Orthopaedic Nursing – 6KNIA310

Level: 6
Credits: 30

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This handbook must be read in conjunction with module information provided on KEATS, the King’s E-Learning And Teaching Service. You will be given access to KEATS on enrolment. Important information relating to assessment and related regulations can be found in the Undergraduate Programme Handbook, available on KEATS and via the Student Services Centre.

This handbook can also be provided in alternative formats (such as large print) upon request to asc@kcl.ac.uk.
**Contents**

Module overview and aim ................................................................. 4
Learning outcomes ................................................................. 4
Clinical Practice ............................................................................. 4
Teaching arrangements ................................................................... 4
Submitting coursework ................................................................... 5
Assessment criteria ........................................................................ 5
Formative assessment ..................................................................... 5
Summative assessment ................................................................... 6
Results and resubmissions for coursework .................................... 7

Week 1 .......................................................................................... 9
Introduction to the Module and the Scope of Orthopaedic Practice/
Assessment Process ................................................................. 9
Musculoskeletal Assessment .......................................................... 9

Week 2 .......................................................................................... 10
Terminology in Orthopaedic Care .................................................. 10
Classification of Synovial Joint Disease ........................................... 10
Osteoarthritis ................................................................................ 10
Gait and Movement ........................................................................ 10

Week 3 .......................................................................................... 12
Assessment of the Upper Limb ...................................................... 12
Assessment of the Lower Limb ...................................................... 12
E-Learning — DVT/PE .................................................................... 12

Week 4 .......................................................................................... 13
Introduction to Trauma: Classification of Fractures and Principles of Treatment .13
Open Fractures and External fixators .............................................. 13
Complications - Fat Embolism and Compartment Syndrome ........... 13
E-Learning — Neurological Examination ........................................ 13

Week 5 .......................................................................................... 14
Care of Patients with Non-bony Injuries ......................................... 14
Exercise and Mobility Aids ........................................................... 14
Spinal Injuries .............................................................................. 14
E-learning — Rheumatoid Arthritis and Osteoporosis .................... 15

Week 6 .......................................................................................... 15
DVT/PE Seminar .......................................................................... 15
Non-surgical Care in Orthopaedic Conditions/Trauma — Pain ......... 15
Week 7

Diagnostic Imaging in Orthopaedic Care
Musculoskeletal Cancers
Hip Anatomy/Classification of Hip Fractures
Femoral Neck Fractures
E-learning — Orthopaedic Infections

Week 8

Rheumatoid Arthritis Seminar
Spinal Conditions
Therapeutic Immobilisation
Module evaluation

Action from previous evaluations
Timetable

Exercise/Mobility
DVT and PE Seminar
Anatomy/Classification of Hip/ Femoral Neck and Associated Issues
Chronic Back Conditions
Module overview and aim

This module forms part of the BSc Clinical Practice. It is designed to enable you to synthesise knowledge of the specific needs of patients with orthopaedic problems, so that accurate and comprehensive nursing diagnoses can be identified and appropriate nursing interventions be chosen. You will be encouraged to develop your professional practice through the integration of specialist knowledge and skills in order to provide high quality therapeutic care to orthopaedic patients.

Learning outcomes

At the end of the module you will be able to:

1. Critically explore the holistic needs of orthopaedic patients across the care continuum through a process of systematic assessment and assimilation of patient data.
2. Critically explore and apply the knowledge and skills required to facilitate effective clinical problem-solving and decision making in order to respond to the changing needs of orthopaedic patients.
3. Select and critically analyse appropriate evidence-based therapeutic interventions to monitor, maintain and improve an orthopaedic patient’s health status across a range of settings.
4. Reflect on orthopaedic patient care experiences and critically evaluate the processes and outcomes of care.
5. Develop and apply appropriate interpersonal skills and health promotion strategies in collaborative partnership with orthopaedic patients and their families.
6. Critically evaluate the contribution of other members of the interprofessional team in the care of orthopaedic patients.

Clinical Practice

It is envisaged that the majority of experience required to complete the module can be gained in your own practice area. If you are in a practice area offering only elective orthopaedic or trauma experience you will need the agreement of your manager to undertake a placement within your own Trust which offers wider experience of orthopaedic care. Certain aspects of orthopaedic nursing, such as care within the Fracture Clinic, Outpatient clinic, plaster theatre, pre-operative assessment clinic, A & E and theatres, can be gained in your Trust as guided visits, in agreement with your manager.

Teaching arrangements

- Lectures
- E-learning and Directed reading
- Small group discussions
- Guided practice
- Reflection
- One-to-one formative discussions
Submitting coursework
For this module you are assessed Carole Jackson and Claire Todd.

All parts of the assessment must be completed and submitted by the date below. Failure to submit assignments or attend examinations will result in a fail grade being awarded. Computer failure on the students’ part will not be counted as mitigation for non-submission. For this module you are assessed by a portfolio which will be marked by the course leader and the deputy leader.

Assessment criteria
There are two components to the summative assessment strategy that form a portfolio of evidence:

1. Written assignment: A patient case study outlining a structured framework of care. One orthopaedic nursing aspect of this care will be selected and a critical evaluation carried out to meet this.
2. Satisfactory completion of the Practice Assessment Document (PAD).

Both components will be submitted as one document via TurnItIn.

Formative assessment
Student-led discussion with an identified lecturer
This must be completed by 23 February 2017 — the lecturer will keep a copy of this

Guidelines
- The formative assessment is a consultation with an identified lecturer. This may be conducted on either an individual or small group basis.
- Prior to the consultation you must have selected a case study of a patient that you have cared for. You must have also identified the aspect of care you will be discussing. You should have started to complete the holistic nursing assessment care plan in the (PAD).
- Some general reading and an initial literature search must be undertaken before the consultation.
- For the consultation to proceed you must bring the following:
  o Details of the selected patient / client
  o Essay plan and reference list
- The consultation will be a student led discussion focusing around the guidelines for the summative assignment and your individual essay plan.
- The formative stage will not be graded, but will be considered vital to the success of the overall assignment.
Summative assessment

Format: Written assignment of up to 3,000 words plus an Assessment of Practice in the form of a Practice Assessment Document which will constitute a portfolio of practice

Summative guidelines

- Choose a patient scenario from your orthopaedic practice in which you were the key participant. The patient / client must have a health need related to specialist orthopaedic nursing practice. The work should be informed by the care plan in your practice assessment document and the aspect of care selected must be related to orthopaedic nursing care.
- The consent of the patient/client must be obtained and issues of confidentiality be addressed explicitly i.e. related to the client, the hospital ward and other health care professionals (NMC 2015).
- Briefly outline a case study of your patient drawing on the care plan.
- Select one aspect of this patients care and critically analyse the evidence base for the care you provided.
- Reflect on the outcome of care in relation to the evidence base.
- The work should be supported throughout with relevant literature.
- A reference list formatted to the School guidelines should be included.
- Documentation of the formative stage must be included with the summative assignment.

In addition

- It is a requirement of the module that you complete the Practice Assessment Document to a satisfactory standard. You should complete all selections of this. Failure to do so may result in a fail grade being awarded. In addition your mentor will need to send a verification of competence e-mail from their trust e-mail account
- The written assignment and the Assessment of Practice Document should be combined to form one document and submitted via TurnItIn.
Coursework submission are provided on the modules KEATS site. It is essential that you use your candidate number on all assignments/examinations. Your candidate number, which will begin with X for the academic year 2016/17, will be available via Student Records on the King’s Intranet approximately one month after you enrol.

If you are unable to submit your work by the deadline please refer to the information in your programme handbook on “mitigating circumstances”. If you require further support in these circumstances you are advised to contact KCLSU.

**Submission date for coursework:** 11.59am, 11 April 2017

**Work available for download:** 11.59am on 16 May 2017

Late submissions will be accepted for 24 hours following the submission date. All work submitted late will be marked as normal but will be capped at the pass mark for the module. If your assignment is a hard copy please ensure you date stamp it and submit it to the submission room G15 James Clerk Maxwell Building. If your assignment is submitted electronically through TurnItIn, information about how to submit late will be provided on KEATS module sites under assessment information. Please label the file with your candidate number and double-check you have submitted the correct file.

The external examiner for this module is Annabella Gloster. Students are not to make direct contact with external examiners, in particular regarding their individual performance in assessments.

The College and its Examination Boards in the ten Faculties (Institutes/Schools, King’s Learning Institute and the Association of King’s College (AKC), work with over 500 external examiners to ensure the quality and standard of our taught awards. Find the latest report on the External Examiners Report page, navigate to the Faculty of Nursing and Midwifery section.

**Results and resubmissions for coursework**

Students will receive a provisional (unratified) mark for their coursework 4 weeks following submission. According to the method of submission as detailed on your KEATS site, if your work was submitted online you will be able to download marked coursework from KEATS; alternatively, if you completed a hard copy submission you can collect your coursework and feedback from the Student Services Centre.

To collect a hard copy assignment, you must provide your candidate number. Alternatively, you may send a stamped addressed envelope to the Student Services Centre ensuring that this is large enough to accommodate your assignments and that you have applied sufficient postage. Hard copy assignments will be retained for four weeks; if you have not collected your assignment by then, it will be destroyed.

Feedback will include the award of a numerical grade which remains provisional until ratified by the examination boards. The dates for the examination boards are available on KEATS. Ratified marks can be viewed via Student Records on the King’s Intranet, the Monday following the relevant examination board.

The marking criteria by which your work is judged are provided in full in your programme handbook. Please also refer to the section in your programme handbook on plagiarism and how to avoid it. If you have a query about how to refer to a specific piece of work please ask your module...
leader, your group leader or a member of library staff for guidance or please use King’s Libguides site.

The feedback you receive on your assignment will guide you towards how to do better next time or how to maintain your existing high standard!

If you do not understand your mark or the feedback you receive please contact Dr Carole Jackson

If you are unsuccessful, it is recommended that you contact the module leader before submitting your second attempt. This will enable the module leader to provide you with an appropriate level of support as you prepare to resubmit your work.

Resubmission date 11.59am on 18 July 2017

Resubmitted work available for download 11.59am on 15 August 2017
Learning resources

Week 1
19 Jan 2017

Introduction to the Module and the Scope of Orthopaedic Practice/Assessment Process

At the end of the session you will be able to:

- Identify the aims of the module and how these will be met.
- Assess your individual learning needs with regards to the module.
- Explore the settings and situations within which orthopaedic practice takes place.
- Evaluate the factors affecting orthopaedic practice
- Identify and understand the assessment requirements of the module.

Musculoskeletal Assessment

At the end of the session you will be able to:

- Identify the principles of musculoskeletal assessment.
- Formulate a systematic tool for collecting assessment data.
- Evaluate the interpersonal skills required to collect assessment data.

Indicative reading


**Week 2**  
**26 January 2017**

**Terminology in Orthopaedic Care**  
At the end of the session you will be able to:  
- Describe, using correct terminology, how joints and their movements are assessed and recorded.  
- Identify how supporting structures (muscle/ligament) are described.  
- Identify the uses of this knowledge in orthopaedic nursing.

**Classification of Synovial Joint Disease**  
At the end of the session you will be able to:  
- Identify the main classifications of synovial joint disease.  
- Evaluate methods of differentiating between synovial joint diseases.

**Osteoarthritis**  
At the end of the session you will be able to:  
- Identify the disease processes for osteoarthritis.  
- Evaluate the treatment options for the stages of these diseases and the role of the orthopaedic nurse and other health professionals in these treatments (including joint replacements).  
- Critically analyse methods of developing patient-focused care throughout the patient journey.  
- Identify the concerns/needs of patients throughout their patient journey and how these needs might be met.

**Gait and Movement**  
At the end of the session you will be able to:  
- Identify common gait patterns and their underlying causes.  
- Critically evaluate assessment tools for gait and movement analysis.

**Indicative reading**  


[http://www.arthritisresearchuk.org](http://www.arthritisresearchuk.org) (Website of Arthritis Research Campaign)
**Week 3**  
**2 February 2017**

**Assessment of the Upper Limb**
At the end of the session you will be able to:

- Describe the relevant anatomy/physiology of the upper limb.
- Identify and use the relevant questions in taking a history of upper limb disease/injury.
- Carry out a physical assessment of the upper limb and correctly record the results.
- Evaluate the results of the assessment and formulate appropriate nursing diagnoses.

**Assessment of the Lower Limb**
At the end of the session you will be able to:

- Describe the relevant anatomy/physiology of the lower limb.
- Identify and use the relevant questions in taking a history of lower limb disease/injury.
- Carry out a physical assessment of the lower limb and correctly record the results.
- Evaluate the results of the assessment and formulate appropriate nursing diagnoses.

**E-Learning —DVT/PE**
On completion you will be prepared for the Seminar on day 6

**Indicative reading,**


Week 4
9 February 2017

Introduction to Trauma: Classification of Fractures and Principles of Treatment

At the end of the session you will be able to:

- Identify methods of assessing and classifying fractures.
- Identify the major causes of orthopaedic trauma.
- Identify the 3 principles of fracture treatment.
- Evaluate treatment options in fracture care.
- Critically evaluate the roles of the orthopaedic nurse and other health professionals in prevention and treatment of orthopaedic trauma.

Open Fractures and External fixators

- Critically analyse the evidence base for methods of caring for skeletal pins (external fixators and skeletal traction)
- Critically evaluate the management of open fractures

Complications -Fat Embolism and Compartment Syndrome

At the end of the session you will be able to:

- Identify the signs, symptoms and underlying pathophysiology of Fat Embolism and Compartment Syndrome.
- Evaluate methods of assessing patients at risk of the above complications.
- Evaluate methods of reducing the risk of the above complications occurring.
- Evaluate methods of treatment of the complications of immobility.
- Critically analyse the role of the orthopaedic nurse and other health professionals in assessment, reduction of risk and treatment.

E-Learning — Neurological Examination

On completion you will be able to:

- Identify structures of the nervous system and primary functions.
- Identify the main causes of unconsciousness and discuss how it is assessed.
- Explain how the motor and sensory nerves are examined.

Indicative reading,


RCN 2011 Guidance on pin site care
https://www2.rcn.org.uk/__data/assets/pdf_file/0009/413982/004137.pdf

RCN 2014 Peripheral neurovascular observations for acute limb compartment syndrome
https://www2.rcn.org.uk/__data/assets/pdf_file/0013/604030/Peripheral_neurovascular_observations_for_acute_limb_compartment_syndrome.pdf


Week 5
23 February 2017

Care of Patients with Non-bony Injuries
At the end of the session you will be able to:

- Identify the mechanism of injury in common non-bony injuries (including ACL tears, shoulder dislocation, Achilles tendon rupture).
- Evaluate treatment options for non-bony injuries.
- Evaluate the role of the orthopaedic nurse and other health professionals in the care of patients with non-bony injuries.

Exercise and Mobility Aids
At the end of this session you will be able to:

- Identify the uses of exercise and mobility aids in the care of patients with orthopaedic conditions/trauma.
- Evaluate the effectiveness of exercise and mobility aids in orthopaedic care.
- Demonstrate safe use of mobility aids (including suitability for different patient groups).

Spinal Injuries
At the end of the sessions you will be able to:

- Identify the underlying pathophysiology of acute spinal injury.
- Critically analyse methods of assessing and recording acute spinal injury (including patient perceptions).
- Evaluate the major treatment options for acute spinal injuries and the role of the orthopaedic nurse and other health professionals in these, including rehabilitation.
- Demonstrate the use of safe moving and handling techniques of patients suspected of having acute spinal injury.
E-learning — Rheumatoid Arthritis and Osteoporosis

These sessions will prepare you for the seminar on day 8.

Indicative reading,

Week 6
2 March 2017

DVT/PE Seminar

At the end of the session you will be able to

- Evaluate methods of assessing patients at risk of the above complications.
- Evaluate methods of reducing the risk of the above complications occurring.
- Evaluate methods of treatment of the complications of immobility.
- Critically analyse the role of the orthopaedic nurse and other health professionals in assessment, reduction of risk and treatment.

Non-surgical Care in Orthopaedic Conditions/Trauma — Pain

At the end of the session you will be able to:

- Identify the causes of pain in orthopaedic conditions/trauma.
- Critically evaluate methods of assessing pain in orthopaedic conditions/trauma.
- Critically analyse treatment methods for acute/chronic orthopaedic pain, and the role of the orthopaedic nurse and other health professionals in these treatments.

Indicative reading,


**Week 7**

9 March 2017

**Diagnostic Imaging in Orthopaedic Care**

At the end of the session you will be able to:

- Identify the common methods of diagnostic imaging in orthopaedic care.
- Describe the main features of these imaging methods.
- Identify the principles of interpreting plain films of patients with arthritis and fractures.

**Musculoskeletal Cancers**

At the end of the session you will be able to:

- Identify the major musculoskeletal cancers, their pathophysiology, aetiology, and treatments.
- Critically analyse the role of the orthopaedic nurse and other health professionals in the care of patients with orthopaedic cancers.

**Hip Anatomy/Classification of Hip Fractures**

At the end of the session you will be able to:

- Identify the main structures of the hip joint.
- Critically analyse methods of classifying hip fractures and their use in clinical practice.

**Femoral Neck Fractures**

At the end of the session you will be able to:

- Critically analyse methods of reducing the risk of femoral neck fractures in vulnerable groups.
- Evaluate treatment options for femoral neck fractures.
- Evaluate the role of the orthopaedic nurse and other health professionals in treatment of femoral neck fractures and reducing risk.

**E-learning — Orthopaedic Infections**

On completion you will be able to:

- Identify the causes and pathophysiology of orthopaedic infections (including septic arthritis, osteomyelitis).
- Evaluate treatment options for orthopaedic infections, and the role of the orthopaedic nurse and other health professionals in carrying out this care.
**Indicative reading**


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**Week 8**

**9 March 2017**

**Rheumatoid Arthritis Seminar**

At the end of the session you will be able to:

- Identify the disease processes for rheumatoid arthritis.
- Evaluate the treatment options for the stages of these diseases and the role of the orthopaedic nurse and other health professionals in these treatments (including joint replacements)
- Critically analyse methods of developing patient-focused care throughout the patient journey.
- Identify the concerns/needs of patients throughout their patient journey and how these needs might be met.

**Spinal Conditions**

At the end of the session you will be able to:

- Identify the underlying pathophysiology of chronic spinal conditions.
- Critically analyse methods of assessing chronic spinal conditions (including patient perceptions) and recording assessment.
- Evaluate the major treatment options for chronic spinal conditions and the orthopaedic nursing and other health professional roles in these treatments.

**Therapeutic Immobilisation**

At the end of the session you will be able to:

- Identify the principles of traction, casts, external fixators, slings/bandaging, and the moving of patients who are immobilised.
- Demonstrate the correct application of traction and identify the principles of maintaining it safely.
- Identify the principles of a good cast and demonstrate competence in safe removal of a cast.
- Demonstrate the correct application of slings and simple bandages.
- Demonstrate correct moving/handling of patients who are immobilised.
- For all of the above, evaluate the effects of immobilisation on patients and the role of the orthopaedic nurse and other health professionals in minimising adverse effects
Indicative reading,


http://www.rcn.org.uk/__data/assets/pdf_file/0004/608971/RCNguidance_traction_WEB_2.pdf

Indicative reading

Core


An anatomy and physiology book, for example:


In addition: recommended


Kneale D. & Davis P. S. (2005) Orthopaedic and Trauma Nursing. 2\textsuperscript{nd} ed. Churchill Livingstone.

Other useful reading:


Clarkson H.M. (2013) Musculoskeletal Assessment: Joint Motion and Muscle Testing. 3\textsuperscript{rd} ed. Lippincott Williams & Wilkins.

Crowther C.L. (2004) Primary Orthopaedic Care. 2\textsuperscript{nd} ed. Mosby


Magee D.J. (2008) Orthopaedic Physical Assessment. 5\textsuperscript{th} ed. Saunders, Elsevier.


Reider B. (2005) The Orthopaedic Physical Examination. 2\textsuperscript{nd} ed. WB Saunders, Philadelphia.

Internet resources
http://www.medscape.com (allows registration for particular speciality, including orthopaedics and nursing, and service then e-mails weekly updated information).
http://www.arthritisresearchuk.org (Website of Arthritis Research Campaign)
http://www.boa.ac.uk (Blue Book)

Relevant editions of the following journals:
Orthopaedic Nursing. New Jersey: National Association of Orthopaedic Nurses. 6 times yearly
Module evaluation

At the end of the module you are requested to complete the short online evaluation which will be available on your module KEATS site. Student evaluations are very important to us and are required by Health Education England and the regional London Local Education and Training Boards.

Action from previous evaluations

There were no suggestions for changes in the evaluations from last year. However there have been some timetable changes this year. The 8 days will now run on consecutive Thursdays for the first 4 weeks of term 2, there will then be a one week break, followed by 4 more days on consecutive Thursdays. This break will allow students time to consider their written submission and also more time to complete the practical part of the assessment.
<table>
<thead>
<tr>
<th>Teaching mode</th>
<th>Date</th>
<th>Type of Session</th>
<th>Title</th>
<th>Time</th>
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<tr>
<td><strong>University based study</strong></td>
<td>19 Jan 2017</td>
<td>Introduction</td>
<td>Introduction to Course and Assignment Writing</td>
<td>10.00-13.00</td>
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<td>Musculoskeletal Assessment – Principles (including IPS)</td>
<td>14.00-17.00</td>
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<td>Practical session</td>
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<td>Nicky Smith/Julie Luddock</td>
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<td>Booked Formative Meetings/E-Learning and Guided Study: Neurological Examination</td>
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<td>Lecture</td>
<td>Anatomy/Classification of Hip/Femoral Neck and Associated Issues</td>
<td>14.00-17.00</td>
<td>Claire Todd</td>
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<td>University based study</td>
<td>16 March 2017</td>
<td>Seminar</td>
<td>RA Seminar</td>
<td>10.00-11.00</td>
<td>Carole Jackson</td>
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<tr>
<td>Lecture</td>
<td></td>
<td>Chronic Back Conditions</td>
<td>11.30-13.00</td>
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<td>Carole Jackson</td>
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<td>Practical</td>
<td></td>
<td>Therapeutic Immobilisation Traction, Casts, Moving/Handling, Slings/Bandages</td>
<td>14.00-16.00</td>
<td>Carole Jackson/Kayleigh Pierce/Emily Thomas</td>
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<td>Assessment Final Briefing</td>
<td>16.00-17.00</td>
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<td>Carole Jackson</td>
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Location key:

FWB – Franklin-Wilkins Building, Waterloo Campus

JCMB – James Clerk Maxwell Building, Waterloo Campus

WBW – Waterloo Bridge Wing, Waterloo Campus

Prideux Building, block 9 St Thomas