

EAA Andrology Training Centre
Centre Report

2017



Cairo Center

Department of Andrology, Faculty of Medicine, Cairo University
Center for Fertility and Andrology Care (CFAC)

CENTRE REPORT

History of Centre

The EAA-Cairo Centre is a joint collaboration between two units: the Department of Andrology at Kasr El Aini Faculty of Medicine, Cairo University, and Kamal Shaeer Hospital, Center for Fertility and Andrology Care (CFAC), Cairo, Egypt. Kasr AL-Aini Medical School and Hospital was founded in the year 1826. The Department of Andrology was then called “the Department of Secret Diseases”, focused on the management of the then-pandemic sexually transmitted diseases; Syphilis and Gonorrhoea. It then evolved in the nineteen sixties into the Department of Dermatology and Venereology, offering the MSc and MD degrees. In the year 2000, with the further evolution of surgical Andrology and Assisted Reproduction, Prof.Kamal Shaeer affected the widest step in development, where the Department of Andrology took its place as a stand-alone department, offering the MSc and MD degrees in Andrology, which was a first in the Middle East, inclusive of surgical training, laboratory Andrology, endocrinology and psychiatry, among other disciplines required for the management of infertility and sexual disorders of the male.

In parallel, the several scientific societies and journals in the field of Andrology came out of the Department of Andrology, including the Egyptian Society of Andrology, the Egyptian Society of Sexual Medicine and Surgery, the Pan-Arab Society of Andrology, the Egyptian Journal of Andrology, the Journal of Human Andrology, and the Journal of Genital Surgery.

On the other hand, Kamal Shaeer Hospital (Centre for Fertility and Andrology Care (CFAC)) was founded in 1996 as one of the first centres of excellence in Andrology and Assisted Reproduction, highly equipped to match the international clinical practice and training requirements in those domains as well as in laboratory and genetic Andrology.

Organization of Centre

Founder of Cairo Training Center: Prof.Kamal Shaeer
 Manager of Cairo Training Center: Prof.Osama Kamal Shaeer
 Head of the Department of Andrology Cairo University: Prof.Hussain Ghanem
 CEO of CFAC: Prof.Kamal Shaeer

Educational activities

Cairo Training Center (CTC) teaches Andrology for undergraduate and post-graduate medical students. For undergraduates, there is a three-week course in Andrology, followed by and MCQ exam. For post-graduates, CTC teaches and provides certification for the MSc and MD degrees in Andrology. Training includes clinical and surgical Andrology, endocrinology, genetics, lab-Andrology and psychiatry.

Our training program in preparation of EAA exam accepts candidates who have acquired the Diploma or MSc degree in Andrology or are in the process. Candidates are trained

under our supervision for one further year in clinical and surgical Andrology (including relevant Endocrinology, Psychiatry, imaging and laboratory techniques), then one year in Assisted Reproduction. Training is usually on part-time basis, with a minimum of 24 hours per week. Optional training is also provided in the genetic lab.

Research activities

Research activities issue an average of 30 international publications per year, in addition to MSc and MD theses, for an average of 8 MSc and 3 MD candidates per year

Clinical activities

1. Andrology Outpatient Clinic

The Andrology outpatient clinic is located in Central Cairo (capital of Egypt), operates four days a week and sees an average of 16 new consultations per working day. A satellite clinic is located in Luxor (Southern Egypt), operates three days a month and sees an average of 122 new consultations monthly. Approximately 40% of the consultations are in the field of erectile dysfunction, 45% infertility, and 15% in the domains of male genital enhancement surgery, premature ejaculation, delayed puberty, sexually transmitted diseases among other disorders. Residents are trained and monitored at all times by the hands of Prof. Dr. Kamal Zaki Mahmoud Shaeer and Prof. Dr. Osama Shaeer

2. Surgical Care

CFAC hosts three operation theaters, two major and one minor. Both major theaters are fully equipped for general surgery, plastic, laparoscopic, microscopic and gynecologic surgery, in addition to some urologic procedures related to Andrology including TURED. One theater adjoins the Embryolab for easy handing of surgically extracted sperm and oocytes to the embryologist. The major theaters are linked Audiovisually to a lecture room that can hold up to 40 audience at a time. All andrologic procedures are performed and taught in our institute including microsurgical sperm extraction, microsurgical varicocelelectomy, microsurgical vasectomy reversal, microsurgical epididymovasostomy, TURED and penile prosthesis implantation. We also perform procedures that have been developed in our institute and published internationally, including PSVV, correction of penile curvature by corporal rotation, genital elongation and broadening, revealing the buried phallus, among others. Attached are the full text papers for those procedures.

3. Assisted Reproduction

Our embryolab has been established since 1995 in association with Nottingham University, UK. We perform ICSI, PGD and IUI, gamete and embryo cryopreservation

and vitrification, in addition to all sperm preparation and examination procedures. We perform an average of 600 ICSI cycles per year.

4. Laboratory Services

A well equipped general laboratory serves Andrology, Gynecology and Endocrinology. Among the sperm preparation and evaluation techniques performed are CASA, swim up, gradient centrifugation, HOS, Acrosin, alpha glucosidase, fructose, L-carnitine measurement, reproductive hormone assays ..etc.

5. Genetic Analysis

Our genetic lab performs karyotyping and Y chromosome microdeletion

6. Imaging Services

The imaging unit performs and trains residents in all Andrology-related techniques including penile, scrotal, abdominopelvic ultrasonography, cavernometry, cavernosography, biesthesiometry and TRUS

7. Endocrinology Service

An Endocrinology clinic run by a senior Professor Endocrinologist affiliated to Cairo University serves all reproductive endocrinopathies including diabetes, obesity, adrenal, thyroid and other endocrine disorders.

8. Psychiatry and Counseling Service

Psychiatry consultation and Psycho-sexual counseling are provided by Prof.Dr.Sayeed Abdulazeem; Professor of Psychiatry at Cairo University, in conjunction with Prof.Dr.Kamal Zaki Mahmoud Shaeer, Prof.Dr.Osama Shaeer.

Name and address of Centre

The European Academy of Andrology, Cairo Training Center
21 Gaber Ibn Hayan Street, Dokki, Giza, Egypt

Type of Centre

| | |
|---------------------|-------------------------------------|
| University | <input checked="" type="checkbox"/> |
| University Hospital | <input checked="" type="checkbox"/> |
| Private Centre | <input checked="" type="checkbox"/> |

Other (please specify)

1. Director

Prof.Osama Shaeer

Academician

Affiliated Member

Clinical Andrologist

2a. Clinical responsible

Prof.Kamal Shaeer

Academician

Affiliated Member

Clinical Andrologist

2b. Clinical responsible

Islam Fathy Soliman Abdelrahman

Academician

Affiliated Member

Clinical Andrologist

2c. Clinical responsible

Academician

Affiliated Member

Clinical Andrologist

3. Present Staff (*Senior Scientists*)

1) Name Prof.Osama Shaeer
Degree Professor, MD, PhD
Speciality Andrology

Academician Affiliated Member Clinical Andrologist

2) Name Prof.Kamal Shaeer
Degree Professor, MD
Speciality Andrology

Academician Affiliated Member Clinical Andrologist

Insert any additional staff below (if required)

MD/Biologists/Chemists

1) Name Islam Fathy Soliman Abdelrahman
 Degree Lecturer, MD, MRCS, FECSM
 Speciality Andrology
 Full time/part time _____

Academician Affiliated Member Clinical Andrologist

2) Name _____
 Degree _____
 Speciality _____
 Full time/part time _____

Academician Affiliated Member Clinical Andrologist

3) Name _____
 Degree _____
 Speciality _____
 Full time/part time _____

Academician Affiliated Member Clinical Andrologist

4) Name _____
 Degree _____
 Speciality _____
 Full time/part time _____

Academician Affiliated Member Clinical Andrologist

5) Name _____
 Degree _____
 Speciality _____
 Full time/part time _____

Academician Affiliated Member Clinical Andrologist

6) Name _____
 Degree _____
 Speciality _____
 Full time/part time _____

Academician Affiliated Member Clinical Andrologist

7) Name _____
 Degree _____
 Speciality _____
 Full time/part time _____

Academician Affiliated Member Clinical Andrologist

8) Name _____
Degree _____
Speciality _____
Full time/part time _____

Academician Affiliated Member Clinical Andrologist

9) Name _____
Degree _____
Speciality _____
Full time/part time _____

Academician Affiliated Member Clinical Andrologist

10) Name _____
Degree _____
Speciality _____
Full time/part time _____

Academician Affiliated Member Clinical Andrologist

11) Name _____
Degree _____
Speciality _____
Full time/part time _____

Academician Affiliated Member Clinical Andrologist

12) Name _____
Degree _____
Speciality _____
Full time/part time _____

Academician Affiliated Member Clinical Andrologist

Insert any additional staff below *(if required)*

Specialists

- 1) Name _____
- 2) Name _____
- 3) Name _____
- 4) Name _____
- 5) Name _____

PhD Students

- 1) Name _____
- 2) Name _____
- 3) Name _____

Nurses

- 1) Name _____
- 2) Name _____
- 3) Name _____

Laboratory Technicians

- 1) Name _____
- 2) Name _____
- 3) Name _____

Administrative Personnel

- 1) Name _____
- 2) Name _____
- 3) Name _____

4. Clinical Activity

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

| | 2014 | 2015 | 2016 |
|--------------------|------|------|------|
| New patients | 612 | 5200 | 8309 |
| Follow-up patients | | | |

| Type of patients in the last years (%) | 2014 | 2015 | 2016 |
|--|-------|--------|--------|
| Infertility | 24.7% | 23.6% | 22.01% |
| Erectile dysfunction | 33.7% | 42.7% | 46% |
| Hypogonadotropic Hypogonadism | 0.16% | 0.13% | 0.084% |
| Klinefelter | | | |
| Gynaecomastia | 0.16% | 0.1% | 0.096% |
| Varicocele | 30.3% | 30.4% | 30.2% |
| Cryptorchidism | 0.16% | 0.27% | 0.18% |
| Male sex accessory gland infections | 1.5% | 0.82% | 1.07% |
| Testicular tumours | 0 | 0.04% | 0.036% |
| Disorders of gender identity | | | |
| Other | 29% | 26.01% | 23.3% |

B. Ultrasound (testis, penile, prostate) *

| | 2014 | 2015 | 2016 |
|----------|------|------|------|
| Total | 250 | 931 | 1125 |
| Controls | 0 | 0 | 0 |

* performed at the Department of Radiology

C. Andrological surgery procedures

| | 2014 | 2015 | 2016 |
|---------------------|------|------|------|
| Testicular biopsies | 11 | 14 | 69 |
| Varicocele ligation | 40 | 134 | 181 |
| Prostate biopsies | 0 | 0 | 0 |
| BPH | 0 | 0 | 0 |
| Prostate cancer | 0 | 0 | 0 |
| Vasectomy | 0 | 0 | 0 |
| Vaso-vasostomy / EV | 0 | 8 | 5 |
| Other | 26 | 115 | 196 |

5. A. Andrology laboratory activity

| | 2014 | 2015 | 2016 |
|--------------------------------|------|------|------|
| Semen analyses | 1912 | 1964 | 2208 |
| Sperm antibodies | 0 | 0 | 0 |
| Seminal markers | 101 | 130 | 99 |
| Urine examination | 2736 | 2196 | 2393 |
| Urine after orgasm | 49 | 56 | 66 |
| E.P.S. | 512 | 406 | 248 |
| Urethral discharge examination | 35 | 23 | 20 |

5. B. Andrology laboratory activity

Sperm banking donors Yes No Sperm banking cancer patients Yes No

| <i>If yes:</i> | | | |
|-------------------|------|------|------|
| | 2014 | 2015 | 2016 |
| Number of samples | | | |

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
(FSH, LH, testosterone, SHBG, prolactin)5. E. Y chromosome microdeletions according to EAA/EMQN guidelines Yes No

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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)

FISH sperm

Pre-implantation genetic diagnosis

Amniotic fluid karyotyping

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

IVF Unit Yes No
If yes please specify: Children, Endocrinology, IVF, Urology, Genetics, Pathology

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:

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 | 1 |
| C: Trainees working in the centre preparing to pass the EAA-ESAU examination | 7 |
| D: PhD Students | 12 |
| E: Medical Students (undergraduate) | ±1200/Year |
| F: Other students (MSc) | 22 |

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 | 12 Hours / Year | ----- |
| PhD Students | 168 Hours / Year | 4 days/week for 2 Years |
| Post Graduate students | 120 Hours | 4 days/week for 3 Years |
| Trainees | 120 Hours | 4 days/week for 3 Years |
| Other degrees (please specify) | | |

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 - 2015) 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

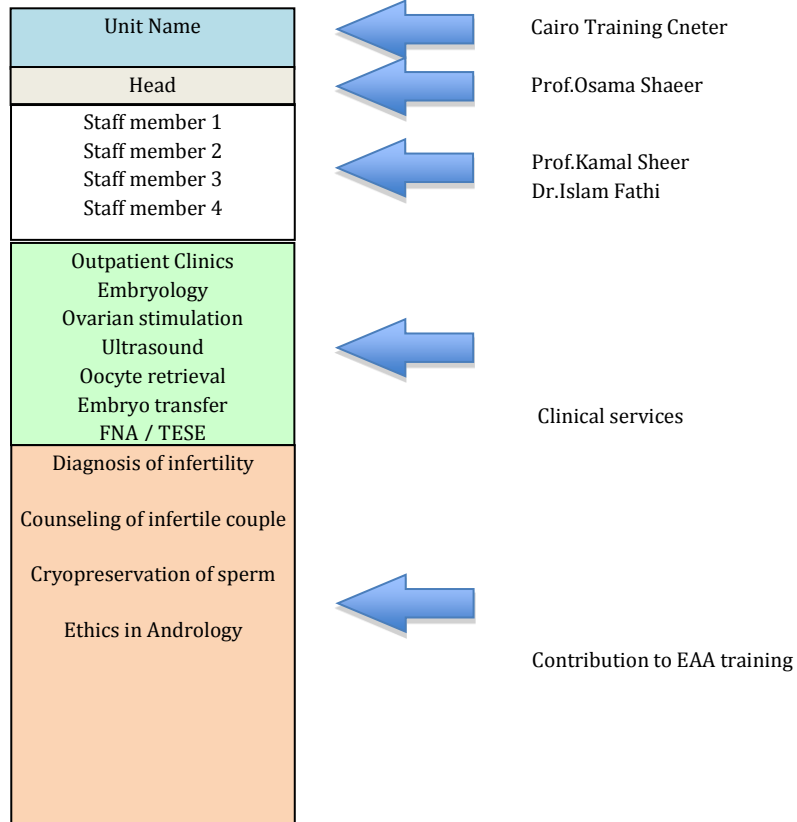
Total amount (€)

Funding Source(s)

Insert any additional funding below if required

ORGANIZATION CHARTS

Organization charts legend: Department / Unit Structure



CENTRE PHOTOS

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