

Case #1 The images associated with this case are from a moderately enlarged spleen in an individual with a WBC count greater than 150,000. The flow cytometry profile showed the population to express CD13, CD33, and CD117. Based on the morphology and flow cytometry, the best diagnosis is:

- A. Hairy Cell Leukemia
- B. CML
- C. ALL
- D. AML
- E. CLL/SLL

Case #2 A 4,000 gram spleen was removed from a man and has the histology presented for this case on the website. Special stains were performed. The cells of interest were positive for CD68 and negative for S-100, CD1a, and PAS. Based on these findings, the best diagnosis is:

- A. Whipple's disease
- B. Gaucher disease
- C. Langerhan Cell Histiocytosis
- D. Rosai-Dorfman disease
- E. Splenic Marginal Zone Lymphoma

Case #3 The images for this case come from a 60 year old man with an enlarged spleen and a hilar mass. Based on the information, the best diagnosis is:

- A. Melanoma
- B. Large Cell Lymphoma
- C. Anaplastic Large Cell Lymphoma
- D. Hodgkin's Lymphoma
- E. Large Cell Neuroendocrine Carcinoma

Case #4 The images for this case come from an elderly female with a history of an autoimmune disorder. The spleen was 1,500 grams and noted to have "tumor nodules". Based on the findings, the best diagnosis is:

- A. Hemangioma
- B. Littoral Cell Angioma
- C. Kaposi's Sarcoma
- D. Angiosarcoma
- E. Leiomyosarcoma

Case #5 Images for this case come from a spleen in a 60 year old male with a ruptured spleen. Special stains showed positivity for CD20, bcl-1, and CD43. Based on these findings, the best diagnosis is:

- A. CLL/SLL
- B. Mantle Cell Lymphoma
- C. Marginal Zone Lymphoma
- D. Diffuse Large B-Cell Lymphoma
- E. Follicular Lymphoma

Case #6 These images are of a 1,000 gram spleen from a patient with multiple episodes of hemolysis resistant to steroids. Based on the images and the patient's history, the best diagnosis is:

- A. Congestion secondary to AIHA
- B. Congestion secondary to increased venous pressure
- C. Felty syndrome
- D. Kasabach-Merritt phenomenon

Case #7 These images are from the spleen of a 30 y/o pregnant patient. The spleen weighed 2,000 grams. Stains for AFB and fungi were negative. The best diagnosis is:

- A. Amyloidosis
- B. Leishmaniasis
- C. TB
- D. Sarcoidosis
- E. Necrotizing granulomatous splenitis

Case #8 The images for this case are from a 1,000 gram spleen from a 75 year old man. Special stains were positive for CD45 and CD20, but negative for CD3 and CD15. Based on these findings, the best diagnosis is:

- A. Immunoblastic DLBCL
- B. Anaplastic DLBCL
- C. Melanoma
- D. Hodgkin's Lymphoma
- E. Anaplastic Large Cell Lymphoma

**Notes for question set:<sup>1</sup>**

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<sup>1</sup> PathMD strives for the highest quality and accuracy. However, the *PathMD: Board Review Letter* is for review purposes and not meant for clinical decision making. It should not be used in place of review of primary reference texts and the current medical literature. If inaccuracies are identified, please notify us so that a correction may be published. (info@PathMD.com)