

## 68413 - Oncological surgery

### Syllabus Information

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**Academic Year:** 2020/21

**Subject:** 68413 - Oncological surgery

**Faculty / School:** 104 - Facultad de Medicina

**Degree:** 530 - Master's in Introduction to Medical Research

**ECTS:** 5.0

**Year:** 1

**Semester:** Second semester

**Subject Type:** Optional

**Module:** ---

## 1.General information

### 1.1.Aims of the course

The subject and its expected results respond to the following approaches and objectives:

It is constituted by the integration of two thematic and conceptual blocks: principles and foundations of Oncology surgery and Breast surgery.

Taking into account that clinical oncological research constitutes one of the preferred lines in medical research, the main objective of the subject would be: "To base and develop the foundations of surgical oncology, insufficiently considered in the undergraduate / Medicine, allowing the student at the end of the same, understand, raise and develop clinical and research studies related directly or indirectly to cancer surgery.

Specific objectives:

? To know the principles and Fundamentals of Oncologic Surgery

? Understand the place of Oncology Surgery in the general context of the analysis of results, and its inclusion in the Clinical Trials approach.

? To learn tumor staging and its application of protocols and guidelines of clinical practice and the criteria of possible inclusion in clinical trials, all in the context of the Hospital Tumor Commission.

? Design clinical research projects in Oncology Surgery.

? To know and apply the knowledge and evidences in Sentinel node surgery, Neoadjuvant QT, Extended surgery, prophylactic surgery, early diagnosis and "minimal" surgery, Palliative surgery, Metastasis surgery.

? To know the methodology of early diagnosis and clinical diagnosis in breast cancer.

? To base surgery on: non-palpable breast lesions; Early diagnosis, carcinoma in situ, axilla (-)

? Establish "conservative" breast surgery, surgery after neoadjuvant QT, the actual significance of the sentinel node, prophylactic surgery.

? To know the different techniques and indications of breast oncoplastic surgery

? To know the diagnostic and therapeutic offer of minimally invasive surgery guided by image (CMIGI) in oncology.

? To know and discuss the indications and contraindications of these techniques: clinical benefit and therapeutic repercussion in cancer patients.

### 1.2.Context and importance of this course in the degree

To allow the student at the end of the same, understand, propose and develop clinical and research studies related directly or indirectly to surgical oncology.

### 1.3.Recommendations to take this course

This is an optional subject of the second semester of the Master, which aims to introduce the student in the critical analysis of what represents in clinical and research, the principles and foundations of surgical oncology and oncological surgery, in the field of therapeutics of cancer in general and of breast cancer in particular.

It would be of special interest for students involved in surgical and / or oncological medical specialties

## 2.Learning goals

### 2.1.Competences

By passing the subject, the student will be more competent to ...

1. To propose oncological surgical treatments consistent with: the staging and prognostic factors and with adequacy to the specific and protocolized care resources.

2. To analyze correctly and with critical sense the methodology, results and conclusions of the Clinical Trials in Oncologic Surgery.
3. Critically analyze the methodology and results of publications in relation to Oncologic Surgery.
4. Understand, justify and propose guidelines, methods protocols for early diagnosis and screening of certain tumors.
5. To base a research project on Surgical Oncology

## 2.2.Learning goals

The student, to overcome this subject, must demonstrate the following results ...

Be able to unequivocally understand the fundamentals of oncologic surgery in the general context of cancer research and therapeutics.

To justify the proposition and / or choice of different surgical options in the design of therapeutic protocols in Oncology.

Carry out a critical analysis of the place that surgical oncology would occupy in the design and results of Clinical Trials in Oncology.

To analyze the options proposed in clinical research for minimally invasive image guided surgery in surgical oncology.

To analyze the options proposed in clinical research for minimally invasive image guided surgery in surgical oncology.

## 2.3.Importance of learning goals

It allows to know and to base in a scientific and rational way, the principles of the Surgical Oncology, insufficiently developed in previous Studies of Degree / Degree, as a fundamental variable in clinical research in Oncology, and that usually is contemplated and weighted unconvincingly in: the adjuvant therapeutic protocolization, the analysis of the results and in the proposal of clinical trials and other epidemiologic methods in clinical research.

It allows to know and to base in a scientific and rational way, the principles of the Surgical Oncology, insufficiently developed in previous studies of Bachelor / Degree, as fundamental variable in clinical investigation in Oncology, and that usually is contemplated and weighted of little convincing way in coadjuvant therapeutic protocol, analysis of results and in the proposition of clinical trials and other epidemiological methods of clinical research.

## 3.Assessment (1st and 2nd call)

### 3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

The student must demonstrate that he has achieved the expected learning outcomes through the following assessment activities

Participation: It will be related to the degree of attendance, involvement and participation in the discussions and discussions addressed in class. WEIGHTING: Participation / Involvement (Non-attendance: 0; Non-justified attendance: 5; Assistance: 10): 30%.

Directed work: Critical analysis of an Article in relation to research in Surgical Oncology and / or Oncological Surgery, published in the last year in a Surgical or oncological Journal of relevance, in which the following aspects will be evaluated: Reference of the article, identification of the type of study, analysis of results and final critical analysis. Presentation in symposium. WEIGHTING: 30% (20% + 10%)

Objective final test: Test of 20 multiple-choice questions with 4 answers and one valid answer in relation to conceptual theoretical issues or clinical cases of surgical oncology in relation to the Program and contents of the Subject, without penalty of incorrect answers. It could also consider an objective model of online evaluation, according to the planned schedule. The last day of class of the Subject will take place, in the schedule of the last class. WEIGHTING: 40%

Evaluation Grading System

EVALUATION: Participation / Involvement (No attendance: 0; No justified attendance: 5; Attendance: 10): 30%. Work: 20% + 10%. Exam 40%.

## 4.Methodology, learning tasks, syllabus and resources

### 4.1.Methodological overview

The learning process that has been designed for this subject is based on the following:

The subject has a fundamentally practical orientation, so that the teaching and learning activities that are proposed focus on:

1. The application of a series of fundamental principles of oncological surgery and surgical oncology, in practice and current clinical protocols within the Hospital Tumor Committees in the field of clinical practice, protocolization and / or clinical research .

2. The application of criteria and research models, mainly clinical in the field of Surgical Oncology

## 4.2.Learning tasks

The program offered to the student to help him achieve the expected results includes the following activities ...

- Theory and practice sessions: Each topic of the syllabus will be presented, analyzed and discussed by the teacher for 55 minutes:
  - Formal and structured presentation of the state of the question: 15 minutes.
  - Presentation of a specialized scientific article or newspaper or protocol: 10 minutes.
  - Group discussion: 20 minutes
  - Conclusions: 10 minutes
- Guided assignment: Each student must prepare and present before the day of the final evaluation, a supervised work with an extension of 4-6 pages, in PDF format. It should be related to a scientific article about cancer surgery or surgical oncology, including minimally invasive surgery image-guided and include a critical analysis of the following points: objectives, general methodology, analysis of results and personal evaluation. Analysis of results and personal assessment.

Critical Symposium: Preview and discussion of the Work Projects in progress.

## 4.3.Programa

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## 4.3.Syllabus

The course will address the following topics:

- Topic 1. Oncological Surgery and Surgical Oncology
- Topic 2. Fundamentals of Surgical Oncology at the beginning of the 21st century
- Topic 3. Analysis of what is researched and published in Surgical Oncology
- Topic 4. Bases and objectives of Surgical Oncology
- Topic 5. Paradigms of surgical oncology in the 21st century
- Topic 6. Specific Aspects of research in surgical oncology
- Topic 7. Current status of cancer surgery in breast cancer
- Topic 8: Surgical oncology and colorectal cancer

## 4.4.Course planning and calendar

Calendar of face-to-face sessions and presentation of works

### Timetable

CALENDAR (Classroom 4. Building B): THURSDAY: 4, 11, 18, 25 March- 8, 15, 22 April

DISTRIBUTION OF PRESENTIAL SESSIONS and CLASSES: Classroom 4: 16h .:

March 4: Presentation / Basics of Surgical Oncology in the XXI century / Job Distribution / Tasks. Dr. José M<sup>a</sup> Miguelena

March 11, 18: Paradigms of Surgical Oncology. Advances. Research in Oncological Surgery. Dr. José M<sup>a</sup> Miguelena

March 25: Symposium with students / Exhibition of Works. Dr. José M<sup>a</sup> Miguelena

April 8: Surgical Oncology and Breast Cancer: Dr. Antonio Güemes Sánchez

April 15: Surgical Oncology and Colorectal Cancer. Dr. José M. Ramírez

April 22: FINAL EVALUATION / Survey / Delivery of Works

#### 4.5. Bibliography and recommended resources

- Oncología y Cirugía. Bases y principios. Martín Granados García  
Editorial: Manual Moderno . MEXICO 2013. ISBN: 9786074482867
- Cirugía Oncológica. Umberto Veronesi. Editorial Médica Panamericana. Madrid.1991.
- Oncología quirúrgica. MD Anderson Cancer Center  
Ed. Marban. Madrid 2005.ISBN: 9788471014542
- Surgical Oncology - Journal - Elsevier <https://www.journals.elsevier.com/surgical-oncology>
- Surgical Oncology Clinics of North America - Journal - Elsevier  
<https://www.journals.elsevier.com/surgical-oncology-clinics-of-no>

PUB MED <https://www.ncbi.nlm.nih.gov/pubmed/>

EMBASE <https://www.embase.com/login>

COCHRANNE [www.cochranelibrary.com/](http://www.cochranelibrary.com/)