

## IACC 2023 Case-based discussion (CBD) scenario

<b>Specialty:</b>	<b>Embryology</b>
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### CBD Scenario

<b>CBD Scenario Title</b>	Managing discovery of infection in embryo culture dish on day of embryo transfer.										
<b>CBD Scenario Aim</b>	To assess the candidate's ability to troubleshoot and to report incidents.										
<b>CBD Focus</b> (please provide the codes of the module(s) this scenario addresses)	SLS324			SLS327			?				
<b>GSP Domains covered</b> (enter X to indicate all that apply)	<b>GSP 1</b>	x	<b>GSP 2</b>	x	<b>GSP 3</b>	x	<b>GSP 4</b>			<b>GSP 5</b>	
<b>CBD Scenario description</b>	When performing embryo grading on Day 5, some abnormal growth is noted in the embryo culture dish. Patient is for fresh, day 5 embryo transfer. What would your immediate actions be? What would your follow up actions be following the event?										
<b>CBD Scenario model answer/ assessor guidance</b>  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><b>Pass criteria</b></p> <p>Immediate action:</p> <ul style="list-style-type: none"> <li>• Inform a senior</li> <li>• Wash embryos thoroughly and transfer embryos to a new, pre-equilibrated dish</li> <li>• Retain infected culture dish and send for testing</li> <li>• Identify if embryo development affected</li> <li>• Observe other dishes for signs of infection and isolate cases affected, is there a common denominator (set up practitioner, fertilisation check embryologist, equipment used such as faulty hood with compromised airflow or unclean pipette etc.)</li> </ul>										

	<ul style="list-style-type: none"> <li>• Decide on an appropriate plan of action, for example discussing with patient (Duty of Candour), recommend cancelling fresh ET until results returned and freezing embryos</li> <li>• Consider appropriate storage of infected samples</li> <li>• Offer counselling and support to patient</li> <li>• Retain semen sample/request repeat sample to see if infection present, consider patient swabs</li> <li>• Perform risk assessment of transferring embryo with unknown infection, discuss with wider MDT</li> <li>• Trainee could identify possible sources of infection patient or laboratory derived. Bacterial/fungal in appearance?</li> </ul> <p>Post incident:</p> <ul style="list-style-type: none"> <li>• Review aseptic techniques and laboratory PPE</li> <li>• Review cleaning SOPs and schedule</li> <li>• Consider retraining in aseptic techniques</li> <li>• Review environmental monitoring and air quality results</li> <li>• Review filter changes and air pressure in the lab</li> <li>• Datix/HFEA incident report</li> <li>• Perform a root cause analysis</li> <li>• Analyse results from patient swabs if performed</li> <li>• Traceability of media, contact manufacturer find out if other bottles from same batch affected</li> </ul> <p><b>Fail criteria</b></p> <ul style="list-style-type: none"> <li>• Recommendation of fresh embryo transfer</li> <li>• No mention of reporting incident locally and to the HFEA</li> </ul>
<p><b>Trainee instructions</b></p> <p>Please include any specific information to be provided to the trainee as part of the CBD scenario</p>	<p>Not required</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	

3. Can discuss the relevant procedures involved in the scenario and associated health and safety issues	x
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	x
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	x
12. Consideration of patient/professionalism	
13. Overall ability to perform	x