



# UNIVERSITÀ DI PISA

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## SURGERY

### MASSIMO CHIARUGI

Anno accademico 2019/20  
CdS MEDICINE AND SURGERY  
Codice 016FF  
CFU 6

Moduli	Settore/i	Tipo	Ore	Docente/i
CLINICA CHIRURGICA	MED/18	LEZIONI	72	MASSIMO CHIARUGI MAURO FERRARI GABRIELE MATERAZZI

#### Learning outcomes

##### *Knowledge*

2069/5000 INTEGRATED COURSE OF SURGICAL CLINIC

#### CORE CURRICULUM

Pathology of healing processes in wounds and surgical incisions.  
Enteral and parenteral nutrition in surgery.  
Shock in surgery: gastrointestinal tract hemorrhages and intestinal occlusions.  
Immunoguided radio surgery, intraoperative and high frequency radiotherapy, interventional ultrasound.  
Clinic and presentation of the acute abdomen.  
Intraoperative strategic orientation systems: histopathology and hormonal dosages.  
Practical aspects of sepsis in surgery: sterility, prophylaxis and antibiotic therapy.  
Benign breast pathology and fibrocystic disease.  
Breast cancer surgery.  
The herniated disease.  
Obesity surgery.  
Diagnostic classification of the thyroid nodule.  
Integrated treatment of thyroid neoplasms.  
Euthyroid goiter surgery and hyperfunctioning.  
Surgical therapy of primary and secondary hyperparathyroidism.  
Retroperitoneal tumors.  
Neck swelling.  
The acute scrotum.  
Cryptorchidism and the integrated treatment of testicular neoplasms.  
Reflux disease therapies, functional and neoplastic pathologies of the esophagus.  
Gastric cancer.  
Portal hypertension.  
Acute and chronic pancreatitis: surgical aspects.  
Intestinal inflammatory pathology surgery.  
Diverticular diseases.  
Colon and rectum neoplastic pathology.  
Proctology: hemorrhoids, fissures, fistulas and prolapse.  
Treatment of primary and secondary neoplasms of the liver.  
Radical and palliative treatment of neoplastic obstructive jaundices.  
Therapeutic approaches to the lithiasic pathology of the biliary tract.  
Radical and palliative multidisciplinary therapy of pancreatic neoplasms.  
Pathophysiology and surgery of organ transplants.  
Kidney, liver and multi-organ transplantation: indications and limits.  
Principles and indications of surgery.  
Discussion of clinical cases in surgery (paradigms of more frequent clinical situations).

##### *Assessment criteria of knowledge*

The knowledge will be verified through the exam.



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For the purposes of assigning the final mark, expressed in thirtieths, the commission will evaluate the following aspects:

- ability of the student to establish connections between the topics covered in different chapters of the program
- autonomy in the identification of errors and their correction
- ability to independently use their knowledge and understanding of the teaching content to face an in-depth discussion on critical aspects related to the topics covered
- knowing how to present their conclusions clearly and logically.

### Syllabus

#### **SURGICAL CLINICAL MODULE**

##### **VASCULAR SURGERY TEACHING: PROF MAURO FERRARI**

#### **Clinical general overview of vascular diseases**

Clinical and instrumental diagnosis in aortic, peripheral arterial diseases and phlebology

#### **Obstructive arterial diseases of the lower limbs**

Chronic ischemia of the lower limbs (natural history; etiopathogenesis; diagnosis; treatment)

Acute ischemia of the lower limbs (etiopathogenesis; diagnosis; treatment)

#### **Aneurysmal diseases**

Abdominal aortic aneurysm (natural history; screening-diagnosis; surgical treatment)

Ruptured abdominal aortic aneurysm (natural history; emergency and elective management)

Aortic acute syndromes (natural history; differential diagnosis; surgical treatment)

#### **Phlebology**

Varicose veins of the lower limbs (pathophysiology; etiopathogenesis; diagnosis; treatment)

Deep vein thrombosis and pulmonary embolism (pathophysiology; etiopathogenesis; diagnosis; treatment)

#### **Artery to the head diseases**

Carotid stenosis (natural history; diagnosis; treatment)

Vertebrobasilar insufficiency (pathophysiology; etiopathogenesis; diagnosis; treatment)

Thoracic outlet syndrome (anatomy; etiopathogenesis; diagnosis; treatment)

#### **Visceral artery diseases**

Acute and chronic mesenteric ischemia (pathophysiology; etiopathogenesis; diagnosis; treatment)

Reno-vascular hypertension and chronic ischemic nephropathy (pathophysiology; etiopathogenesis; diagnosis; treatment)

Peripheral arterial aneurysms and pseudo-aneurysm (etiopathogenesis in brief; natural history; diagnosis; treatment)

### Bibliography

SABISTON TEXTBOOK OF SURGERY: THE BIOLOGICAL BASIS OF MODERN SURGICAL PRACTICE.

TOWNSEND C Jr., BEAUCHAMP RD, EVERS BM, MATTOX KL

Rutherford's Vascular Surgery, Eighth Edition.

Elsevier (2016) 20<sup>a</sup> edizione

CHIRURGIA GENERALE. Metodologia - Patologia - Clinica Chirurgica.

BELLANTONE R. – DE TOMA G. – MONTORSI M.

Edizioni Minerva Medica (2009)

CHIRURGIA. Volume 1: Basi teoriche e chirurgia generale; Volume 2: Chirurgia specialistica

DIONIGI R

Elsevier (2011), V edizione.

### Assessment methods

Oral exam with verification of learning through an interview on the topics of the program

### Notes

RECEPTION FOR STUDENTS

Prof. Mauro Ferrari receives by appointment fixed via

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Updated: 03/04/2020 12:10