



Integrated Course of
NEPHROLOGY AND UROLOGY
SSD MED/14, MED/24

DEGREE PROGRAMME: MEDICINE AND SURGERY (P11)
COORDINATOR: PROF. NICOLA LONGO
ACADEMIC YEAR 2025-2025

GENERAL INFORMATION – TEACHER REFERENCES

TEACHER: PROF. NICOLA LONGO
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Faculty	Position	Scientific Fields	Phone	Reception	E-mail
Paola Magri	teaching contract	Nephrology	To be defined	To be defined	To be defined
Nicola Longo	Associate Professor	Urology	0817462611	Monday 12:00-14:00 Building 5	nicola.longo@unina.it
Claudia Collà Ruvolo	RTDA	Urology	0817462611	Friday 12:00-14:00 Building 5	claudia.collaruvolo@unina.it

GENERAL INFORMATION about the course

TEACHING LANGUAGE: ENGLISH

CHANNEL (IF APPLICABLE): 1

YEAR OF THE DEGREE PROGRAMME: IV

SEMESTER: II

CFU: 7 (4 MED14, 1 MED24, 2 CLINICAL CLERKSHIP)

REQUIRED PRELIMINARY COURSES

there are no required preliminary courses

PREREQUISITES

For a proper understanding of the topics discussed in the Integrated Course, students should have acquired general knowledge of the anatomy and physiology, cancer pathogenesis and knowledge of the mechanisms underlying human diseases.

LEARNING GOALS

The aim of the course is to learn advanced knowledge regarding the pathogenesis, the clinical manifestations, the prognostic and therapeutic implications of the nephrological and urological diseases, both malignant and non-malignant. Students will also be capable to suggest the best therapeutic approach (medical, radiotherapeutic, surgical), also considering the benefit-risk ratio and the clinical context.

EXPECTED LEARNING OUTCOMES

Students will acquire the fundamental knowledge that will enable them to understand the underlying mechanisms of the nephrological and urological diseases, both malignant and non-malignant. The student must, at the end of the course:

- knowledge di symptoms, signs, lab tests and other tests in nephrology and urology*
- how to collect the medical history*
- knowledge di diseases and syndromes in nephrology and urology*
- fundamentals of therapy (non-pharmacological, pharmacological and surgical) in nephrology and urology, including fundamentals of dialysis and kidney transplant*
- knowledge of benefit/risk ratio in diagnostic procedures and treatments in nephrology and urology*
- knowledge of the informed consent in nephrology and urology*

Knowledge and understanding

The course is mainly focused on the pathogenesis, clinical manifestations and therapeutic management of the main nephrological and urological diseases, both malignant and non-malignant. The student must, at the end of the course:

- knowledge and comprehension of physiopathology of diseases of the kidney and of the urogenital apparatus*

Applying knowledge and understanding

Through the theoretical and practical notions provided from the course, students should develop critical thinking skills and should be capable to autonomously deepen their knowledge and keep up to date of nephrological and urological diseases, both malignant and non-malignant.

At the end of the course, students should fluently discuss all the learned notions, using the most appropriate terminology and should also be capable to communicate, with a simple but comprehensive and accurate language, the main informations about nephrological and urological diseases to non-experts (i.e. patients)

COURSE CONTENT/SYLLABUS

Nephrology:

- fundamentals of kidney physiology
- functional and morphological assessment of the kidney
- glomerulopathies
- hypertension and kidney
- pregnancy and kidney
- diabetic nephropathy
- cystic nephropathies
- tubulo-interstitial nephropathies
- calcium-phosphorus equilibrium
- urinary stone disease
- sodium equilibrium and edema
- potassium and acid-base equilibrium
- acute kidney failure
- chronic kidney failure
- fundamentals of dialysis
- kidney transplant.

Urology:

- introduction to the course
- fundamentals of symptomatology and imaging of the urogenital apparatus
- Urinary tract infections
- benign prostatic hyperplasia
- prostate cancer
- urinary stone disease
- infertility
- erectile dysfunction
- Benign scrotal pathology (injuries and emergencies of the uro-genital apparatus ,twisting, priapism, haematuria, urine retention)
- urine incontinence
- malformations of the uro-genital apparatus (reflux, pielo-ureteral joint disease, varicocele, ureterocele , megauretere, hypospadias, epispadias, estrophia)
- tumors of the upper urinary tract
- tumors of the bladder
- kidney tumors
- testis tumors
- penis tumors
- urological aspects of kidney transplant.

TEACHING ACTIVITIES

Week	Day/Hour	Lessons/Seminars	Teacher
1°W 10 – 14 mar 2025	Wed 12/03 13:00 – 15:00	Urology: - introduction to the course And Prostate Cancer	Nicola Longo
	Fry 14/03 15:00-17:00	Nephrology: Fundamentals of kidney physiology	Paola Magri
2°W 17- 21 mar 2025	Wed 19/03 13:00 – 15:00	Urology: Bladder Cancer	Claudia Collà Ruvolo
	Fry 21/03 15:00-17:00	Nephrology: Functional and morphological assessment of the kidney	Paola Magri
3°W 24 - 29 mar. 2025	Wed 26/03 13:00 – 15:00	Urology: Kidney tumors and upper urinary tract urothelial carcinoma	Nicola Longo
	Fry 28/03 15:00-17:00	Nephrology: Glomerulopathies	Paola Magri
4°W 31 Mar – 4 apr. 2025	Wed 02/04 13:00 – 15:00	Urology: Benign scrotal pathology	Claudia Collà Ruvolo
	Fry 04/04 15:00-17:00	Nephrology: Hypertension and kidney Pregnancy and kidney	Paola Magri
5°W 7-11 apr. 2025	Wed 09/04 13:00 – 15:00	Urology: Testis tumors and penis tumors	Claudia Collà Ruvolo
	Fry 11/04 15:00-17:00	Nephrology: Diabetic nephropathy, Tubulo- interstitial nephropathies Cystic nephropathies	Paola Magri
6°W 14 – 18 apr. 2025	Wed 16/04 13:00 – 15:00	Urology: Benign prostate hyperplasia and prostatitis	Nicola Longo
	Fry 18/04 15:00-17:00	Nephrology: Calcium - phosphorus equilibrium Urinary stone disease	Paola Magri
7°W 21 - 25 apr. 2025	Wed 23/04 13:00 – 15:00	Urology: Urinary tract infections	Claudia Collà Ruvolo
	Fry 25/04 Holidays		
8°W 28 apr - 2 may. 2025	Wed 30/04 13:00 – 15:00	Urology: Tumors of the upper tract	Claudia Collà Ruvolo
	Fry 02/05 15:00-17:00	Nephrology: Acute kidney failure	Paola Magri
9°W 5 - 9 may 2025	Wed 07/05 13:00 – 15:00	Urology: Urinary Incontinence and urodynamics	Claudia Collà Ruvolo
	Fry 09/05 15:00-17:00	Nephrology: Chronic kidney failure	Paola Magri
10°W 12-16 may 2025	Wed 14/05 13:00 – 15:00	Urology: Infertility and sexual dysfunctions	Nicola Longo
	Fry 16/05 15:00-17:00	Nephrology: Sodium equilibrium and edema Potassium and acid-base equilibrium	Paola Magri
11°W 19 - 23	Wed 21/05 13:00 – 15:00	Urology: Urolithiasis	Claudia Collà Ruvolo

may 2025	Fry 23/05 15:00-17:00	Nephrology: Fundamentals of dialysis and kidney transplant	Paola Magri
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READINGS/BIBLIOGRAPHY

Nephrology: "Harrison's Principles of Internal Medicine" and/or "Goldman-Cecil Medicine"

Urology: Jack W. McAninch, Tom F. Lue Smith and Tanagho's General Urology, 19th Edition

TEACHING METHODS

The course will be based for the 75% of the course on lectures with the support of power points and on the 25% on Clinical Clerkships.

EXAMINATION/EVALUATION CRITERIA

a) Exam type:

Exam type	
written and oral	
only written	
only oral	X
project discussion	
other	

b) Evaluation pattern:

The oral exam consists in 3 questions for each module. The final mark will be weighted on CFU of each module and therefore will be made up of: Nephrology 50% and Urology 50%.