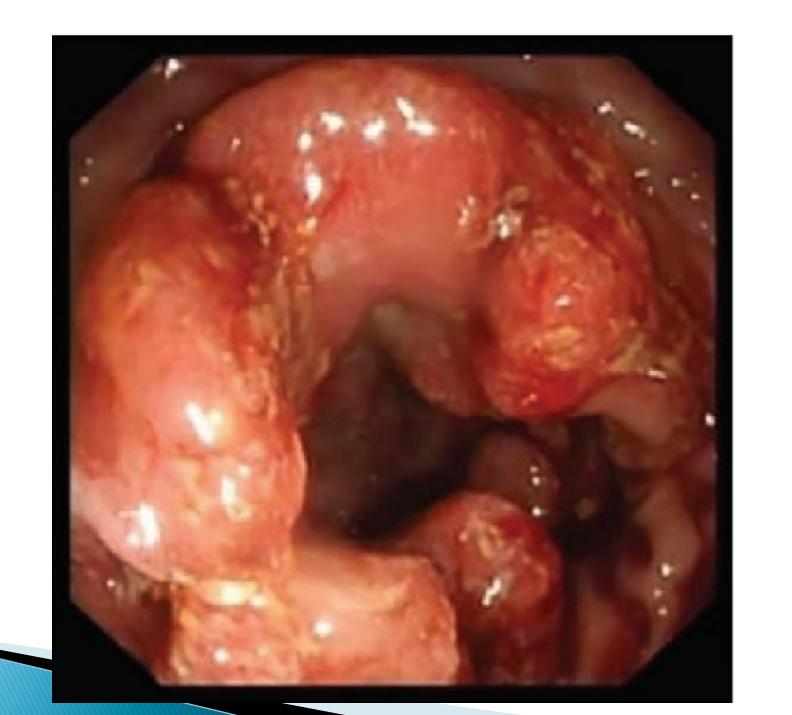
#### بنام خدا

Colorectal cancer panel Tabriz medical university Dr reza khalili hemato oncologist • 45 Y/O man with History of chronic constipation and decreased fecal caliber

Intermittent rectorrhagia

- Independent evaluation by the treating surgeon with either rigid or flexible proctoscopy is recommended for all rectal tumors.
- Critical characteristics to be documented, in conjunction with digital rectal examination, include: <u>tumor size</u>, <u>distances</u> <u>from the anal verge and the anorectal ring</u>, <u>orientation within</u> <u>the rectal lumen</u> (e.g. anterior-posterior, laterality) and/or <u>degree of circumferential involvement</u>, <u>extent of obstruction</u>, <u>extent of fixation to the rectal wall</u>, <u>degree of sphincter</u> <u>involvement</u> and <u>sphincter tone</u>.

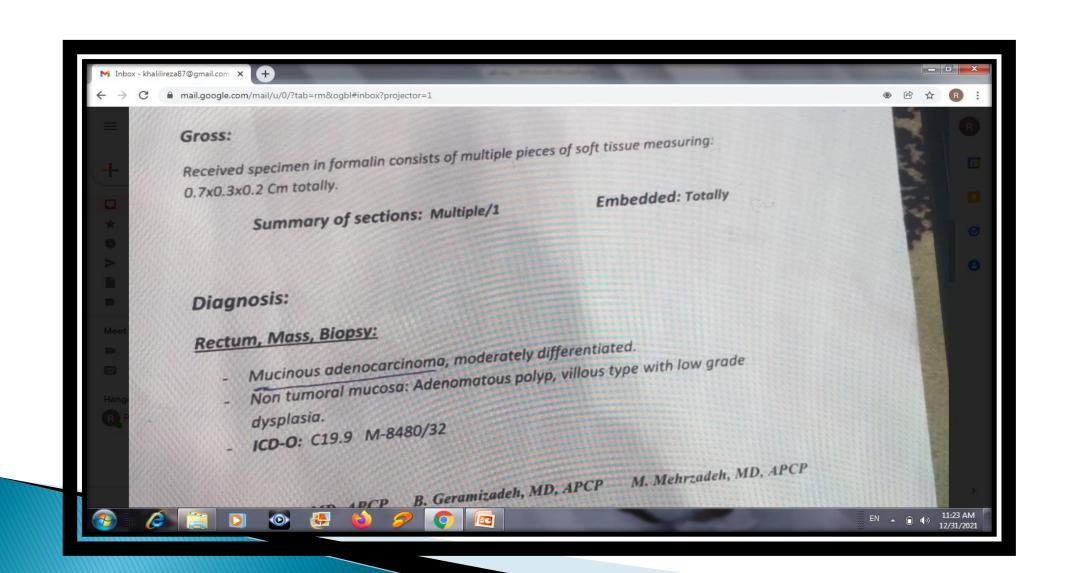


Colonoscopy: vegetative circumferential lesion in 5

cm from Anal verge were seen. Multiple biopsy was

taken

# Pathology:



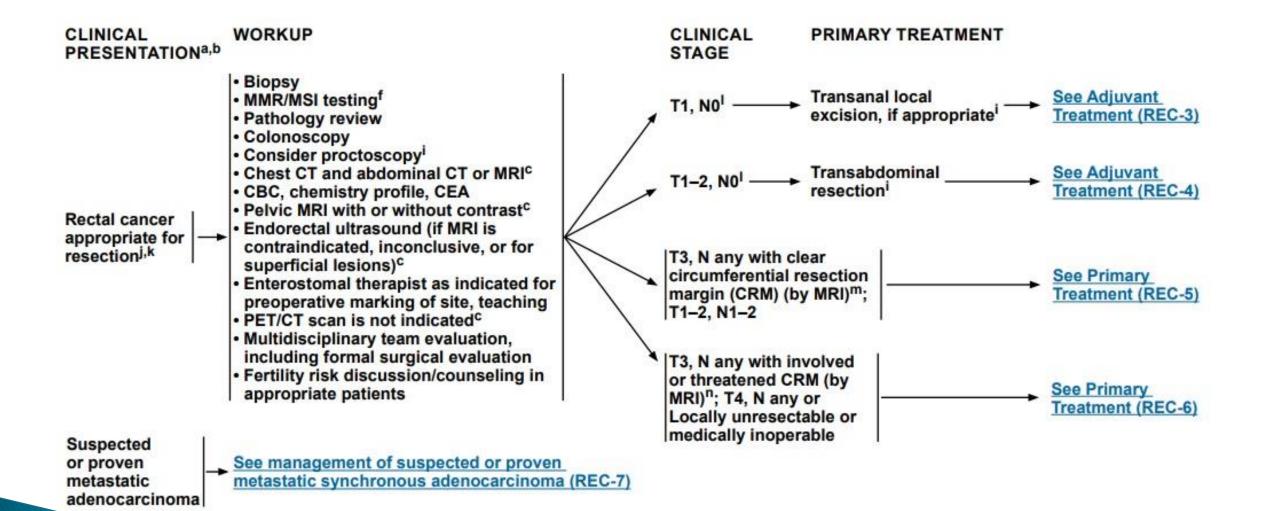
#### MMR/MSI test was done :

- MLH1 : Abnormal
- *MSH2* : *NL*
- *MSH6* : *NL*
- PMS2 : NL

#### NCCN version 2.2021:

- Abnormal MLH1 IHC should be followed by tumor testing for BRAF V600E mutation or MLH1 promotor methylation.
- The presence of BRAF V600E mutation or MLH1 promotor methylationis consist with sporadic cancer

#### Next step?



- In digital egxamination and rigid rectoscopy :
- Tumor was 6 cm from anal verge, 3 cm in length, mobile, and circumferentiated and sphincter was normal and tone of sphincter was preserved

- Chest and abdominaopelvic CT scan was Normal
- ► CEA= 10 CBC=NL RFT = NL LFT = NL
- MRI was not available
- ▶ EUS was done and T3N1 was Reported



#### Gastrointestinal Endoscopy

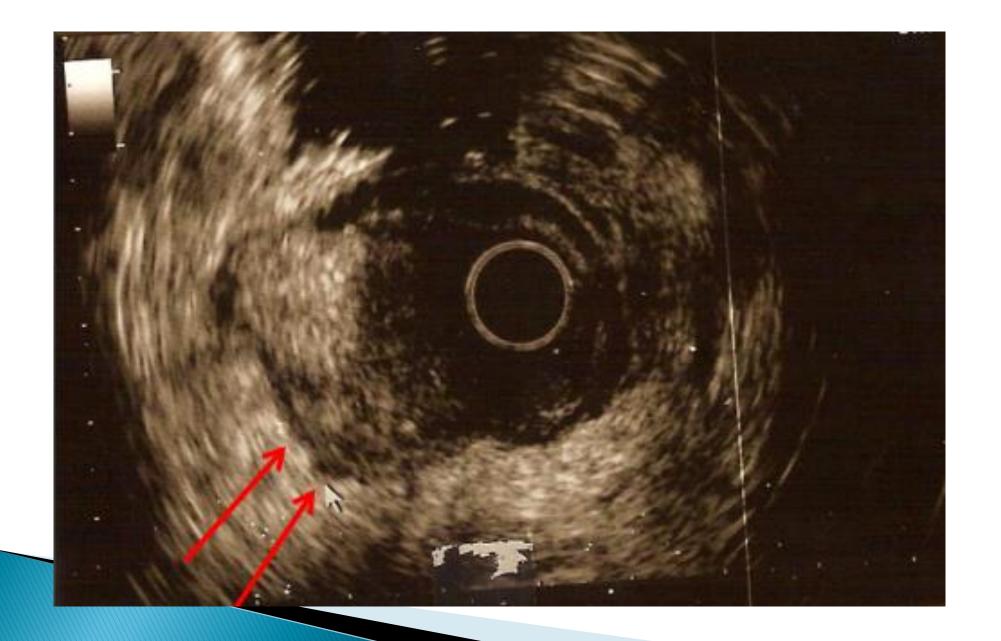
Volume 90, Issue 2, August 2019, Pages 196-203.e1

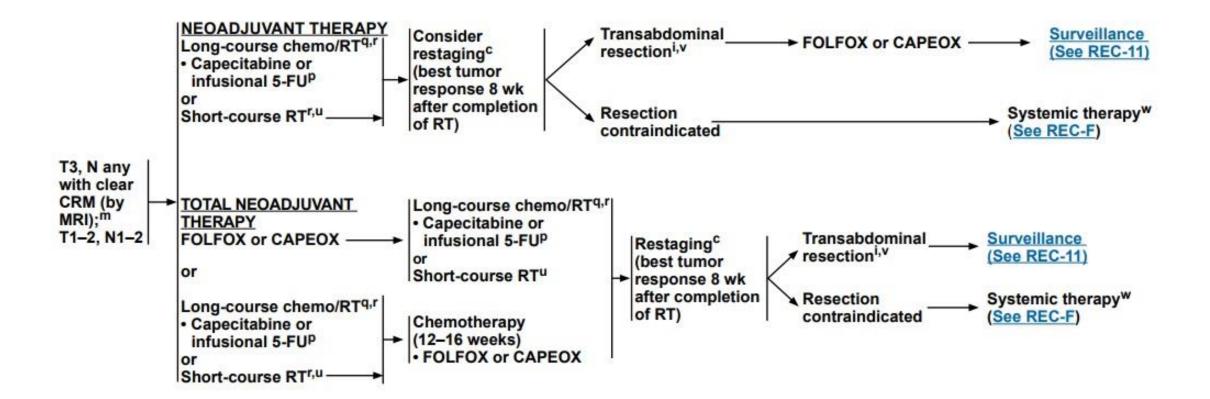


Systematic review and meta-analysis

EUS versus magnetic resonance imaging in staging rectal adenocarcinoma: a diagnostic test accuracy meta-analysis

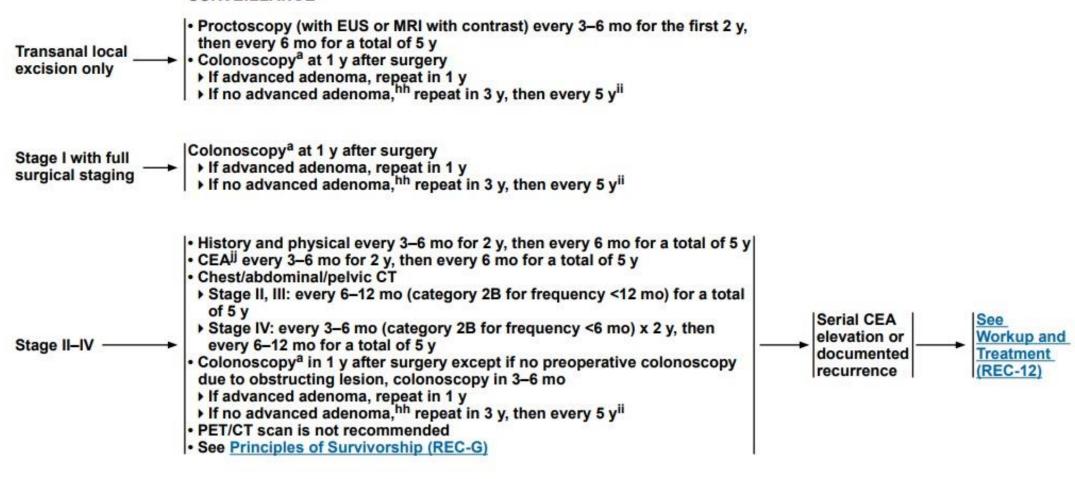
- EUS was superior to MRI in overall T staging and overall T and N staging after adjusting for MRI technology.
- Practitioners should be aware of advantages and disadvantages of both modalities and choose appropriate methods while considering diagnostic accuracy of each test and institutional practices and limitations.





- After long-course chemo/RT re evaluation was done.
- ▶ T2N0 in EUS was reported
- transabdominal resection was done and after 3 weeks, 12 course FOLFOX was ordered

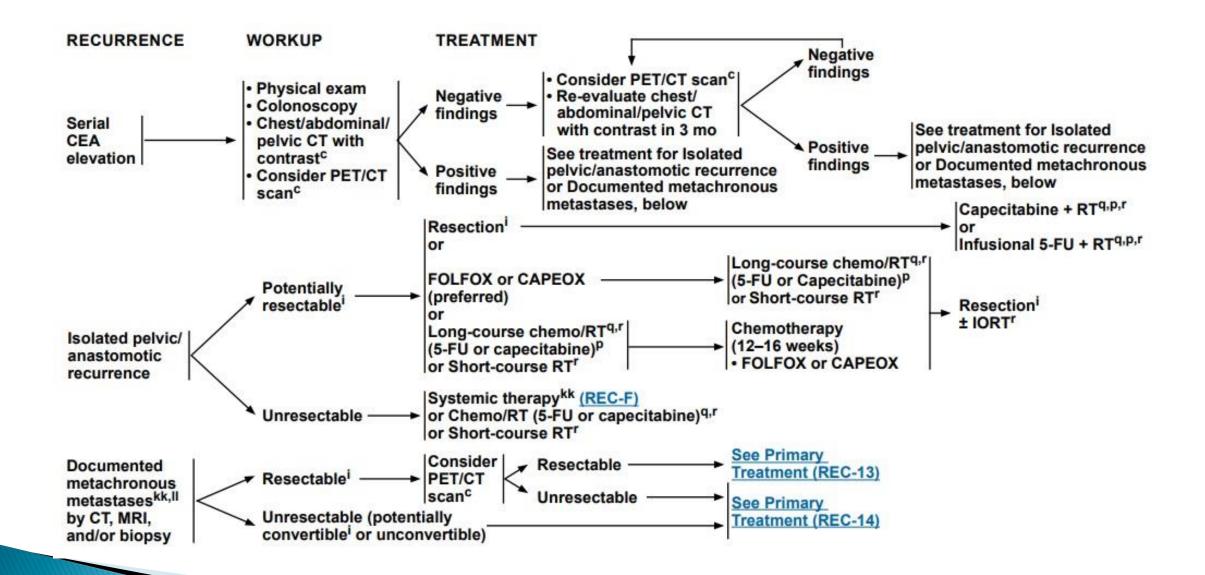
#### SURVEILLANCE<sup>C</sup>



- Physical exam and serial CEA every 3 months was done
- ▶ After 1.5 years : no symptom , normal Exam , CEA = 25

- CT scan revealed a single metastisis in liver segment 6, 3\* 4
   cm
- Colonoscopy was normal

▶ PET – CT was done: another 1\*1 cm lesion with SUV = 11 in right Hepatic lobe was revealed



- ▶ KRAS = wild type
- ▶ NRAS = wild type
- ▶ BRAR V600E mutation +



Previous adjuvant

within past 12

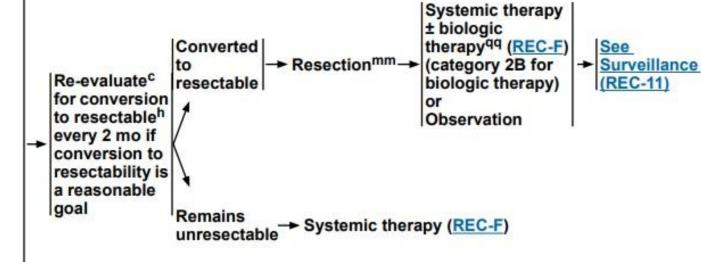
months

FOLFOX/CAPEOX

#### PRIMARY TREATMENTPP

(FOLFIRI or irinotecan) ±
(bevacizumab<sup>nn</sup> [preferred] or
ziv-aflibercept
or ramucirumab)<sup>oo</sup>
or
(FOLFIRI or irinotecan) ±
(cetuximab or panitumumab)
(KRAS/NRAS/BRAF WT gene
only)<sup>y</sup>
or
([Nivolumab ± ipilimumab]
or pembrolizumab [preferred])
(dMMR/MSI-H only)<sup>y</sup>
or
Encorafenib + (cetuximab or
panitumumab) (BRAF V600E
mutation positive)<sup>y</sup>

ADJUVANT TREATMENT<sup>C</sup> (UP TO 6 MO PERIOPERATIVE TREATMENT)



 Previous adjuvant FOLFOX/CAPEOX >12 months

 Previous 5-FU/LV or capecitabine

 No previous chemotherapy → Systemic therapy (REC-F)