

EAA Andrology Training Centre  
Centre Report

**2024**



**Department of Experimental Medicine  
Medical Physiopathology Section  
“Sapienza” University of Rome**

**CENTRE REPORT**

### **History of Centre**

The history of the Department dates back to 1968 when professor C. Conti was transferred to the former Institute of Malariology, which was later renamed Medical Special Pathology in 1969 and then V Medical Clinic.

In 1986 professor Conti's first student, professor Fabbrini became the director of the Institute and promoted its transformation in the present Department. Between 2001 and 2006 the charge of director was taken by professor Isidori. In 2006 professor Andrea Lenzi became the director of the Department.

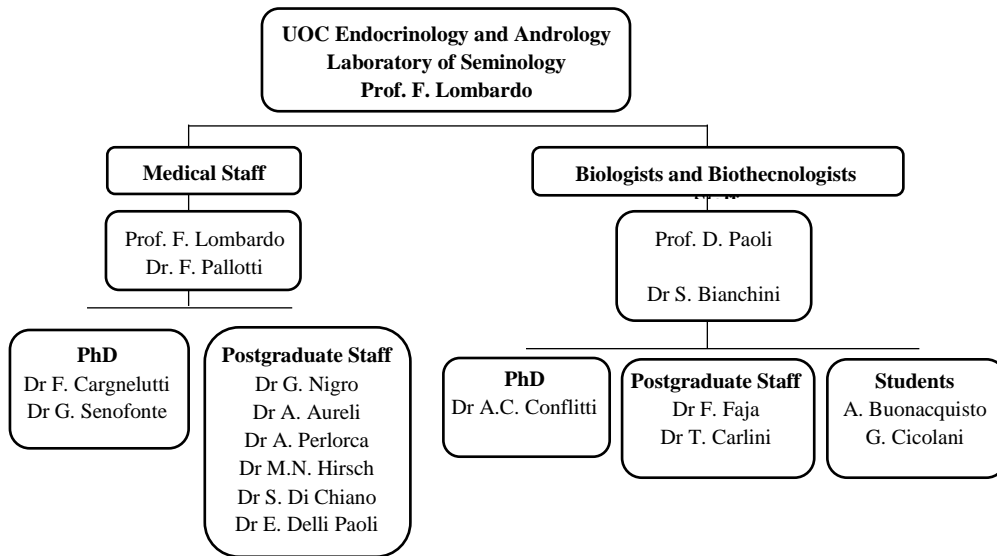
The Department of Experimental Medicine was established in 2010 after the reorganization of the Departments of Sapienza University, and is composed by the personnel previously belonging to the former Departments of "Experimental Medicine and Pathology" and "Medical Pathophysiology". At present, our faculty includes 81 members (17 Full Professors, 27 Associate Professors and 37 Researchers) of the School of Medicine and Dentistry, divided in two sections of General Pathology and Clinical Pathology and Medical Pathophysiology, Food Science and Endocrinology, aimed to promote translational and multidisciplinary research activities.

Our center was founded in 1995 (Prof. Aldo Isidori) and was first accredited in the same year. Direction was undertaken on 2001 by Prof. Franco Dondero, on 2010 by Prof. Andrea Lenzi and on 2017 by Prof. Francesco Lombardo.

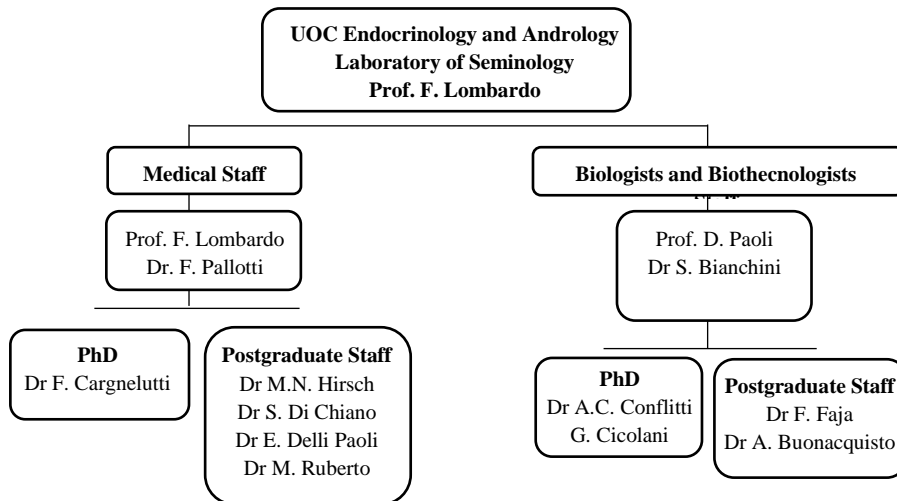
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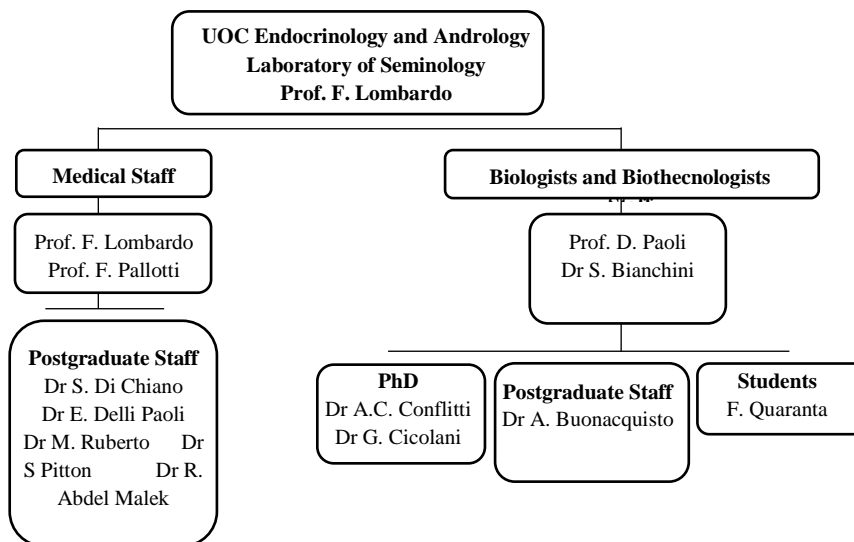
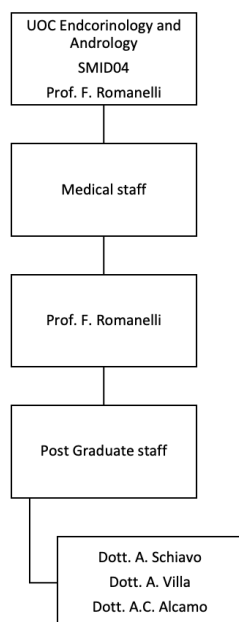
**Organization of Centre Director Prof. Francesco Lombardo, PhD, M.D.**

**Laboratory of Seminology – Sperm Bank “Loredana Gandini” 2021**



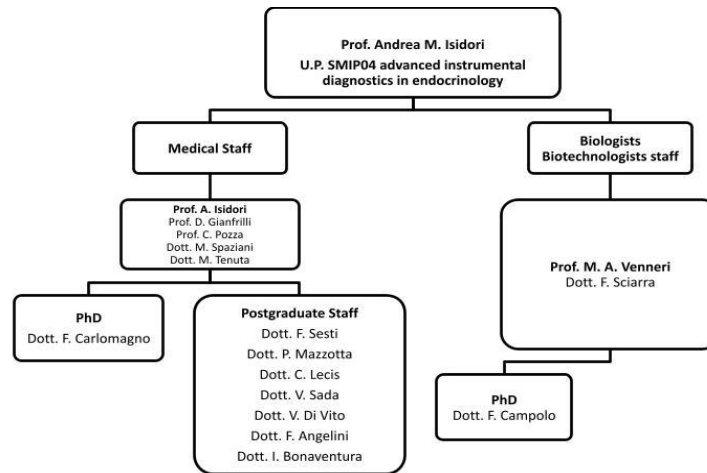
**Laboratory of Seminology – Sperm Bank “Loredana Gandini” 2022**



**Laboratory of Seminology – Sperm Bank “Loredana Gandini” 2023**

**UOC ENDOCRINOLOGY AND ANDROLOGY SMID04 PROF. ROMANELLI 2021 –2022  
- 2023**


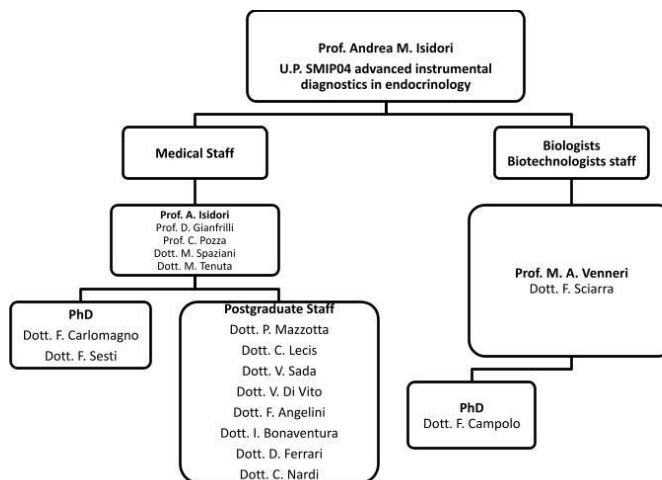
## Advanced Instrumental Diagnostics in Endocrinology SMIP04 PROF ISIDORI

2021



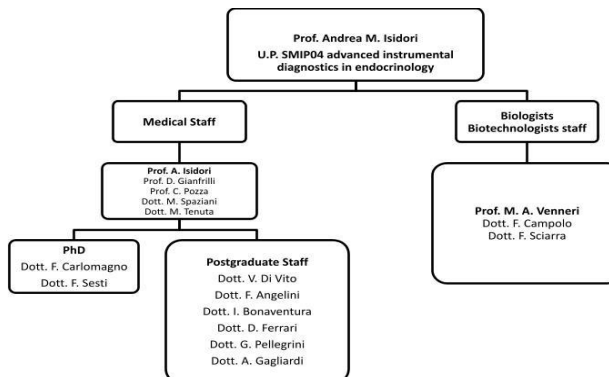
## Advanced Instrumental Diagnostics in Endocrinology SMIP04 PROF. ISIDORI

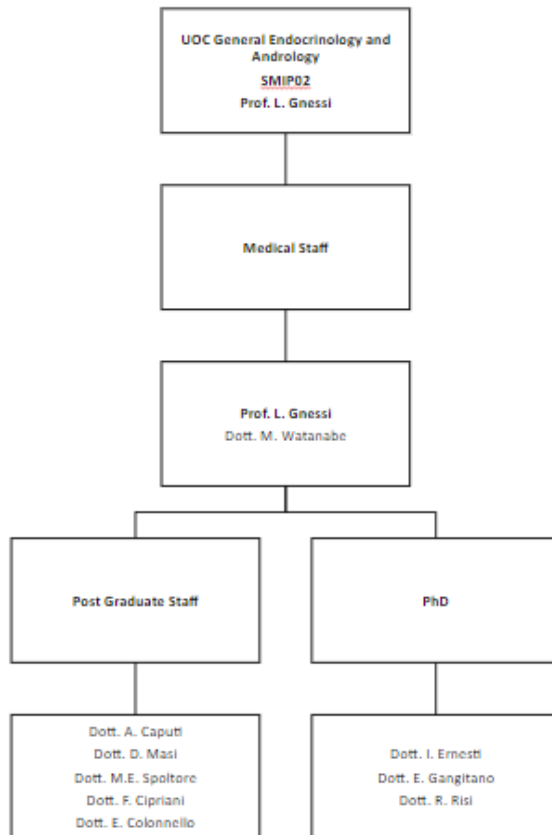
2022

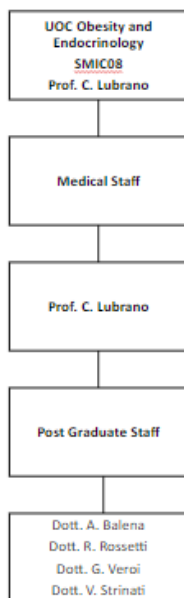


## Advanced Instrumental Diagnostics in Endocrinology SMIP04 PROF. ISIDORI

2023

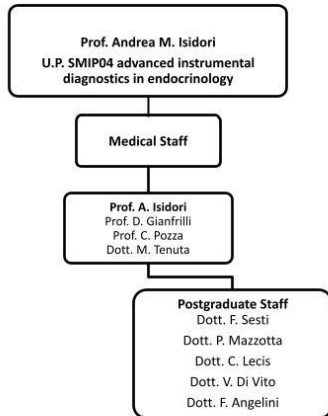


**UOC GENERAL ENDOCRINOLOGY AND ANDROLOGY SMIP 02 Prof. GNESSI 2021-2022-2023**

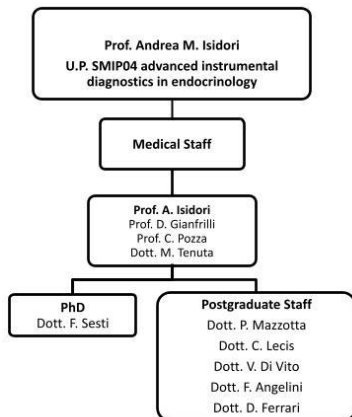
**UOC OBESITY AND ENDOCRINOLOGY SMIC08 PROF. LUBRANO 2021 -2022 -2023****UOC OBESITY AND ENDOCRINOLOGY SMIC08 PROF. MARIANI 2021 -2022 -2023**



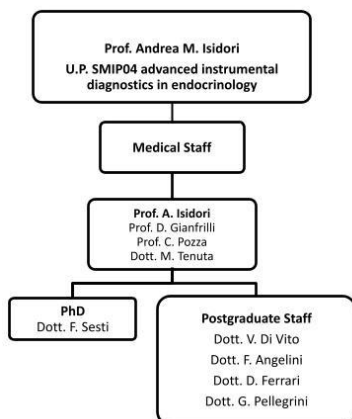
## Diagnostic Ultrasound Division 2021



## Diagnostic Ultrasound Division 2022



## Diagnostic Ultrasound Division 2023



**Educational activities**

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- Faculty of Medicine and Surgery: Course in Endocrinology and Medicine of Reproduction
  - Degree in Medical, Molecular and Cellular Biotechnology
  - School of Endocrinology and Metabolism
  - PhD in Endocrinological Sciences (Course of research in Endocrinology and course of research in Biotechnology of Human Reproduction)
  - EAA Andrological Ultrasonography school
  - SIEAMS Andrological Ultrasonography school
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**Research activities**

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- Clinical Andrology
  - Male and couple infertility
  - Seminology and Sperm Physiology
  - Immunology of Reproduction and Sperm Immunology
  - Sexual dysfunctions
  - Testicular cancer
  - Local control of testicular function
  - Hypogonadism
  - Transgenderism
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- 

**Clinical activities**

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- Outpatient services and Day Hospital for andrological and endocrinological patients.
  - Active collaborations with Divisions of Diabetology, Oncology/Haematology, Pediatrics, Dermatology, Urology, Biochemistry. Gynecology, ART Center
  - Testis Unit for testicular cancer patient and Oncofertility outpatient service
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**Name and address of Centre**

Andrology Center of the Department of Experimental Medicine – Section of Medical  
 Physiopathology, Food Sciences and Endocrinology, Policlinico “Umberto I”, ‘Sapienza’  
 University of Rome, 00161 Rome, Italy

**Type of Centre**

University   
 University Hospital   
 Private Centre   
 Other (please specify) \_\_\_\_\_

**1. Director****Francesco Lombardo**

Academician  Affiliated Member  Clinical Andrologist

**2a. Clinical responsible**

Francesco Lombardo

Academician  Affiliated Member  Clinical Andrologist

**3. Present Staff (Senior Scientists)**

Name

1) Name Andrea Marcello Isidori  
 Degree MD, PhD  
 Speciality Endocrinology

Academician  Affiliated Member  Clinical Andrologist

2) Name Lucio Gnessi  
 Degree MD  
 Speciality Endocrinology

Academician  Affiliated Member  Clinical Andrologist

3) Name Francesco Romanelli  
 Degree MD  
 Speciality Endocrinology

Academician  Affiliated Member  Clinical Andrologist

4) Name Elisa Giannetta  
 Degree MD  
 Speciality Endocrinology

Academician  Affiliated Member  Clinical Andrologist

5) Name Donatella Paoli  
 Degree BSc  
 Speciality Clinical Pathology

Academician  Affiliated Member  Clinical Andrologist

6) Name Daniele Gianfrilli  
 Degree MD  
 Speciality Endocrinology

Academician  Affiliated Member  Clinical Andrologist

7) Name Matteo Spaziani  
 Degree MD  
 Speciality Endocrinology

Academician  Affiliated Member  Clinical Andrologist

8) Name Carlotta Pozza  
 Degree MD  
 Speciality Endocrinology

Academician  Affiliated Member  Clinical Andrologist

9) Name Stefania Mariani  
 Degree MD  
 Speciality Endocrinology

Academician  Affiliated Member  Clinical Andrologist

10) Name Carla Lubrano  
 Degree MD  
 Speciality Endocrinology

Academician  Affiliated Member  Clinical Andrologist

11) Name Emilia Sbardella  
 Degree MD  
 Speciality Endocrinology

Academician  Affiliated Member  Clinical Andrologist

**Insert any additional staff below (if required)**

MD/Biologists/Chemists

1) Name Francesco Pallotti  
 Degree MD, PhD  
 Speciality Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

2) Name Marianeve Hirsh  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

3) Name Alessia Aureli  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

4) Name Giulia Nigro  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

5) Name Alessandro Perlorca  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full time

Academician  Affiliated Member  Clinical Andrologist

6) Name Gaia Cicolani  
 Degree BSc  
 Speciality PhD student in Endocrinology  
 Full time/part time Full time

Academician  Affiliated Member  Clinical Andrologist

7)

Name Stefano Colangelo  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full time

8) Name Giulia Senofonte  
 Degree MD  
 Speciality PhD student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

9) Name Francesco Cargnelutti  
 Degree MD  
 Speciality PhD student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

10) Name Silvia Di Chiano  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

11) Name Enrico Delli Paoli  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

12) Name Anna Chiara Conflitti  
 Degree BSc  
 Speciality PhD student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

13) Name Alessandra Caputi  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

14) Name Angela Balena

Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

15) Name Davide Masi  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

16) Name Maria Elena Spoltore  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

17) Name Rebecca Rossetti  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

18) Name Fiammetta Cipriani  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

19) Name Elena Colonnello  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

20) Name Gabriele Veroi  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician     Affiliated Member     Clinical Andrologist

21) Name Giorgia Maria Baldazzi  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician     Affiliated Member     Clinical Andrologist

22) Name Vittoria Strinati  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician     Affiliated Member     Clinical Andrologist

23) Name Renata Risi  
 Degree MD  
 Speciality PhD Student in Endocrinology  
 Full time/part time Full Time

Academician     Affiliated Member     Clinical Andrologist

24) Name Elena Gangitano  
 Degree MD  
 Speciality PhD Student in Endocrinology  
 Full time/part time Full Time

Academician     Affiliated Member     Clinical Andrologist

25) Name Ilaria Ernesti  
 Degree MD  
 Speciality PhD Student in Endocrinology  
 Full time/part time Full Time

Academician     Affiliated Member     Clinical Andrologist



26) Name Anna Schiavo  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

27) Name Alice Villa  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

28) Name Anna Concetta Alcamo  
 Degree MD  
 Speciality Post graduate student in Endocrinology  
 Full time/part time Full Time

Academician  Affiliated Member  Clinical Andrologist

**Insert any additional staff below (if required)**

**PhD Students (2021-22-23)**

1) Name Francesco Cargnelutti  
 2) Name Giulia Senofonte  
 3) Name Anna Chiara Conflitti  
 4) Name Gaia Cicolani  
 5) Name Renata Risi  
 6) Name Elena Gangitano  
 7) Name Ilaria Ernesti  
 8) Name Francesco Carlomagno  
 9) Name Franz Sesti  
 10) Name Valentina Sada  
 11) Name \_\_\_\_\_  
 12) Name \_\_\_\_\_

**Nurses**

1) Name Cinzia Estivi  
 2) Name Antonella Bellisari  
 3) Name Rossana Principato  
 4) Name Francesco Impellicceri

5) Name	Elena Fasanella
6) Name	Roberto Ferri
7) Name	Damiano Deborah
8) Name	Anna Maria Ruggeri
9) Name	Marcotullio Ornella
10) Name	Ippoliti Dalia
11) Name	Servili Isabella
12) Name	Pawlowska Lidia ELizbieta
13) Name	Iannotta Amedeo

**Laboratory Technicians**

1) Name	Antonella Anzuini
2) Name	Pediconi Natalia
3) Name	Cristina Piccheri
4) Name	Flavio Rizzo

**Administrative Personnel**

1) Name	Lucia Liani
2) Name	Donatella Mergiotti
3) Name	Eva Ambroselli
4) Name	Micaela Notarianni
5) Name	Anastasia Tarquini
6) Name	Angeletti Mariuccio
7) Name	Andreina Altomare
8) Name	Lauretta Costabile
9) Name	D'Onofrio Carolina
10) Name	Di Mino Massimiliano
11) Name	Raffaella Rinaldi
12) Name	Armando Lovardi
13) Name	Privitera Maria Cristina
14) Name	Maria Vittoria De Luise
15) Name	Monteverde Katia
16) Name	Scardigli Giacomo
17) Name	Roberta Vincenzoni

#### 4. Clinical Activity (SOMMARE AI NUMERI GIA' SCRITTI)

##### A. Outpatients: Consultations per year in the last 3 years

	2021	2022	2023
New patients *	1907	1871	1827
Follow-up patients *	3072	3151	3276
Total of consultations	4980	5022	5103

Type of patients in the last years (%)	2021	2022	2023
Infertility	35%	35%	38%
Erectile dysfunction	27.4%	28.3%	27.7%
Congenital Hypogonadotropic Hypogonadism**	2%	2%	2%
Secondary Osteoporosis (from hypogonadism)	7.1%	5.6%	6.1%
Klinefelter	2%	2.1%	1.9%
Gynaecomastia	2%	1%	1%
Cryptorchidism	2.2%	2.0%	2.0%
Male sex accessory gland infections	6%	7%	5%
Testicular tumours	3.2	3.8	4.1
Disorders of gender identity	10%	10%	11%
Other (ejaculation disorders, other sexual disfunctions, IPP,...)	7.1	7.5	6.5

\* New patients and follow-up patients have been reduced in number as a result of the partial closure of ambulatory services due to pandemic Sars-Cov2.

\*\*Evaluation and diagnosis of congenital forms of HH is performed in collaboration with Paediatric Endocrinology Dept. from "Ospedale Pediatrico Bambino Gesù"

##### B. Ultrasound (testis, penile, prostate) per SMIP04

	2021	2022	2023
Total	700	800	1000

##### C. Andrological surgery procedures (performed in collaboration with Surgical Department)

	2021	2022	2023
Testicular biopsies	-	2	3
Varicocele ligation	4	5	5

Varicocele scleroembolization	29	36	45
Prostate biopsies	/	/	/
BPH	/	/	/
Prostate cancer	/	/	/
Vasectomy	/	/	/
Vaso-vasostomy	1	1	1
Other	/	/	/

\* Testicular biopsies have been reduced in number due to pandemic Sars-Cov2; The number of testicular biopsies has increased exponentially since November 2023; in fact, the service is now back to full capacity: one day a week is now dedicated exclusively to testicular biopsies: From November 2023 to October 2024, 20 testicle biopsies were performed.

#### 5. A. Andrology laboratory activity

	2021	2022	2023
Semen analyses	2208	2148	2324
Sperm antibodies	106	139	126
Seminal markers (Biochemical assays, sperm preparation, sperm vitality )	482	487	567

#### 5. B. Andrology laboratory activity

Sperm banking donors Yes  No

Sperm banking cancer patients Yes  No

<i>If yes:</i>			
	2021	2022	2023
Number of samples	387	391	368

5. C. Histopathological evaluation of biopsies Yes  No

5. D. Reproductive Hormones Assays Yes  No

If yes please specify type of assays and number of samples in the last year

Total Hormone Assay in the last year (2023) 26196

Reproductive Hormone Assay 6906

(FSH, LH, testosterone, SHBG, prolactin)

TSH	Chemiluminescence assays
FT4	Chemiluminescence assays
FT3	Chemiluminescence assays
ATG	Chemiluminescence assays
ATPO	Chemiluminescence assays
Thyroglobulin	Chemiluminescence assays
FSH	Chemiluminescence assays
LH	Chemiluminescence assays

PRL	Chemiluminescence assays
TT	Chemiluminescence assays
E2	Chemiluminescence assays
PG	Chemiluminescence assays
DHEAS	Chemiluminescence assays
SHBG	Chemiluminescence assays
Cholecalciferol	Chemiluminescence assays
Cortisol	Chemiluminescence assays
TRAB	Chemiluminescence assays
ACTH	RIA
GH	RIA
$\Delta 4$ androstenedione	RIA
17-OH Progesterone	RIA
IGF1	RIA
Osteocalcin	RIA
Calcitonin	RIA
PTH	RIA
Aldosterone	RIA
Inhibin B	ELISA

**5. E. Y chromosome microdeletions according to EAA/EMQN guidelines \***

Yes  No

56

*If yes* number of tests in the past year

**Participation to the EAA quality control scheme?**

Yes  No

*If no*, specify if available in another lab of the same hospital

Yes  No

Blood karyotyping

Yes  No

*If no*, specify if available in another lab of the same hospital

Yes  No

Other genetic tests (please specify)

N/A

## 6. Collaborations with other Clinical Units of the University/Hospital

**IVF Unit** Yes  No

*If yes* please specify: Children, Endocrinology, IVF, Urology, Genetics, Pathology

Dept. of Gynaecology

Urology Clinic Yes  No

Endocrine Clinic Yes  No

Genetics Lab/Unit Yes  No

Paediatric Unit Yes  No

Central Hospital Laboratory Yes  No

Private Centres Yes  No

*If yes* please specify:

N/A

## 7. Clinical teaching activity

Duration of training (years):

	Number
A: Trainees in the last five years	35
B: Trainees who passed EAA-ESAU\exam for Clinical Andrologist in the last 5 yrs	4
C: Trainees working in the centre preparing to pass the EAA-ESAU examination	0
D: PhD Students	30
E: Medical Students	22
F: Other students (MSc)	8

**8. Formal Andrology teaching program** Yes  No

*If yes:* specify duration (years/months): Years  Months

	Hours of formal teaching per year	Professional training (weeks/months)
Medical Students	20	1 w / 6 m
PhD Students	44	4 w / 11 m
Post Graduate students	100	4 w / 11 m
Trainees	100	4 w / 11 m
Other degrees: Medical, Molecular and Cellular Biotechnology	20	1 w / 10 m

**9. Research Activity** (maximum 1 page)

*The full list of publications (years 2021- 2023) are presented at the end of this report.*

**10. Research Funding**

Please specify the amount of available funds in the last 3 years and their source (Government, European Union, University, Local Government, Pharmaceutical Industries, Banks, Foundations....)

<b>Year</b>	2022
<b>Total amount (€)</b>	490000
<b>Funding Source(s)</b>	Sapienza Ateneo

<b>Year</b>	2023
<b>Total amount (€)</b>	29000
<b>Funding Source(s)</b>	Sapienza Ateneo

<b>Year</b>	2023
<b>Total amount (€)</b>	1437000
<b>Funding Source(s)</b>	Ministero della salute

<b>Year</b>	2023
<b>Total amount (€)</b>	94471
<b>Funding Source(s)</b>	MIUR-prin PNRR 2022

<b>Year</b>	2023
<b>Total amount (€)</b>	61165
<b>Funding Source(s)</b>	MIUR-prin 2022

<b>Year</b>	2020
<b>Total amount (€)</b>	108212,42
<b>Funding Source(s)</b>	PRIN 2020

<b>Year</b>	2023
<b>Total amount (€)</b>	15000
<b>Funding Source(s)</b>	Bando cooperazione paesi in via di sviluppo

<b>Year</b>	2022
<b>Total amount (€)</b>	88460
<b>Funding Source(s)</b>	Programmi di Ricerca Scientifica di Rilevante Interesse Nazionale

<b>Year</b>	2022
<b>Total amount (€)</b>	78319
<b>Funding Source(s)</b>	Programmi di Ricerca Scientifica di Rilevante Interesse Nazionale PNRR

<b>Year</b>	
<b>Total amount (€)</b>	10602.73
<b>Funding Source(s)</b>	Sapienza Ateneo

<b>Year</b>	2022
<b>Total amount (€)</b>	10000
<b>Funding Source(s)</b>	Sapienza Ateneo

<b>Year</b>	2023
<b>Total amount (€)</b>	1200
<b>Funding Source(s)</b>	Avvio alla ricerca

<b>Year</b>	2021
<b>Total amount (€)</b>	20000
<b>Funding Source(s)</b>	Pfizer

<b>Year</b>	2023
<b>Total amount (€)</b>	1000
<b>Funding Source(s)</b>	Avvio alla ricerca

<b>Year</b>	2023
<b>Total amount (€)</b>	60000
<b>Funding Source(s)</b>	Medie attrezzature scientifiche

<b>Year</b>	2022
<b>Total amount (€)</b>	425000
<b>Funding Source(s)</b>	Grandi attrezzature scientifiche

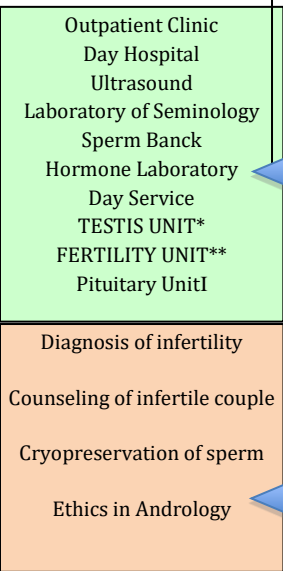
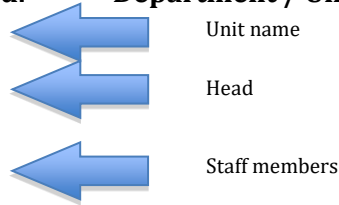
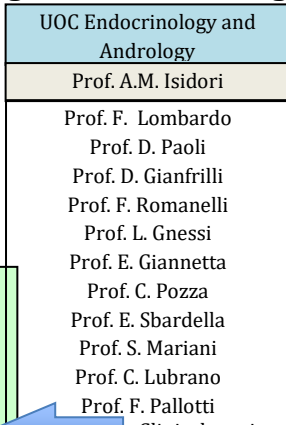
<b>Year</b>	2021
<b>Total amount (€)</b>	490000
<b>Funding Source(s)</b>	Grandi attrezzature scientifiche



**ORGANIZATION CHARTS**

**Organization charts legend:**

**Department / Unit Structure**



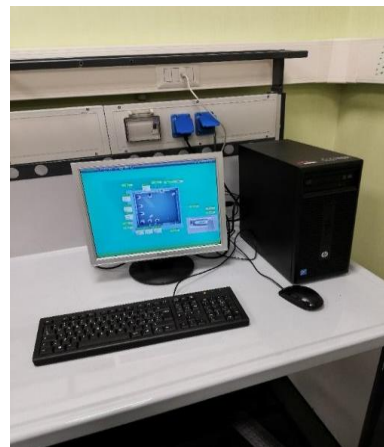
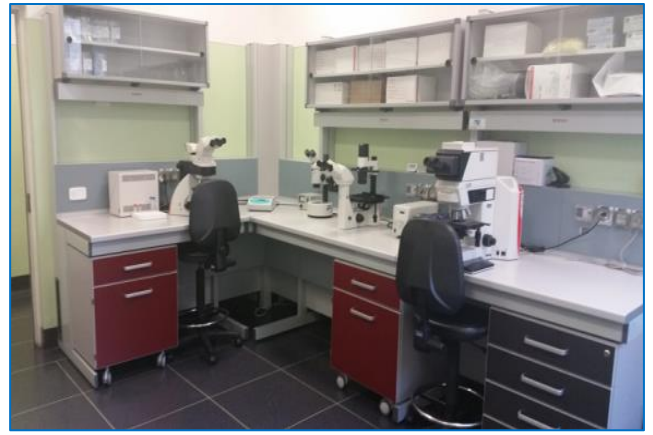
Clinical services

Contribution to EAA training program

- \*TESTIS UNIT**  
 multidisciplinary team for diagnosis and treatment of testicular cancer:
- Andrologist/ Endocrinologist
  - Seminology
  - Oncologist
  - Radiotherapist
  - Urologist
  - Radiologist
  - Hormone Laboratory
  - Tumor Markers Laboratory
  - Anatomo-Pathology

- \*\*FERTILITY UNIT**  
 multidisciplinary team for diagnosis and treatment of couples infertility:
- Andrologist/ Endocrinologist
  - Seminology
  - Gynecologists
  - Urologist
  - Hormone Laboratory
  - Biologists and biotechnologists

CENTRE PHOTOS



**FULL LIST OF PUBLICATIONS (with IF) of staff members from the last 5 years**

Authors – Title – DOI/PMID
Delli Paoli E, Di Chiano S, Paoli D, Lenzi A, Lombardo F, Pallotti F. Androgen insensitivity syndrome: a review. <i>J Endocrinol Invest</i> . 2023 Nov;46(11):2237-2245. doi: 10.1007/s40618-023-02127-y. Epub 2023 Jun 10. PMID: 37300628.
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