

RKMVERI MSC CCST ONCO CRITICAL CARE SYLLABUS

SEMESTER III COURSE DURATION: 20 WEEKS

Course	Course Code	Credit
Infection Control	CO301	2+1
Malignant Patient Care	CO302	2
Paediatric malignancies	CO303	2+1
Nursing Management	CC304	2
Psycho-Social Aspects of Nursing Care	CC305	2
Cancer Treatment Modalities and TECHNICIAN'S Role	CC306	2
Chemotherapy and radiotherapy	CC307	2 + 2
Total		18

Shall involve posting in microbiology department & round with infection control nurses	CO301	<input type="checkbox"/> Infection control: <input type="checkbox"/> <ul style="list-style-type: none"> • Process of infection, risk of hospitalization, nosocomial infections- prevention and control of infection in acute, longterm care facility and community based care • Standard safety measures
ICU POSTING	CO 302	Care of Patients With Specific Malignant Disorders <ul style="list-style-type: none"> <input type="checkbox"/> Malignancies of G.I. system-oral, oesophagus, stomach, rectal,liver & pancreas, care of ostomies/stoma <input type="checkbox"/> Respiratory malignancies <input type="checkbox"/> Genito urinary system malignancies- prostate Bladder, renaltesticular malignancies, <input type="checkbox"/> Gynecological malignancies-cervix, uterus, ovary

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		<ul style="list-style-type: none"> ❑ Hematological malignancies-Lymphomas, Leukemias. ❑ Malignancies of musculoskeletal system ❑ Endocrine malignancies ❑ Skin ❑ Head and Neck -brain tumors ❑ Other malignancies – Breast cancer, AIDS related Malignancies(Kaposi's Sarcoma) <p>Cancer Emergencies</p> <ul style="list-style-type: none"> ❑ Disseminated intravascular coagulation(DIC), ❑ Malignant pleural effusion ❑ Neoplastic cardiac tamponade and septic shock ❑ spinal cordcompression ❑ Superior vena cava syndrome ❑ Metabolic emergency: hyper and hypo calcemia ❑ Surgical emergency ❑ Urological emergency ❑ Hemorrhage ❑ Organ obstruction ❑ Brain metastasis
HAEMATOLOGY POSTING	C0303	<p>Paediatric malignancies</p> <ul style="list-style-type: none"> ❑ Leukemia, Lymphoma, Neuro- blastoma ❑ Wilm's tumor, Soft tissue sarcoma, Retinoblastoma ❑ Nursing Management of children with Paediatric Malignancies

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DIETICIAN OPD	C0304	Nursing Management of Physiological Conditions and Symptoms Of Cancer Patient <ul style="list-style-type: none">□ Nutrition: - effects of cancer on nutritional Status and its consequences:-Anemia, Cachexia, Xerostomia, mucositis, Dysphagia , nausea and vomiting, constipation, diarrhoea, electrolyte imbalances, taste alterations□ Impaired mobility: Decubitus ulcer, pathologic fractures, thrombophlebitis, pulmonary embolism, contractures, footdrop Other symptoms <ul style="list-style-type: none">□ Dyspepsia & hiccup, dyspnoea□ intestinal obstruction,□ Fungating wounds□ Anxiety & depression, insomnia□ Lymph edema
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PAIN CLINIC POSTING	CO305	<p>Psycho-Social Aspects of Nursing Care</p> <ul style="list-style-type: none"> □ Psychological responses of patients with cancer □ Psychosocial assessment – □ Crisis intervention, coping mechanisms □ Stress management, spiritual/cultural care and needs □ Counseling: individual and family □ Maximizing quality of life of patient and family <p>Ethical, moral and legal issues-</p> <ul style="list-style-type: none"> □ End of life care □ Grief and grieving process □ Bereavement support □ Care of Nurses who care for the dying.

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<p style="text-align: center;">OT POSTING</p>	<p style="text-align: center;">CO30 6</p>	<p>Cancer Treatment Modalities and TECHNICIAN'S Role</p> <ul style="list-style-type: none"> □ <i>Surgery</i> <ul style="list-style-type: none"> • Principles of surgical oncology • Current surgical strategy, • Determining surgical risk • Special surgical techniques • Pre-intra-postoperative nursing care • Acute and chronic surgical complications • Future directions and advances
<p style="text-align: center;">CHEMOT HERAPY DAY CARE POSTING</p>	<p style="text-align: center;">CO307</p>	<ul style="list-style-type: none"> □ <i>Chemotherapy</i> <ul style="list-style-type: none"> • Principles and classification of chemotherapeutics • Pharmacology of antineoplastic drugs- Mechanism of action, Absorption, protein binding, Bio-transformation, excretion, common side effects, drug toxicity • Calculating drug doses, • Therapeutic response to chemotherapy-Tumor variables, drug resistance, • Safety precautions
<p style="text-align: center;">RADITHERAP Y POSTING AND BRACHY OT</p>	<p style="text-align: center;">1 WEEK</p>	<ul style="list-style-type: none"> □ <i>Radiation Therapy</i> <ul style="list-style-type: none"> • Physics of radiotherapy • Types of ionizing rays • Radiation equipments: Linear accelerator, cobalt, Implants, Isotopes, • Types of therapies: Oral, Brachy therapy, tele therapy, selectron therapy • Effects of radiation on the body tissue, • Radiation biology – cell damage hypoxic cells, alteration of tumor kinetics. • Approaches to radiation therapy – • External radiotherapy • Internal radiotherapy – unsealed, • Sealed sources. • Effectiveness of radiotherapy- Radiosensitivity, treatment effects • Complications of radiotherapy • Radiation safety: Standards of Bhaba Atomic Research Centre (BARC)

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PROCEDURES TO BE OBSERVED (Each practical session corresponding to the theory paper as appropriate):

1. Chemotherapy
2. Radiotherapy – Brachytherapy – Low Density Radiation, High Density Radiation.
3. Interstitial implantation
4. Bio-therapy and Gene therapy
5. Teletherapy – Treatment planning
6. Bone marrow aspiration and biopsy
7. Biopsy – tissue
8. FNAC – Fine Needle Aspiration Cytology and biopsy
9. Tracheostomy
10. Thoracentesis
11. Paracentesis
12. Lumbar Puncture
13. Arterial Blood Gas
14. Nerve Block
15. Chest tube insertion
16. Intercostal drainage
17. CVP monitoring

Procedures Performed

1. Screening for cancer
2. Assessment of pain
3. Assessment of Nutritional status
4. Care of Tracheostomy
5. Endotracheal intubation
6. Gastric gavage
7. IV cannulation
8. Care of surgical flaps
9. Care of ostomies
10. Blood transfusion and component therapy
11. Counseling
12. Practice standard safety measures
13. Care of dead body and mortuary formalities

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All candidates have to make a journal club presentation each week to qualify for taking up the examination.