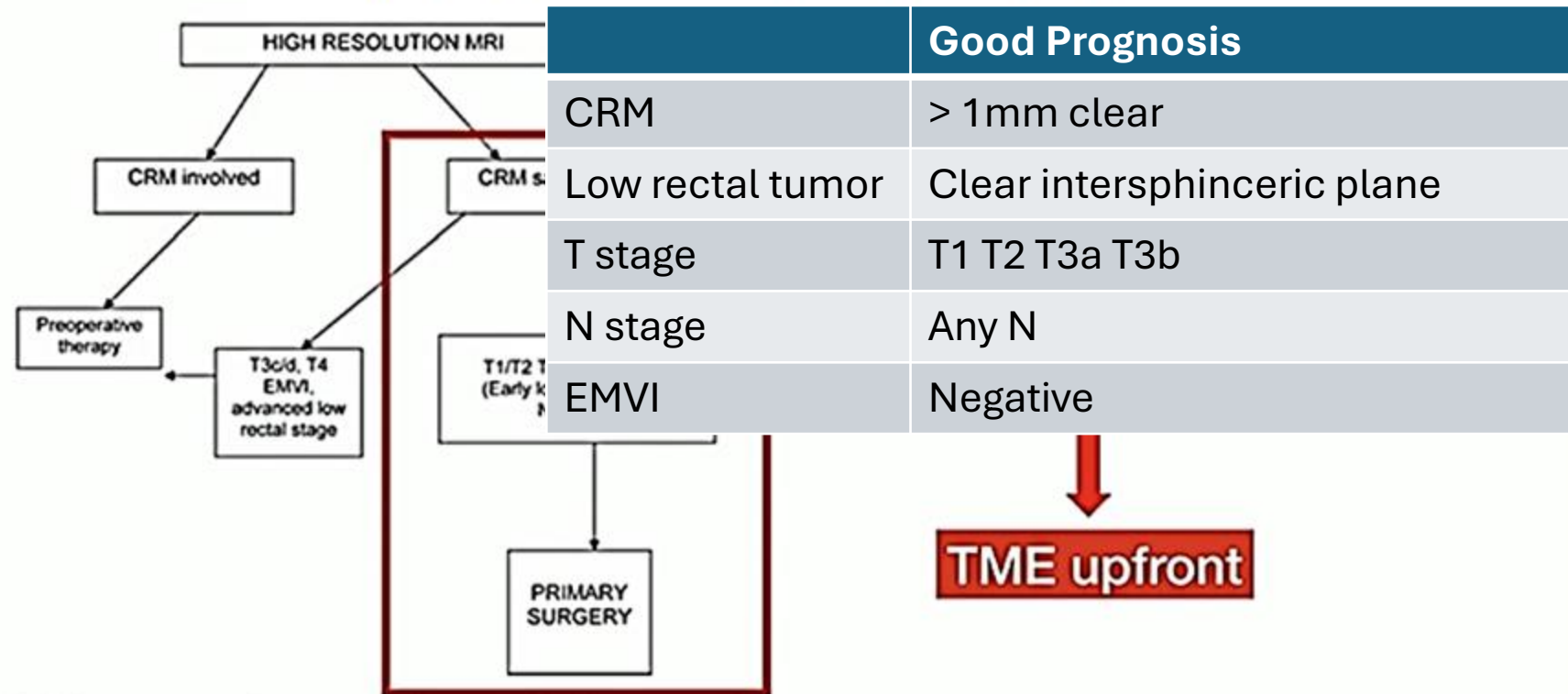


FIGURE 2. Treatment plans according to MRI prognosis.

Assessment of the 2020 NICE criteria for preoperative radiotherapy in patients with rectal cancer treated by surgery alone in comparison with proven MRI prognostic factors: a retrospective cohort study *Lancet Oncol 2022*



	Crude local recurrence		Crude distant recurrence	
	Patients (%)	p value	Patients (%)	p value
T stage on MRI				
T1-T2 on MRI (n=167)	7 (4%)	0.15	48 (23%)	0.0016
T3-T4 on MRI (n=211)	15 (7%)	..	18 (11%)	..
Lymph node metastases on MRI				
Negative (n=252)	12 (5%)	0.14	40 (16%)	0.16
Positive (n=126)	10 (8%)	..	26 (21%)	..
EMVI status on MRI				
Negative (n=288)	15 (5%)	0.14	32 (11%)	<0.0001
Positive (n=90)	7 (8%)	..	34 (39%)	..
Tumour deposits on MRI				
Negative (n=300)	17 (6%)	0.44	39 (13%)	<0.0001
Positive (n=78)	5 (7%)	..	27 (36%)	..
CRM status on MRI				
Safe (n=354)	19 (5%)	0.10	58 (17%)	0.027
Threatened (n=24)	3 (13%)	..	8 (33%)	..

EMVI=extramural venous invasion. CRM=circumferential resection margin.

Table 3: MRI prognostic factors and association with crude local and distant recurrence

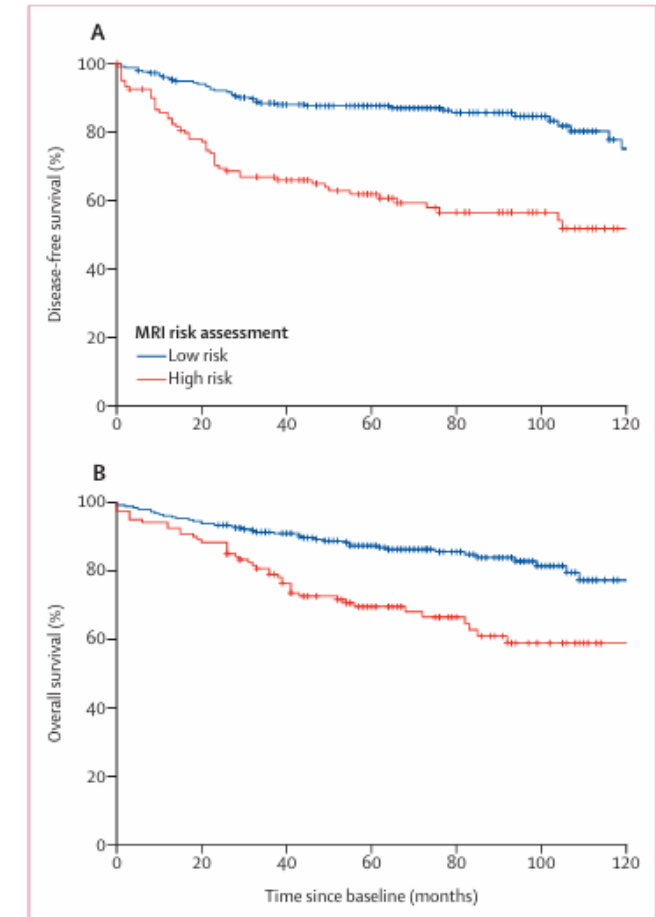

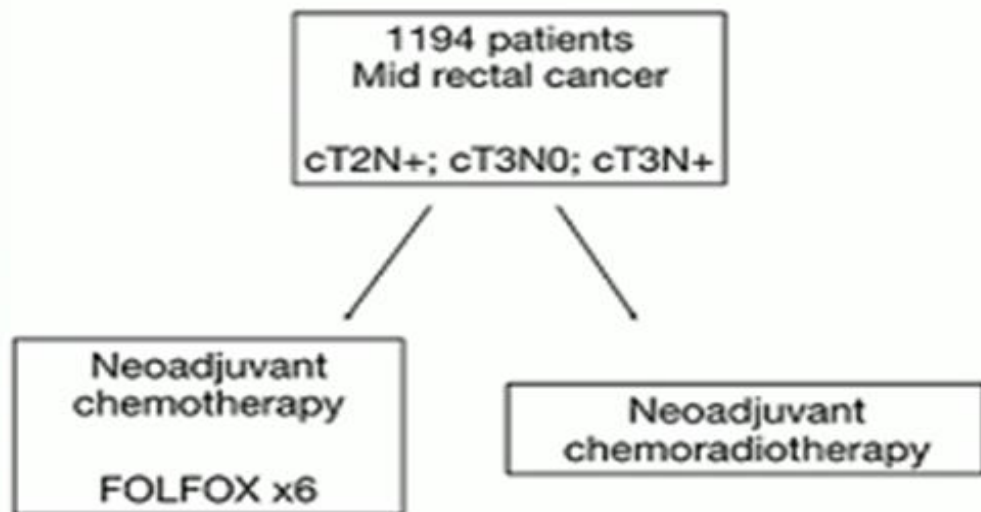


Figure 2: Disease-free survival (A) and overall survival (B) according to MRI risk assessment
Crosses denoted censored patients.

Assessment of the 2020 NICE criteria for preoperative radiotherapy in patients with rectal cancer treated by  surgery alone in comparison with proven MRI prognostic factors: a retrospective cohort study *Lancet Oncol 2022*

- Nice criteria : All patients receive preoperative radiotherapy except for those with radiologically staged T1–T2, N0 tumors.
- Overuse of radiotherapy could occur with this unselective approach.
- The high-risk group, with the most chance of benefiting from preoperative radiotherapy, is not well selected on the basis of NICE 2020 criteria and is better identified with proven MRI prognostic factors

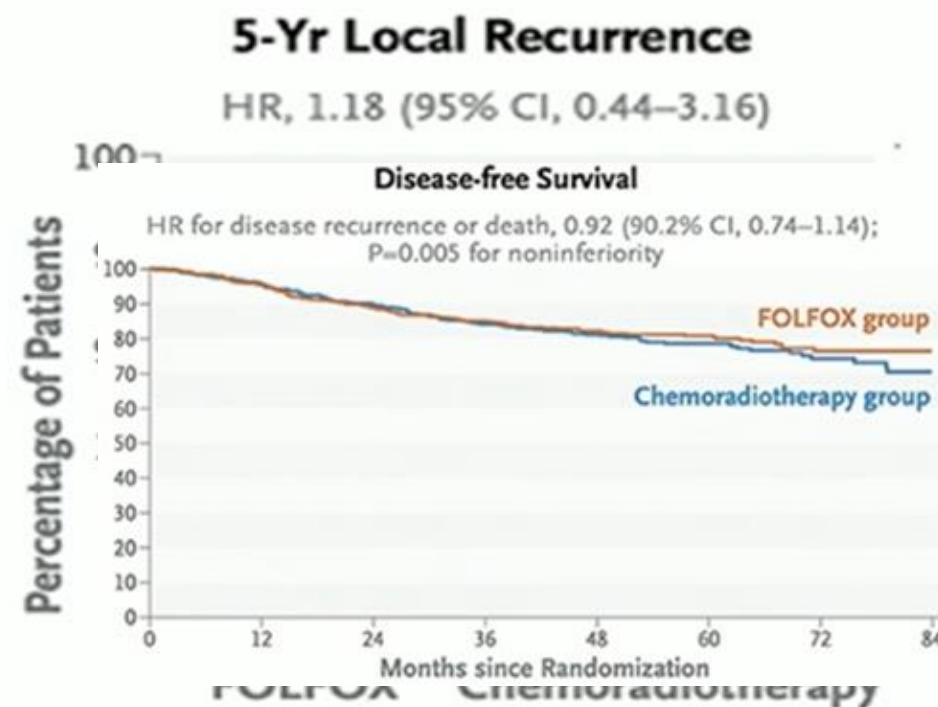
Rectal Cancer Upfront TME



Radiotherapy role regression

The NEW ENGLAND JOURNAL of MEDICINE 2023

Preoperative treatment of locally advanced rectal cancer



In patients with locally advanced rectal cancer who were eligible for sphincter-sparing surgery, preoperative FOLFOX was noninferior to preoperative chemoradiotherapy with respect to disease-free survival.

Abandonment of Routine Radiotherapy for Nonlocally Advanced Rectal Cancer and Oncological Outcomes

2024



2011

2016

Cross-sectional study suggest that an absolute 50% reduction in **radiotherapy** use for **nonlocally advanced rectal cancer** did not compromise **cancer-related outcomes** at a national level.

4y LRFS	5.8%	5.5%
4y OS	79.6%	86.4%

50% reduction in use of Radiotherapy in NL

Conclusion

- **Hight quality MRI** image is mandatory
- If you can resect safely and re anastomosis either T2 , early T3, especially high and mid tumors, without poor MRI prognostic criteria then go **direct to surgery**.
- Chemotherapy and radiotherapy **can't compensate** for bad surgery
- It true that there is chance 30-40% of CR with TNT, but there is chance 60-70% of operation, and the operation is hard and bad.

