

National Board of Examinations

Question Paper Name : DrNB CLINICAL HAEMATOLOGY Paper3
Subject Name : DrNB CLINICAL HAEMATOLOGY Paper3
Duration : 180
Total Marks : 100
Display Marks: No

Maximum Instruction Time : 0

Question Number : 1 Question Id : 32718741265 Consider As Subjective : Yes

Please write your answers in the answer booklet within the allotted pages as follows:-

Question Number	Answer to be attempted within	Question Number	Answer to be attempted within
Q. 1	Page 1-5	Q. 6	Page 26-30
Q. 2	Page 6-10	Q. 7	Page 31-35
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Q. 4	Page 16-20	Q. 9	Page 41-45
Q. 5	Page 21-25	Q. 10	Page 46-50

1. A 65 year old elderly lady presents with isolated anemia, needing occasional blood transfusion. Nutritional work up for etiology of anemia is negative. She has no other co-morbidity. Her RFT, LFT are normal.

- What additional tests will you order to further evaluate and confirm the diagnosis? [3]
- How will you score her, if the report shows normal cytogenetics, isolated anemia, SF3B1 mutation and no blasts? [3]
- What is the best upfront regimen according to randomized control trials? [4]

Question Number : 2 Question Id : 32718741266 Consider As Subjective : Yes

Prevention of infections in elderly patients or those who are immune-compromised because of disease are important.

- What are the recommendations for vaccinations in patients with CLL, multiple myeloma and other CLPD before initiation of therapy? [3]

- b) What are the consequences of herpes zoster in this population? [3]
- c) Discuss pre-splenectomy vaccinations. [4]

Question Number : 3 Question Id : 32718741267 Consider As Subjective : Yes

Patient with autoimmune hemolytic anemia who has been steroid dependent and has failed Rituximab therapy after 2 months.

- a) What investigations are needed? [3]
- b) What are newer options for managing such patients? [3]
- c) Discuss the role of splenectomy in refractory AIHA. [4]

Question Number : 4 Question Id : 32718741268 Consider As Subjective : Yes

Patient was labelled as immune thrombocytopenia, now his son also has low platelets, the detailed history reveals other family members too.

- a) What is inherited thrombocytopenia? [3]
- b) What are some common associations and when should you investigate? [3]
- c) What are some mutations found in patients with these disorders? [4]

Question Number : 5 Question Id : 32718741269 Consider As Subjective : Yes

A 55-year-old patient with acute myeloid leukemia and FLT3 mutation received chemotherapy and midostaurin. He underwent MSD allogeneic bone marrow transplantation from his only sibling. He has relapsed within 3 months.

- a) What are the options for therapy of this patient? [3]
- b) Discuss the role and challenges for a second transplant in this patient. [4]
- c) Discuss the current status of CAR-T in AML. [3]

Question Number : 6 Question Id : 32718741270 Consider As Subjective : Yes

Hodgkin's lymphoma therapy has seen many advances in treatment options.

- a) Discuss BreCADD therapy. [3]
- b) Compare and contrast it with BEACOPP. [4]
- c) Discuss the status of PDL-1 inhibitors in HL. [3]

Question Number : 7 Question Id : 32718741271 Consider As Subjective : Yes

- a) Discuss the classification of histiocytic disorders. [3]
- b) Discuss clinical presentations of Langerhans cell histiocytosis in adults. [3]
- c) What are the various therapeutic options for LCH therapy in adults? [4]

Question Number : 8 Question Id : 32718741272 Consider As Subjective : Yes

A 44-year old lady during routine evaluation is found to have a platelet count of 9.5 lakhs/ μ L.

- a) Discuss approach to thrombocytosis. [3]
- b) Discuss bone marrow morphology differentiation between ET and cellular phase MF. [4]
- c) Discuss scoring systems in ET. [3]

Question Number : 9 Question Id : 32718741273 Consider As Subjective : Yes

Many patients are on direct oral anti-coagulants (DOACs) and many such individuals may require emergency surgery. Describe monitoring, when to stop drug and reversal, if any, for patients on:

- a) Apixaban. [3]
- b) Dabigatran. [3]
- c) Warfarin. [4]

Question Number : 10 Question Id : 32718741274 Consider As Subjective : Yes

Hereditary hemorrhagic telangiectasia (HHT):

- a) Presentation. [3]
- b) Diagnosis. [3]
- c) What agent has been repurposed from multiple myeloma and used for the effective therapy of HHT? [4]