

Liverpool John Moores University

Title: ONCOLOGY PHARMACY PRACTICE
Status: Definitive
Code: **7002OPPHAR** (113356)
Version Start Date: 01-08-2015

Owning School/Faculty: Pharmacy & Biomolecular Sciences
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

Team	Leader
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Academic Level: FHEQ7 **Credit Value:** 20.00 **Total Delivered Hours:** 9.50
Total Learning Hours: 200 **Private Study:** 190

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Online	8.000

Grading Basis: Pass/Not Pass

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Exam - 1.5 hours MCQ on-line	50.0	1.50
Portfolio	AS2	Coursework - Case Studies/portfolio	50.0	

Aims

To provide an opportunity to develop an integrated knowledge of the causes and treatment of cancers.

To apply a knowledge of cancer and its treatment to pharmaceutical care for patients.

Learning Outcomes

After completing the module the student should be able to:

- 1 Describe the biological processes involved in the development of cancer.
- 2 Demonstrate an understanding of the processes involved in the diagnosis and staging of cancerous disease states.
- 3 Collate the aetiology and treatment of common tumours and malignant diseases in both their early and advanced stages.
- 4 Collate the aetiology and treatment of common tumours and malignant diseases in both their early and advanced stages.
- 5 Apply knowledge to anticipate and manage the side effects of cancer treatments
- 6 Show an understanding of other requirements of patients with cancer.
- 7 Integrate the results of clinical trials and apply them to daily practice
- 8 Be capable of providing an efficient pharmaceutical service for patients and apply the statutory framework in which these services are offered.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

EXAM	1	2	3	5	6	
portfolio	3	4	5	6	7	8

Outline Syllabus

Section 1 Overview of cancer:

Principles of cancer treatment; Cell cycle; Malignant transformation (Oncogenes, tumour suppressors, resistance etc); Tumour Nomenclature

Section 2 First Principles:

Early warning signs of cancer; Principles of surgical oncology; Principles of radiation oncology; Combined therapy; Staging of disease

Section 3 Cancer kinetics:

Principles of chemotherapy; Cellular kinetics; Tumour kinetics; Principles of combination chemotherapy; Dose intensity; Cellular resistance

Section 4 Lung Cancer:

Small cell lung cancer; Non-small cell lung cancer

Section 5 Breast Cancer:

Breast Cancer Aetiology and incidence; Adjuvant treatment; Metastatic treatment; Hormonal treatments

Section 6 Colorectal Cancers: Colorectal cancers aetiology and incidence; Adjuvant treatment; Metastatic treatment

Section 7 Gynaecological and Urological Cancers:

Management of gynaecological (ovarian, cervix) and urological (teratoma, renal ,prostate) cancers; Aetiology and incidence; Primary treatment; Metastatic treatment; Hormonal Treatments

Section 8 Skin Cancers:

Skin cancers Aetiology and incidence; Classification; Malignant Melanoma
Section 9 Lymphomas:
Lymphomas Aetiology and incidence; Hodgkins Disease and Non Hodgkins Lymphomas
Section 10 Leukaemias:
Leukaemias Aetiology and incidence; Classification; Induction/Maintenance treatments; Transplants (BMT and PBSCT)
Section 11 Monitoring patients:
Use of a standard checklist for a patient receiving chemotherapy; Effect of drug handling in patients with reduced renal/hepatic function
Section 12 Managing toxicities: Managing chemotherapy induced toxicities; GI toxicities; Minimising specific side effects
Section 13 Administration of chemotherapy:
Care of indwelling catheters; Use of ambulatory pumps; Intrathecal administration; Prevention and treatment of extravasation
Section 14 Infection:
Pharmaceutical care of the patient with neutropenic sepsis; Treatment of fungal infections; Treatment of viral infections; Use of Growth Factors
Section 15 Symptom control:
WHO pain ladder; Initiating morphine in an opiate naïve patient; Dose conversion Breathlessness; Terminal Care; Syringe Drivers
Section 16 Oncologic emergencies:
Hypercalcaemia; SVCO; SIADH; Tumour Lysis Syndrome; Raised ICP/Spinal cord compression
Section 17 Technical aspects:
Safe handling; Reconstitution/use of LAF/Isolator; Porterage; Chemotherapy spillage; Disposal
Section 18 Clinical trials:
Types of trials; Accountability; Consent Interpretation of published results
Section 19 Prescription Review: Prescription review; Dosage calculation; Design of prescription sheet/protocol; Error reduction
Section 20 Statutory framework:
NICE Assessments; NHS Cancer plan; A spoonful of Sugar

Learning Activities

The module will be delivered by distance learning through the university's Blackboard platform. The module comprises 20 sections. Each section has a set of objectives. Students will receive background information relating to each section's set of objectives and appropriate additional reading and web-based links will be provided.

Notes

There are no course notes

