## **HST.035 Homework Assignment #6**

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## PLEASE PRINT YOUR NAME:

- 1. Which of the following statements best describe colorectal cancer (CRC) *staging* such as those proposed by Dukes? (choose two)
  - A. CRC staging is a classification based on (i) the depth of invasion of tumor into the colonic wall and (ii) the presence or absence of lymph node and distant metastases.
  - B. CRC staging is a classification based on (i) size of tumor and (ii) degree of differentiation.
  - C. Staging is clinically important because there is a strong correlation between stage at presentation and survival from CRC.
  - D. There is a strong association between the stage of CRC and age at presentation.
- 2. With regard to Hereditary Non-polyposis Colorectal Cancer (HNPCC) syndrome, all of the following statements are true EXCEPT:
  - A. CRC's associated with HNPCC demonstrate microsatellite instability.
  - B. Patients are at risk of development of cancers in colon, uterus and a variety of other organs.
  - C. Patients typically present with hundreds of colorectal adenomas.
  - D. HNPCC has a strong associations with germline mutations in DNA mismatch repair genes MLH1 and MSH2
- 3. The risk of progression from adenoma to carcinoma is related to all of the following EXCEPT:
  - A. Size of adenoma
  - B. Extent of villous architecture
  - C. Degree of dysplasia
  - D. Age of onset of adenoma
- 4. With respect to the pathogenesis of B cell lymphomas, which of the following statements are true?
  - A. The regulated genetic instability involved in class switching and somatic hypermutation (SHM) puts B cells at risk for oncogenic translocations and mutations.
  - B. Chronic B cell stimulation increases the pool of at-risk population and the probability of oncogenic events.
  - C. B cell lymphomas commonly have translocations involving the immunoglobulin gene.
  - D. All of the above.

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