

# FRCPath Part 2 Haematology Sample Questions

## **Morphology Short Answer Question**

You are provided with a Quality Assurance Report from a NEQAS exercise on a laboratory's automated cell counter.

Briefly interpret the results.

What action is required?

### **Morphology Long Case**

A 51 year old farmer develops a flu-like illness and a routine FBC shows a Hb of 12.0 g/dl, a WBC of  $14.0 \times 10^9$ /l and a lymphocyte count of  $6.5 \times 10^9$ /l. Six weeks later, the flu-like symptoms have improved but the FBC is unchanged.

a) You are provided with a blood film (1A). Report the film.

The patient remains well for 7 years and is then referred with night sweats and splenomegaly.

 b) You are provided with a bone marrow aspirate (1C) and a trephine biopsy (1D). Report the aspirate and the trephine. Recommend 2 further investigations. Provide an initial management plan.

The patient is now refractory to initial therapy.

- c) You are provided with a blood film (1D), an immunophenotype report (1E) and a karyotype (1F).
- d) Report the blood film. Report the immunophenotype and karyotype. What 2 further investigations do you require? Outline the therapeutic measures you recommend.



#### **Transfusion Medicine**

A 50 year old group A RhD positive man with acute myeloblastic leukaemia is receiving consolidation therapy. He has had febrile neutropenia unresponsive to first-line antibiotics for 48 hours and has had poor platelet increments for five days. During this period his platelet count has remained below 10 x 10<sup>9</sup>/l.

- a) List the three most likely causes of the poor response to platelet transfusion in this patient?
- b) What immediate steps would you take to investigate this patient?
- c) The patient develops severe epistaxis. How would you manage the immediate platelet supportive care?

#### Coagulation

A 44 year old man with congenital heart disease has been anticoagulated with Warfarin following a cerebral infarct. His General Practitioner is concerned about his management and feels that he may have had a further stroke. He has obtained the following results:

WBC 7.6 x 10<sup>9</sup>/l; Hb 21.2 g/dl; Hct 0.76; Plt 188 x 10<sup>9</sup>/l.

PT 38 s (9-11); APTT 85 s (26-36) Fibrinogen 3.12 g/l (1.8-3.6); INR 3.7

- a) Explain the results in the context of the clinical case.
- b) What further coagulation tests would you undertake to confirm your interpretation of the situation?
- c) What further management of this patient do you recommend?



#### **Viva Questions**

Field: Haematological disorders in pregnancy

Topic: Thrombocytopenia in pregnancy.

## **Introductory Question**

What are the causes of a platelet count of 100 in a pregnant woman at 37 weeks?

- This question sets the topic on which questions will be asked
- It should be simple or factual: well below the level of competency
- It is important that the candidate answers this successfully to settle him/her for the competence question to follow

#### **Default Question 1**

Is gestational thrombocytopaenia a frequent cause of platelets of 100 in pregnancy?

- used if the candidate does not understand or cannot answer the first core question
- should be an even simpler question which may be a 'closed question' requiring a yes or no answer

The candidate must answer this phase successfully to achieve a pass mark.

#### Near-Competence Question

What is the significance of a platelet count of 40 in a pregnant woman at 37 weeks?

- not used if time is short, the examiner may move directly to the Competence Question
- brings the candidate close to competence
- more complex; just below competence
- a problem solving question



## **Default Question 2**

What level of thrombocytopenia would you regard as significant in a woman at 37 weeks gestation and what are the possible consequences?

• for the nervous candidate to lead him/her towards the final question

If used, the candidate must answer this second phase successfully to pass.

## Competence Question

A GP informs you that he has a patient at 37 weeks with a platelet count of 40 who is scheduled for home delivery, what further investigation and management do you recommend?

candidates must safely manage this problem to be 'competent'