NU7532: Advanced Nursing Management of a Patient with Electro-physiological 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>
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<tbody>
<tr>
<td>50</td>
<td>30</td>
<td>ACLS 20 hrs</td>
<td>90</td>
<td>10</td>
<td>200</td>
<td>10</td>
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Rationale and Aims

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

This module will enable the student to develop the knowledge and skills of scientific and psychosocial principles associated with nursing care of a patient with electrophysiological dysfunction.

Module Content

- Advanced applied cardiac electrophysiology
- Advances in knowledge of arrhythmia recognition
- Applied Electrocardiogram (ECG) assessment & interpretation/ECG monitoring
- Cardioversion /Pacemakers - biventricular / temporary / permanent / Internal Cardioverting Defibrillators (ICD’s)
- Electrophysiological Studies (EPS)-right & left heart studies
- Axis Deviation
- Pacing/ICD/CRTD
- Applied pharmacology/ antiarrythmias, digoxin
- Psychosocial issues return to work/leisure/exercise/stress relief/lifestyle options/physical/spiritual/family/friends/significant others/social work

Learning Outcomes

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

- Perform a comprehensive assessment of a cardiovascular patient requiring support, using an appropriate framework.
- Participate in and maintain therapeutic and professional relationships in obtaining a comprehensive patient assessment, incorporating quality, safety and accountability into all aspects of care.
- Critically analyse the assessment tools and data obtained from the use of technology in collaboration with the multidisciplinary team in order to meet the holistic needs of the cardiovascular patient.

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• Describe advanced knowledge of cardiovascular pathophysiology and electrophysiology associated with the cardiovascular patient.
• Formulate and document a nursing plan of care for this patient group making use of evidence based practice / research.
• Interpret & critically examine assessment results and data using appropriate supportive research to determine normal values, underlying pathophysiology for a particular gender, age group / other.
• Identify the clinical significance and possible nursing / psychosocial implications of assessment data and demonstrate appropriate nursing care & documentation following analysis of assessment data.
• Participate in informed debate concerning the use of information technology and sources of information that support the assessment and management process of this patient group.

Methods of Teaching and Student Learning

Group work, lecture, guest speakers, guided discussion, practical demonstrations, self-directed learning

Methods of Assessment

| Written Assignment - Nursing Care Study (3,000 words) | 100% |
| Assignment: Each student will undertake a critical discussion of the management of a selected patient with a cardiac disorder utilizing a systematic approach to care based on the best available evidence. | 70% |
| Presentation: Each student will present a critical appraisal of the literature related to one problem area identified within the context of the nursing care study. | 30% |

Indicative Resources – more detailed lists may be provided by lecturers


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