

EAA Andrology Training Centre
Centre Report

2022



University Hospitals Leuven, Gasthuisberg

Andrology unit

Herestraat 49

3000 Leuven

Belgium

Website: <https://www.uzleuven.be/nl/endocrinologie/andrologische-stoornissen>

CENTRE REPORT

History of Centre

The Leuven andrology centre is more than 50 years old. The first pioneer and founder of andrology in Leuven was Prof. Omer Steeno. He started an andrology outpatient clinic as well as a sperm lab in 1966 within the division of endocrinology, after following a specific andrology training in Germany and the USA.

From the early days on, there has been a very active andrological research interest in Leuven. Prof. Guido Verhoeven started a research lab investigating the role of androgens in spermatogenesis. Prof. Frank Claessens, prof. Dirk Vanderschueren and prof. Leen Antonio now continue this andrological research. Currently also prostate cancer and other non-reproductive targets of sex steroid action such as bone, muscle, brain and kidney are investigated within the centre.

Organization of Centre

The clinical activity of the Leuven andrology centre is characterized by a close collaboration between the division of urology (prof. Maarten Albersen, prof. Frank Van der Aa, prof. Guy Bogaert, and dr. Koen Van Renterghem) and endocrinology (prof. Dirk Vanderschueren, prof. Leen Antonio, dr. Philippe Marcq and prof. Brigitte Decallonne). Both divisions have specific andrology outpatient clinics and offer tertiary management and treatment as well as training for the full spectrum of andrological pathology.

The andrology centre is responsible for the diagnostic sperm lab (director prof. Carl Spiessens) and for the cryopreservation of sperm (including donor banking and banking for oncological patients) as well as the surgical care of andrological patients (prof. Maarten Albersen).

There is also close interaction with the fertility centre. The andrologists are involved in the clinical care of patients suffering from male subfertility as well as the donor insemination program. Regular clinical multidisciplinary staff meetings for case discussions are organized (andrologist, gynaecologist, genetic counselor and sexologist).

Furthermore, the andrologists and endocrinologists are involved in the medical steering committee for hormonal assays. In recent years, we were able to develop and validate specific LC-MS/MS assays for steroid hormone measurements (prof. Dirk Vanderschueren, prof. Leen Antonio and prof. Brigitte Decallonne).

Prof. Frank Claessens (Molecular Endocrinology) is senior basic scientist involved in the field of andrology both in healthy androgen action as in disease such as in prostate cancer research.

Additionally, there is a close interaction with the centre for clinical sexology and sex therapy and the centre for human genetics. See organizational chart on page 14.

Educational activities

The master of medicine contains introductory courses for endocrinology and urology, also covering basic aspects of andrology. Every year, several medical students do a master thesis in the field of andrology.

Andrology is not a recognized specialty in Belgium. However, specialists in training for internal medicine, endocrinology and urology can follow the course 'Male sexual (dys)function, andrology and fertility' (14 hours, organized by prof. Leen Antonio and prof. Maarten Albersen) during their specialist training and participate to the andrology outpatient clinics. Urologists are trained in andrological surgical interventions.

In addition to this training, there is an opportunity for a more dedicated andrology track for those urologists and endocrinologists who want to obtain the EAA certification of clinical andrologist (obtained in March 2022 by one of our endocrinology fellows dr. Karel David and more recently in March 2023 obtained by another three of our endocrinology fellows). This program may also involve clinical research.

Furthermore, male reproductive physiology (8 hours, prof. Leen Antonio) and a specific andrology course (20 hours, prof. Dirk Vanderschueren and prof. Maarten Albersen) is organized in the master of sexology. Each year, several students from the master of sexology choose our andrology centre for their master thesis as well.

The andrology centre is also responsible for the andrological training of ESHRE-fellows in reproductive medicine.

In November 2018 we had a visiting fellow from Portugal (Dr. Nelson Cunha) and in 2022 we had a visiting fellow from the University of Antwerp (dr. J Van Cauwenberghe).

Both Prof. Dirk Vanderschueren and prof. Leen Antonio Leen are regularly invited to participate in the educational activities organized by the EAA as well as ESE. In 2022 prof. Dirk Vanderschueren was clinical chair of the European Congress of Andrology in Barcelona (19-10-2022 until 22-10-2022). Furthermore, they are both members of committees compiled by the EAA: Prof. Dirk Vanderschueren is member of the accreditation committee of the EAA that decided upon certifying new EAA training centres. Prof. Leen Antonio is member of the guidelines committee of the EAA that is responsible for preparing high quality clinical practice guidelines for andrologists. In 2018, prof. Dirk Vanderschueren and prof. Leen Antonio were actively involved in the writing of EAA guidelines, such as the guideline on the management of bone health in the andrological outpatient clinic (DOI: 10.1111/andr.12470). Both prof. Leen Antonio and prof. Dirk Vanderschueren are also member of the EAA initiative on andrology awareness as well as active members of the ANDRONET cost action.

Research activities

The primary research focus of the centre has been on androgen signaling and action.

The research coordinator of this program is prof. Frank Claessens. Our research program investigates different aspects of androgen action from bench to bedside, including epidemiological, clinical, fundamental as well as translational research (animal models of androgen action). The core collaboration is between the lab of clinical and experimental endocrinology (prof. Dirk Vanderschueren, prof. Leen Antonio and prof. Brigitte Decallonne) and molecular and cellular endocrinology (prof. Frank Claessens). Our research is supported by a university grant as well as governmental grants. There are actually 1 postdoc and 10 PhD Students. The centre

also intensively participates in the European Male Ageing Study (EMAS) as well in the international consortium AIMS.

At the most recent ECA meeting of 2022 we had poster presentations of our research with one research topic winning a best poster price and Prof. Leen Antonio presented a 'meet the professor' session. Furthermore, we also regularly publish in the society journal *Andrology*. From October 2018 till January 2019 prof. Leen Antonio did a fellowship at the EAA centre of Copenhagen (Centre director dr. Niels Jørgensen), supported by an EAA travel grant. For male sexual dysfunction we have established basic research lines (prof. Maarten Albersen, urology) in the study of the pathophysiology of erectile dysfunction following prostatectomy and in Peyronie's disease. Funding for the study of Peyronie's disease was established as well.

Furthermore, we are studying the treatment of penile fibrosis (both cavernous Fibrosis and Peyronie's disease) with stem cell therapy (1 PhD student).

Moreover, we are recognized as the referral centre for penile cancer in Flanders which is closely linked to andrological pathology. Clinical oncological and functional outcomes research in penile cancer are evaluated.

Clinical activities

The clinical activities of the centre include a coordinated program of clinical care of andrological patients. The clinical care is organized in specific clinical pathways (male reproductive disorders, male sexual dysfunction, male hypogonadism, gynecomastia, Klinefelter syndrome...). Clinical care consist of:

- 1) Diagnosis, counselling, medical treatment and management of andrological disorders in the two outpatient clinics of andrology within the divisions of endocrinology and urology (prof. Dirk Vanderschueren, prof. Leen Antonio and prof. Maarten Albersen). These clinics are organized in the same hospital. There is close interaction and referral between the two divisions, as well as with the fertility centre.
 - 2) Nurse-led clinics for counselling and education of patients with male sexual dysfunction.
 - 3) Laboratory diagnosis of andrology disorders which involve not only the sperm lab but also the genetics and hormonology labs.
 - 4) Radiological diagnosis of andrological disorders with the radiological department (director dr. Liesbeth De Wever).
 - 5) Surgical treatment of andrology disorders within the urology division.
 - 6) Sexological as well as fertility counselling within the hospital setting (director Paul Enzlin).
 - 7) Transgender clinic in collaboration with department of psychology and sexology (Rick Roels, Cathelijn Kames, Paul Enzlin)
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Name and address of Centre

University Hospitals Leuven, Gasthuisberg
 Andrology unit
 Herestraat 49
 3000 Leuven
 Belgium

Type of Centre

University
 University Hospital
 Private Centre
 Other (please specify) _____

1. Director

Dirk Vanderschueren, MD, PhD

Academician Affiliated Member Clinical Andrologist

2a. Clinical responsible

Maarten Albersen, MD, PhD

Academician Affiliated Member Clinical Andrologist

2b. Clinical responsible

Leen Antonio, MD, PhD

Academician Affiliated Member Clinical Andrologist

2c. Clinical responsible

Brigitte Decallonne, MD, PhD

Academician Affiliated Member Clinical Andrologist

2d. Clinical responsible

Philippe Marcq, MD

Academician Affiliated Member Clinical Andrologist

3. Present Staff (*Senior Scientists*)

- 1) Name Dirk Vanderschueren
 Degree MD, PhD
 Speciality Clinical endocrinology
 Academician Affiliated Member Clinical Andrologist
- 2) Name Frank Claessens
 Degree PhD
 Speciality Molecular endocrinology
 Academician Affiliated Member Clinical Andrologist
- 3) Name Carl Spiessens
 Degree PhD
 Speciality Embryologist - head of clinical andrology lab
 Academician Affiliated Member Clinical Andrologist
- 4) Name Maarten Albersen
 Degree MD, PhD
 Speciality Urology
 Academician Affiliated Member Clinical Andrologist
- 5) Name Brigitte Decallonne
 Degree MD, PhD
 Speciality Clinical endocrinology
 Academician Affiliated Member Clinical Andrologist
- 6) Name Leen Antonio
 Degree MD, PhD
 Speciality Clinical endocrinology
 Academician Affiliated Member Clinical Andrologist
- 7) Name Adelheid Soubry
 Degree PhD
 Speciality Epigenetics and epidemiology
 Academician Affiliated Member Clinical Andrologist

8) Name Eftychia Dimitriadou
 Degree PhD
 Speciality Human genetics

Academician Affiliated Member Clinical Andrologist

Insert any additional staff below (if required)

MD/Biologists/Chemists

1) Name Philippe Marcq
 Degree MD
 Speciality Clinical endocrinology
 Full time/part time Part time

Academician Affiliated Member Clinical Andrologist

2) Name Rick Roels
 Degree MD, PhD
 Speciality Sexology
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

3) Name Paul Enzlin
 Degree PhD
 Speciality Sexology
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

Insert any additional staff below (if required)

Specialists

1) Name Hilde Toelen (sexology)
 2) Name Cathelijn Kames (sexology and transgender medicine)
 3) Name Annemie Mengels (embryology)
 4) Name Sophie Debrock (embryology)

Postdocs

1) Name Christine Helsen

PhD Students

1) Name Karel David
 2) Name Nick Narinx
 3) Name Elien Smeets
 4) Name Roy Eerlings
 5) Name Xiao Yin

- 6) Name Wout Devlies
- 7) Name Vera Sommers
- 8) Name Gaetan De Vos
- 9) Name Kaat Peperstraete
- 10) Name Hussein Mohamed Atef Fadel

Nurses

- 1) Name Hilde Morobé
- 2) Name Renka Van Heyste
- 3) Name Sofie Vandenhoeck
- 4) Name Jasmin Paulus
- 5) Name Brontë Vrancken
- 6) Name Eline Roelants
- 7) Name Charlien Janssen
- 8) Name Natalie Van den Driessche
- 9) Name Marijke Carpentier

Laboratory Technicians

- 1) Name Pascale Bols
- 2) Name Elly Vergison
- 3) Name Ludo Deboel
- 4) Name Dieter Schollaert
- 5) Name Hilde De Bruyn
- 6) Name Linsey Hollanders

Clinical Support Managers

- 1) Name Sara Charleer
- 2) Name Margo Hulsmans
- 3) Name Nele Vanmechelen

Administrative Personnel

- 1) Name Nadia Scheys
- 2) Name Christel Van Meerbeeck
- 3) Name Ilse Smets
- 4) Name Sarah Cordie

4. Clinical Activity

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

| | 2020 | 2021 | 2022 |
|--------------------|------|------|------|
| New patients | 892 | 1287 | 1121 |
| Follow-up patients | 690 | 707 | 794 |

| Type of patients in the last years | 2020 | 2021 | 2022 |
|---|-----------------------|-----------------------|-----------------------|
| Male infertility (of which 10% with varicocele) | 622 | 995 | 897 |
| Male sexual dysfunction | 509 | 565 | 569 |
| Male hypogonadism | 253 | 228 | 234 |
| Klinefelter | 21 | 40 | 46 |
| Gynaecomastia | 48 | 57 | 54 |
| Cryptorchidism (orchidopexy) | 55 | 47 | 48 |
| Testicular tumours | New: 40 Total: 263 | New: 41 Total: 277 | New: 51 Total: 292 |
| Disorders of gender identity | 44 | 56 | 70 |
| Other (delayed puberty, hypersexuality) | 169 | 175 | 189 |

B. Ultrasound (testis, penile, prostate) *

| | 2020 | 2021 | 2022 |
|-------|---|---|---|
| Total | Testis: 1050 Penis: 46 Prostate: 1755 | Testis: 1183 Penis: 73 Prostate: 2050 | Testis: 1183 Penis: 57 Prostate: 1754 |

* performed at the Department of Radiology

C. Andrological surgery procedures

| | 2020 | 2021 | 2022 |
|---|------|------|------|
| Radiology | | | |
| Varicocele treatment (ligation, embolization) | 8 | 12 | 11 |
| Prostate biopsies | 366 | 435 | 373 |
| Urology | | | |
| Testicular biopsies | 27 | 40 | 28 |
| BPH (TURP, HoLEP, Millin) | 88 | 162 | 127 |
| Prostate cancer (radical prostatectomies) | 177 | 155 | 133 |
| Vasectomy | 145 | 157 | 137 |
| Vaso-vasostomy | 3 | 3 | 1 |
| Penile cancer procedures | 39 | 63 | 74 |

5. A. Andrology laboratory activity

| | 2020 | 2021 | 2022 |
|-------------------------|------|------|------|
| Semen analyses | 1320 | 1920 | 1493 |
| Sperm antibodies | 360 | 384 | 360 |
| Seminal markers | 237 | 247 | 151 |
| Diagnostic capacitation | 418 | 469 | 412 |

5. B. Andrology laboratory activity

Sperm banking donors Yes No Sperm banking cancer patients and other patients Yes No

If yes:

| | 2020 | 2021 | 2022 |
|-------------------|------|------|------|
| Number of samples | 130 | 192 | 161 |

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

Reproductive Hormones Assays

| Type of assay | 2022 |
|---------------|-------|
| FSH | 14946 |
| LH | 14579 |
| Inhibin B | 80 |
| Testosterone | 5790 |
| Prolactin | 5289 |
| Oestradiol | 1155 |

We have in-house developed LC-MS/MS methods for testosterone/androstenedione and estradiol available

5. E. Y chromosome microdeletions according to EAA/EMQN guidelines Yes No **If yes** number of tests in the past year: 1127Participation to the EAA quality control scheme? Yes No Blood karyotyping Yes No

Other genetic tests (please specify)

- Exome sequencing of some primary prostate cancer samples
- RNA-seq and spatial transcriptomic, spatial lipidomics on PCa tumor samples

- Cystic fibrosis
- Whole-exome sequencing for non-obstructive azoospermia (starting 2023)
- Pre-implantation genetic diagnosis
- Amniotic fluid karyotyping

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

| | | |
|-----------------------------|---|-----------------------------|
| IVF Unit | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Urology Clinic | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Endocrine Clinic | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Genetics Lab/Unit | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Paediatric Unit | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Central Hospital Laboratory | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Private Centres | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

7. Clinical teaching activity

Duration of training (years):

| | Number |
|---|--------|
| A: Trainees in the last five years | 4 |
| 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 | 1 |
| D: PhD Students | 8 |
| E: Medical Students | 6 |
| F: Other students (MSc) | 6 |

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 | 4 | |
| PhD Students | | 4 hours/week |
| Fellows | 16 | 6 hours/week (4 months internal medicine – 2 years endocrinology) |
| Students in sexology | 26 | |

9. Research Activity (maximum 1 page)

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

The full list of publications (years 2017 - 2022) are presented at the end of this report.

1. Better estimates of hormonal exposure to improve diagnosis and treatment in endocrine disease (BEED-ED) (L Antonio – N Narinx)
<https://www.andrologyacademy.net/latest-news/150-invitation-to-beed-ed-survey>
2. Tissue specific modulation of glucocorticoid effects by androgens (F Claessens – V Sommers D Vanderschueren)
3. Androgen action in chronic kidney disease (B Decallonne, P Evenepoel, F Claessens – K David- D Vanderschueren)
4. Structural biology of the androgen receptor to understand how AR acts as a transcription factor (F Claessens, C Helsen, S El Kharraz - K Peperstraete)
5. Structural biology of the human androgen receptor for next generation drug design (F Claessens, C Helsen, A Voet - X Y Lee)
6. Development of artificial nuclear receptors, the synthetic yeast approach (F Claessens, K Verstrepen, A Voet, C - R Eerlings)
7. Molecular profiling of high-risk prostate cancer (F Claessens, S Joniau – W Devlies)

10. Research Funding

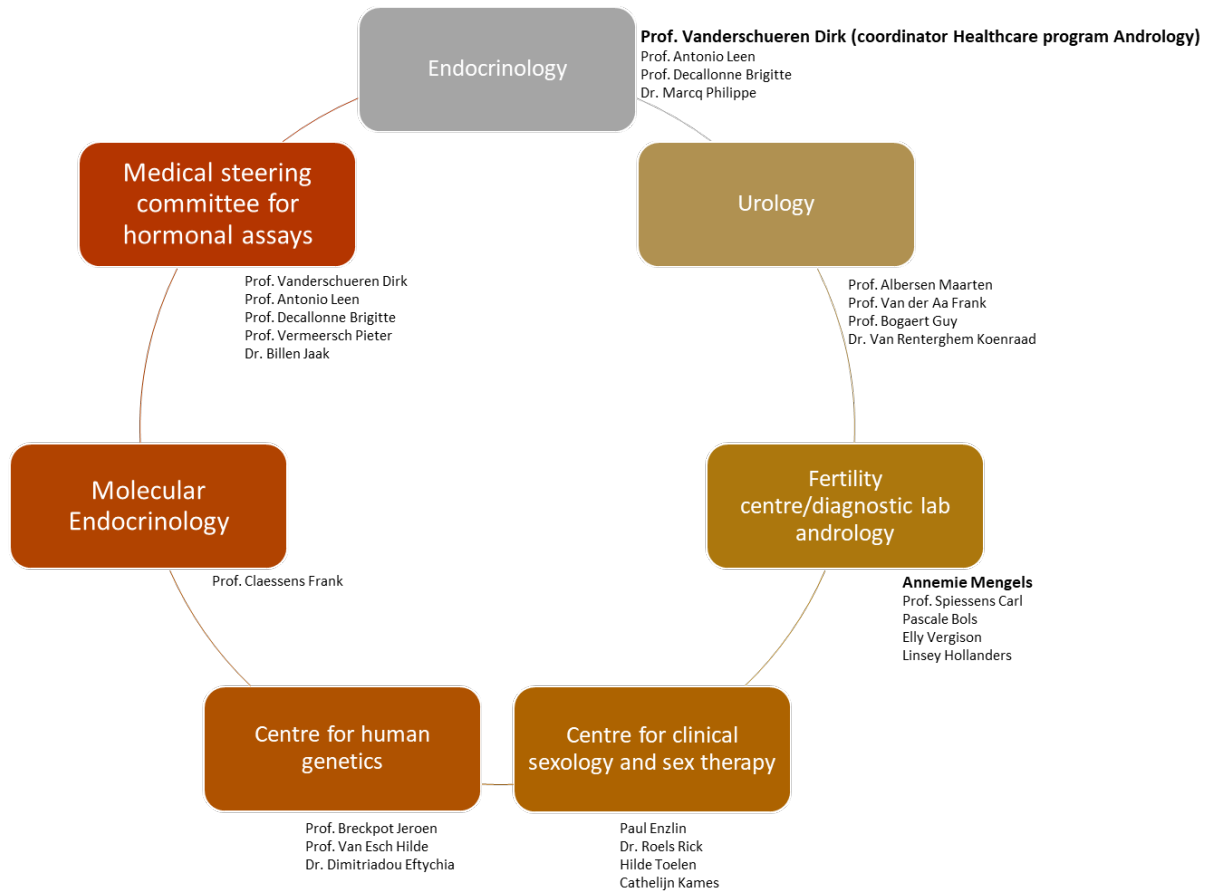
Please specify the amount of available funds in the last 3 years and their source (Government, European Union, University, Local Government, Pharmaceutical Industries, Banks, Foundations....)

| | |
|--------------------------|-----------------------------------|
| Year | 2020 |
| Total amount (€) | ca. 1.100.000 |
| Funding Source(s) | University-Government-Foundations |

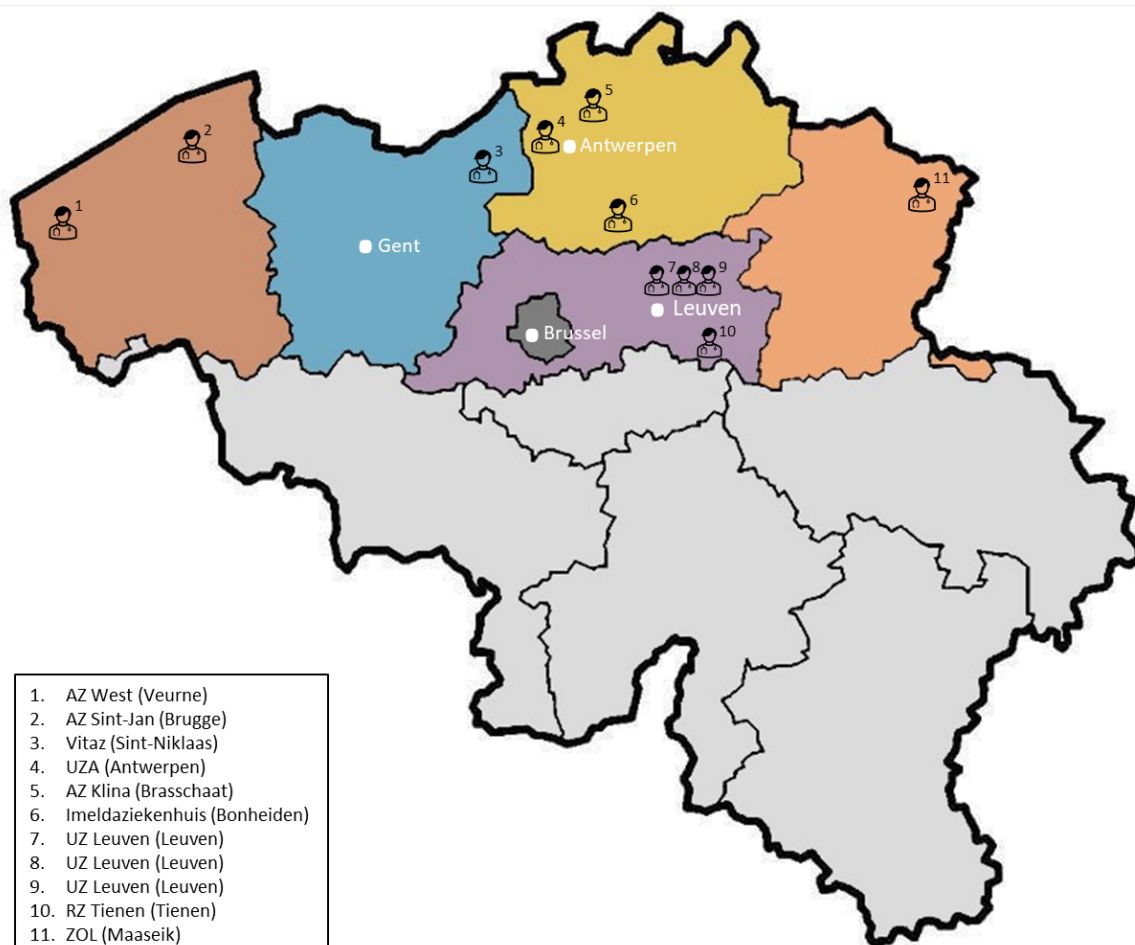
| | |
|--------------------------|-----------------------------------|
| Year | 2021 |
| Total amount (€) | ca. 1.100.000 |
| Funding Source(s) | University-Government-Foundations |

| | |
|--------------------------|-----------------------------------|
| Year | 2022 |
| Total amount (€) | ca. 1.100.000 |
| Funding Source(s) | University-Government-Foundations |

ORGANIZATION CHARTS: the program of care of andrological patients in Leuven consists of a well-organized multidisciplinary network



CONTRIBUTION OF OUR CENTRE TO EDUCATIONAL ANDROLOGY ACTIVITY IN FLANDERS: every pictogram is a clinical andrologist who was trained in the Leuven centre and received the EAA certification of clinical andrologist. This figure illustrates that our collaborating EAA clinical andrologists are active in every province of Flanders.



CENTRE PHOTOS

Figure 1: External view of University hospital of Leuven



Figure 2: Entrance of the andrology lab at the Fertility centre



Figure 3: Cryopreservation facility



FULL LIST OF PUBLICATIONS (with IF) of staff members between 1-1-2017 and 31-12-2022

Journal articles

Willems, S., David, K., Decallonne, B., Marcq, P., Antonio, L., Vanderschueren, D. (2023). The effect of testosterone treatment on bone mineral density in Klinefelter syndrome: A retrospective cohort study. *Andrology*. doi: [10.1111/andr.13411](https://doi.org/10.1111/andr.13411)

David, K., Narinx, N., Antonio, L., Evenepoel, P., Claessens, F., Decallonne, B., Vanderschueren, D. with Vanderschueren, D. (corresp. author) (2022). Bone health in ageing men. *REVIEWS IN ENDOCRINE & METABOLIC DISORDERS*, 23 (6), 1173-1208. doi: [10.1007/s11154-022-09738-5](https://doi.org/10.1007/s11154-022-09738-5) [Open Access](#)

Helsen, C., Nguyen, T.T., Lee, X.Y., Eerlings, R., Louros, N., Schymkowitz, J., Rousseau, F., Claessens, F., Voet, A. with Voet, A. (corresp. author) (2022). Exploiting Ligand-binding Domain Dimerization for Development of Novel Androgen Receptor Inhibitors. *MOLECULAR CANCER THERAPEUTICS*, 21 (12), 1823-1834. doi: [10.1158/1535-7163.MCT-22-0340](https://doi.org/10.1158/1535-7163.MCT-22-0340)

Van Cauwenberghe, J., De Block, C., Vanderschueren, D., Antonio, L. with Van Cauwenberghe, J. (corresp. author) (2022). Effects of treatment for diabetes mellitus on testosterone concentrations: A systematic review. *ANDROLOGY*. doi: [10.1111/andr.13318](https://doi.org/10.1111/andr.13318)

Ivell, R., Heng, K., Severn, K., Antonio, L., Bartfai, G., Casanueva, F.F F., Huhtaniemi, I.T T., Giwercman, A., Maggi, M., O'Connor, D.B B., O'Neill, T.W W., Punab, M., Rastrelli, G., Slowikowska-Hilczer, J., Tournoy, J., Vanderschueren, D., Wu, F.C W., Anand-Ivell, R. with Anand-Ivell, R. (corresp. author) (2022). The Leydig cell biomarker INSL3 as a predictor of age-related morbidity: Findings from the EMAS cohort. *FRONTIERS IN ENDOCRINOLOGY*, 13, Art.No. ARTN 1016107. doi: [10.3389/fendo.2022.1016107](https://doi.org/10.3389/fendo.2022.1016107) [Open Access](#)

Narinx, N., David, K., Walravens, J., Vermeersch, P., Claessens, F., Fiers, T., Lapauw, B., Antonio, L., Vanderschueren, D. with Vanderschueren, D. (corresp. author) (2022). Role of sex hormone-binding globulin in the free hormone hypothesis and the relevance of free testosterone in androgen physiology. *CELLULAR AND MOLECULAR LIFE SCIENCES*, 79 (11), Art.No. ARTN 543. doi: [10.1007/s00018-022-04562-1](https://doi.org/10.1007/s00018-022-04562-1)

Kilpatrick, L.E., Bouillon, R., Davis, W.C., Henderson, C.M., Hoofnagle, A.N., Pauwels, S., Vanderschueren, D., Waelkens, E., Wildiers, H., Yen, J.H., Phinney, K.W. with Kilpatrick, L.E. (corresp. author) (2022). The influence of proteoforms: assessing the accuracy of total vitamin D-binding protein quantification by proteolysis and LC- MS/MS. *CLINICAL CHEMISTRY AND LABORATORY MEDICINE*, 61 (1), 78-85. doi: [10.1515/cclm-2022-0642](https://doi.org/10.1515/cclm-2022-0642)

Thomas, J-L., Bruzzone, R., El-Osta, A., Claessens, F., Ruysschaert, J-M., Wilson, D.M. with Thomas, J-L. (corresp. author) (2022). Tribute to Klaus Eichmann, Editor-in-Chief of Cellular and Molecular Life Sciences. *CELLULAR AND MOLECULAR LIFE SCIENCES*, 79 (10), Art.No. ARTN 529. doi: [10.1007/s00018-022-04532-7](https://doi.org/10.1007/s00018-022-04532-7)

Devos, G., Tosco, L., Baldewijns, M., Gevaert, T., Goffin, K., Petit, V., Mai, C., Laenen, A., Raskin, Y., Van Haute, C., Goeman, L., De Meerleer, G., Berghen, C., Devlies, W., Claessens, F., Van Poppel, H., Everaerts, W., Joniau, S. (2022). ARNEO: A Randomized Phase II Trial of Neoadjuvant Degarelix with or Without Apalutamide Prior to Radical Prostatectomy for High-risk Prostate Cancer. *Eur Urol*. doi: [10.1016/j.eururo.2022.09.009](https://doi.org/10.1016/j.eururo.2022.09.009)

Overman, M.J., Pendleton, N., O'Neill, T.W., Bartfai, G., Casanueva, F.F., Forti, G., Rastrelli, G., Giwercman, A., Han, T.S., Huhtaniemi, I.T., Slowikowska-Hilczer, J., Lean, M.E J., Punab, M., Lee, D.M., Antonio, L., Gielen, E., Rutter, M.K., Vanderschueren, D., Wu, F.C W., Tournoy, J. with Tournoy, J. (corresp. author) (2022).

Reproductive hormone levels, androgen receptor CAG repeat length and their longitudinal relationships with decline in cognitive subdomains in men: The European Male Ageing Study. *PHYSIOLOGY & BEHAVIOR*, 252, Art.No. ARTN 113825. doi: [10.1016/j.physbeh.2022.113825](https://doi.org/10.1016/j.physbeh.2022.113825) [Open Access](#)

El Kharraz, S., Dubois, V., Launonen, K-M., Helminen, L., Palvimo, J., Libert, C., Smeets, E., Moris, L., Eerlings, R., Vanderschueren, D., Helsen, C., Claessens, F. with Claessens, F. (corresp. author) (2022). N/C interactions are dispensable for normal in vivo functioning of the androgen receptor in male mice. *Endocrinology*, 163 (9), Art.No. bqac104. doi: [10.1210/endocr/bqac104](https://doi.org/10.1210/endocr/bqac104) [Open Access](#)

Anand-Ivell, R., Heng, K., Severn, K., Antonio, L., Bartfai, G., Casanueva, F.F., Huhtaniemi, I.T., Giwercman, A., Maggi, M., O'Neill, T.W., Punab, M., Rastrelli, G., Slowikowska-Hilczer, J., Tournoy, J., Vanderschueren, D., Wu, F.C W., Ivell, R. with Ivell, R. (corresp. author) (2022). Association of age, hormonal, and lifestyle factors with the Leydig cell biomarker INSL3 in aging men from the European Male Aging Study cohort. *ANDROLOGY*, 10 (7), 1328-1338. doi: [10.1111/andr.13220](https://doi.org/10.1111/andr.13220) [Open Access](#)

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