

Assisted Reproductive Technologies II

Module Information

2022.01, Approved

Summary Information

Module Code	7504CEBMOL
Formal Module Title	Assisted Reproductive Technologies II
Owning School	Pharmacy & Biomolecular Sciences
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
CARE Fertility

Learning Methods

Learning Method Type	Hours
Lecture	20
Off Site	6
Practical	10
Workshop	4

Module Offering(s)

Display Name	Location	Start Month	Duration Number	Duration Unit
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JAN-PAR	PAR	January	12 Weeks
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Aims and Outcomes

Aims	The module will provide students with increasing understanding of infertility and assisted reproductive technologies (ART) with more emphasis on clinical aspects than module ART I and a focus on drug regimens and clinical management. It will also provide a platform for gaining an advanced understanding of the effective running of the IVF , such as electronic witnessing, equipment monitoring and traceability. This module will cover adjuvant treatment services and the critical assessment of their value. Through the assessments the module will further hone the writing and presentation skills of the students and their ability to assimilate and critique scientific literature at a postgraduate level.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Demonstrate a systematic and in-depth understanding of key issues surrounding infertility.
MLO2	2	Display an advanced understanding of the clinical/medical aspects of ART.
MLO3	3	Indicate a comprehensive understanding and familiarity of routine laboratory techniques in ART applicable to human reproduction and development.
MLO4	4	Demonstrate the ability to apply critical thinking when presented with a clinical case study.

Module Content

Outline Syllabus	<ul style="list-style-type: none"> • Drug regimens and ovarian stimulation protocols • Ultrasonography applications in ART: ovarian morphology, pathology, follicular tracking and aspiration (the clinical side) • Embryo transfer • Quality control in the IVF laboratory • Witnessing and traceability • Assisted conception: Skills, technologies and management • Understanding of complex clinical concepts and controversial issues involved in ART: • Number of embryos to transfer • Long term risks of treatment • Social egg freezing • Welfare of the IVF child • Biomarkers of gamete and embryo quality • Reproductive tourism • Critical evaluation of supplementary treatments (add-on treatments) • Continuation of allocated patient being followed through a treatment cycle to consider all the different aspects of their care (assessment for this will be part of the portfolio).
Module Overview	
Additional Information	This module, together with the linked module Assisted Reproductive Technologies I, will provide students with an understanding of the clinical management, protocol preparation and treatment of infertility and the more complex issues, risks and decision making required within ART. All lectures and practicals will be covered by experts in their respective fields who will develop knowledge relating to the basic principles of the techniques and how these techniques are employed throughout clinical embryology, both in the clinical and academic setting. Assessment of the literature will also allow students to develop and demonstrate a deep understanding of specific principles and applications of ART.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Portfolio	Portfolio	50	0	MLO1, MLO2, MLO3, MLO4

Exam	Exam	50	3	MLO1, MLO2, MLO3, MLO4
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Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Giles Watts	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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