IACC 2023 Case-based discussion (CBD) scenario

Specialty:	Ophthalmic and Vision Science

CBD Scenario

<table>
<tr>
<td>CBD Scenario Title</td>
<td colspan="3">Problem solving in visual electrophysiology</td>
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<td>CBD Scenario Aim</td>
<td colspan="3">To determine the ability of the trainee to technically troubleshoot an atypical Pattern Electroretinogram (PERG).</td>
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<td>CBD Focus
(please provide the codes of the module(s) this scenario addresses)</td>
<td>Core module (professional practice)
S-C1</td>
<td>Essential module (Introduction to Electrophysiology)
S-OV-S1</td>
<td>Essential module (Advanced Electrophysiology)
S-OV-S3</td>
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<tr>
<td>GSP Domains covered
(enter X to indicate all that apply)</td>
<td colspan="3">

GSP 1	X	GSP 2	X	GSP 3		GSP 4		GSP 5	X

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<tr>
<td>CBD Scenario description</td>
<td colspan="3">A patient unexpectedly produces an atypically flat Pattern Electroretinogram (PERG), from one eye as you are recording with both eyes open. Can you describe the steps you would take to investigate this observation before you attribute it to pathology?</td>
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<td>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.</td>
<td colspan="3"><u>Pass Indicators</u> – The trainee should demonstrate one or more of the following:

Demonstrate a systematic approach to describing the way in which they check this finding.

Demonstrate an alertness in the moment to exclude artefact and physiological reasons for findings before attributing to pathology.

Check reference and active electrodes are plugged into headbox correctly

Check electrode position with respect to corneal apex

Facial or eye asymmetry i.e., proptosis

Electrode failure and replacement

Consider</td>
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	• pupil dilation/anisocoria
	• cycloplegia
	• refractive correction + viewing distance in trial frame,
	• monocular recording to straighten strabismus
	• monitor fixation and patient compliance
	• reduced contrast due to media clarity/cornea/lens/vitreous/ptosis
	Setting of display scaling
	The trainee would demonstrate excellent understanding if they included a maculopathy as a cause, after excluding all potential artefacts.
	Fail Indicators:
	Not checking the electrode connections at the headbox and on the patient
	Not understanding the implication of poor contrast on the response
	Not checking refraction
	Not checking working order of electrode
Trainee instructions Please include any specific information to be provided to the trainee as part of the CBD scenario	

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	3
2. Understands scientific principles of scenario	4
3. Can discuss the relevant procedures involved in the scenario and associated health and safety issues	3
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	
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	4
11. Demonstrates awareness of the limits of responsibility and when to seek advice	
12. Consideration of patient/professionalism	3
13. Overall ability to perform	