Treatment overview of colon cancers.



Dr Manjinder Sidhu

Sr. Consultant Radaition Oncology Max hospital Bathinda

Indian scenario of colon cancer

8%

Of all cancer related death

4.4 per M

Annual incidence rate in men

3.9 per M

Annual incidence rate in females

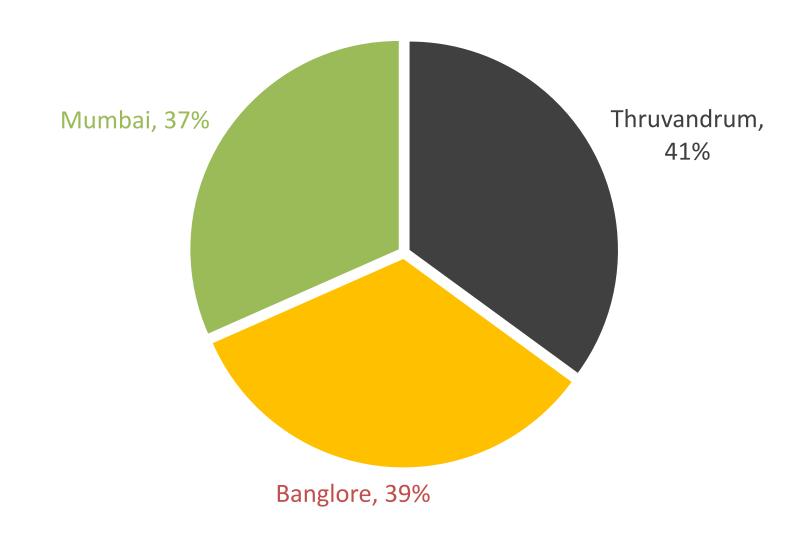
8th

Most common cancer in male

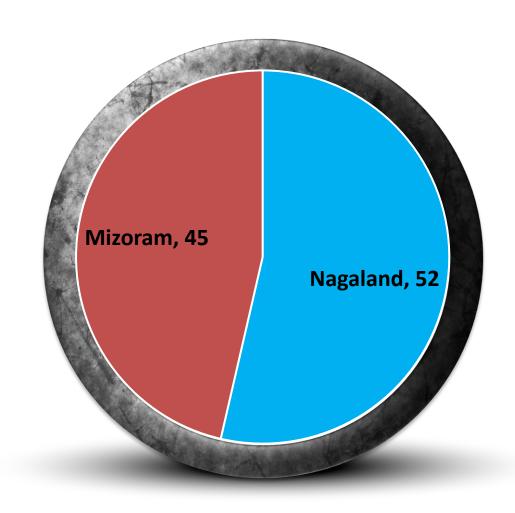
9th

Most common cancer in female

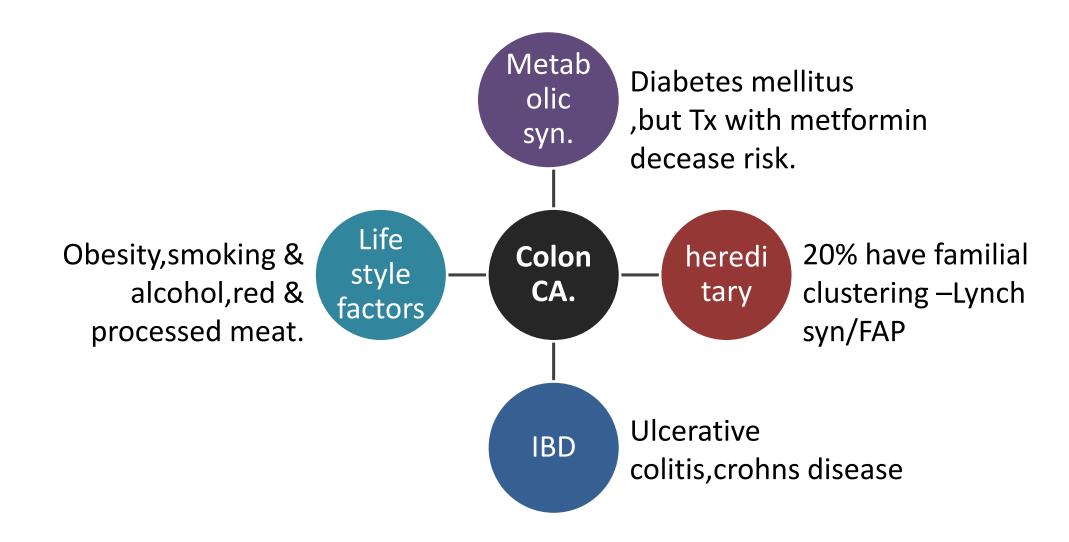
Annual incidence in males



Annual incidence in females

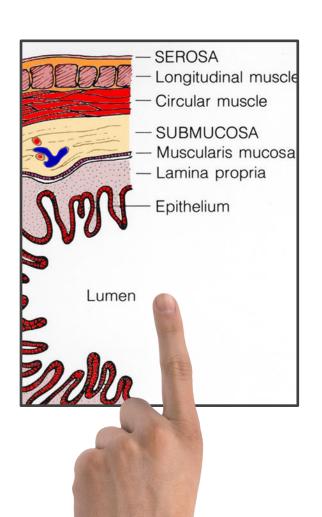


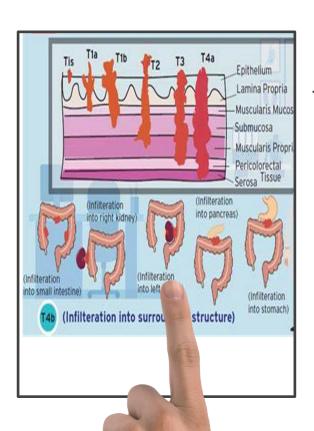
4 main risk factors for colon cancer are.



pT staging of colon cancer-8 th AJCC classification

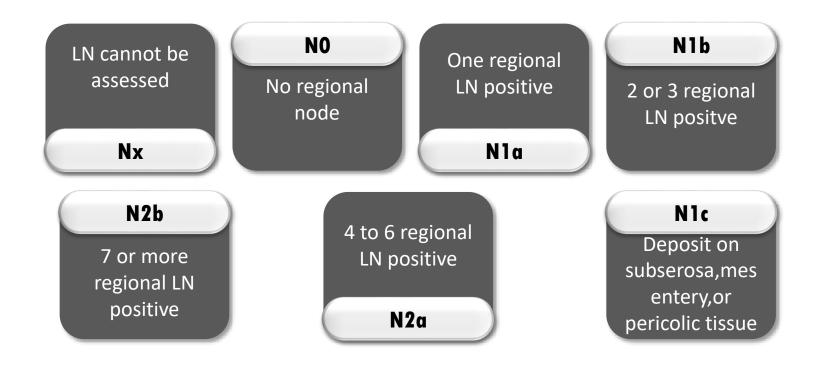
Anatomy



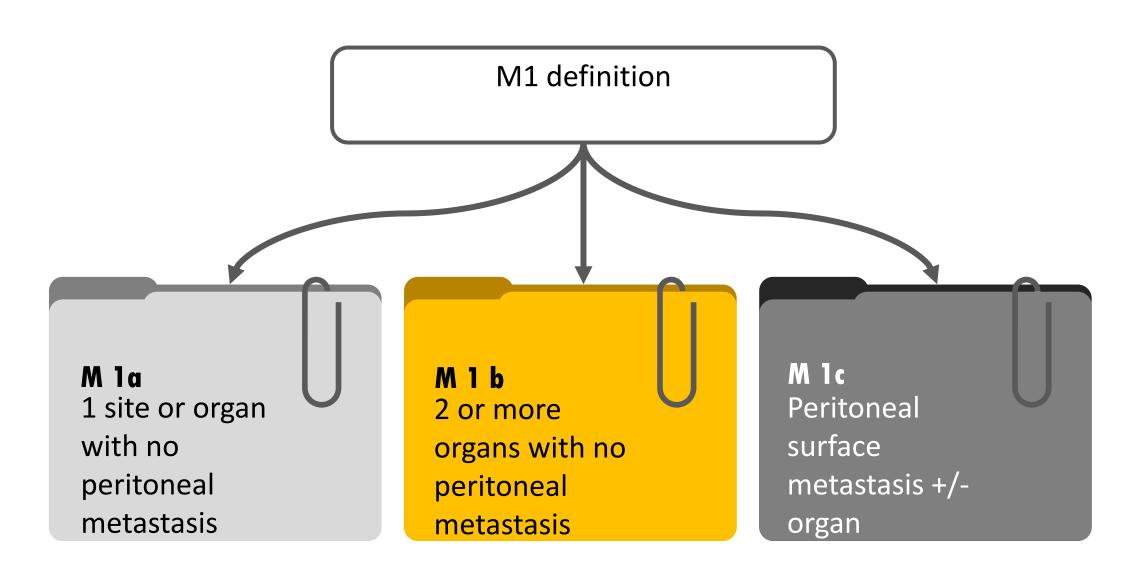


T staging

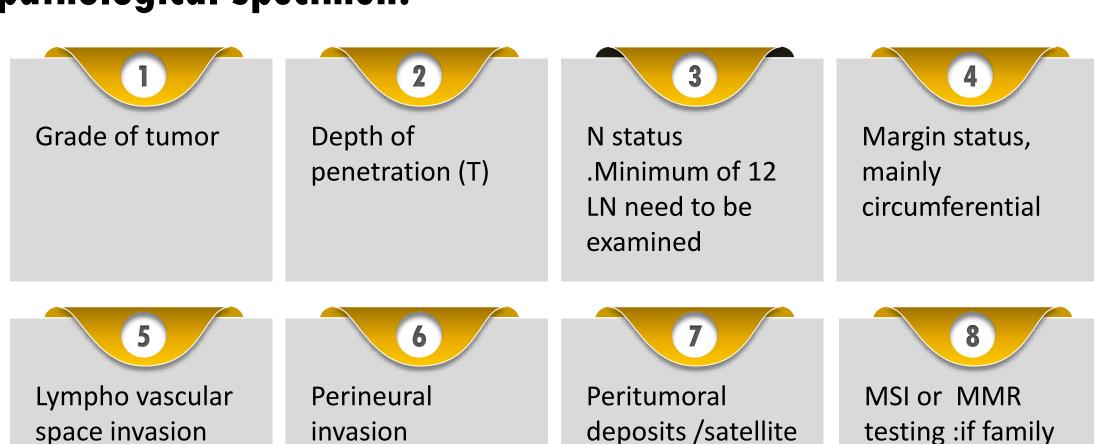
pN staging of colon cancer -8 th AJCC classification



M staging of colon cancer -8 th AJCC classification



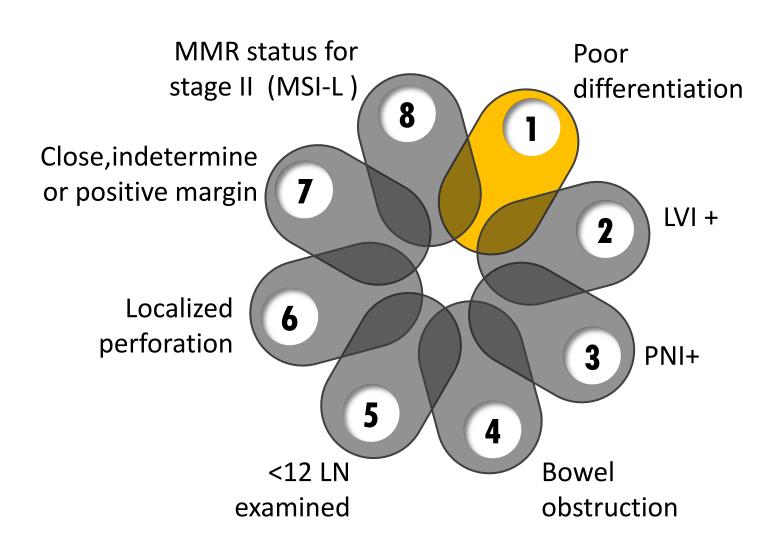
8 parameters which should be seen in formalin fixed pathological specimen.



nodules

history see.

Pathological high risk features of recurrence-Poor prognostic features



Work up of non metastatic colon mass appropriate for resection.







Hgb (g/dL)	5	5.5
MCV (fL)	63.9	64
RDW (%)	26.5	26.2
Platelets (x 10 ³ /mm ³)	71	43
WBC (x 10 ³ /mm ³)	3.7	4.3
Reticulocyte count (%)	0.2	ND

After first red blood cell transfusion.

After second red blood cell transfusion and discharge day.

Hgb = hemoglobin; MCV = mean corpuscular volume; ND = not done cell.



Colonoscopy.

- Rectosigmoid
 MC site
- Bx &polyp removal
- Synchronous precancerous lesion

Biopsy & path.

High risk factorspoorly diff./LVI/PNI//local perforation/margin /LN examined

Radiology.

- MRI pelvislow lying sigmoid
- CT thorax/abd
- PET:not indicated.

Blood parameter

- CBC, blood chemistry
- CEA

Gene assay

Not recommended except MSI or MMR testing :if family history see

Management of Colonoscopic detected invasive polyp.



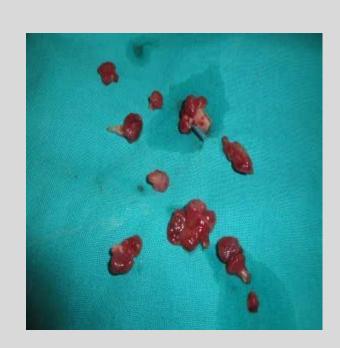
Pedunculated

Complete endoscopy excision with negative margin & keep on follow up



Sessile

Colectomy with en bloc LND



Fragmented specimen

Colectomy with LND as margin cannot be assessed

Options of Primary cancer appropriate

resection as pe

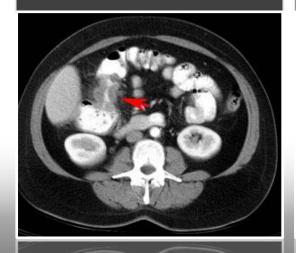
netastat colon rork v

Surgery

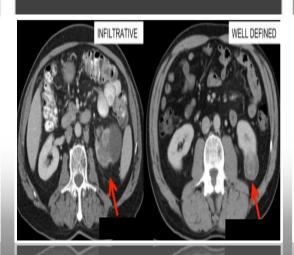
Diversion
/stent(distal
lesions) followed
by Sx

NACT followed by Sx.

Preoperative CRT followed by Sx.

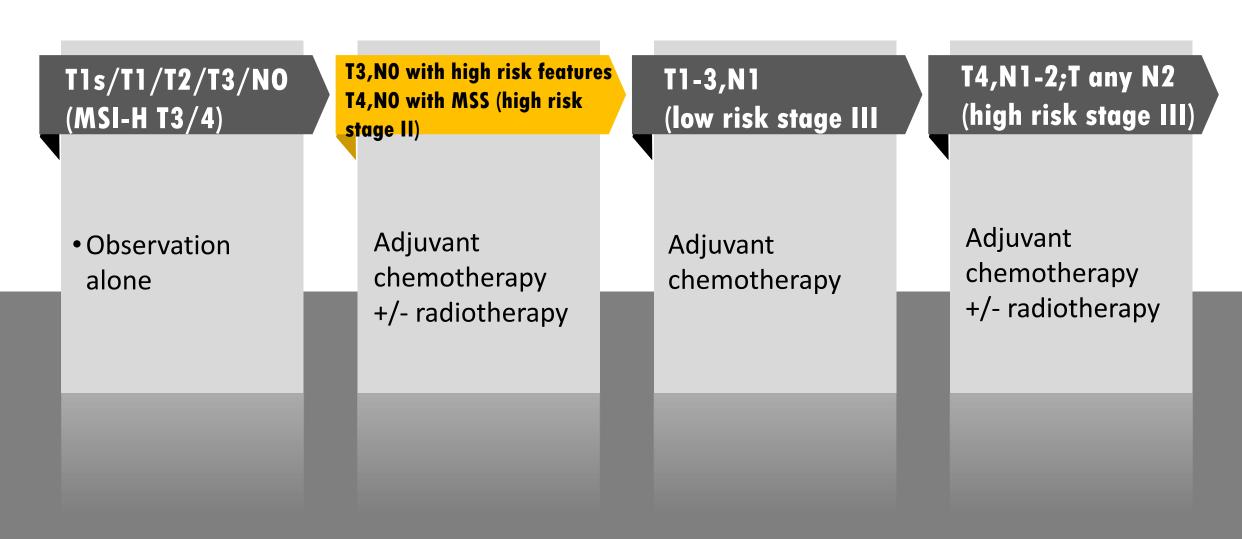




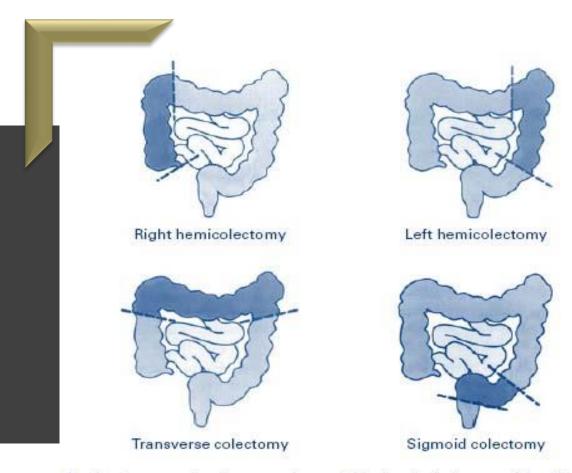




Adjuvant treatment after primary treatment as per pathologic staging of non metastatic colon cancer.



4 major types of colectomy as per tumor location



Colon resection

Include 5 cm of segment on either side.

Always consider regional LN dissection .

A colectomy may be done anywhere within the shaded areas of the diagrams.

Minimally invasive colectomy(Laproscopic/robotic) approaches.

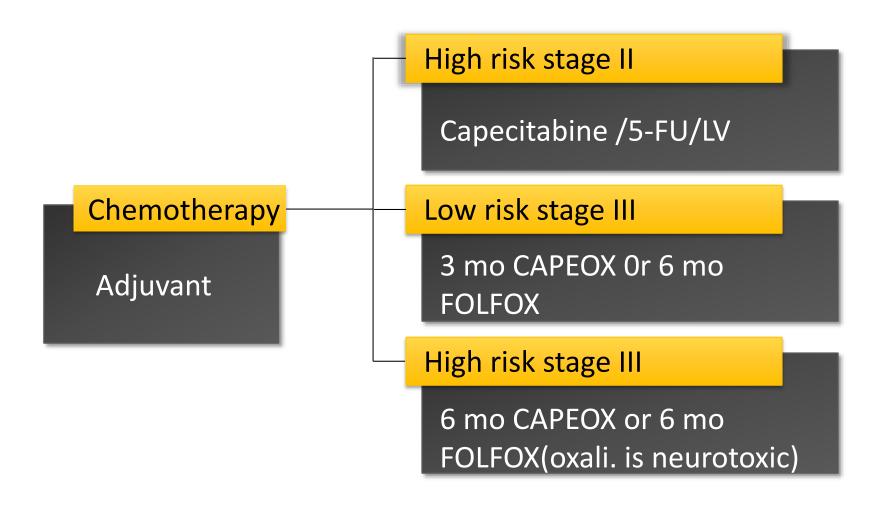
Negatives

- Not recommended for acutely obstructed or perforated or locally invasive to surrounding structure tumors
- High risk of abdominal adhesions.

Positives

- Less blood loss, short stay
- Shorter time of bowel recovery ,less infection rate
- Best for left side cancer

Adjuvant chemotherapy recommended only for high risk stage II & stage III cases.

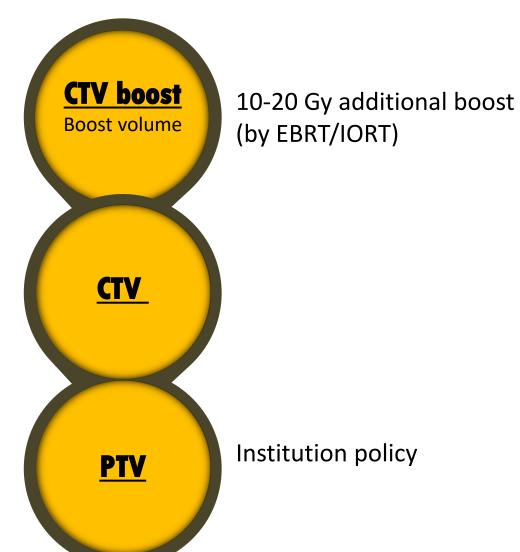


Adjuvant radiotherapy recommendations.

Initially unresectable to make it resectable.

Post op . T4b (perforation, residual disease post resection)

Target volume definition.



Tumor bed defined by preop.imaging & surgical clips
Dose 45-50Gy/25-28#

50-60% develop metastasis with liver as most common site.

Metachronous

MC type of metastasis in colon cancer
Develops after initial treatment

Synchronous

Occur in 20-34 % cases
Metastasis at time of initial diagnosis
Bad prognosis

Additional test recommended for metastatic colon disease.

Imaging

 PETCT in presence of potentially resect able lesions.

Gene status test.

- KRAS/NRAS.
- BRAF mutation

Gene testing.

- MMR(IHC)&
- MSI(PCR)
 mutation
 analysis if not
 done initially.

Goal of primary treatn resection/ablation in r
To achieve goal use 6

is to achieve rastatic resect ab perioperative FC

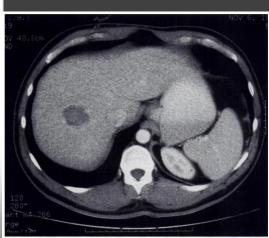
plete
..Discuss
X/CAF

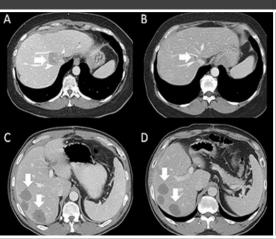
MDT

Resection/or Cryoablation (best for subcapsular) Ablation
(RFA:size
<3cm/microwave)/
or SBRT

SBRT (Only 700cc of viable liver<15Gy with dose 12-20Gy/3 #) Preoperative portal vein embolization to expand liver remnant

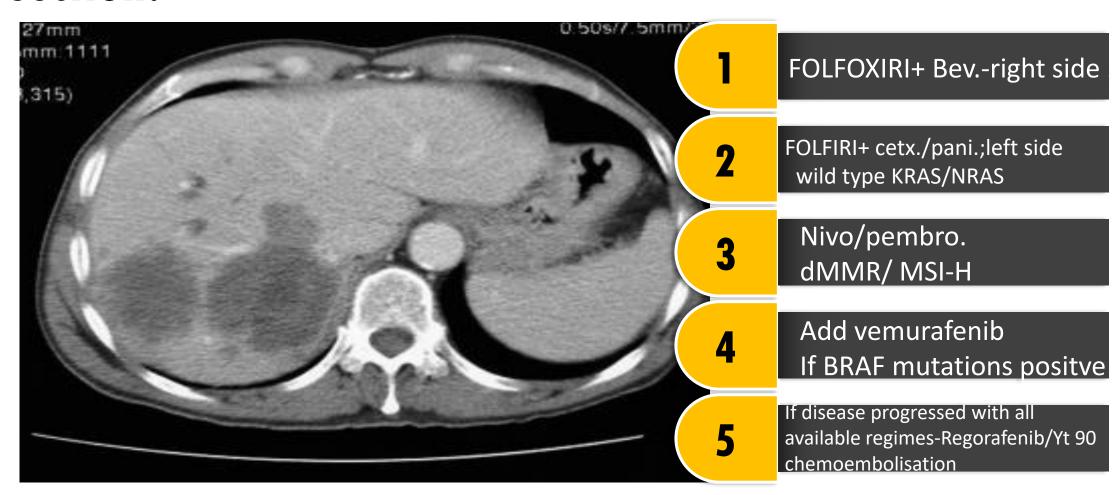




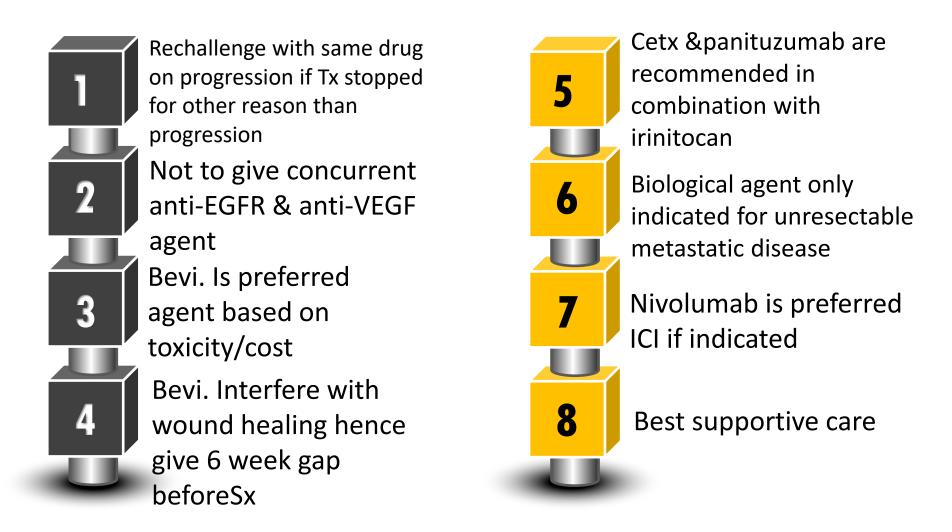


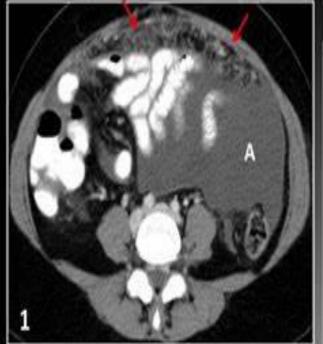


In unresectable metastatic lesions use chemotherapy with biological agents & reassess every 2 mo for resection.

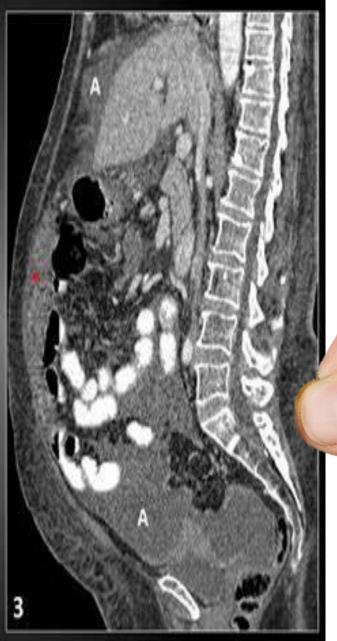


Points to be kept in mind while planning systemic therapy for metastatic disease









Peritoneal carcinomatosis

- Seen in 17% MCRC cases.
- TOC is peritoneal stripping surgery (if RO resection is possible) followed by HIPEC
- If extensive disease then palliative chemother apy with caution on use of bever mumals due to high risk of perforation.

Surveillance post treatment

Colonoscopy

Yearly once for 5 years Or clinically indicated

P/E & CEA levels

3 mo x 2yrs followed by 6mo x total 5 yrs.

Life style modification advice

30min exercise daily 325 mg aspirin. Limit alc. Intake & smoking cessation.

Imaging

Chest /abdomen/peivic CT 6mo x total 5ys PET/CT not indicated



Contact Us

Mobile: 9530696006 Phone: 01646601832

Email:manjinder0391@gmail.co

m

Address:

Max super specialty hospital

bath inda