Prifysgol Wrecsam
Wrexham University

Module specification

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Module Code	SIR515
Module Title	Neurological injury, assessment, and management
Level	5
Credit value	20
Faculty	SLS
HECoS Code	100475
Cost Code	GACM

Programmes in which module to be offered

BSc (Hons) Sports Injury Rehabilitation	Core

Pre-requisites

n/a

Breakdown of module hours

Learning and teaching hours	12 hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	18 hrs
Project supervision (level 6 projects and dissertation modules only)	0 hrs
Total active learning and teaching hours	30 hrs
Placement / work based learning	0 hrs
Guided independent study	170 hrs
Module duration (total hours)	200 hrs

For office use only	
Initial approval date	25/6/24
With effect from date	01/09/24
Date and details of revision	
Version number	1

Module aims

1. Assessment of the spine and neurological system with considerations made for potential pathology and/or injury.

2. To provide students with a knowledge of the suitable clinical selection and differentiation between a wide variety of treatment modalities for neurological and spinal conditions and injuries.

3. To provide students with knowledge of the safe application of clinically relevant management strategies within the scope of a Graduate Sport Rehabilitator.

Module Learning Outcomes - at the end of this module, students will be able to:

1	Identify underlying injuries or conditions which may contraindicate common treatment interventions or require onward referral.
2	Demonstrate appropriate and safe assessment and management of the spine and associated neural tissues.
3	Justify suitable treatments for a variety of spinal conditions/injuries.
4	Appraise the evidence base for the assessment, treatment, and management of nervous tissue injuries.

Assessment

Indicative Assessment Tasks:

Assessment 1: Practical – 30 minute – demonstration of a safe assessment and management of the spine and neural tissues.

Assessment 2: Oral – 10 minute – justification and appraisal of the assessment, treatment, and management strategies of spinal and nervous tissue injuries using the evidence base.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1, 2	Practical	70
2	3, 4	Oral	30

Derogations

Students must pass all elements at 40% or above. Clinical Practice Examinations are set to establish student safety in their clinical skills and safeguard the public. Therefore, all clinical practice examinations will be conducted with 'public safety' as the priority; students demonstrating unsafe practice or breeching confidentiality will be stopped immediately. The examiner will stop the student and inform them the clinical examination will not continue and the student will be marked as 'not pass' or referral, following the University Academic Regulations.

Learning and Teaching Strategies

The module will be delivered using blended learning techniques and the universities Active Learning Framework (ALF). This will include lectures, seminars, peer-led discussions, tutorials, asynchronous tasks and online based quizzes/tasks. Regular feedback will be provided to support the student journey.

Students will be engaged in practical activities on a regular basis, where they will have the opportunity to work with their peers to establish safe and effective assessment and treatment techniques. Students will be expected to act within professional boundaries. Formative feedback will be provided throughout the module to support students development.

Indicative Syllabus Outline

Subjective assessment for a patient with spinal pathology/injury

Red flags

Spinal assessment

Neurological assessment (e.g. myotomes, dermatomes, reflexes, tension tests)

Neurological conditions

Common spinal pathology/injuries

Common management techniques

Spinal movement analysis and biomechanics

Introduction to common co-morbidities (e.g. cardiovascular, rheumatology, diabetes)

Pain science and chronic pain

Tissue healing

Indicative Bibliography:

Essential Reads

Hengeveld, E. and Banks, K. (2013), *Maitland's Vertebral Manipulation: Management of Neuromusculoskeletal Disorders – Volume 1*. London: Elsevier

Mulligan, B. (2021), *Manual Manual Therapy: NAGs, SNAGs, MWMs etc.* Bateson Publishing Ltd.

Other indicative reading

Brukner, P., Khan, K., Clarsen, B., Cools, A., Crossley, K., Hutchinson, M., McCrory, P., Bahr, R., Cook, J. (2017), *Brukner & Kahn's Clinical Sports Medicine, Revised Injuries: 1.* Vol 1 Injuries. 5th ed. Australia: McGraw-Hill.

Lennon, S., Ramdharry, G., and Verheyden, G. (2018), *Neurological Physiotherapy Pocketbook*, 2nd ed. Edinburgh: Elsevier.

Norris, C. M. (2018), *Sports and soft tissue injuries: a guide for students and therapists*. 5th ed. London: Routledge.

Porter, S. B., & Wilson, J., (2020), *A comprehensive guide to sports physiology and injury management : an interdisciplinary approach*. 1st ed. Elsevier

Employability – The University Skills Framework

Each module and degree programme are designed to support learners as they develop their graduate skills aligned to the University Skills Framework.

Using the philosophies of the Active Learning Framework (ALF) our 10 skills are embedded within programmes complementing core academic subject knowledge and understanding. Through continuous self-assessment students own their individual skills journey and enhance their employability and career prospects.

This Module forms part of a degree programme that has been mapped against the University Skills Framework

Learners can use this document to identify where and how they are building skills and how they can develop examples of their success.