COLON CANCER

Shalini Kanneganti MD, FACS, FASCRS
Colon and Rectal Surgery

CHI Franciscan Health
Anatomy
Blood supply
Colon cancer

- SECOND most common cause of cancer deaths in US
- 107,000 new patient each year
- 50,000 deaths each year
- 5% develop colon cancer in their lifetime
Colon Cancer At-A-Glance*

- Colon cancer is the second leading cause of cancer-related death in the U.S.
- On average, your risk is about 1 in 20, although this varies widely according to individual risk factors.
- 90% of new cases occur in people 50 or older.
- People with a first-degree relative (parent, sibling or offspring) who has colon cancer have two to three times the risk of developing the disease.
- There are currently more than one million colon cancer survivors in the U.S.

*Source: American Cancer Society
Colon cancer Deaths
RISK FACTORS

- AGE > 50
- FAMILY HISTORY
- UC/ CROHNS DISEASE
- DIET
- LIFESTYLE
- SMOKING
- FAP
- HNPCC
Pathophysiology

- Normal → Adenomatous Polyp → Genetic mutation → Colorectal Cancer
  - Early
  - Late

10 years
Colon polyps
SYMPTOMS

- Change in bowel habits
- Abdominal pain
- Rectal bleeding
- Weight loss
- Weakness/Fatigue
Prevention

- Decrease Fat and red meat
- Increase Fiber
- Increase fruits and vegetables
- More research
Fiber

- Normalizes bowel movements
- Helps Bowel health
- Lowers Cholestrol
- 25gms/day
COLON CANCER MANAGEMENT

- Colonoscopy
- Pathology & Molecular Biology
- Imaging – CT Chest ABD Pelvis
- Surgery
- Chemotherapy
Colonoscopy

- Safe and effective
- Diagnosis
- Treatment

Image source - Medicinenet.com
STAGING

- STAGE 1 - T1-2
- STAGE 2 - T3-4
- STAGE 3 - Any N
- STAGE 4 - Mets
CHALLENGES

I  -  DIAGNOSIS
II -  STAGING
III - SURGICAL TECHNIQUE
SURGERY
RIGHT HEMICOLECTOMY: A MINIMALLY INVASIVE & TECHNICALLY PROFICIENT APPROACH
Benefits

- Shorter hospital stay
- Faster return of bowel function
- Less pain
- Smaller incision
PROCEDURAL STEPS
PREPARATION

- Bowel prep
- Preop nutrition
- Preop abxs
TROCHAR PLACEMENT

- Open Hasan
  - Supraumbilical
- Triangulate ports
ILEOCOLIC PEDICLE

- omentum
- cecum
- vascular pedicle
ILEOCOLIC PEDICLE
ILEOCOLIC PEDICLE
ILEOCOLIC PEDICLE
Mobilize Right colon

- Cecum/Appendix:
- Ascending colon:
- Hepatic flexure:
Transverse Colon
Adequate Mobility
ILEAL TRANSECTION
TRANSVERSE COLON TRANSECTION
MESENTERIC LIGATION
ILEOCOLIC ANASTOMOSIS
APR + VRAM FLAP
ALGORYTHM

CAREFUL ASSESSMENT OF SYMPTOMS
↓
EARLY DIAGNOSIS
↓
ACCURATE STAGING
↓
TREATMENT
Local Recurrence

- Circumferential margin
- Distal margin
- Removal of lymph nodes
- YOUR SURGEON
FUTURE
Colon and Rectal Cancer Team

- Gastroenterologist
- Medical oncologist
- Colon and rectal surgeon
- Hepatobiliary surgeon
- Thoracic surgeon
- Plastic surgeon
- Radiation oncologist
- GI pathologist
- Interventional and Diagnostic radiologist
- Genetic counselor
- Ostomy nurses
- Nutritionist
- Clinical social worker
- Research nurses and coordinators
Goal of Cancer Care

Coordinated

Competent

Compassionate
Thank You