The aim of this module is to introduce the student to the concept of maternal and infant care. The specific goals of this module are to equip the student with the skills and knowledge necessary to effectively care for a woman and her baby from the preconceptual period across the continuum to the postpartum period. This module will focus on the anatomy & physiology concerning the female reproductive tract, embryology, care and management in the first, second and third stage of normal labour and Postpartum mood disorders. Physiological adaptation of the newborn is also explored along with the care of the baby during and after birth inclusive of infant feeding. This module is also designed to assist the student to identify and manage obstetric emergencies.

What will I learn?

Learning Outcomes:
On completion the candidate will be able to:
* Describe the anatomy and physiology related to the female reproductive system.
* Discuss pre-conceptual care
* List the signs & symptoms of pregnancy.
* Recognise and manage maternal antenatal complications.
* Discuss the care and management of a woman in the first, second and third stage of labour.
* Describe the care of the woman and her infant in the postpartum period.
* Assess, plan and implement care of the newborn or sick baby.
* Describe effective teaching of infant feeding methods.
* Identify deviation from the normal in childbirth and take appropriate and corrective actions that may include referral and the need to escalate care.

Indicative Module Content:

Unit One
Overview of Module
Terms & Abbreviations used in Midwifery & Obstetric Practice
History & philosophy of Midwifery
Definition & Role of the Midwife/Obstetric Nurse

Unit Two
The Female Reproductive System
The Menstrual Cycle & menstrual disorders
Embryology & the Fetal- Placental Unit
Contraception & STDS

Unit Three
Pre-conceptual care - (Nutrition, Exercise)
Signs & Symptoms of Pregnancy
Diagnosis of pregnancy & calculating the EDD
Physiological changes in pregnancy & hyperemesis
Antenatal care, assessment, screening
Prenatal testing: Rh incompatibility, Amniocentesis, CVS, ultrasound, Biophysical profile
Abdominal palpation/ Leopold’s Manoeuvre
Antenatal Abdominal Palpation (Skills)
  - Auscultation using a Pinard Stethoscope
  - Auscultation using a Doptone
  - Application of Cardiotocograph (CTG)/ Nonstress test

First Stage of Labour
Normal Labour
Pain Management: non pharmacological and pharmacological
Second stage of labour- Fetal assessment
Normal Labour
  - Electronic fetal heart rate monitoring & interpretation
  - Intermittent Auscultation
Third Stage of labour
Normal Labour
Assessment of the perineum post delivery
Examining the placenta and membranes, Estimation of blood loss

Postpartum haemorrhage
Postnatal examination (skills)
Perinatal loss
Physiology, care and management of the puerperium
Unit Four
Examination of the newborn including (Apgars, height, weight, head circ & length)
Vital signs of the newborn (Heart rate, temp, O2 Sat, resp)
Biological adaptations: initiation of respirations, thermoregulation, cardiovascular changes, elimination, nutrition, hypoglycaemia, jaundice, & newborn screening
Infant feeding: Breastfeeding & Formula feeding
Positioning, attachment and lactogenesis
Preterm infant: Respiratory distress syndrome, Necrotizing enter colitis
Large for gestational age
Small for gestational age
Threats to maternal newborn outcomes, TORCH screen
Unit Five
Preterm labour, IUGR, Chromosomal abnormalities
Postpartum mood disorders
Perinatal loss
Ectopic pregnancy, Tubal pregnancy, Infertility
Bleeding in pregnancy, Miscarriage, incompetent cervix
APH- placenta previa
APH- placental abruption
Induction of Labour
Addictions, HIV, Gestational diabetes
Pre-eclampsia & Hypertension in pregnancy
Preterm labour and premature rupture of membranes
Cord prolapse & Caesarean section
Menopause, Osteoporosis

How will I learn?

<table>
<thead>
<tr>
<th>Student Effort Type</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures</td>
<td>37</td>
</tr>
<tr>
<td>Total</td>
<td>37</td>
</tr>
</tbody>
</table>

Am I eligible to take this module?

Requirements, Exclusions and Recommendations

Learning Requirements:
Students considering taking this module as an elective should be in at least Stage 3 of a Nursing, Medicine or Science related subject. Please contact the module co-ordinator for further information.

Module Requisites and Incompatibles
Not applicable to this module.

How will I be assessed?

<table>
<thead>
<tr>
<th>Description</th>
<th>Timing</th>
<th>Open Book Exam</th>
<th>Component Scale</th>
<th>Must Pass Component</th>
<th>% of Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project: A 4 Poster with audio Topic selection provided Review of the literature 500 words Submission via Brightspace</td>
<td>Coursework (End of Trimester)</td>
<td>n/a</td>
<td>Graded</td>
<td>No</td>
<td>100</td>
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**Carry forward of passed components**

No.

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### What happens if I fail?

<table>
<thead>
<tr>
<th>Remediation Type</th>
<th>Remediation Timing</th>
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<tbody>
<tr>
<td>Repeat</td>
<td>Within Two Trimesters</td>
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</table>

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### Assessment feedback

* Online automated feedback

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### How will my Feedback be Delivered?

The final exam consists of 70 multiple choice questions. Students are prepared for multiple choice style questions regularly during the module.

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### Reading List

- HSE (2014) Term Infant with Jaundice on Postnatal Ward
- http://www.hse.ie/eng/about/Who/obstetricians/gynaecologists/Placenta+Previa+and+Placenta+Accreta:+Diagnosis+and+Management.+.Green-top+Guideline+No.+27a.+BJOG+2018
- National Institute of Clinical Excellence (2013) Postnatal Care Guideline (updated)- CG37
- Nursing and Midwifery Board of Ireland (2014) Code of Professional Conduct and Ethics for Registered Nurses and Midwives. Dublin: Nursing and Midwifery Board of Ireland
- Nursing and Midwifery Board of Ireland (2015) Practice Standards for Midwives. Dublin: Nursing and Midwifery Board of Ireland.
pp105-109


Associated Staff

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Aoife Claire MacCormac</td>
<td>Lecturer / Co-Lecturer</td>
</tr>
<tr>
<td>Ms Marie Meskell</td>
<td>Lecturer / Co-Lecturer</td>
</tr>
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When is this module offered?

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subject: Maternal and Foetal wellbeing (NMHS32340)</th>
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</thead>
<tbody>
<tr>
<td>Autumn</td>
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</tr>
<tr>
<td>Lecture extra session Offering 1</td>
<td>Week(s) - 12</td>
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<td>Week(s) - 1, 3, 4</td>
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<tr>
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<tr>
<td>Laboratory Offering 1</td>
<td>Week(s) - 6</td>
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<tr>
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<td>Week(s) - 2, 3, 4, 5, 7, 8, 9, 10, 11</td>
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<tr>
<td>Practical Offering 1</td>
<td>Week(s) - 6</td>
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<tr>
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<td>Week(s) - 1</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td></td>
</tr>
<tr>
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<td>Week(s) - 20, 21, 22, 24, 25</td>
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<tr>
<td>Lecture Offering 1</td>
<td>Week(s) - 23, 26</td>
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<tr>
<td>Lecture Offering 1</td>
<td>Week(s) - 29, 30, 31, 32</td>
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<tr>
<td>Lecture extra session Offering 1</td>
<td>Week(s) - 33</td>
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<td>Week(s) - 25, 26</td>
</tr>
<tr>
<td>Lecture Offering 1</td>
<td>Week(s) - 20, 21, 23, 24, 29, 30, 31, 32, 33</td>
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</table>
<dt>Autumn and Spring (separate)</dt>
<dt>Module Coordinator</dt>
<dd>Mrs Denise Mc Guinness</dd>
<dt>Mode of Delivery</dt>
<dd>Face-to-Face</dd>
<dt>Internship Module</dt>
<dd>No</dd>
<dt>Clinical/ Fieldwork/ Placement</dt>
<dd>No</dd>
<dt>How will I be graded</dt>
<dd>Letter grades</dd>