



COURSE SPECIFICATION

Faculty of Medicine– Mansoura University

(A) Administrative information

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| (1) Programme offering the course. | Surgical Oncology |
| (2) Department offering the programme. | General surgery |
| (3) Department responsible for teaching the course. | General surgery |
| (4) Part of the programme. | Second part MD Surgical Oncology |
| (5) External evaluator(s) | Prof. Dr. Gamal Emiera, National cancer institute, Cairo university |
| (6) Date of approval by the Department`s council | 8 / 8 / 2016 |
| (7) Date of last approval of programme specification by Faculty council | 9/8/2016 |
| (8) Course title. | Surgical Oncology |
| (9) Course code. | SONC 620 |
| (10) Credit hours. | 13 hour theoretical 15 hour activities (13 clinical & 2 others) |
| (11) Total teaching hours. | 195 hour theoretical 390 hour practical & 60 hour |

(B) Professional information**(1) Course Aims.**

The broad aims of the course are as follows.

- 1- To prepare our candidates to acquire knowledge, competencies, skills and applications in different branches of Surgical Oncology.
- 2- To give our candidate the ability to integrate the Surgical Oncology data properly in service of Surgery and the ability to integrate data obtained from clinical examination and investigations properly for ideal management for the surgical patient.
- 3- The purpose of the training program of the Master degree is to prepare the physician for the independent practice of clinical Surgery. This training must be based on supervised clinical work with increasing responsibility for outpatients and inpatients. It must have a foundation of organized instruction in the basic Surgery science.

Within the overall aim, the objectives of the Programme are as follows.

1. Teaching the basics of surgical Oncology.
2. Teaching the basics of surgical oncology science related to Clinical surgical practice and how to avoid complications.
3. Teaching the main topics of oncologic disorders with different environmental factors that play a role in many related diseases.
4. Training the candidates for proper methods of clinical examination and how to manage the acute and cold surgical patient properly.
5. Training the candidate how to search for the recent knowledge and how to apply this in his field.
6. Training the candidate how to do a research work with our aid as a preparatory step for him to do an independent thesis to create a new options for some surgical problems

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

A66-Recognize risk factors and genetic causes of different cancers.

A67-Differentiate benign and malignant breast lesions.

A68-Identify epidemiology of different malignant diseases.

A69-Define manifestations of different types of cancer.

A70-List different treatment options for every type of cancer.

A71-Recognize investigations required in diagnosis of different cancers.

A72-Discuss management of advanced cancers.

A73-Enumerate roles of surgery in leukemia and different hematological disorders.

A74-Recognize role of different specialties in management of cancer cases.

A75-Explain role for minimally invasive surgery in surgical oncology.

A76-Discuss differential diagnosis of different cancers.

A77-Identify causes of primary of unknown origin, how to reach diagnosis and how to manage if primary not reached.

A78-Discuss causes of lymphadenopathy and approach to manage these cases.

A79-Identify AIDS as a major risk factor for cancer and list its related types of cancer and precautions to be taken during management of such cases.

A80-Explain causes of oncologic emergencies and how to manage.

B- Intellectual skills

B15. Relate the examination findings, investigational results and history taking to reach proper diagnosis of general surgical patients.

B16. Employ gained knowledge in choice of suitable treatment option for different surgical patients.

B17. Enlist the differential diagnosis of different surgical conditions.

B19. Discuss case management with senior staffs and supervisors to improve professional performance and raise health outcomes.

B20. Criticize management of cancer patients and demonstrate pros and cons of different treatment options.

B21. Analyze data obtained from investigations and examination to reach diagnosis for each individual case.

C- Professional/practical skills

- C4. Demonstrate different practical skills in the field of surgical Oncology.
- C5. Take proper history and perform clinical medical examination for cases.
- C6. Manage different emergent and urgent cases attending oncology center.
- C7. Apply ABC (patent airway, breathing and circulation) for life saving of critically ill patients.
- C8. Apply the international management guidelines in treatment of oncology cases.
- C9. Gain skills of dissection of organs, vessels, nerves and important anatomical structures all over the body and how to reach it through the simplest, safest and shortest way.
- C10. Apply these skills especially with emergent and urgent cases.
- C11. Be able to perform different common surgical oncology operations adequately (mastectomy, thyroidectomy, hysterectomy, colectomy, parotidectomy, etc.).
- C12. Interpret different investigations to reach proper diagnosis.
- C13. Demonstrate competence in basic minimally invasive oncology procedures (Laparoscopic oophrectomy, laparoscopic exploration and laparoscopic lymph node biopsy).
- C14. Gain skills in common endoscopic procedures (colonoscopy, upper GI endoscopy, hysteroscopy, cystoscopy).
- C15. Demonstrate basic skills in reconstructive surgery after cancer resection.
- C16. Apply surgical and medical knowledge in cancer palliation.

D- Communication & Transferable skills

- D1. Demonstrate compassion, integrity, and respect for all patient's rights and treat all patients equally regardless to their believes, culture and behavior.
- D2. Communicate effectively with patients, families, and the public, as appropriate, across a broad range of socioeconomic and cultural backgrounds
- D3. Work effectively as a member or leader of a health care team or other professional group.
- D4. Manage patient at proper time.
- D5. Respect for patient privacy and autonomy.
- D6. To review the scientific literature on a research topic.
- D7. Advocate for quality patient care and optimal patient care systems.
- D8. Work in inter-professional teams to enhance patient safety and improve patient care quality.
- D9. Participate in identifying system errors and implementing potential systems solutions.
- D10. Transfer certain anatomical and surgical skills to undergraduate generations.

(3) Course content:

| Title | lectures | Practical |
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| (A) Breast: -Benign breast disorders -Non invasive breast cancer -Invasive breast cancer | 13 hours | 50 hours |
| (B) Head and neck: -Neoplasm of salivary glands -Tongue and oral cavity cancer -Mandibular tumors -Laryngeal and pharyngeal cancers -Thyroid cancer -Parathyroid cancer | 20 hours | 40 hours |
| (C) GIT: -Esophageal cancer -Gastric cancer -Carcinoid tumors -Small bowel tumors -Colon cancer -Appendiceal cancer -Rectal cancer -Anal cancer -Hepatobiliary cancers -Pancreatic cancer -Pancreatic endocrine tumors -Gastrointestinal stromal tumors | 40 hours | 70 hours |
| (D) Genitourinary: -Prostate cancer -Bladder cancer -Renal tumors -Testicular & paratesticular tumors -Adrenal tumors -Penile cancer -Scrotal cancer | 20 hours | 30 hours |

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| (E) Gynecology: -Ovarian and fallopian tube cancer -Endometrial cancer -Uterine sarcoma -Cervical cancer -Vaginal cancer -Vulvar cancer -Malignant gestational trophoblastic disease -Pseudomyxoma peritonii | 30 hours | 50 hours |
| (F) Skin cancer: -Non melanoma Skin cancer -Melanoma skin cancer | 12 hours | 20 hours |
| (G) Bronchogenic carcinoma (H) Bone tumors (I) Soft tissue sarcoma (J) Lymphomas (K) Chest wall tumors | 20 hours | 20 hours |
| (K) Pediatric tumors: -Neuroblastoma -Wilm's tumor -Hepatoblastoma | 5 hours | 10 hours |
| (L) Neuroendocrine tumors (M) Mediastinal tumors (M) Oncologic emergencies (N) Metastasis of unknown primary | 15 hours | 10 hours |
| (O) Lymphadenopathy (P) Splenomegally & splenic tumors (Q) Role of surgery in leukemia (R) Chordoma (S) AIDS related malignancies | 20 hours | 30 hours |

(4) Teaching methods.

4.1. lectures.

4.2. Operative demonstration.

4.3. Case Scenarios.

(5) Assessment methods.

- 5.1. written exam for assessment of knowledge.
- 5.2. MCQ exam for assessment of knowledge.
- 5.3. Objective structured clinical examination for assessment of knowledge.
- 5.4. Clinical exam for assessment of information gathering from patient and methodological examination.
- 5.5. Operative exam to assess operative compatibility.

Percentage of each assessment to the total mark:

Written exam: 400 marks

MCQ exam: 100 marks

OSCE exam: 100 marks

Clinical exam: 100 marks

Operative exam: 100 marks

Other assessment without marks: logbook

(6) References of the course.

- 6.1. Hand books: MD Anderson surgical oncology handbook.
- 6.2. Text books: DeVita oncology textbook- Washington manual of Oncology
- 6.3. Journals: Annals of surgical oncology.
- 6.4. Websites: www.nccn.org – www.esmo.org – www.uptodate.com – www.medscape.com – www.cancer.gov
- 6.5. Others.

(7) Facilities and resources mandatory for course completion: Lecture halls

(8) Evaluation of Programme's intended learning outcomes (ILOs):

| Evaluator | Tools* | Signature |
|---|---|-----------|
| Internal evaluator (s) Prof. Dr. Nazem Shams Prof. Dr. Adel Denewer Prof. Dr. Sherif Zaki Kotb Prof. Dr. Ahmed Seteet Prof. Dr. Mohamed Hegazy | Focus group discussion Meetings | |
| External Evaluator (s) | Reviewing according to external evaluator checklist | |

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| Prof. Dr. Gamal Emiera, National cancer institute, Cairo university | report. | |
| Senior student (s) | none | |
| Alumni | none | |
| Stakeholder (s) | none | |
| Others | none | |

* TOOLS= QUESTIONNAIRE, INTERVIEW, WORKSHOP, COMMUNICATION, E_MAIL

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| We certify that all information required to deliver this programme is contained in the above specification and will be implemented. All course specification for this programme is in place. | |
| Head of the department: Prof. Dr. Nazem Shams Professor of Surgical Oncology, Mansoura University | Signature & date: |
| Dean: Prof. Dr. Elsaid Mohamed Abdelhady | Signature & date: |
| Executive director of the quality assurance unit: Prof. Dr. Seham Gad El-Hak | Signature & date: |