AJCC Staging Moments

AJCC TNM Staging 8th Edition Colon Case #1

Colon Case 4





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Colon Case # 1 Presentation of New Case

- Potential colon cancer patient
- Presentation at Cancer Conference for treatment recommendations and clinical staging



Colon Case # 1 History & Physical

 51 yr old female with family history of colon cancer presents for her first screening colonoscopy



Colon Case # 1 Diagnostic Procedure

• Procedure

 Screening colonoscopy shows pedunculated polyp in the proximal transverse colon which is removed via colonoscopic polpectomy

Pathology Report

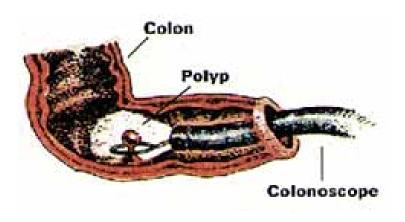
- Adenocarcinoma
- Grade 3
- Invasion into submucosa
- Stalk margins widely free, clear by 4mm



Colon Case # 1 Endoscopic Findings

Surgery

- 1.5cm pedunculated polyp at 60cm in transverse colon





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Colon Case # 1 Imaging Results

- Computerized tomography (CT) with contrast: No evidence of peritoneal or visceral metastases; nodes cannot be assessed
- Lab: CEA 5.6 (patient smokes 1ppd)



Clinical staging

 Uses information from physical examination, endoscopic findings, specimen removal or biopsy findings.

Purpose

Planning additional management



 Synopsis: pedunculated polyp with invasion into submucosa, clear margins in stalk

• What is the clinical stage?





Clinical Stage correct answer

- cT1
- cNX
- cM0
- Stage: cannot assign clinical stage based on unknown nodal category

 Based on clinical information, there is more information to estimate prognosis, but surgical treatment is indicated



- Rationale for staging choices
 - cT1 for invasion of submucosa
 - cNX since imaging cannot effectively assess nodal status
 - cM0 use clinical M with pathological staging unless there is microscopic confirmation of distant metastases



Colon Case # 1 Treatment Options

• Review treatment guidelines for this stage

• Discuss appropriate treatment plans for this patient



Colon Case #1 Presentation after Surgery

Additional surgical management recommended based on

- Polyp shows evidence of invasion of submucosa
- Surgical evaluation of mesenteric nodes is mandatory, since imagining cannot predict nodal involvement, in an otherwise healthy patient
- Presentation at Cancer Conference for treatment recommendations and pathologic staging



Colon Case #1 Surgery & Findings

• Procedure

- Laparoscopic right hemicolectomy with primary ileo-colostomy

Operative findings

- No distant mets on abdominal exploration



Colon Case #1 Pathology Results

 No additional tumor found in removed colon specimen; margins are clear

- 26 lymph nodes free of tumor
- 2 tumor deposits found in mesentery of right colon adjacent to subserosa



Colon Case # 1 Pathological Staging

Pathological staging

 Uses information from clinical staging, operative findings, and resected specimen pathology report

Purpose

- Additional precise data for estimating prognosis
- Calculating end results (survival data)



Colon Case #1 Pathological Staging

 Synopsis: patient with no residual tumor, nodes negative, 2 tumor deposits in mesentery adjacent to serosa

• What is the pathological staging?





Colon Case #1 Pathological Staging

Pathological Stage correct answer

- pT1
- pN1c
- cM0
- Stage Group IIIA
- Based on pathological stage, there is more information to estimate prognosis and adjuvant treatment is discussed
- Adjuvant chemotherapy indicated based on pathological staging
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Colon Case #1 Pathological Staging

- Rationale for staging choices
 - pT1 based on invasion into submucosa
 - pN1c based on tumor deposits found adjacent to subserosa with no other nodal metastases
 - cM0 based on absence of clinical metastases noted via imaging and at abdominal exploration



Prognostic Factors/Registry Data Collection

- Applicable to this case
 - CEA: 5.6



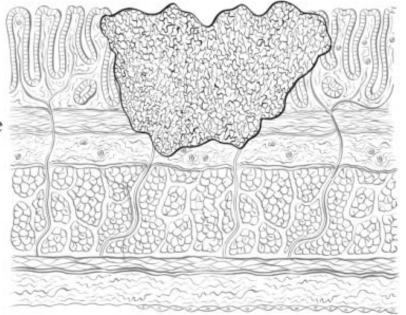
T1

Mucosa

Lamina propria Muscularis mucosae Submucosa Т1

Muscularis propria

Subserosa Serosa



T1 invades submucosa (through muscularis mucosa but not into muscularis propria)

Jessup, Goldberg, et al. Colon and Rectum. In Amin, M.B., Edge, S.B., Greene, F.L., et al. (Eds.) AJCC Cancer Staging Manual. 8th Ed., 2017

Colon Case # 1 Recap of Staging

- Summary of correct answers
 - Clinical stage cT1 cNX cM0 Stage Group unknown
 - Pathological stage pT1 pN1c cM0 Stage Group IIIA

 The staging classifications have a different purpose and therefore can be different. Do not go back and change the clinical staging based on pathological staging information.

Staging Moments Summary

- Review site-specific information if needed
- Clinical Staging
 - Based on information before treatment
 - Used to select treatment options
- Pathological Staging
 - Based on clinical data PLUS operative findings and resected specimen pathology report
 - Used to evaluate end-results (survival)