

EAA Andrology Training Centre
Centre Report

2017



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.

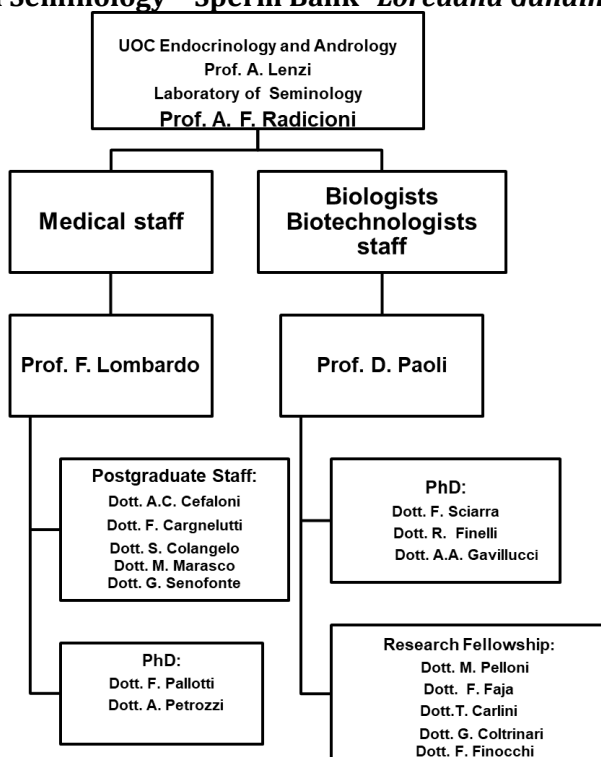
In 1986 professor Conti's first student, professor Fabbrini became the director of the Institute and promoted its transformation in the present Department. Between 2001 and 2006 the charge of director was taken by professor Isidori. In 2006 professor Andrea Lenzi became the director of the Department.

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.

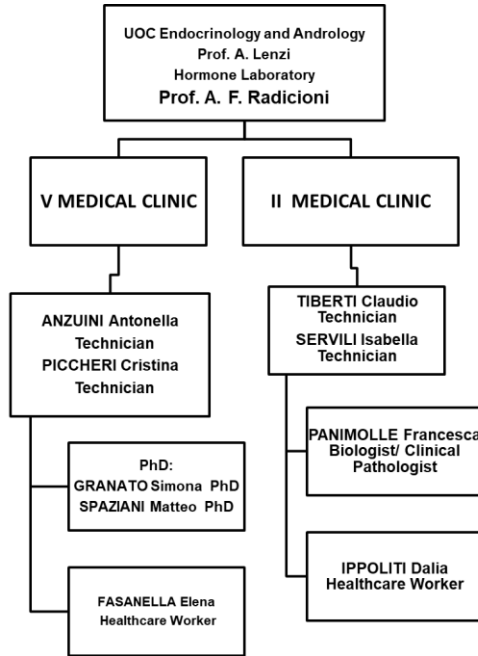
Our center was founded in 1995 (Director Prof. Aldo Isidori) and was first accredited in the same year. Then, further site-visits for re-accreditation were performed in 2001 (Director Prof. Franco Dondero) and 2010 (Director Prof. Andrea Lenzi).

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

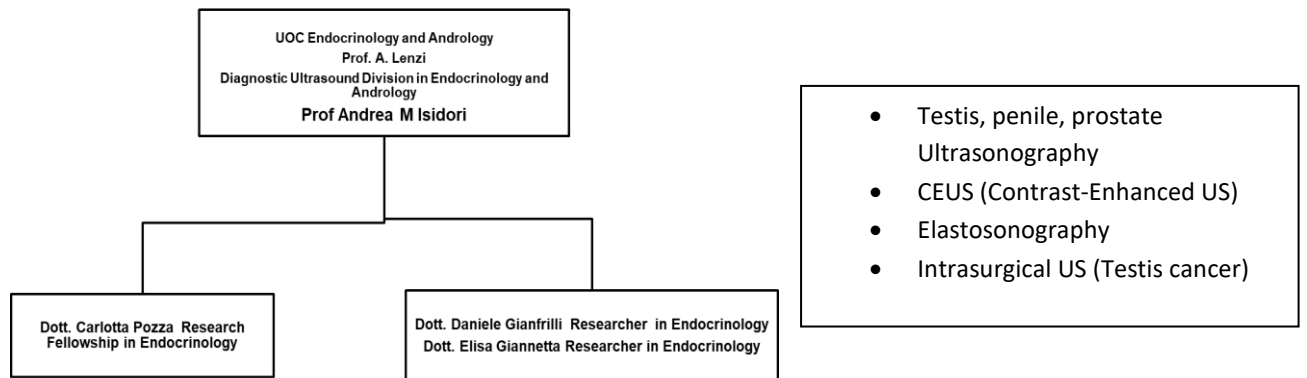
Laboratory of Seminology – Sperm Bank “Loredana Gandini”



Hormone Laboratory



Diagnostic Ultrasound Division



Educational activities

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

- 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
-

Clinical activities

Outpatient services and Day Hospital for andrological and endocrinological patients. Active collaborations with Divisions of Diabetology, Oncology/Haematology, Pediatrics, Dermatology, Urology, Biochemistry. Recently activated Testis Unit for testicular cancer patient and Oncofertility outpatient service.

Name and address of Centre

Laboratory of Seminology and Sperm Bank "*Loredana Gandini*" - 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, PhD, M.D.

Academician Affiliated Member Clinical Andrologist

2. Clinical responsible

Andrea Lenzi, M.D.

Academician Affiliated Member Clinical Andrologist

3. Present Staff (Senior Scientists)

1) Name Francesco Lombardo
 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 Antonio Radicioni
 Degree MD
 Speciality Endocrinology

Academician Affiliated Member Clinical Andrologist

5) Name Andrea Isidori
 Degree MD
 Speciality Endocrinology

Academician Affiliated Member Clinical Andrologist

6) Name Donatella Paoli
 Degree BSc
 Speciality Clinical Pathology

Academician Affiliated Member Clinical Andrologist

7) Name Daniele Gianfrilli
 Degree MD
 Speciality Endocrinology

Academician Affiliated Member Clinical Andrologist

8) Name Elisa Giannetta
 Degree MD
 Speciality Endocrinology

Academician Affiliated Member Clinical Andrologist

9) Name Stefania Mariani
 Degree MD
 Speciality Endocrinology

Academician Affiliated Member Clinical Andrologist

Insert any additional staff below (if required)

MD/Biologists/Chemists

1) Name Tania Carlini
 Degree BSc
 Speciality _____
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

2) Name Fabiana Faja
 Degree BSc
 Speciality _____
 Full time/part time Full Time

Academician Affiliated Member Clinical Andrologist

3) Name Giulia Coltrinari
 Degree BSc
 Speciality _____
 Full time/part time Full Time

Academician Affiliated Member Clinical Andrologist

4) Name Federica Finocchi
 Degree BSc
 Speciality _____
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

5) Name Francesca Panimolle
 Degree BSc
 Speciality Clinical Pathology
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

6) Name Carla Di Dato
 Degree MD
 Speciality Endocrinology
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

7) Name Chiara Graziadio
 Degree MD
 Speciality Endocrinology
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

8) Name Angela Cefaloni
 Degree MD
 Speciality Post graduate student in Endocrinology
 Full time/part time _____

Academician Affiliated Member Clinical Andrologist

9) Name Giulia Senofonte
 Degree MD

	Speciality	<u>Post graduate student in Endocrinology</u>	
	Full time/part time	<u></u>	
Academician	<input type="checkbox"/>	Affiliated Member	<input type="checkbox"/>
		Clinical Andrologist	<input type="checkbox"/>
10)	Name	<u>Marco Marasco</u>	
	Degree	<u>MD</u>	
	Speciality	<u>Post graduate student in Endocrinology</u>	
	Full time/part time	<u></u>	
Academician	<input type="checkbox"/>	Affiliated Member	<input type="checkbox"/>
		Clinical Andrologist	<input type="checkbox"/>
11)	Name	<u>Francesco Cargnelutti</u>	
	Degree	<u>MD</u>	
	Speciality	<u>Post graduate student in Endocrinology</u>	
	Full time/part time	<u></u>	
Academician	<input type="checkbox"/>	Affiliated Member	<input type="checkbox"/>
		Clinical Andrologist	<input type="checkbox"/>
12)	Name	<u>Stefano Colangelo</u>	
	Degree	<u>MD</u>	
	Speciality	<u>Post graduate student in Endocrinology</u>	
	Full time/part time	<u></u>	
Academician	<input type="checkbox"/>	Affiliated Member	<input type="checkbox"/>
		Clinical Andrologist	<input type="checkbox"/>
13)	Name	<u>Natascia Tahani</u>	
	Degree	<u>MD</u>	
	Speciality	<u>Post graduate student in Endocrinology</u>	
	Full time/part time	<u></u>	
Academician	<input type="checkbox"/>	Affiliated Member	<input type="checkbox"/>
		Clinical Andrologist	<input type="checkbox"/>
14)	Name	<u>Francesco Carlomagno</u>	
	Degree	<u>MD</u>	
	Speciality	<u>Post graduate student in Endocrinology</u>	
	Full time/part time	<u></u>	
Academician	<input type="checkbox"/>	Affiliated Member	<input type="checkbox"/>
		Clinical Andrologist	<input type="checkbox"/>
15)	Name	<u>Massimiliano Sansone</u>	
	Degree	<u>MD</u>	
	Speciality	<u>Post graduate student in Endocrinology</u>	
	Full time/part time	<u></u>	
Academician	<input type="checkbox"/>	Affiliated Member	<input type="checkbox"/>
		Clinical Andrologist	<input type="checkbox"/>
16)	Name	<u>Riccardo Pofi</u>	
	Degree	<u>MD</u>	
	Speciality	<u>Post graduate student in Endocrinology</u>	
	Full time/part time	<u></u>	
Academician	<input type="checkbox"/>	Affiliated Member	<input type="checkbox"/>
		Clinical Andrologist	<input type="checkbox"/>
17)	Name	<u>Marianna Minnetti</u>	
	Degree	<u>MD</u>	
	Speciality	<u>Post graduate student in Endocrinology</u>	

Full time/part time _____

Academician Affiliated Member Clinical Andrologist
 18) Name Valeria Hasenmajer
 Degree MD
 Speciality Post graduate student in Endocrinology
 Full time/part time _____

Academician Affiliated Member Clinical Andrologist
 19) Name Giulia Puliani
 Degree MD
 Speciality Post graduate student in Endocrinology
 Full time/part time _____

Academician Affiliated Member Clinical Andrologist
 20) Name Tiziana Feola
 Degree MD
 Speciality Post graduate student in Endocrinology
 Full time/part time _____

Academician Affiliated Member Clinical Andrologist
 21) Name Francesco Pallotti
 Degree MD
 Speciality Endocrinology
 Full time/part time _____

Academician Affiliated Member Clinical Andrologist
 22) Name Andrea Sansone
 Degree MD
 Speciality Endocrinology
 Full time/part time _____

Academician Affiliated Member Clinical Andrologist

Insert any additional staff below (if required)

PhD Students

1) Name Francesco Pallotti
 2) Name Andrea Sansone
 3) Name Simona Granato
 4) Name Maria Rosaria Di Giorgio
 5) Name Maria Grazia Tarsitano
 6) Name Roberta Rendina

7) Name	Eleonora Poggiogalle
8) Name	Renata Finelli
9) Name	Francesca Sciarra
10) Name	Lucia Riganelli
11) Name	Emilia Sbardella
12) Name	Mikiko Watanabe
13) Name	Matteo Spaziani
14) Name	Federica Coccia
15) Name	Camilla Festa
16) Name	Alessia Cozzolino
17) Name	Tinatin Goginashvili
18) Name	Anna Aurora Gavillucci
19) Name	Rossella Mazzilli
20) Name	Agnese ML Gambaro
21) Name	Riccardo Giovannone
22) Name	Alberto M Marra
23) Name	Tiziana Filardi
24) Name	Mercuri Valeria
15) Name	Alessandra Petrozzi
16) Name	Valentina Ceccarelli
17) Name	Eleonora Morriconi
18) Name	Eleonora Marcoccia
19) Name	Rosa Catalano
20) Name	Savina Contini
21) Name	Valerio Olivieri
22) Name	Andrea L Serban

Nurses

1) Name	Cinzia Estivi
2) Name	Cinzia Giordani
3) Name	Carla Toti
4) Name	Antonella Bellisari
5) Name	Rossana Principato
6) Name	Carla Ricci
7) Name	Fortuna Bacio
8) Name	Anna Maria Ruggeri
9) Name	Francesco Impellicceri
10) Name	Elena Fasanella

Laboratory Technicians

1) Name	Antonella Anzuini
2) Name	Claudio Tiberti
3) Name	Cristina Piccheri

Administrative Personnel

1) Name	Lucia Liani
2) Name	Donatella Mergiotti
3) Name	Stefania Perin

4) Name	Micaela Notarianni
5) Name	Anastasia Tarquini
6) Name	Adelaide Ricerca
7) Name	Andreina Altomare
8) Name	Lauretta Costabile
9) Name	Antonio Cassanelli
10) Name	Rosanna Simeoni
11) Name	Patrizia Salustri
12) Name	Raffaella Rinaldi
13) Name	Armando Lovardi
14) Name	Laura Glisbergh
15) Name	Paola Zompetta
16) Name	Elisabetta Rondini
17) Name	Maria Carvaruso
18) Name	Aniello Sottile
19) Name	Donatella Romano
20) Name	Julia Labbate

4. Clinical Activity

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

	2014	2015	2016
New patients	6227	8893	8754
Follow-up patients	6702	9873	9536

Type of patients in the last years (%)	2014	2015	2016
Infertility	54,2	52,4	53,4
Erectile dysfunction	21,3	22,3	22,1
Congenital Hypogonadotropic Hypogonadism*	1,4	1,2	1,3
Secondary Osteoporosis (from hypogonadism)	6,4	7,1	6,8
Klinefelter	2,0	2,0	2,2
Gynaecomastia	1,3	0,6	0,6
Cryptorchidism	2,5	2,3	2,1
Male sex accessory gland infections	1,3	1,5	1,4
Testicular tumours	2,1	2,4	2,5
Disorders of gender identity	0,4	1,2	1,5
Other (ejaculation disorders, other sexual dysfunctions, IPP,...)	7,1	7,0	6,1

*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)

	2014	2015	2016
Total	1552	1300	1186

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

	2014	2015	2016
Testicular biopsies	12	18	18
Varicocele ligation	74	79	71
Prostate biopsies	/	/	/
BPH	/	/	/
Prostate cancer	/	/	/
Vasectomy	/	/	/
Vaso-vasostomy	/	/	/
Other	/	/	/

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:

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7. Clinical teaching activity

Duration of training (years):

	Number
A: Trainees in the last five years	30
B: Trainees who passed EAA-ESAU\exam for Clinical Andrologist in the last 5 yrs	3
C: Trainees working in the centre preparing to pass the EAA-ESAU examination	0
D: PhD Students	30
E: Medical Students	20
F: Other students (MSc)	12

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)

Please shortly describe the main research topics of the center and list the most relevant papers in peer review journals (with IF) related to these activities.

The full list of publications (years 2010 - 2016) are presented at the end of this report.

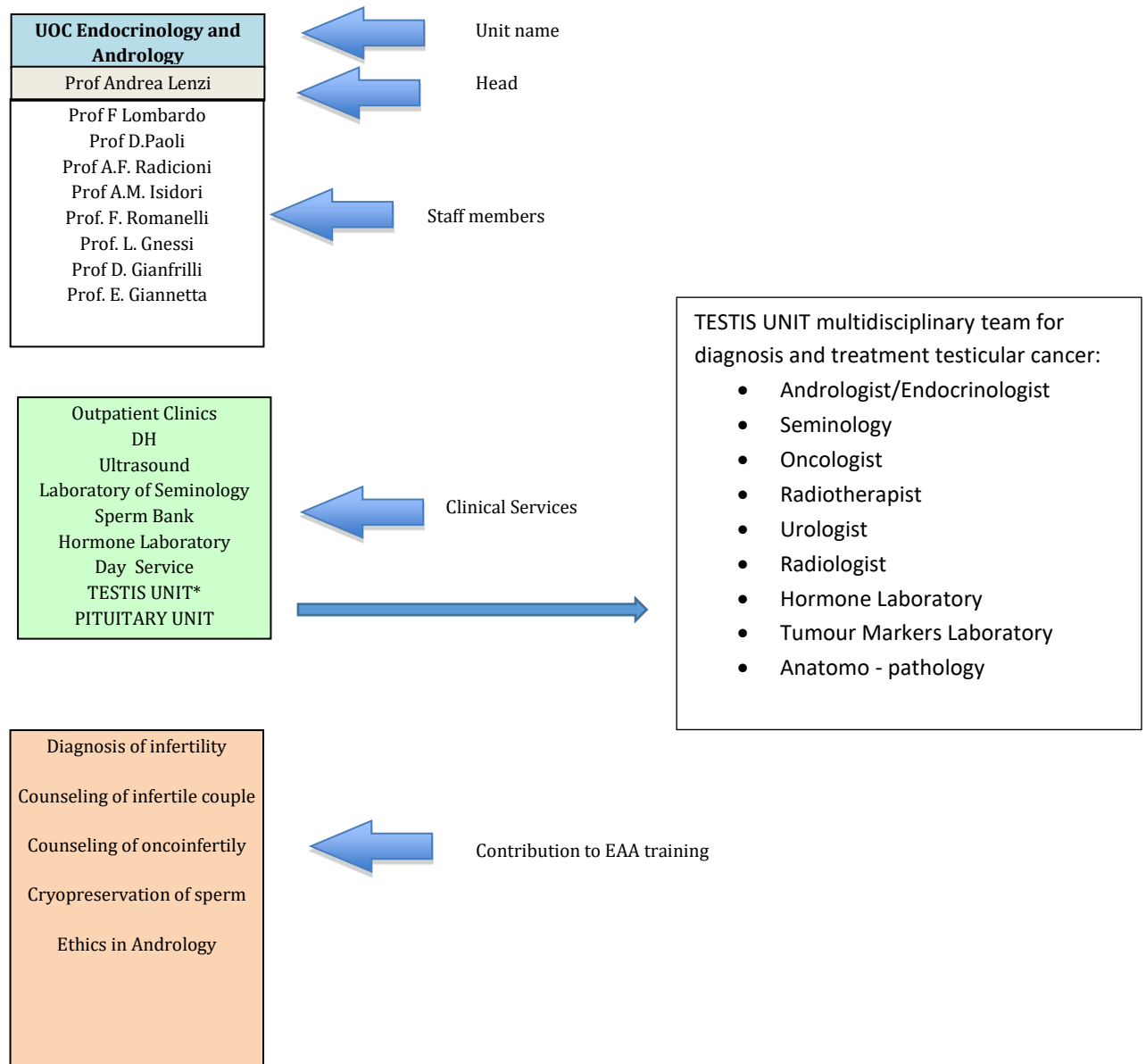
10. Research Funding

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....)

Year	2014
Total amount (€)	600.000,00
Funding Source(s)	MIUR 'SCIENTIFIC INDEPENDENCE OF YOUNG RESEARCHERS (SIR), University of Rome „La Sapienza“
Year	2015
Total amount (€)	250.000,00
Funding Source(s)	University of Rome 'La Sapienza', Italian Institute of Health , Italian Ministry of Education and Research (MIUR-PRIN),
Year	2016
Total amount (€)	200.000,00
Funding Source(s)	University of Rome 'La Sapienza', Italian Institute of Health , Italian Ministry of Education and Research (MIUR-PRIN),

ORGANIZATION CHARTS

Organization charts legend: Department / Unit Structure



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

- Alexandraki KI, Kaltsas GA, Isidori AM, Storr HL, Afshar F, Sabin I, Akker SA, Chew SL, Drake WM, Monson JP, Besser GM, Grossman AB. Long-term emission and recurrence rates in Cushing's disease: predictive factors in a single-centre study. *Eur J Endocrinol*. 2013 Mar 20;168(4):639-48. doi: 10.1530/EJE-12-0921. Print 2013 Apr. PubMed PMID: 23371975.
- Antonelli A, Marcucci L, Elli R, Tanzi N, Paoli D, Radicioni A, Lombardo F, Lenzi A, Gandini L. Semen quality in men with Y chromosome aberrations. *Int J Androl*. 2011 Oct;34(5 Pt 1):453-60. doi: 10.1111/j.1365-2605.2010.01108.x. Epub 2010 Oct 6. PMID: 21039604
- Antonini G, Clemenzi A, Bucci E, De Marco E, Morino S, Di Pasquale A, Latino P, Ruga G, Lenzi A, Vanacore N, Radicioni AF. Hypogonadism in DM1 and its relationship to erectile dysfunction. *J Neurol*. 2011 Jul;258(7):1247-53. doi: 10.1007/s00415-011-5914-3. Epub 2011 Feb 23. PMID: 21344196
- Arcopinto M, Salzano A, Bossone E, Ferrara F, Bobbio E, Sirico D, Vrizz O, De Vincentiis C, Matarazzo M, Saldamarco L, Saccà F, Napoli R, Iacoviello M, Triggiani V, Isidori AM, Vigorito C, Isgaard J, Cittadini A. Multiple hormone deficiencies in chronic heart failure. *Int J Cardiol*. 2015 Apr 1;184:421-3. doi: 10.1016/j.ijcard.2015.02.055. Epub 2015 Feb 24. PubMed PMID: 25755056.
- Astrup A, Kristensen M, Gnessi L, Watanabe M, Svacina S, Matoulek M, Hlubik P, Stritecka H, Contaldo F, Pasanisi F, Zohar Y, Ron ES, Urban LE, Sannino A, Demitri C, Saponaro C, Heshmati HM. A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study Assessing the Effect of a Novel Oral Non-Systemic Hydrogel on Body Weight in Overweight and Obese Subjects (FLOW Study). *American Journal of Clinical Nutrition*, submitted (6.703)
- Audisio RA, Icardi G, Isidori AM, Liverani CA, Lombardi A, Mariani L, Mennini FS, Mitchell DA, Peracino A, Pecorelli S, Rezza G, Signorelli C, Rosati GV, Zuccotti GV. Public health value of universal HPV vaccination. *Crit Rev Oncol Hematol*. 2016 Jan;97:157-67. doi: 10.1016/j.critrevonc.2015.07.015. Epub 2015 Aug 4. Review. PubMed PMID: 26346895.
- Baldelli R, Barnabei A, Rizza L, Isidori AM, Rota F, Di Giacinto P, Paoloni A, Torino F, Corsello SM, Lenzi A, Appetecchia M. Somatostatin analogs therapy in gastroenteropancreatic neuroendocrine tumors: current aspects and new perspectives. *Front Endocrinol (Lausanne)*. 2014 Feb 7;5:7. doi: 10.3389/fendo.2014.00007. eCollection 2014. Review. PubMed PMID:24570674; PubMed Central PMCID: PMC3916777.
- Baldini E, Sorrenti S, Di Gioia C, De Vito C, Antonelli A, Gnessi L, Carbotta G, Miccoli P, De Antoni E, Ulisse S. Cervical lymph node metastases from thyroid cancer: does thyroglobulin and calcitonin measurement in fine needle aspirates improve the diagnostic value of cytology? *BMC Clin Pathol* 2013 Feb 19;13:7. doi: 10.1186/1472-6890-13-7 (3.333)
- Baldini E, Sorrenti S, Di Gioia C, De Vito C, Antonelli A, Gnessi L, Carbotta G, Miccoli P, De Antoni E, Ulisse S. Effects of ultraviolet radiation on FRTL-5 cell growth and thyroid specific gene expression. *Astrobiology* (2013 Jun;13(6):536-42. doi: 10.1089/ast.2013.0972. Epub 2013 May 22) (2.150)
- Baldini E, Tuccilli C, Prinzi N, Sorrenti S, Antonelli A, Gnessi L, Catania A, Moretti C, Mocini R, Carbotta G, Morrone S, Persechino S, Redler A, De Antoni E, D'Armiento M, Ulisse S. The dual Aurora kinase inhibitor ZM447439 prevents anaplastic thyroid cancer cell growth and tumorigenicity. *Journal of Biological Regulators and*

- Homeostatic Agents 2013; 27(3): 705-15 (5.183)
- Baldini E, Tuccilli C, Prinzi N, Sorrenti S, Antonelli A, Gnessi L, Morrone S, Moretti C, Bononi M, Arlot-Bonnemains Y, D'Armiento M, Ulisse S. Effects of selective inhibitors of Aurora kinases on anaplastic thyroid carcinoma cell lines. *Endocr Relat Cancer*. 2014 Jul 29. pii: ERC-14-0299. [Epub ahead of print] (4.907)
 - Balercia G, Giovannini L, Paggi F, Spaziani M, Tahani N, Boscaro M, Lenzi A, Radicioni A. Growth hormone deficiency in the transition period: body composition and gonad function. *J Endocrinol Invest*. 2011 Oct;34(9):709-15. doi: 10.3275/7804. Epub 2011 Jun 21. Review. PMID: 21697646
 - Barbagallo F, Xu B, Reddy GR, West T, Wang Q, Fu Q, Li M, Shi Q, Ginsburg KS, Ferrier W, Isidori AM, Naro F, Patel HH, Bossuyt J, Bers D, Xiang YK. Genetically Encoded Biosensors Reveal PKA Hyperphosphorylation on the Myofilaments in Rabbit Heart Failure. *Circ Res*. 2016 Sep 30;119(8):931-43. doi:10.1161/CIRCRESAHA.116.308964. Epub 2016 Aug 30. PubMed PMID: 27576469; PubMed Central PMCID: PMC5307331.
 - Barbati SA, Colussi C, Bacci L, Aiello A, Re A, Stigliano E, Isidori AM, Grassi C, Pontecorvi A, Farsetti A, Gaetano C, Nanni S. Transcription Factor CREM Mediates High Glucose Response in Cardiomyocytes and in a Male Mouse Model of Prolonged Hyperglycemia. *Endocrinology*. 2017 Jul 1;158(7):2391-2405. doi: 10.1210/en.2016-1960. PubMed PMID: 28368536.
 - Basciani S, Costantini D, Contini S, Persichetti A, Watanabe M, Mariani S, Lubrano C, Spera G, Lenzi A, Gnessi L. Safety and efficacy of a multiphase dietetic protocol with meal replacements including a step with very low calorie diet. *Endocrine*. 2015 Apr;48(3):863-70 (3.527)
 - Benagiano G, Paoli D, Lombardo F, Brosens JJ, Brosens IA. DNA fragmentation and the ultimate success of a pregnancy. *Transl Androl Urol*. 2017 Sep;6 (Suppl 4):S539-S543
 - Bonomi M, Vezzoli V, Krausz C, Guizzardi F, Vezzani S, Simoni M, Bassi I, Duminuco P, Di Iorgi N, Giavoli C, Pizzocaro A, Russo G, Moro M, Fatti L, Ferlin A, Mazzanti L, Zatelli MC, Cannavò S, Isidori AM, Pincelli AI, Prodam F, Mancini A, Limone P, Tanda ML, Gaudino R, Salerno M, Francesca P, Maghnie M, Maggi M, Persani L; Italian Network on Central Hypogonadism. Characteristics of a nationwide cohort of patients presenting with isolated hypogonadotropic hypogonadism (IHH). *Eur J Endocrinol*. 2018 Jan;178(1):23-32. doi:10.1530/EJE-17-0065. Epub 2017 Sep 7. PubMed PMID: 28882981.
 - Borck G, Hög F, Dentici ML, Tan PL, Sowada N, Medeira A, Gueneau L, Thiele H, Kousi M, Lepri F, Wenzek L, Blumenthal I, Radicioni A, Schwarzenberg TL, Mandriani B, Fischetto R, Morris-Rosendahl DJ, Altmüller J, Reymond A, Nürnberg P, Merla G, Dallapiccola B, Katsanis N, Cramer P, Kubisch C. BRF1 mutations alter RNA polymerase III-dependent transcription and cause neurodevelopmental anomalies. *Genome Res*. 2015 Feb;25(2):155-66. doi: 10.1101/gr.176925.114. Epub 2015 Jan 5. Erratum in: *Genome Res*. 2015 Apr;25(4):609. PMID: 25561519 - PMID: 25834187
 - Bruscolini A, Abbouda A, Locuratolo N, Restivo L, Trimboli P, Romanelli F. Dry Eye Syndrome in Non-Exophthalmic Graves' Disease. *Semin Ophthalmol*. 2015;30(5-6):372-6. doi: 10.3109/08820538.2013.874491. Epub 2014 Jan 24. PubMed PMID: 24460515.
 - Calogero AE, Giagulli VA, Mongioì LM, Triggiani V, Radicioni AF, Jannini EA, Pasquali D; Klinefelter ItaliaN Group (KING). Klinefelter syndrome: cardiovascular abnormalities and metabolic disorders. *J Endocrinol Invest*. 2017 Jul;40(7):705-712. doi: 10.1007/s40618-017-0619-9. Epub 2017 Mar 3.

- Campolo F, Zevini A, Cardarelli S, Monaco L, Barbagallo F, Pellegrini M, Cornacchione M, Di Grazia A, De Arcangelis V, Gianfrilli D, Giorgi M, Lenzi A, Isidori AM, Naro F. Identification of murine phosphodiesterase 5A isoforms and their functional characterization in HL-1 cardiac cell line. *J Cell Physiol*. 2018 Jan;233(1):325-337. doi: 10.1002/jcp.25880. Epub 2017 May 18. PubMed PMID:28247930.
- Cantisani V, Maceroni P, D'Andrea V, Patrizi G, Di Segni M, De Vito C, Grazhdani H, Isidori AM, Giannetta E, Redler A, Frattaroli F, Giacomelli L, Di Rocco G, Catalano C, D'Ambrosio F. Strain ratio ultrasound elastography increases the accuracy of colour-Doppler ultrasound in the evaluation of Thy-3 nodules. A bi-centre university experience. *Eur Radiol*. 2016 May;26(5):1441-9. doi: 10.1007/s00330-015-3956-0. Epub 2015 Sep 4. PubMed PMID: 26337431.
- Carlini T, Paoli D, Pelloni M, Faja F, Dal Lago A, Lombardo F, Lenzi A, Gandini L. Sperm DNA fragmentation in Italian couples with recurrent pregnancy loss. *Reprod Biomed Online*. 2017 Jan;34(1):58-65. I.F. 2,79
- Ciocca G, Limoncin E, Mollaioli D, Gravina GL, Carosa E, Di Sante S, Gianfrilli D, Lombardo F, Lenzi A, Jannini EA. SIAMS survey on sexological screening during the assisted reproductive technologies in Italy. *J Endocrinol Invest*. 2015 Sep;38(9):999-1005. doi: 10.1007/s40618-015-0286-7. IF 1.448.
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The EAA center was established in 1995 and visited again in 2001 and 2010. This is the third visit to the Center, now directed by Prof. Francesco Lombardo and previously directed by Prof. Aldo Isidori, Franco Dondero and Andrea Lenzi.

STRONG POINTS

The Center is very active in reproductive endocrinology, imaging of the testis, semen cryopreservation and semen analyses, performing overall more than 9.000 visits each year and 1500 sonographic examination. The number of semen evaluation and cryopreservation is also impressive being near 1600 and 600, respectively, with 330 dedicated to oncofertility, in particular to testicular tumours. They also recently expanded their interest to gender dysphoria. Other fields of interest are sexual dysfunction and male hypogonadism. In house Center facilities are: hormone evaluation, DEXA, mass spectrometry, basic genetic study, including Y microdeletion and AR mutations. They are actively involved in teaching activities, under the umbrella of EAA, including School of Ultrasonography. In fact, they are experts in advanced ultrasonography techniques, as elastography and US-contrast ultrasound. They collaborate with surgeons performing US-guided localization of small testis tumours, during the surgical procedures. They have dedicated outpatient clinics for metabolic disturbances and osteoporosis. They have in house facilities for day hospital and day service procedures. They collaborate with gynaecologists and urologists for ART, including TESE. They have a great experience with testis biopsies, although less often performed nowadays. They have social program to spread the concept of preventive andrology in community as school, under the name of "Amico Andrologo". Scientific production is extensive covering the aforementioned fields of clinical activity.

POINTS FOR IMPROVEMENT

- 1) Although the Bank for cryopreservation has a long history, the logistic location is not appropriate for the actual European law. In fact, the Centre needs improvement of Sperm Bank in relation to the present facilities to fulfil the new European Union Directives. We understood that the request for renovation of the facilities has been submitted to the Hospital management offices and the centre is waiting for the start of the works.
- 2) The workout procedure for male sexual dysfunction should be improved, also considering the facility for sonography available. A more strict collaboration with urologist involved in IPP and ED after radical prostatectomy is encouraged.
- 3) Although, often the gynaecologists refer to the Center the male of the infertile couple, this has not been done systematically, and this should be improved.
- 4) For the embryologist working in the Center a more direct involving in the surgical procedures of ART is suggested.

Rome December 12. 2017

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