

EAA Andrology Training Centre
Centre Report

2024

Centre identification

FERTISEXCARES

Unità di Andrologia e Medicina della Riproduzione, Sessualità e Affermazione di Genere -
Dipartimento di Medicina Clinica e Chirurgia - Sezione di Endocrinologia - Università degli Studi di
Napoli 'Federico II'.

Unità Operativa Complessa (UOC) Endocrinologia, Diabetologia ed Andrologia - Dipartimento
Assistenziale Integrato (DAI) di Endocrinologia, Diabetologia, Andrologia e Nutrizione - Azienda
Ospedaliera Universitaria (AOU) Federico II, Naples, Italy.

FERTISEXCARES

Unit of Andrology and Medicine of Reproduction, Sexuality and Gender Affirmation - Department of
Clinical Medicine and Surgery – Section of Endocrinology - Università degli Studi di Napoli 'Federico
II'.

Complex Unit (UOC) of Endocrinology, Diabetology and Andrology – Integrated Care Department
(DAI) of Endocrinology, Diabetology, Andrology and Nutrition – University Hospital (AOU) Federico
II, Naples, Italy.

CENTRE REPORT

History of Centre

FERTISEXCARES Centre comprises two highly interconnected sections:

- the clinical area, based in the Infra-departmental Program (1st level) "Andrology and Medicine of Reproduction, Sexuality and Gender Affirmation" (Director Prof. Rosario Pivonello), belonging to the Complex Unit Endocrinology, Diabetology and Andrology – Integrated Care Department of Endocrinology, Diabetology, Andrology and Nutrition – University Hospital Federico II, Naples, Italy, within which Prof. Pivonello is Coordinator of the multidisciplinary specialistic equipe for Gender Affirming Hormonal Therapy in the adult patient;
- the research area, based in the department of Clinical Medicine and Surgery – Section Endocrinology - Università degli Studi di Napoli 'Federico II'.

FERTISEXCARES Centre is part of the European reference network on rare endocrine conditions (including pituitary, adrenal and andrological disorders, Noonan, Prader-Willi, Klinefelter, Kallmann and Morris Syndromes, and other disorders of sex development) and is a regional referral Centre for neuroendocrine diseases and pituitary tumors. FERTISEXCARES Centre was established from the confluence of the historical expertise of the staff, recognized at international level, in the field of endocrinology, with the growing certified expertise in the field of andrology, and from the reorganization of the personnel and the attribution and expansion of dedicated resources and spaces, previously belonging to the Section of Endocrinology. The formal foundation of the FERTISEXCARES Centre dates back in 2014 (Director Prof. Rosario Pivonello), from the willing to offer the AOU Federico II and the patient suffering from male and female andrological, reproductive and sexual pathologies, an integrated multidisciplinary care path benefiting from high-profile clinical skills, collaborations with the Units of Urology, Gynecology and Obstetrics, Sperm Bank and IVF FERTUNINA, Clinical Pathology, Laboratory Medicine,

Microbiology, Genetics, Pediatrics, Dermatology, Infectious diseases, Oncology, Neurosurgery, Psychiatric and Psychology belonging to AOU Federico II, and specific assistance services, as well as from the aim to promote basic, translational and clinical multidisciplinary research activities in dedicated research laboratories. At present, the main clinical and research areas of interest concern pathophysiology of male and female gonadal, reproductive, sexual and psycho-sexological function, and gender incongruence, but also include the study of gonadal, reproductive, sexual and psycho-sexological disorders in patients with hypothalamic-pituitary and adrenal diseases (including the impact on reproductive and sexual function of their cardiovascular, metabolic and neuro-cognitive comorbidities); FERTISEXCARES Centre is indeed Coordinator Centre of GONADIS National Observatory on Gonadal function in Pituitary and Adrenal Diseases. Gonadal, reproductive, sexual and psycho-sexological disorders in other endocrinopathies, such as obesity, diabetes, osteoporosis and other, also represent clinical and research areas of interest. Another clinical and research area of interest concerns disorders of reproductive and sexual function in oncological pathologies of the male reproductive system, and their relationship with lifestyle, nutrition, unhealthy habits, and exposure to environmental pollutants, as well as the effect of treatment with nutraceuticals on such disorders. Gender variance and incongruence and health also represents a main clinical and research area, and, recently, the construction of a dedicated Centre for Multi-specialistic Higher Education on Gender Incongruence within the FERTISEXCARES Centre was funded by Università degli Studi di Napoli 'Federico II'. Endocrinological, oncological, epigenetic, and molecular aspects play a central role in most of the laboratory's basic, translational, and clinical research projects. Research activity of the laboratory benefits from national and international important and consolidated scientific collaborations.

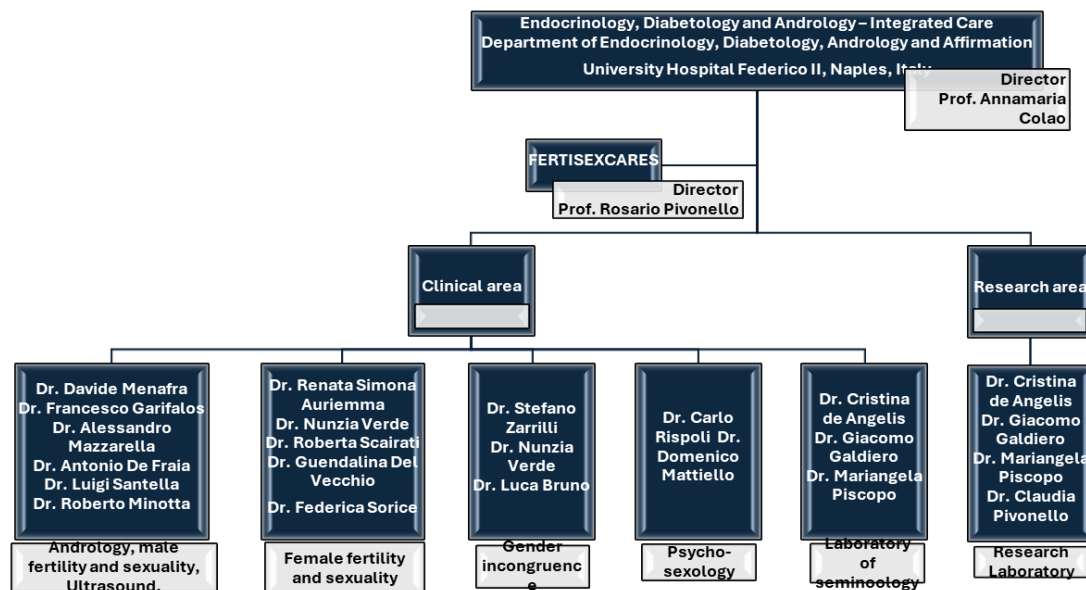
FERTISEXCARES activities also include large awareness and prevention campaigns and free medical consultations for andrological, reproductive and sexual disorders, dedicated to the general population, as part of the third

mission sector, such as the “David” project for Information, Education and Awareness for Andrological Prevention, organized under the aegis of “Campus della Salute” Onlus, and awareness and prevention campaigns for testis cancer and infertility for residents of the high environmental impact area so-called “Land of Fires” within Campania Region – South Italy.

In 2016, complexity and completeness of care pathways, services, methodologies, equipment and research activities, and the competence of personnel, granted the Centre the high clinical and scientific value and solidity yielding to accreditation, from the Italian Society of Andrology and Sexual Medicine (SIAMS), as a Centre of Excellence in Andrology and Medicine of Sexuality (CEAMS); re-accreditation was obtained in 2022. Within these years, FERTISEXCARES personnel actively and proficiently participated to the regional, national and international activities, including clinical studies, research projects, scientific manuscripts and events, of SIAMS, by also being in chief of cardinal societal roles. Prof. Pivonello has been Member of the Board of Directors SIAMS between 2012 and 2016, Coordinator of the Drug Committee SIAMS between 2017 and 2019, Member of the Scientific Committee SIAMS between 2010 and 2014 and Coordinator of the Scientific Committee SIAMS between 2018 and 2021, and Coordinator of the Clinical Studies Committee and member of the Guidelines Committee SIAMS from 2021 to 2023. Presently, Prof. Pivonello is Elect President of SIAMS. Prof. Pivonello is currently delegate of the Italian Society of Endocrinology (SIE) for the relationship with Italian Higher Institute of Healthcare (ISS) within the GENDER MEDICINE OBSERVATORY - Scientific societies with Working groups on Gender Medicine. Since 2021, Dr. de Angelis is Regional Coordinator (Campania e Basilicata) and Member of the Scientific Committee SIAMS. Both Prof. Pivonello and Dr. de Angelis are Member of the Special Interest Group of the Italian Society of Fertility and Sterility (SIFES) on “Environment and fertility”. Since 2021 Dr. Menafrà is Coordinator of the Scientific Committee Androyoung SIAMS and Dr. Garifalos is Member of the Medically-assisted procreation and Sperm Bank Committee SIAMS. From 2021 to 2023 Prof. Pivonello has been Coordinator of the Relationships with

Other Scientific Societies and Institutions Committee of the Italian Society Gender, Identity and Health (SIGIS), and is presently Member of the Board of Directors SIGIS, and since 2021, Dr. Verde is Member of the Communication Committee SIGIS, by testifying the interest and great involvement of the FERTISEXCARES and its personnel in the field of Gender Affirmation.

Organization of Centre – Director Prof Rosario Pivonello, PhD, MD



Educational activities

- Faculty of Medicine and Surgery: Course of Endocrinology, Andrology and Medicine of Reproduction
 - Degree in Medicine and Surgery
 - Degree in Nursing
 - Degree in Obstetrics
 - Degree in Dietician
 - Specialty school of Endocrinology and Metabolic Disorders
 - Specialty school of Clinical Pathology and Clinical Biochemistry
 - PhD in Advanced medical-surgical therapies.
 - II Level Master in Andrology and Medicine of Reproduction and Sexuality.
 - Centre for Multi-specialistic Higher Education on Gender Incongruence (in construction within the FERTISEXCARES Centre).
 - European Society for Sexual Medicine (ESSM) accredited training centre for the ESSM Female Ultrasound School (EFUS).
 - Andrology Program “Clinical Andrology and Medicine of Male and Female Reproduction and Sexuality (Delegate Prof. Rosario Pivonello) within the UNESCO Chair of “Education to Health and Sustainable Development”, established on September 2019 at Università degli Studi di Napoli ‘Federico II’ (Chairholder Prof. Annamaria Colao).
-

Research activities

- Clinical Andrology
 - Hypogonadism
 - Male Infertility
 - Male Idiopathic Infertility
 - Couple Infertility
 - Sexually transmitted diseases and fertility
-

-
- Polycystic Ovary Syndrome
 - Reproductive, Sexual, and Psycho-sexual function, and Fertility, in Male and Female Patients with Metabolic and Endocrine Disorders
 - Seminology and Sperm Pathophysiology
 - Sexual Dysfunctions
 - Retrograde Ejaculation
 - Testis and Prostate Cancer
 - Impact of Endocrine Disruptors and Environmental Pollutants on Male Fertility and Testis Cancer
 - Impact of lifestyle on Male Reproductive Function and Fertility
 - Nutraceuticals and Male Fertility and Sexuality
 - Epigenetics of Male Infertility
 - Gender Variance and Incongruence
 - Role of Dopaminergic System on Male Fertility
 - Vitamin D and Prostate Cancer
 - Fertility in Animal Models as Surrogate Markers for Human Male Fertility
-

Clinical activities

- Outpatient services for andrological and endocrinological patients, and for patients with andrological disorders secondary to diabetes and other endocrine-metabolic diseases.
 - Day Hospital for andrological and endocrinological patients.
 - Outpatient services for male patients with reproductive, sexual, and psychosexual disorders, for female patients with endocrinological-reproductive disorders, sexual and psychosexual disorders.
 - Outpatient services for people with gender incongruence.
 - Specialist consultancy for inpatients from the entire AOU Federico II.
-

-
- Specialist consultancy for males of couples belonging to the AOU Federico II Sterility Centre, and to women of the same centre suffering from endocrine-metabolic disorders.
 - FERTISEXCARES is part of the European reference network on rare endocrine conditions and andrological diseases (including Noonan, Prader-Willi, Klinefelter, Kallmann and Morris Syndromes, as well as other disorders of sex development) and is a regional referral centre for neuroendocrine diseases and pituitary tumors.
 - Active collaborations with Divisions Urology, Gynecology and Obstetrics, Sperm Bank FERTUNINA, Clinical Pathology, Laboratory Medicine, Microbiology, Genetics, Pediatrics, Dermatology, Infectious diseases, Oncology, Neurosurgery, Psychiatric and Psychology.
-
-

Name and address of Centre

FERTISEXCARES

Unità di Andrologia e Medicina della Riproduzione, Sessualità e
 Affermazione di Genere - Unità Operativa Complessa di Endocrinologia,
 Diabetologia ed Andrologia - Dipartimento Assistenziale Integrato di
 Endocrinologia, Diabetologia, Andrologia e Nutrizione - Ospedaliera
 Universitaria Federico II, Sergio Pansini 5, 80131 - Naples, Italy

Type of Centre

University

University Hospital

Private Centre

X

Other (please
specify)

1. Director

Rosario Pivonello, MD, PhD, Full Prof.

Academician ☒ Affiliated Member ☐ Clinical Andrologist ☐

2a. Clinical responsible

Rosario Pivonello, MD, PhD, Full Prof.

Academician ☒ Affiliated Member ☐ Clinical Andrologist ☐

Annamaria Colao, MD, PhD, Full Prof.

Academician ☐ Affiliated Member ☐ Clinical Andrologist ☐

3. Present Staff (Senior Scientists)

1) Name Prof. Rosario Pivonello
 Degree MD, PhD, Full Prof.
 Specialty Endocrinology - Andrology

Academician ☒ Affiliated Member ☐ Clinical Andrologist ☐

2) Name Stefano Zarrilli
 Degree MD, PhD, Researcher.
 Specialty Endocrinology - Andrology

Academician ☐ Affiliated Member ☐ Clinical Andrologist ☐

3) Name Cristina de Angelis
 Degree Biologist, PhD, Researcher
 Specialty _____

Academician ☐ Affiliated Member ☒ Clinical Andrologist ☐

4) Name Davide Menafrà
 Degree MD, PhD, Researcher.
 Specialty Endocrinology - Andrology

Academician ☐ Affiliated Member ☒ Clinical Andrologist ☐

5) Name Francesco Garifalos
 Degree MD, PhD, Researcher.
 Specialty Endocrinology - Andrology

Academician ☐ Affiliated Member ☒ Clinical Andrologist ☐

Insert any additional staff below (if required)

MD/Biologists/Chemists

1) Name Giacomo Galdiero
 Degree Biotechnologist, PhD
 Specialty _____
 Full time/part time Full time

Academician ☐ Affiliated Member ☐ Clinical Andrologist ☐

2) Name Mariangela Piscopo
 Degree Biologist, PhD
 Specialty _____
 Full time/part time Full time

Academician ☐ Affiliated Member ☐ Clinical Andrologist ☐

3) Name Carlo Rispoli
 Degree Psychologist
 Specialty _____
 Full time/part time Part time

Academician ☐ Affiliated Member ☐ Clinical Andrologist ☐

4) Name Domenico Mattiello
 Degree Psychologist
 Specialty _____
 Full time/part time Part time

Academician ☐ Affiliated Member ☐ Clinical Andrologist ☐

5) Name Nunzia Verde
 Degree MD, PhD
 Specialty Endocrinology - Andrology
 Full time/part time Full time

Academician ☐ Affiliated Member ☐ Clinical Andrologist ☐

6) Name Roberta Scairati
 Degree MD, PhD student
 Specialty Endocrinology - Andrology
 Full time/part time Full time

Academician ☐ Affiliated Member ☐ Clinical Andrologist ☐

7) Name Guendalina Del Vecchio
 Degree MD, PhD student
 Specialty Endocrinology - Andrology
 Full time/part time Full time

Academician ☐ Affiliated Member ☐ Clinical Andrologist ☐

8) Name Roberto Minotta
 Degree MD, PhD student
 Specialty Endocrinology
 Full time/part time Full time

Academician ☐ Affiliated Member ☐ Clinical Andrologist ☐

9) Name Luigi Santella
 Degree MD
 Specialty Post graduate student - School of Endocrinology
 Full time/part time Luigi Santella

Academician ☐ Affiliated Member ☐ Clinical Andrologist ☐

10) Name Antonio De Fraia

Degree	<u>MD</u>		
Specialty	<u>Post graduate student - School of Endocrinology</u>		
Full time/part time	<u></u>		
Academician	☐	Affiliated Member	☐ Clinical Andrologist ☐

11) Name	<u>Luca Bruno</u>		
Degree	<u>MD</u>		
Specialty	<u>Post graduate student - School of Endocrinology</u>		
Full time/part time	<u></u>		
Academician	☐	Affiliated Member	☐ Clinical Andrologist ☐

12) Name	<u>Alessandro Mazzarella</u>		
Degree	<u>MD</u>		
Specialty	<u>Post graduate student - School of Endocrinology</u>		
Full time/part time	<u></u>		
Academician	☐	Affiliated Member	☐ Clinical Andrologist ☐

13) Name	<u>Federica Sorice</u>		
Degree	<u>MD</u>		
Specialty	<u>Post graduate student - School of Endocrinology</u>		
Full time/part time	<u></u>		
Academician	☐	Affiliated Member	☐ Clinical Andrologist ☐

Insert any additional staff below (if required)

PhD Students

1) Name	<u>Roberta Sclairati</u>
2) Name	<u>Guendalina Del Vecchio</u>
3) Name	<u>Roberto Minotta</u>

Fellows

1) Name	<u>Lucia Auriemma</u>
2) Name	<u>Mariachiara Iannuzzi</u>
3) Name	<u>Luca Guglielmelli</u>
4) Name	<u>Nicola Verde</u>

5) Name	Antonio Barbato
6) Name	Gaetano Freddini
7) Name	Vincenzo La Gala
8) Name	Federica Torino
9) Name	Giulia Tangredi
10) Name	Adele Dello Ioio
11) Name	Elisabetta De Stefano
11) Name	Andrea Tessito
11) Name	Davide Bernardo

Nurses

1) Name	Rosaria Ericina
2) Name	Felicina Attaneo
3) Name	Mariarosaria Bianco
4) Name	Gennaro Bosso

Administrative Personnel

1) Name	Iolanda Pivonello
2) Name	Pasquale Antonio Riccio
3) Name	Luciano Saporito
4) Name	Gianluca Varriale
5) Name	Daniela Pagano
6) Name	Roberta Cacciuttolo
7) Name	Gennaro Mocerino
8) Name	Danilo Sannino
9) Name	Salvatore Papauro
10) Name	Carminé D'Alessandro
11) Name	Concetta Pellegrino

Collaborating specialists (senior scientists)

1) Name	Prof. Annamaria Colao
Degree	MD, PhD, Full Prof.
Specialty	Endocrinology

Academician ☐ Affiliated Member ☐ Clinical Andrologist ☐

2) Name	Renata Simona Auriemma
Degree	MD, PhD, Researcher
Specialty	Endocrinology

Academician ☐ Affiliated Member ☐ Clinical Andrologist ☐

3) Name	Claudia Pivonello
Degree	Biologist, PhD, Researcher
Specialty	

Academician ☐Affiliated
Member ☐Clinical
Andrologist ☐**Additional collaborating personnel****PhD Students**1) Name Rosa Pirchio**4. Clinical Activity**

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

	2021	2022	2023
New patients	1290	1482	1752
Follow-up patients	1957	2030	2289

Type of patients in the last years (%)	2021	2022	2023
Infertility	28	16	16
Erectile dysfunction	21	21	20
Hypogonadotropic Hypogonadism	7	9	10
Klinefelter	2	3	3
Gynecomastia	1	2	2
Varicocele	15	17	18
Cryptorchidism	1	1	0.5
Male sex accessory gland infections	9	9	10
Testicular tumors	0.5	0.3	0.6
Disorders of gender identity	19	23	24
Other	9	18	19

B. Ultra sound (testis, penile, prostate) *

	2021	2022	2023
Total	553	614	748
Controls	301	342	387

** performed at our FERTISEXCARES unit*

C. Andrological surgery procedures

	2021	2022	2023
Testicular biopsies	17	18	25
Varicocele ligation	38	47	55

Prostate biopsies	467	534	600
BPH	275	280	300
Prostate cancer	135	155	150
Vasectomy	0	0	0
Vaso-vasostomy	0	0	0
Other	13	12	15

5. A. Andrology laboratory activity

	2021	2022	2023
Semen analyses	406	513	603
Sperm antibodies	7	9	11
Seminal markers	4	9	17

5. B. Andrology laboratory activity

Sperm banking donors Yes ☐ No ☒

Sperm banking cancer patients Yes ☐ No ☒

Performed at other Units of the campus

<i>If yes:</i>			
	2021	2022	2023
Number of Sperm banking cancer patients	210	216	245
Number of Sperm banking Infertility patients	97	59	75

5. C. Histopathological evaluation of biopsies Yes ☐ No ☒

Performed at other Units of the campus

5. D. Reproductive Hormones Assays Yes ☐ No ☒

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

Performed at other Units of the campus

Yes ☒ No ☐

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

Performed at other Genetic Units

If yes number of tests in the past year 33 _____

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)

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

IVF Unit and Sperm Bank Yes ☒ No ☐
Gynecology and Obstetrics Yes ☒ No ☐

Endocrinology Clinic Yes ☒ No ☐

Urology Clinic Yes ☒ No ☐

Pediatric Unit Yes ☒ No ☐

Genetics Lab/Unit Yes ☒ No ☐

Neurosurgery Unit Yes ☒ No ☐

Oncology Unit Yes ☒ No ☐

Dermatology Unit Yes ☒ No ☐

Clinical Pathology Yes ☒ No ☐

Laboratory Medicine Yes ☒ No ☐

Psychiatric Clinic and/or Psychology clinic Yes ☒ No ☐

Private Centres Yes ☐ No ☒

If yes please specify:

7. Clinical teaching activity

Duration of training (years):

	Number
A: Trainees who passed EAA-ESAU\exam for Clinical Andrologist in the last 5 yrs	0
B: Trainees working in the centre preparing to pass the EAA-ESAU examination in the last 5 yrs	0
C: Postgraduate Students (School of Endocrinology – Unit of Andrology in the last 5 yrs	14
D: PhD Students in the last 5 yrs	12
E: Students of the II Level Master in Andrology and Medicine of Reproduction and Sexuality in the last 5 yrs	18
F: Medical Students achieving degree in the last 5 yrs	4
G: Medical Students - current internship fellows in the last 5 yrs	13
H: Medical Students attending andrology teaching activity in the last 5 yrs	2351
I: Other Students (nurses, biologists, biotechnologists) achieving degree in the last 5 yrs	8
L: Other Students (nurses, biologists, biotechnologists) - current internship fellows in the last 5 yrs	2
M: Other Students (nurses, obstetrics) attending andrology teaching activity in the last 5 yrs	1332

8. Formal Andrology teaching program

Yes ☒

No ☐

If yes: specify duration (years/months):

Years

Months

	Hours of formal andrology teaching	Professional training in andrology	Duration of program

Post Graduate students (School of Endocrinology – Unit of Andrology)	22 hours	2 months	4 years
Students of the II Level Master in Andrology and Medicine of Reproduction and Sexuality	1225 hours/year (a.y. 2019-2020 and a. y. 2020-2021) 612 hours (a.y. 2022-2023)	275 hours/year (a.y. 2019-2020 and a. y. 2020-2021) 138 hours (a.y. 2022-2023)	2 years (a.y. 2019-2020 and a. y. 2020-2021) 1 year (a.y. 2022-2023)
Medical Students - internship fellows	-	480 hours/year	1.5 years
Medical Students attending teaching activity	5 hours	-	6 years
Medical Students attending teaching activity (English course)	3 hours	-	6 years
Practical evaluation training	-	20 hours	20 hours
Clinical rotation	-	40 hours	40 hours
Elective teaching activities	36 hours (3 courses)	-	36 hours (3 courses)
Other Students (nurses, obstetrics) attending teaching activity	6 hours nurses (2 courses, total 12 hours) 18 hours obstetrics (3 courses, total 54 hours) 4 hours radiology (1 course)	-	3 years
Other Students (biologists, biotechnologists) - internship fellows	-	1920 hours/year	1.5 years

9. Research Activity (maximum 1 page)

The main research lines, focusing on pathophysiology of the male and female gonadal, reproductive, sexual and psycho-sexological function, and gender incongruence, but also include the study of gonadal, reproductive, sexual and psycho-sexological disorders in patients with hypothalamic-pituitary and adrenal diseases (including the impact on reproductive and sexual function of

their cardiovascular, metabolic and neuro-cognitive comorbidities); FERTISEXCARES Centre is indeed Coordinator Centre of GONADIS National Observatory on Gonadal function in Pituitary and Adrenal Diseases. Gonadal, reproductive, sexual and psycho-sexological disorders in other endocrinopathies, such as obesity, diabetes, osteoporosis and other, also represent research areas of interest. Another line of research concerns disorders of reproductive and sexual function in oncological pathologies of the male reproductive system, and their relationship with lifestyle, nutrition, unhealthy habits, and exposure to environmental pollutants, as well as the effect of treatment with nutraceuticals on such disorders. Gender variance and incongruence and health also represents a main research line, and, recently, the construction of a dedicated Centre for Multi-specialistic Higher Education on Gender Incongruence within the FERTISEXCARES Centre was funded by Università degli Studi di Napoli 'Federico II'. Endocrinological, oncological, epigenetic, and molecular aspects play a central role in most of the laboratory's basic, translational, and clinical research projects. Research activity of the laboratory benefits from national and international important and consolidated scientific collaborations.

The full list of publications (years 2020 - 2024) are presented at the end of this report.

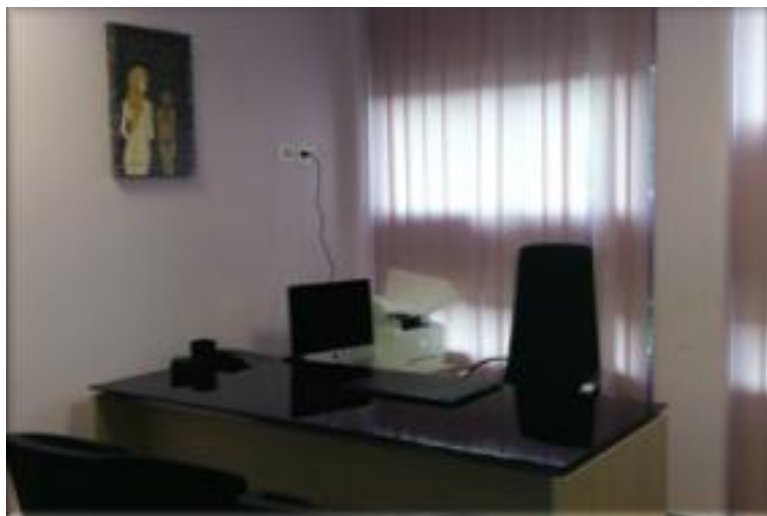
10. Research Funding

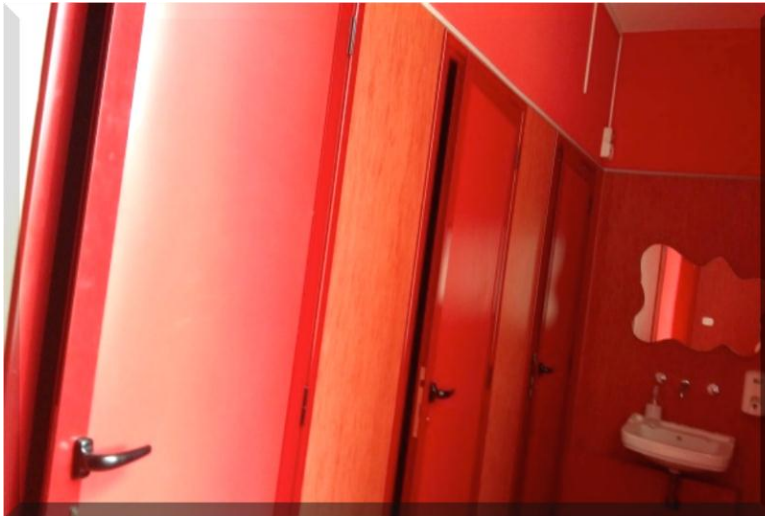
Year	2020
Total amount (€)	123.463 Euros
Funding Source(s)	National multicenter study Cardiovascular and sexual/reproductive wellbeing in andro-metabolic disorders: a joint venture between lifestyle and drugs to improve vascular inflammation and oxidative damage (prot. CARDIO-SEX 2017XLFJAX). Funding: Ministero dell'Istruzione dell'Università e della Ricerca, PROGETTI DI RICERCA DI RILEVANTE INTERESSE NAZIONALE – Italian Ministry of Education, University and Research (MIUR – PRIN)
Year	2019-2022
Total amount (€)	187.200 Euros

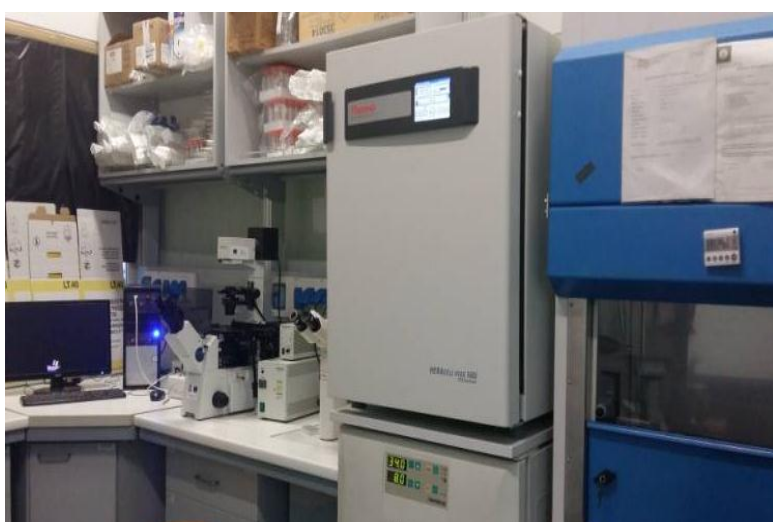
Funding Source(s)	Exposoma e Plurifocalità nella Prevenzione Oncologica (prot. EXPOSOMA). Funding: Regione Campania, POR FESR CAMPANIA 2014/2020
Year	2021-2022
Total amount (€)	574.945,53 Euros
Funding Source(s)	ANDROKIT - sviluppo di kit diagnostico/predittivi per l'infertilità maschile (prot. ANDROKIT). Funding: Regione Campania, POR FESR CAMPANIA 2014/2020
Year	2022
Total amount (€)	49.284,00 Euros
Funding Source(s)	Exploring the role of medicines in the induction as well as the management of sexual dysfunction through analysis of Big Data and "Smart data" Funding: PRIN - BANDO 2022 PNRR PROT. P2022SE38P

CENTRE PHOTOS









FULL LIST OF PUBLICATIONS (with IF) of staff members from the last 5 years (2020 – 2024)

1. Hasenmajer V., De Alcubierre D., Ferrari D., Minnetti M., Bonaventura I., Pofi R., Simeoli C., Tomaselli A., Sciarra F., Bottillo G., Angelini F., Cozzolino A., Venneri M.A., Jannini E.A., Gianfrilli D., Pivonello R., Isidori A.M. Exploring sexual function in adrenal insufficiency: findings from the Dual RElease hydrocortisone versus conventionAl glucocorticoid replaceMent therapy in hypocortisolism (DREAM) trial (2024) *Andrology* DOI: 10.1111/andr.13635
2. Barbonetti A., Tienforti D., Castellini C., Giulio F.D., Muselli M., Pizzocaro A., Vena W., Baroni M.G., Pivonello R., Isidori A.M., Maggi M., Corona G. Effect of antioxidants on semen parameters in men with oligo-astheno-teratozoospermia: a network meta-analysis (2024) *Andrology*, 12 (3), pp. 538 – 552 DOI: 10.1111/andr.13498
3. Marconi M., Pagano M.T., Ristori J., Bonadonna S., Pivonello R., Meriggiola M.C., Motta G., Lombardo F., Mosconi M., Oppo A., Cocchetti C., Romani A., Federici S., Bruno L., Verde N., Lami A., Crespi C.M., Marinelli L., Giordani L., Matarrese P., Ruocco A., Santangelo C., Contoli B., Masocco M., Minardi V., Chiarotti F., Fisher A.D., Pierdominici M. Sociodemographic profile, health-related behaviours and experiences of healthcare access in Italian transgender and gender diverse adult population (2024) *Journal of Endocrinological Investigation* DOI: 10.1007/s40618-024-02362-x
4. Santi D., Lotti F., Sparano C., Rastrelli G., Isidori A.M., Pivonello R., Barbonetti A., Salonia A., Minhas S., Krausz C., Vignozzi L., Maggi M., Corona G. Does an increase in adipose tissue ‘weight’ affect male fertility? A systematic review and meta-analysis based on semen analysis performed using the WHO 2010 criteria (2024) *Andrology*, 12 (1), pp. 123 – 136 DOI: 10.1111/andr.13460
5. Corona G., Cucinotta D., Di Lorenzo G., Ferlin A., Giagulli V.A., Gnessi L., Isidori A.M., Maiorino M.I., Miserendino P., Murrone A., Pivonello R., Rochira V., Sangiorgi G.M., Stagno G., Foresta C., Lenzi A., Maggi M., Jannini E.A. The Italian Society of Andrology and Sexual Medicine (SIAMS), along with ten other Italian Scientific Societies, guidelines on the diagnosis and management of erectile dysfunction (2023) *Journal of Endocrinological Investigation*, 46 (6), pp. 1241 – 1274 DOI: 10.1007/s40618-023-02015-5
6. Pappalardo C., Cosci I., Moro G., Stortini A.M., Sandon A., De Angelis C., Galdiero G., Trifuoggi M., Pivonello R., Pedrucci F., Di Nisio A., Foresta C., Ferlin A., De Toni L.

- Seminal cadmium affects human sperm motility through stable binding to the cell membrane (2023) *Frontiers in Cell and Developmental Biology*, 11, art. no. 1134304 DOI: 10.3389/fcell.2023.1134304
7. Pivonello R., de Angelis C., Menafrà D., Colao A. Testis-Specific Genes Deregulation in the Testis of COVID-19 Patients: A Potential Driver of Spermatogenesis Disruption? (2023) *Journal of Clinical Endocrinology and Metabolism*, 108 (5), pp. E195 - E196 DOI: 10.1210/clinem/dgac730
 8. de Angelis C., Galdiero G., Menafrà D., Garifalos F., Verde N., Piscopo M., Negri M., Auriemma R.S., Simeoli C., Pivonello C., Colao A., Pivonello R. The environment and male reproductive system: the potential role and underlying mechanisms of cadmium in testis cancer (2023) *Critical Reviews in Toxicology*, 53 (7), pp. 412 – 435 DOI: 10.1080/10408444.2023.2250387
 9. Pasquali D., Chiodini P., Simeon V., Ferlin A., Vignozzi L., Corona G., Lanfranco F., Rochira V., Calogero A.E., Bonomi M., Pivonello R., Balercia G., Pizzocaro A., Giagulli V.A., Salacone P., Aversa A., Accardo G., Maggi M., Lenzi A., Isidori A., Foresta C., Jannini E.A., Garolla A. First baseline data of the Klinefelter ItaliaN Group (KING) cohort: clinical features of adult with Klinefelter syndrome in Italy (2022) *Journal of Endocrinological Investigation*, 45 (9), pp. 1769 – 1776 DOI: 10.1007/s40618-022-01816-4
 10. Isidori A.M., Aversa A., Calogero A., Ferlin A., Francavilla S., Lanfranco F., Pivonello R., Rochira V., Corona G., Maggi M. Adult- and late-onset male hypogonadism: the clinical practice guidelines of the Italian Society of Andrology and Sexual Medicine (SIAMS) and the Italian Society of Endocrinology (SIE) (2022) *Journal of Endocrinological Investigation*, 45 (12), pp. 2385 – 2403 DOI: 10.1007/s40618-022-01859-7
 11. Simeoli C., de Angelis C., Delli Veneri A., Menafrà D., Di Paola N., Pivonello C., Di Somma C., Valerio P., Melis D., Alviggi C., Colao A., Pivonello R. Severe impact of late diagnosis of congenital adrenal hyperplasia on gender identity, sexual orientation and function: case report and review of the literature (2022) *Frontiers in Genetics*, 13, art. no. 902844 DOI: 10.3389/fgene.2022.902844
 12. Corona G., Vena W., Pizzocaro A., Giagulli V.A., Francomano D., Rastrelli G., Mazziotti G., Aversa A., Isidori A.M., Pivonello R., Vignozzi L., Mannucci E., Maggi M., Ferlin A. Testosterone supplementation and bone parameters: a systematic review and meta-analysis study (2022) *Journal of Endocrinological Investigation*, 45 (5), pp. 911 – 926 DOI: 10.1007/s40618-021-01702-5

13. Menafra D., de Angelis C., Garifalos F., Mazzella M., Galdiero G., Piscopo M., Castoro M., Verde N., Pivonello R., Simeoli C., Auriemma R.S., Colao A., Pivonello R. Long-term high-dose l-arginine supplementation in patients with vasculogenic erectile dysfunction: a multicentre, double-blind, randomized, placebo-controlled clinical trial (2022) *Journal of Endocrinological Investigation*, 45 (5), pp. 941 – 961 DOI: 10.1007/s40618-021-01704-3
14. Corona G., Vena W., Pizzocaro A., Pallotti F., Paoli D., Rastrelli G., Baldi E., Cilloni N., Gacci M., Semeraro F., Salonia A., Minhas S., Pivonello R., Sforza A., Vignozzi L., Isidori A.M., Lenzi A., Maggi M., Lombardo F. Andrological effects of SARS-Cov-2 infection: a systematic review and meta-analysis (2022) *Journal of Endocrinological Investigation*, 45 (12), pp. 2207 – 2219 DOI: 10.1007/s40618-022-01801-x
15. Pivonello R., Auriemma R.S., Delli Veneri A., Dassi F., Lorusso R., Ragonese M., Liotta M., Sala E., Zarino B., Lai E., Urbani C., Bogazzi F., Mantovani G., Cannavò S., Maffei P., Chiodini P., Colao A. Global psychological assessment with the evaluation of life and sleep quality and sexual and cognitive function in a large number of patients with acromegaly: a cross-sectional study (2022) *European journal of endocrinology*, 187 (6), pp. 823 – 845 DOI: 10.1530/EJE-22-0263
16. Barbonetti A., D'Andrea S., Vena W., Pizzocaro A., Rastrelli G., Pallotti F., Condorelli R., Calogero A.E., Pasquali D., Ferlin A., Foresta C., Jannini E.A., Maggi M., Lenzi A., Pivonello R., Isidori A., Garolla A., Francavilla S., Corona G. Erectile Dysfunction and Decreased Libido in Klinefelter Syndrome: A Prevalence Meta-Analysis and Meta-Regression Study (2021) *Journal of Sexual Medicine*, 18 (6), pp. 1053 – 1064 DOI: 10.1016/j.jsxm.2021.03.078
17. Corona G., Rastrelli G., Dicuio M., Concetti S., Minnetti M., Pivonello R., Isidori A., Sforza A., Maggi M. Subclinical male hypogonadism (2021) *Minerva Endocrinology*, 46 (3), pp. 252 – 261 DOI: 10.23736/S2724-6507.20.03208-3
18. Galdiero G., D'anza E., de Angelis C., Albarella S., Peretti V., Pivonello R., Ciotola F. Sperm global dna methylation (Sgdm) in semen of healthy dogs (2021) *Veterinary Sciences*, 8 (3), art. no. 50 DOI: 10.3390/vetsci8030050
19. Pizzocaro A., Vena W., Condorelli R., Radicioni A., Rastrelli G., Pasquali D., Selice R., Ferlin A., Foresta C., Jannini E.A., Maggi M., Lenzi A., Pivonello R., Isidori A.M., Garolla A., Francavilla S., Corona G. Testosterone treatment in male patients with Klinefelter syndrome: a systematic review and meta-analysis (2020) *Journal of Endocrinological Investigation*, 43 (12), pp. 1675 – 1687 DOI: 10.1007/s40618-020-01299-1

20. Corona G., Rastrelli G., Isidori A.M., Pivonello R., Bettocchi C., Reisman Y., Sforza A., Maggi M., Seftel A.D. Erectile Dysfunction and Cardiovascular Risk: A Review of Current Findings (2020) Journal of Urology, 204 (3), pp. 601 DOI: 10.1097/JU.0000000000001167.04
21. Corona G., Sansone A., Pallotti F., Ferlin A., Pivonello R., Isidori A.M., Maggi M., Jannini E.A. People smoke for nicotine, but lose sexual and reproductive health for tar: a narrative review on the effect of cigarette smoking on male sexuality and reproduction (2020) Journal of Endocrinological Investigation, 43 (10), pp. 1391 – 1408 DOI: 10.1007/s40618-020-01257-x
22. Corona G., Baldi E., Isidori A.M., Paoli D., Pallotti F., De Santis L., Francavilla F., La Vignera S., Selice R., Caponecchia L., Pivonello R., Ferlin A., Foresta C., Jannini E.A., Lenzi A., Maggi M., Lombardo F. SARS-CoV-2 infection, male fertility and sperm cryopreservation: a position statement of the Italian Society of Andrology and Sexual Medicine (SIAMS) (Società Italiana di Andrologia e Medicina della Sessualità) (2020) Journal of Endocrinological Investigation, 43 (8), pp. 1153 – 1157 DOI: 10.1007/s40618-020-01290-w
23. Corona G., Isidori A.M., Aversa A., Bonomi M., Ferlin A., Foresta C., La Vignera S., Maggi M., Pivonello R., Vignozzi L., Lombardo F. Male and female sexual dysfunction in diabetic subjects: Focus on new antihyperglycemic drugs (2020) Reviews in Endocrine and Metabolic Disorders, 21 (1), pp. 57 – 65 DOI: 10.1007/s11154-019-09535-7
24. Santi D., De Vincentis S., Alfano P., Balercia G., Calogero A.E., Cargnelutti F., Coccia M.E., Condoirelli R.A., Dal Lago A., de Angelis C., Gallo M., Iannantuoni N., Lombardo F., Marino A., Mazzella M., Pallotti F., Paoli D., Pivonello R., Rago R., Rampini M., Salvio G., Simoni M. Use of follicle-stimulating hormone for the male partner of idiopathic infertile couples in Italy: Results from a multicentre, observational, clinical practice survey (2020) Andrology, 8 (3), pp. 637 – 644 DOI: 10.1111/andr.12748

