Rectal Cancer GI Unit Guidelines

RECTAL CANCER

Initial Workup

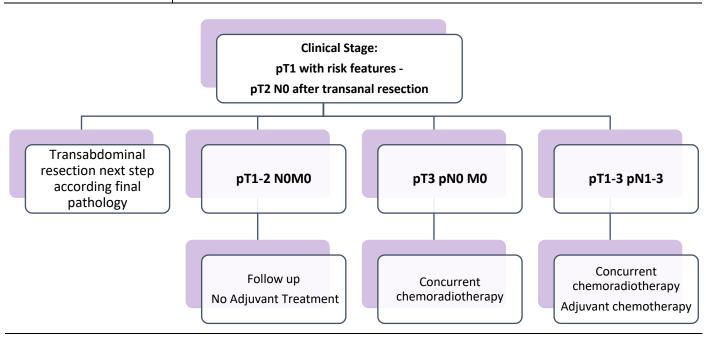
- Personal and family history
- Physical examination
- Laboratory tests:
 - o CBC, biochemistry
 - o Baseline CEA and CA 19-9
- Colonoscopy (if not performed already, or was incomplete)
- CT thorax + abdomen + pelvis
- PET scan (not routinely)
- MMR protein testing for all patients younger than 50 years to screen for Lynch syndrome.

Treatment Options According to the Clinical Stage

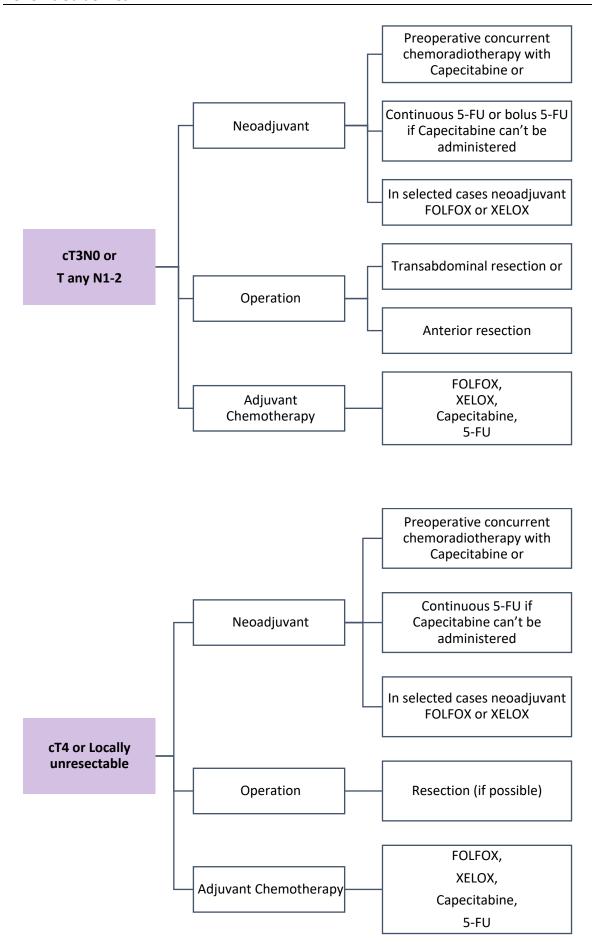
High Risk Features:

- Positive margins,
- Lymphovascular invasion,
- Poorly differentiated tumors, or
- Submucosal invasion to the lower third.

Clinical Stage	Treatment Option
cT1 N0	Transanal excision followed by observation only if confirmed pT1 with no risk
	features.



GI Unit Guidelines Rectal Cancer



Rectal Cancer GI Unit Guidelines

Stage IV

Basic management of stage IV rectal cancer is like that of stage IV colon cancer (see the previous chapter).

Additional points in Stage IV management:

Surgical:

- Surgical resection/anastomosis or bypass of obstructing lesions in selected cases or resection for palliation.
- Surgical resection of isolated metastases (liver, lung, ovaries), followed by postoperative chemotherapy 4-6 months.

Chemotherapy:

- Chemoradiation for local palliation.
- Chemotherapy + targeted agent combination for:
 - o Distant disease after resection/ablation of local disease.
 - Distant disease followed by resection/ablation of distant disease.
 - o Cases not suitable for resection/ablation.

Recurrent Rectal Cancer

Multidisciplinary Management:

- Type and sequence of chemotherapy, surgery, and/or radiation therapy is **individualized** to patient based on the multidisciplinary review.
- Multidisciplinary team includes:
 - Surgeon,
 - Medical oncologist, and
 - Radiation oncologist.

In all cases, surgical resection should be performed with the intent for a cure rather than palliation

- Resection:
 - Resection of locally recurrent rectal cancer in selected patients.
 - Resection of liver metastases in selected patients.
 - Resection of isolated pulmonary or ovarian metastases in selected patients.
- Palliative Therapy:
 - o Palliative radiation therapy.
 - o Palliative chemotherapy.
 - o Palliative chemoradiation.
- Stents to relieve the obstruction.

GI Unit Guidelines Rectal Cancer

Surveillance

Stage I (T1N0M0 and T2N0M0):

Colonoscopy

- Performed after 1 year of surgery
- If no pre-operative colonoscopy due to obstructive tumor:
 - Colonoscopy in 3-6 months after surgery
- If advanced adenoma:
 - o Repeat colonoscopy in 1 year
- If no advanced adenoma:
 - Repeat colonoscopy in 3 years,
 - Then every 5 years.

Stage II (low and high-risk) and Stage III:

History and Physical Examination

- Every 3-6 months for 2 years
- Then every 6 months for a total of 5 years.

CEA

- Every 3-6 months for 2 years
- Then every 6 months for a total of 5 years

Contrast-enhanced CT scan of chest + abdomen + pelvis

• Annually for 3-5 years; as clinical indicated

Colonoscopy

- Performed after 1 year of surgery
- If no pre-operative colonoscopy due to obstructive tumor:
 - Colonoscopy in 3-6 months after surgery
- If advanced adenoma:
 - Repeat colonoscopy in 1 year
- If no advanced adenoma:
 - Repeat colonoscopy in 3 years,
 - Then every 5 years.

Laboratory (CBC, biochemistry)

· As clinically indicated

Rectal Cancer GI Unit Guidelines

Stage IV and Stage IV NED:

History and Physical Examination

- Every 3-6 months for 2 years
- Then every 6 months for a total of 5 years.

CEA

- Every 3-6 months for 2 years
- Then every 6 months for a total of 5 years

Contrast-enhanced CT scan of chest + abdomen + pelvis

- Every 3-6 monthly for 2 years
- Then every 6-12 months up to a total of 5 years.

Colonoscopy

- After 1 year of surgery
- If no pre-operative colonoscopy due to obstructive tumor:
 - Colonoscopy in 3-6 months after surgery
- If advanced adenoma:
 - o Repeat colonoscopy in 1 year
- If no advanced adenoma:
 - o Repeat colonoscopy in 3 years,
 - Then every 5 years.

Laboratory (CBC, biochemistry)

• As clinically indicated

GI Unit Guidelines Anal Cancer

ANAL CANCER

Initial Workup

- · Personal and family history
- Physical examination
 - o Digital rectal exam (DRE).
 - Procto-anoscopy
 - o Gynecological evaluation for female
- Inguinal lymph node evaluation:
 - o Consider biopsy or Fine-needle aspiration cytology (FNAC) of the suspicious node.
- Radiography:
 - CT scan chest
 - o CT scan abdomen and pelvis or
 - o MRI abdomen and pelvis
 - Consider PET/CT (skull base to mid-thigh)
- Screening for cervical cancer.
- HIV testing and/or CD4 count

Treatment According to the Stage

Stage	Management
T1N0 well differentiated, selected T2 if no extension to sphincter	Local excision [aiming for complete excision] Then observe
T1N0 well differentiated, incomplete excision	Re-excision or 5FU/Mitomycin with RT May consider 5FU/Cisplatin
T1, N0 Poorly differentiated or T2-4 N0 or any T, N1-3	Mitomycin + 5FU with RT or Mitomycin + Capecitabine with RT May consider Cisplatin/5FU with RT

Anal Cancer GI Unit Guidelines

Recurrence Treatment According to Site of Recurrence

A. Local recurrence	
I. Management	Abdominoperineal resection (APR) + groin dissection
II. Follow Up	If positive inguinal nodes are present, arrange for: Inguinal node palpation every 3–6 month for 5 years after resection. Chest/abdomen/pelvic CT with contrast annually for 3 years.

B. Inguinal Node Recurrence		
I. Management	Groin dissection followed by RT [if no prior RT] ± 5-FU/Mitomycin or Mitomycin/capecitabine or 5-FU/cisplatin	
II. Follow Up	 DRE every 3–6 months for 5 years Inguinal node palpation every 3–6 months for 5 years Anoscopy every 6-12 months for 3 years Chest/abdomen/pelvic CT with contrast annually for 3 years 	

C. Any T, Any N, M1 (metastatic)		
I. Management	Cisplatin + 5FU with or without RT or Carboplatin/Paclitaxel with or without RT	
	or FOLFOX with or without RT	
II. In case of Progression	Nivolumab or Pembrolizumab	
III. Follow Up	Evaluate every 8–12 weeks with exam + DRE	
IV. If Complete remission	 DRE every 3–6 mo for 5 y. Inguinal node palpation every 3–6 mo for 5 y. Anoscopy every 6–12 mo x 3 y. Chest/abdomen/pelvic CT with contrast annually for 3 years. 	

Regimen	Administration
Cisplatin + 5FU	Cisplatin 100mg/m² day 2
	5FU continuous IV 1000mg/m²/d on days 1-5
	Repeated 4 weekly

GI Unit Guidelines Anal Cancer

5-FU + Mitomycin + RT	Continuous infusion 5-FU 1000 mg/m ² /d IV days 1–4 and 29–32 + Mitomycin 10 mg/m ² IV bolus days 1 and 29 + Concurrent radiotherapy
	Continuous infusion 5-FU 1000 mg/m²/d IV days 1–4 and 29–32 + Mitomycin 12 mg/m² on day 1 (capped at 20 mg) + Concurrent radiotherapy.
Capecitabine + Mitomycin + RT	Capecitabine 825 mg/m ² PO BID, Monday–Friday, on each day that RT is given, throughout the duration of RT (typically 28 treatment days)
	+ Mitomycin 10 mg/m ² days 1 and 29 + Concurrent radiotherapy.

Metastatic Regimens

Cisplatin 60 mg/m² day 1

+ Continuous infusion 5-FU 1000 mg/m²/d IV days 1-4

Repeat every 3 weeks

Cisplatin 75 mg/m2 day 1

+ Continuous infusion 5-FU 750 mg/m2/d IV days 1-5 Repeat every 4 weeks

mFOLFOX6

Oxaliplatin 85 mg/m2 IV day 1 +

Leucovorin 400 mg/m2 IV day 1

5-FU 400 mg/m2 IV bolus on day 1

then 1200 mg/m2/d x 2 days (total 2400 mg/m2 over 46–48 hours) IV continuous infusion

Repeat every 2 weeks

Carboplatin AUC 5 IV day 1

Paclitaxel 175 mg/m2 IV day 1

Repeat every 21 days

Nivolumab 240 mg flat total dose every 2 weeks or flat dose 480 mg every 4 weeks

or 3 mg/kg every 2 weeks

Pembrolizumab 200 mg every 3 weeks

or Pembrolizumab 2 mg/kg every 3 weeks