



Module Specification

Brachytherapy Principles and Clinical Applications

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Part 1: Information

Module title: Brachytherapy Principles and Clinical Applications

Module code: UZYSU4-15-M

Level: Level 7

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Health & Applied Sciences

Department: HAS School of Health and Social Wellbeing

Partner institutions: None

Field: Allied Health Professions

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: Yes

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Module Entry requirements: Relevant experience within the Oncology field.

Educational aims: See Learning Outcomes.

Outline syllabus: The syllabus includes:

General principles of brachytherapy

History of brachytherapy and sources and afterloaders

Radiobiology in brachytherapy

Radiation protection issues in brachytherapy

Physics planning, optimisation and use of Dose Volume Histograms (DVHs)

Clinical applications of brachytherapy, site specific, including gynae, prostate, endoluminal, miscellaneous

Psychological issues in brachytherapy

National guidelines and standards for brachytherapy in UK

Service management and development in brachytherapy

Part 3: Teaching and learning methods

Teaching and learning methods: A variety of approaches will be used which may include lectures, discussions, seminars and presentations. Student centred learning is guided by work based learning and on-line discussions.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

A1 Demonstrate critical knowledge and understanding of brachytherapy principles

A2 Demonstrate a comprehensive understanding of brachytherapy applications in modern radiotherapy clinical practice

- B1** Critically appraise existing knowledge and available literature on brachytherapy delivery
- B2** Independently evaluate current working practices and areas for potential service development
- B3** Critically analyse complex situations and formulate ethical solutions, arguments and strategies for change in the workplace
- C1** Critically evaluate the role of brachytherapy within the therapeutic radiographers professional development
- C2** Discuss the potential medico-legal and ethical implications for clinical brachytherapy practice
- D1** Critically evaluate the implementation and provision of a brachytherapy service within clinical practice
- D2** Critically evaluate the various aspects of service re-design / enhancement, whilst demonstrating an awareness of clinical legislation / governance

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Total = 150

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/uzysu4-15-m.html) via the following link <https://uwe.rl.talis.com/modules/uzysu4-15-m.html>

Part 4: Assessment

Assessment strategy: Where necessary, and appropriate, an alternative medium of assessment may be negotiated.

Assessment tasks:

Written Assignment (First Sit)

Description: 2500 word reflective assignment

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: A1, A2, B1, B2, B3, C1, C2, D1, D2

Written Assignment (Resit)

Description: 2500 word reflective assignment

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: A1, A2, B1, B2, B3, C1, C2, D1, D2

Part 5: Contributes towards

This module contributes towards the following programmes of study: