# **Colorectal Cancer Reference Handout**

# Colorectal Cancer Colon Cancer Above peritoneal reflection Above anus

#### **Staging**

#### **T1**

T0 = carcinoma in situ

T1 = submucosa

T2 = muscularis propria

T3 = peri-colorectal

T4 = visceral peritoneum, adjacent organs

#### N

N1 = 1-3 LN (includes "tumor deposits")

N2 = 4 + LN

#### M

M1 = distant mets, includes peritoneum

#### Stage

Stage I = T1-2, N0

Stage II = T3-4, N0

Stage III = T1-4, N1-2

Stage IV = M+

# Colon Cancer Tx Early Stage

Stage I CRC (T1-2, N0)

**Surgery + Observation** 

Stage II CRC (T3-4, N0)

Surgery +/- Chemotherapy

#### **T3N0**

+/- Chemo

MSI-H = NO benefit to chemo

MSI-L = YES benefit with chemo

**T4N0** 

+ Chemo

5FU/Leucovorin

Capecitabine

#### Stage III CRC (N+)

**Surgery + Chemotherapy** 

Low Risk T1-3, N1 (<3 LN)

3 Months Chemo CAPOX

High Risk T4, N2 (>3 LN)

6 Months Chemo FOLFOX or CAPOX

\* Stage III > 70 yo: no benefit to oxaliplatin

## **Colorectal Cancer Tx Metastatic**

#### **Front-Line**

#### **FOLFOX**

5FU + Oxaliplatin

#### **CAPOX**

Capecitabine + Oxaliplatin

#### **FOLFIRI**

5FU + Irinotecan

#### **FOLFOXIRI**

5FU + Oxaliplatin + Irinotecan

#### **Targeted Therapy for Special Populations**

#### **Left-Sided Colon Cancer**

Add cetuximab (EGFR Inhibitor)

#### **Right-Sided Colon Cancer**

Add bevacizumab (VEGF Inhibitor)

#### **KRAS/NRAS Mutated**

No EGFR biologic therapy

#### dMMR/MSI-High

Pembrolizumab

Nivolumab/Ipilimumab

\* CPI monotherapy front line if dMMR

#### **Notable Side Effects**

**5FU/Capecitabine** → Hand-foot Syndrome (PPE), stomatitis, diarrhea, angina, mild alopecia, NASH

Oxaliplatin → Neuropathy, nephropathy, ototoxicity, cold hypersensitivity

**Irinotecan** → Watery secretory diarrhea, mild alopecia, NASH

**Bevacizumab** → HTN, stroke, MI, poor wound healing

**Cetuximab** → Diarrhea/electrolyte abnormalities, acne

#### **Principles of Front-Line Regimen Selection**

- 1. Avoid Neuropathy if possible
- 2. Balance Toxicity with OS benefit
- 3. Order is less important
- 4. Add biologic agent (EGFR or VEGF inhibitor)
- 4. Utilize maintenance therapy

#### **Second-Line**

#### Targeted Therapy →

if indicated

#### **Trifluridine/Tipiracil (Lonsurf)**

#### Regorafenib

More side effects than lonsurf

#### **Targeted Therapy for Special Populations**

#### dMMR/MSI-High

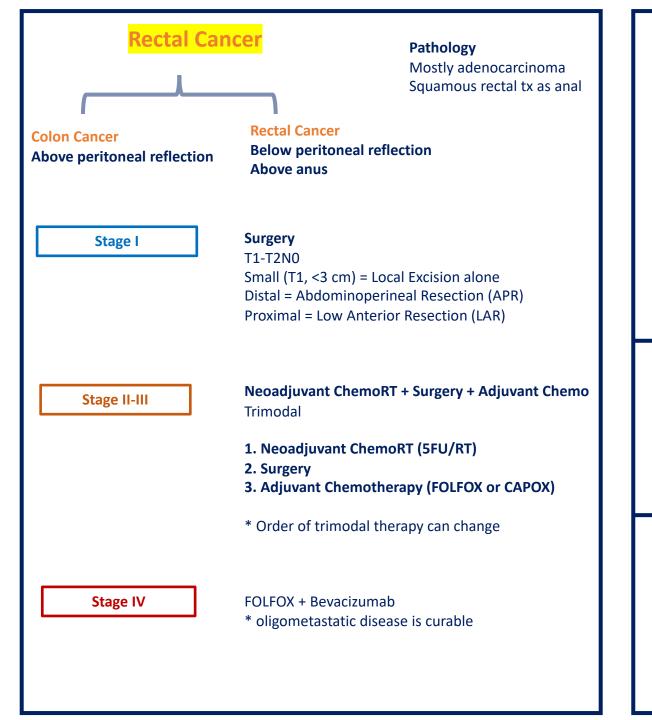
Pembrolizumab (1<sup>st</sup> line/2<sup>nd</sup> line) Nivolumab/ipilimumab (1<sup>st</sup> line/2<sup>nd</sup> line)

#### **BRAFV600E Mutated**

Encorafenib + cetuximab (2<sup>nd</sup> line) Dabrafenib + trametinib (2<sup>nd</sup> line)

#### **HER2 Mutated**

Trastuzumab Lapatinib



## **Anal Cancer**

Risk

Associated with HPV

**Pathology** 

Mostly squamous, rarely adenocarcinoma

Stage I

No sphincter involvement and Well Differentiated

Surgery = Abdominoperineal Resection (APR)

Yes sphincter involvement or Poorly Differentiated

ChemoRT

Stage II-III

ChemoRT

5FU/mitomycin + RT

\* Cisplatin can replace mitomycin if contraindication

Stage IV

**Chemotherapy or Immunotherapy:** No standard treatment

Carboplatin/paclitaxel

Pembrolizumab, Nivolumab