

### Module 3– Targeted Therapy

- \* Biological response modifiers
- \* Monoclonal antibodies
- \* Cancer vaccines
- \* Gene therapy
- \* Nurses role in targeted therapy

### Module 4– Central Venous Access Device Care and Maintenance

- \* Classification of Central Venous Access Devices
- \* General guidelines for vascular access care
- \* Central Venous Access Device care and maintenance
- \* Complications– Identification & Management
- \* Nurses role in CVAD care

### Methods of Evaluation:

#### Theory:

- \* End of Module Test - 25 marks
- \* Final Test - 75 marks
- \* Total - 100marks

#### Clinical Practice:

- \* Completion of Log book - 20 marks
- \* Clinical Evaluation - 5 marks
- \* Practical Exam (OSCE) - 25 marks
- \* Total - 50marks

### Criteria for Certification in Chemotherapy:

1. 75% marks scored in theory and 80% in practical exam
2. 100% attendance during the course
3. Satisfactory completion of the log book during the course

### Course Fee:

A one-time non-refundable fee of Rs. 21,500/- (Corporate & Private), \* Rs. 14,500/- ( Mission & Government) + 18% GST has to be paid after getting the selection communication from CMC.

### Application:

Application can be downloaded from the website

Website address: [www.concmc.org](http://www.concmc.org)

The filled in application should be sent to the following address along with Demand Draft favoring “CMC Vellore Association“ for Rs. 250/- payable at Vellore

*Dr. Vinitha Ravindran, Professor & Head  
Department of CNE & Research, College of Nursing,  
CMC, Vellore. 632004.*

### Enclosures:

Candidates have to submit photocopies of their undergraduate or post graduate certificates, RN, RM Certificates in support of their qualification along with the application form

### Course Facilitators:

Mrs. Amalorpavamary Lucas, MSN  
Professor & Head  
Hemato Oncology Nursing  
College of Nursing, CMC, Vellore.

Dr. Vinitha Ravindran, MSN, Ph.D  
Professor & Head  
Department of Continuing Nursing Education & Research  
College of Nursing, CMC, Vellore.

### Course Coordinator:

Mrs. Lillian Percy Kujur, MSN, Professor,  
College of Nursing, CMC, Vellore.

### Teaching Faculty:

Faculty from Department of Hematology, Medical Oncology &  
Department of Medical Surgical Specialty Nursing VI

### Core Course Faculty:

#### Nursing:

Mrs. Amalorpavamary Lucas, Professor,  
College of Nursing, CMC, Vellore.  
Mrs. Lillian Percy, Professor, College of Nursing, CMC, Vellore.  
Mrs. Abijah Princy, Asst. Professor, College of Nursing, CMC, Vellore.  
Ms. Latha Gracelin, Asst. Professor, College of Nursing, CMC, Vellore.

#### Medical:

Dr. Biju George, Professor & Head,  
Department of Hematology, CMC, Vellore.  
Dr. Ashish Singh, Professor, & Head,  
Department of Medical Oncology, CMC, Vellore.  
Dr. Sharon Anbumalar Lionel, Assistant Professor,  
Department of Hematology, CMC, Vellore.  
Dr. Anjana Joel, Assistant Professor,  
Department of Medical Oncology, CMC, Vellore.

**Commencement of the course -Second Batch:**

**March 14, 2022 to April 10, 2022**

**Last date for the submission of application:**

**February 28, 2022**

**Dr. Vathsala Sadan  
Dean,  
College of Nursing,  
CMC, Vellore.**



WHO COLLABORATING CENTRE FOR  
NURSING AND MIDWIFERY  
DEVELOPMENT

## SHORT COURSE ON CHEMOTHERAPY



**Conducted by  
College of Nursing  
CMC, Vellore.**

## Preamble

This short term course in Chemotherapy is designed to prepare registered nurses to be specially trained in administration of chemotherapy and management of patients on chemotherapy. Nurses undergoing this course will be able to function as chemotherapy nurses in hospitals and day care chemotherapy units. She/ He may also function as chemotherapy nurse coordinator in tertiary care cancer centres.

## Objectives of the Course:

### The course participants will be able to

- \* Understand the risk factors, biology, cancer development, diagnosis and prevention of cancer
- \* Classify the cytotoxic drugs used in cancer treatment
- \* Follow the safe handling principles of cytotoxic drugs
- \* Calculate chemotherapeutic drugs accurately
- \* Reconstitute and administer chemotherapeutic drugs
- \* Identify and intervene anaphylaxis, extravasation and spillage of cytotoxic drugs during chemotherapy administration
- \* Manage regimen related toxicities and provide nursing care using nursing process
- \* Explain the targeted therapies that are being used in cancer management
- \* Describe the Central Venous Access Devices and its care
- \* Demonstrate the Central Venous Access Device dressing
- \* Counsel patients and families on home care and follow up after chemotherapy administration
- \* Provide comprehensive, evidence based and individualized nursing care to patients undergoing chemotherapy incorporating the acquired knowledge and skills

## Eligibility Criteria

1. Nurses with GNM, B.Sc or M.Sc qualification

## Organization of Course

**Duration:** This is a short term course of 4 weeks duration.

**Total Hours: 180 hrs**

**Hours allotted for theory: 60 hrs**

20hrs x 2 weeks = 40 hrs

Online learning through videos, scenarios & Assignments (completed in module) =20 hours

**Hours allotted for clinical practice: 120 hrs.**

Onsite clinical practice= 100 hours

Onsite skill demonstration, case presentation, drug presentation = 20 hours

## Delivery of Content

The content will be delivered in 4 modules that enables trainees to meet the learning objectives through self - directed learning followed by two weeks of intense, guided skill training in chemotherapy unit of the hospital.

## Each module will comprise the following:

- \* An online live lesson to introduce the module
- \* Narrated power point presentations
- \* Videos demonstrating procedures
- \* Reading material
- \* Online live lesson to conclude the module
- \* Quiz/ Test

## Module Contents

### Module 1– Overview of Cancer

- \* Theories of cancer
- \* Epidemiology

- \* Etiology
- \* Cell cycle
- \* Proliferative patterns
- \* Tumor classification
- \* Biology of cancer
- \* Carcinogenesis
- \* Mechanism of metastasis
- \* Grading and staging of cancer
- \* Cancer prevention
- \* Diagnostic methods in cancer detection
- \* Treatment modalities available

### Module 2– Chemotherapy in Cancer Treatment

- \* Introduction to chemotherapy
- \* Classification of chemotherapeutic drugs
- \* Disease specific chemotherapeutic drug regimen
- \* Routes of chemotherapy administration
- \* Safe handling of cytotoxic drugs
- \* Calculation, preparation and administration of drugs
- \* Management of adverse effects and regimen related toxicities
- \* Complications– prevention, identification and management
- \* Nursing management of patients on chemotherapy
- \* Coping with chemotherapy
- \* Medication adherence
- \* Warning signs for medical emergencies

### Procedures:

- \* Chemotherapy preparation
- \* Administration of chemotherapy
- \* Disposal
- \* Extravasation and spillage management
- \* Handling of laminar hood