

IACC 2023 Case-based discussion (CBD) scenario

Specialty:	Haematology and Transfusion Science
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CBD Scenario

CBD Scenario Title	FBC Review, action and guidance for GP									
CBD Scenario Aim	The candidate should recommend appropriate tests and possible diagnosis to GP.									
CBD Focus (please provide the codes of the module(s) this scenario addresses)	SLS 102									
GSP Domains covered (enter X to indicate all that apply)	GSP 1	X	GSP 2	X	GSP 3	X	GSP 4		GSP 5	
CBD Scenario description	Discuss possible diagnosis, tests to confirm and clinical management of a 19 year old male patient who presents to his GP with a sore throat and mild lymphocytosis.									
CBD Scenario model answer/ assessor guidance Detailed guidance that will be available for the assessors. Include guidance on what kinds of behaviours, actions, comments should secure a pass. What should the assessor expect to see? Assessors will be asked to plan questions in advance including links to trainee's IACC submission.	<p>Model Answer:</p> <p>Expected FBC:</p> <ul style="list-style-type: none"> • Haemoglobin and platelet count – normal so acute leukaemia unlikely. • No blast cells • Mildly raised lymphocytes <p>Possible diagnosis:</p> <ul style="list-style-type: none"> • Infectious mononucleosis • Reactive/viral infection • Leukaemia <p>Tests to confirm</p> <ul style="list-style-type: none"> • Blood film with expected atypical and/or viral lymphocytes present 									

	<ul style="list-style-type: none"> • Monospot – POSITIVE • Principle of the monospot test – a form of heterophile antibody test (replaces Paul-Bunnell test). • The specificity of the test is high, virtually 100% so a positive test is useful in confirming Epstein-Barr virus (EBV). • Rarely a false positive test may result from toxoplasmosis, lymphoma and leukaemia. • The sensitivity is only moderate so a negative rest DOES NOT exclude EBV. This lack of sensitivity is especially the case in young children, many of whom will not produce heterophile antibody at any change and this have a false negative test result. <p>There is an association of EBV with haematological malignancy: Burkett's and Hodgkins's Lymphoma.</p> <p>Management:</p> <ul style="list-style-type: none"> • Phone call to requesting clinician. Assist with differential diagnosis and immediate medical advice. <p>Treatment - self-limiting</p>
<p>Trainee instructions</p> <p>Please include any specific information to be provided to the trainee as part of the CBD scenario</p>	

Criteria being assessed by this CBD scenario

Aspect	Please indicate if this criterion is being assessed
1. Understands the clinical context of the scenario, including priority setting and testing strategies	X
2. Understands scientific principles of scenario	X
3. Can discuss the relevant procedures involved in the scenario and associated health and safety issues	
4. Understands and applies the appropriate test validation, IQC, EQA, relevant professional/clinical guidelines	
5. Understands and applies associated IT/bioinformatics and other appropriate resources	

6. Is able to interpret and report patient results and provide appropriate clinical advice	
7. Can discuss the significance of patient results within the clinical context of the referral	X
8. Understands the ethical, legal and social implications of the scenario	
9. Is aware of the importance of audit and can use this tool effectively	
10. Output meets accepted laboratory/professional standards	
11. Demonstrates awareness of the limits of responsibility and when to seek advice	
12. Consideration of patient/professionalism	
13. Overall ability to perform	X