NU7541: Nursing Care & Management of Critically ill Patient with Multi system Dysfunction

Module coordinator: Gobnait Byrne (TCD) and Avril Lowry (SJH)

Module Lecturers: Educational facilitators, clinical facilitators, clinical nursing staff, multidisciplinary guest lecturers

Hours and ECTS credits

<table>
<thead>
<tr>
<th>Assessment Student Effort</th>
<th>Direct Contact</th>
<th>Specified Activities</th>
<th>Self-Directed Learning</th>
<th>Direct Contact: Supervision</th>
<th>Total Hours</th>
<th>ECTS credits</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>50</td>
<td>30</td>
<td>n/a</td>
<td>110</td>
<td>10</td>
<td>200/250</td>
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Rationale and Aims

Intensive care nursing must anticipate and respond to societal and patient needs and facilitate the growth and diversity of professional practice. The postgraduate diploma in intensive care nursing will be developed to meet the needs in society, the nursing service in Ireland and to fulfil the An Bord Altranais and the University of Dublin Trinity College requirements and standards.

This module will enable the student to plan implement and evaluate quality biopsychosocial care for the critically ill patient requiring cardiac, respiratory and multisystem support.

Module Content

Respiratory
- Advanced applied respiratory/ chest physiology/management/nursing/interpretation/airway management
- Ventilation support (principles-waveforms-interpretation-modes-settings)/tracheostomy
- Acute respiratory failure/Adult Respiratory Distress Syndrome (ARDS)/chest trauma/Under water seal drain (UWS). Thoracic surgery/neoplasm/toxic/inhalation poisoning /Nursing/psychosocial support of patient with respiratory conditions i.e. Pulmonary Embolus/Ventilator Associated Pneumonia (VAP), TB/ Asthma/ COPD/nitric oxide/ proning/innovative treatments.
- HFOV / NOVA care
- Physiotherapy/manual hyperinflation
- Clinical innovations

Multi system dysfunction
- Spinal Trauma/ injuries/management
- Multiple Trauma
- Shock/Sepsis/rhythdo/ Anaphalyxis
- Endocrinology/ DKA/ Pancreatitis/ Thyroid Crisis
- Obstetric Emergencies
- Liver failure and Management
- Renal Failure and Management
- GI emergencies
- Therapeutic cooling
- Cardiac Surgery

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Learning Outcomes
On successful completion of this module, students should be able to:

- Identify & critically evaluate the current research in order to promote evidenced based care for the critically ill patient with cardiac, respiratory and multi-system dysfunction, incorporating quality, safety and accountability into all aspects of care.
- Select and implement in-depth specialist knowledge for nursing care/innovative treatments for the critically ill patient with cardiac, respiratory and multi-system dysfunction.
- Provide appropriate nursing/psychosocial/pharmacological support mechanisms for the critically ill patient with cardiac, respiratory and multi-system dysfunction.
- Maintain effective collaboration with the multidisciplinary team to care for the critically ill patient with cardiac, respiratory and multi-system dysfunction.
- Evaluate information technology, sources of information and innovative treatments that support the management of the critically ill patient with cardiac, respiratory and multi-system dysfunction.

Methods of Teaching and Student Learning
Group work, lectures, guest speakers, guided discussion, practical demonstrations, self-directed learning

Methods of Assessment

<table>
<thead>
<tr>
<th>Examination (3hrs)</th>
<th>Weighting</th>
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<tbody>
<tr>
<td>Students must answer 3 questions out of 4.</td>
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<tr>
<td>One question from Section A of the Paper</td>
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<tr>
<td>One question from Section B of the Paper</td>
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<tr>
<td>Student can answer the third question from either Section A or Section B</td>
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<tr>
<td>100%</td>
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Indicative Resources – more detailed lists may be provided by lecturers


