

EAA Andrology Training Centre
Centre Report



2023

Aristotle University of Thessaloniki
Thessaloniki, Greece

CENTER REPORT



History of the Center

The Aristotle University of Thessaloniki (AUTH) Training Center in Andrology was accredited by the European Academy of Andrology (EAA) in 2014. At that time, it was the only such center in the Balkans. The AUTH has a strong andrological tradition started in the 80's with the appointment of an EAA academician, Professor Ioannis Papadimas, as professor of Reproductive Endocrinology.

The main motivation for the establishment of the AUTH Training Center was to provide the opportunity to early career endocrinologist and urologists to be formally trained in Andrology. As the Center was established after the publication of the European Academy of Andrology (EAA) - European Society of Andrological Urology (ESAU) Joint Educational Curriculum for Clinical Andrology Training in Europe: The Sub-specialty in Andrology (https://www.andrologyacademy.net/pdf/EAA_Curriculum.pdf), it was ensured that it fulfils all the necessary educational, research and clinical requirements.

To accomplish its tasks, the AUTH Training Centre joins the forces of six academic units:

- Endocrinology / Reproductive Endocrinology (1st Department of Obstetrics-Gynecology located at the "Papageorgiou" General Hospital)
- Obstetrics-Gynecology / Human Reproduction / Reproductive Genetics (1st Department of Obstetrics-Gynecology located at the "Papageorgiou" General Hospital)
- Urology (1st Department of Urology located at the "George Gennimatas" General Hospital and 2nd Department of Urology located at the "Papageorgiou" General Hospital)
- Psychiatry / Psychosexology (1st Department of Psychiatry located at the "Papageorgiou" General Hospital)
- Pediatrics / Pediatric Endocrinology (2nd Department of Pediatrics located at the "AHEPA" General Hospital)

In addition, the Centre is supported by several laboratories of the National Health System (NHS) located at the "Papageorgiou" General Hospital (Microbiology, Biochemistry, Virology, Radiology, Cytology, Pathology). Finally, it collaborates with private Andrology laboratories located in the city of Thessaloniki, which are directed by EAA affiliated members.

The "Papageorgiou" General Hospital was established in 2000 and is one of the biggest hospitals in the Northern Greece. Indicative metrics (data for the years 2001-2022):

- 94,205 admissions (inpatients)
- 12,552 surgical operations
- 244,227 outpatient visits

Since, its establishment the Center has shown great educational, research and clinical activities (see corresponding sections below). It has trained many scientists that have successfully attended the examinations for the title of Clinical Andrologist.

In conclusion, the AUTH Training Center in Andrology has all the requirements to offer formal clinical training to colleagues that want to expand their expertise in Andrology.

Websites

- **Aristotle University of Thessaloniki (AUTH):** <https://www.auth.gr/en>
 - **“Papageorgiou” General Hospital:** <https://www.papageorgiou-hospital.gr>
 - **EAA training Center:** <https://dimitriosgoulis.org/training-center-european-academy-of-andrology/>
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Organization of the Center

The AUTH Training Center has as cornerstone the 1st Department of Obstetrics-Gynecology, which hosts the Units of Reproductive Endocrinology and Human Reproduction.

In total, it joins the forces of five academic units:

- Endocrinology / Reproductive Endocrinology (1st Department of Obstetrics-Gynecology located at the “Papageorgiou” General Hospital)
- Obstetrics-Gynecology / Human Reproduction / Reproductive Genetics (1st Department of Obstetrics-Gynecology located at the “Papageorgiou” General Hospital)
- Urology (2nd Department of Urology located at the “Papageorgiou” General Hospital)
- Psychiatry / Psychosexology (1st Department of Psychiatry located at the “Papageorgiou” General Hospital)
- Pediatrics / Pediatric Endocrinology (2nd Department of Pediatrics located at the “AHEPA” General Hospital)

Please, refer to ORGANIZATIONAL CHARTS:

- **Organization chart 1** – Medical School: Departments of Obs /Gyn, Unit of Reproductive Endocrinology, Unit of Human Reproduction, Unit of Molecular Biology and Genetics
 - **Organization chart 2** – Medical School: Departments of Urology, Psychiatry, Pediatrics and Dermatology
 - **Organization chart 3** – Supportive structures (“Papageorgiou” General Hospital – Laboratories of Microbiology, Biochemistry, Virology, Radiology, Cytology, Pathology)
 - **Organization chart 4** – Collaborations (Private Andrology Laboratories)
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Educational activities

On top of the many educational activities of the academic units that are cooperating for the Center, a weekly educational program has been dedicated to the training of the fellows that will attend the Clinical Andrology examinations.

The program has four main axes (Urology, Psychiatry, Endocrinology, Assisted Reproduction) and takes place on a weekly basis (Wednesday 14:00-15:00 EET). It consists of concise lectures with extensive interaction among the participants.

Besides the live presentations, all lectures are recorded and can be viewed on an on-demand basis (website: <https://dimitriosgoulis.org/monada-endokrinologias-anaparagogis-apth/ekpaideytiko-yliko-gia-epaggelmaties-ygeias/>).

In addition, the AUTH is organizing a post-graduate program (MSc) in “Human Reproduction”. The training Center has developed a close collaboration with the MSc.

This unique MSc aims to extend the knowledge of the students on the subject of Human Reproduction. Its graduates are able to work in positions of public and private sector, which require specialized knowledge on the subject of medically assisted reproduction.

It is acknowledged that this scientific subject is a necessity for a modern medical curriculum vitae. In addition, the possession of this MSc degree constitutes a requirement for further post-graduate studies or for the engagement in medical research.

Websites

- MSc: <https://humrepro.med.auth.gr>
- Course “Male Reproductive Endocrinology”: <https://humrepro.med.auth.gr/courses-structure/first-semester/male-reproductive-endocrinology/>

Faculty: <https://humrepro.med.auth.gr/cotutor/#coordinationcommittee>

Educational program for the year 2022-2023:

Date	Lecture	Speaker	Area
5/10/22	MSc in Human Reproduction		
12/10/22	Sleep and Reproduction	Peter Liu	Endocrinology
17/10/22	Oocyte cryopreservation in patients with malignancy	Theoni Tarlatzi	Human Reproduction
9/11/22	Interventions for urinary incontinence in women and sexuality/fertility disorders	Ioannis Sokolakis	Urology
23/11/22	Endocrine Disruptors and Fertility	Georgios Mastorakos	Endocrinology
30/11/22	Truths and fallacies of treatment personalisation in reproductive medicine	Efstratios Kolibianakis	Human Reproduction
14/12/22	MSc in Human Reproduction		
21/12/22	Chronic prostatitis and fertility and sexuality disorders	Ioannis Mikoniatis	Urology
28/12/22	Christmas vacations		
4/1/23	Christmas vacations		
11/1/23	How to write a paper	Dimitri Mikhailidis	Other specialties
18/1/23	Hypogonadotropic hypogonadism	Maria I. Stamou	Endocrinology
25/1/23	Ovarian stimulation and cancer	Georgios Antonakis	Human Reproduction
1/2/23	From reproductive to sexual function	Nikolaos Vaidakis	Psychiatry
8/2/23	Modern treatment of male hypogonadism based on international guidelines	Fotios Dimitriadis	Urology
15/2/23	Hormonal gender-affirming treatment in transgender men	Dimitrios G. Goulis	Endocrinology
22/2/23	Obesity	Dimitrios Kiortsis	Endocrinology
1/3/23	Methodologic considerations in randomized clinical trials in reproductive medicine	Christos Venetis	Human Reproduction
8/3/23	MSc in Human Reproduction		
15/3/23	Treatment of polycystic ovary syndrome	Dimitrios G. Goulis	Endocrinology
22/3/23	Pornography: good or bad?	Loukas Athanasiadis	Psychiatry
29/3/23	Treatment of prostate cancer and preservation of erectile function	Georgios Hatzichristodoulou	Urology
12/4/22	Easter vacations		
19/4/22	Easter vacations		
26/4/23	Plasma Rich Platelet (PRP) for Endometrium: panacea for all or one more false hope?	Antonios Makrygiannakis	Human Reproduction
10/5/23	Treatment of benign prostatic hyperplasia and sexual and reproductive health disorders	Markos Karavitakis	Urology
17/5/23	Ageing/chronic diseases and stem cells	Michael Koutsilieris	Endocrinology
24/5/23	Genetic syndromes and infertility	Athina Ververi	Other specialties
31/5/23	Insights into Primary Ovarian Insufficiency and Ovarian Aging: Genetic and Environmental Factors	Sophia Kalantaridou	Human Reproduction

Research activities

Each academic unit that collaborates for the EAA Training Center has its specific research fields. Practically, any major area in the fields of Reproductive Endocrinology, Human Reproduction, Urology and Psychosexuality is covered.

Indicatively, the Unit of Reproductive Endocrinology has three main research axes:

- Male Reproductive Endocrinology
 - Male infertility
 - Male hypogonadism
 - Transgender Medicine
- Female Reproductive Endocrinology
 - Delayed puberty
 - Polycystic ovary syndrome
 - Endocrine causes of menstrual disturbances
 - Female infertility
 - Menopause
- Endocrinology of the Pregnancy
 - Gestational diabetes mellitus
 - Thyroid diseases during pregnancy

An important part of the research activities is dedicated to meta-research (systematic reviews, meta-analyses).

For details regarding the research activities of the Center see the “List of Publications” at the end of this report.

Clinical activities

Each academic unit that collaborates for the EAA Training Center has its specific research fields. Practically, any major area in the fields of Reproductive Endocrinology, Human Reproduction, Urology and Psychosexology is covered.

- Endocrinology / Reproductive Endocrinology (1st Department of Obstetrics-Gynecology located at the “Papageorgiou” General Hospital)
 - Website: <https://www.med.auth.gr/en/content/1st-department-obstetrics-and-gynecology>
- Obstetrics-Gynecology / Human Reproduction / Reproductive Genetics (1st Department of Obstetrics-Gynecology located at the “Papageorgiou” General Hospital)
 - Website: <https://www.med.auth.gr/en/content/1st-department-obstetrics-and-gynecology>
- Urology (1st Department of Urology located at the “George Gennimatas” General Hospital)
 - Website: <http://a-urology.med.auth.gr>
 - Website: <https://www.med.auth.gr/en/content/1st-department-urology>
- Urology (2nd Department of Urology located at the “Papageorgiou” General Hospital)
 - Website: <https://www.med.auth.gr/en/content/2nd-department-urology>
- Psychiatry / Psychosexology (1st Department of Psychiatry located at the “Papageorgiou” General Hospital)
 - Website: <https://www.med.auth.gr/en/content/1st-department-psychiatry>
- Pediatrics / Pediatric Endocrinology (2nd Department of Pediatrics located at the “AHEPA” General Hospital)
 - Website: <https://www.med.auth.gr/en/content/2nd-department-pediatrics>
 - Website: <https://www.bped.gr/index.php/gr/>

For details regarding the research activities of the Center see the “list of publications” at the end of this report.

Name and address of Centre
 Aristotle University of Thessaloniki
 "Papageorgiou" General Hospital
 Ring Road, Nea Efkarpia
 564 03 Thessaloniki, Greece

Type of Centre

University
 University Hospital
 Private Centre

Other (please specify) _____

1. Director

Professor Dimitrios G. Goulis
 (Endocrinology - Reproductive Endocrinology)

Academician Affiliated Member Clinical Andrologist

2a. Clinical responsible

Professor Dimitrios G. Goulis
 (Endocrinology - Reproductive Endocrinology)

Academician Affiliated Member Clinical Andrologist

2b. Clinical responsible

Professor Efstratios M. Kolibianakis
 (Human Reproduction)

Academician Affiliated Member Clinical Andrologist

2c. Clinical responsible

Professor Grigorios Grimbizis
 (Obstetrics - Gynecology)

Academician Affiliated Member Clinical Andrologist

2d. Clinical responsible

Professor Loukas Athanasiadis
 (Psychiatry - Psychosexology)

Academician Affiliated Member Clinical Andrologist

2e. Clinical responsible

Professor Kontantinos Hatzimouratidis
 (Urology)

Academician Affiliated Member Clinical Andrologist

2f. Clinical responsible

Professor Ioannis Vakalopoulos
(Urology - Andrology)

Academician Affiliated Member Clinical Andrologist

3. Present Staff (Senior Scientists)

1) Name Professor (retired) Ioannis Papadimas
Degree MD, PhD
Specialty Endocrinology - Reproductive Endocrinology

Academician Affiliated Member Clinical Andrologist

2) Name Professor Assimina Galli-Tsinopoulou
Degree MD, PhD
Specialty Pediatrics - Pediatric Endocrinology

Academician Affiliated Member Clinical Andrologist

3) Name Professor Alexandros Lambropoulos
Degree PhD
Specialty Biology - Genetics

Academician Affiliated Member Clinical Andrologist

4) Name Associate Professor Aiketerini Hatzimeletiou
Degree PhD
Specialty Reproductive Genetics

Academician Affiliated Member Clinical Andrologist

5) Name Assistant Professor Ioannis Sokolakis
Degree MD, PhD
Specialty Urology - Andrology - Sexual Medicine

Academician Affiliated Member Clinical Andrologist

6) Name Assistant Professor Christos Venetis
Degree MD, MSc, PhD
Specialty Reproductive Medicine

Academician Affiliated Member Clinical Andrologist

Insert any additional staff below (if required)

MD/Biologists/Chemists

1) Name Theodosia (Sia) Zeginiadou
Degree BSc, PhD
Speciality Biologist
Full time/part time Part time

Academician Affiliated Member Clinical Andrologist

2) Name Stefania Lymperi
Degree BSc, MSc, PhD
Speciality Biologist
Full time/part time Part time

Academician Affiliated Member Clinical Andrologist

3) Name Christos Tsametis
Degree MD, PhD
Speciality Endocrinologist
Full time/part time Part time

Academician Affiliated Member Clinical Andrologist

4) Name George Kanakis
Degree MD, PhD
Speciality Endocrinologist
Full time/part time Part time

Academician Affiliated Member Clinical Andrologist

5) Name Evangelia Billa
Degree MD, PhD
Speciality Endocrinologist
Full time/part time Part time

Academician Affiliated Member Clinical Andrologist

6) Name Akylas-George Kouthouris
Degree MD, PhD
Speciality Urologist
Full time/part time Part time

Academician Affiliated Member Clinical Andrologist

7) Name Gesthimani Mintziori
Degree MD, MSc, PhD, post-doc, Reader in AUSoM
Speciality Endocrinologist
Full time/part time Part time

Academician Affiliated Member Clinical Andrologist

8) Name Efstathios Papaefstathiou
Degree MD
Speciality Urologist
Full time/part time Part time

Academician Affiliated Member Clinical Andrologist

9) Name Evangelia Kintiraki
Degree MD, MSc, PhD
Speciality Endocrinologist
Full time/part time Part time

Academician Affiliated Member Clinical Andrologist

10) Name Christina Dimopoulou
Degree MD, PhD (Germany)
Speciality Endocrinologist
Full time/part time Part time

Academician Affiliated Member Clinical Andrologist

11) Name Ioulia Bosdou
Degree MD
Speciality Obsterician-Gynecologist
Full time/part time Part time

Academician Affiliated Member Clinical Andrologist

Insert any additional staff below *(if required)*

Specialists

- 1) Name Professor Leonidas Zepiridis (obstetrician-
gynaecologist)
- 2) Name Professor Eleni Billi (obstetrician - gynaecologist)
- 4) Name Professor Aikaterini Patsatsi (dermatologist)

PhD Students

- 1) Name Athanasios Mousiolis, MD (endocrinologist)
- 2) Name Kassiani Papadimitriou, MD (Endocrinology trainee)
- 3) Name Stavroula Veneti, MD (Endocrinology trainee)

Nurses / Midwives

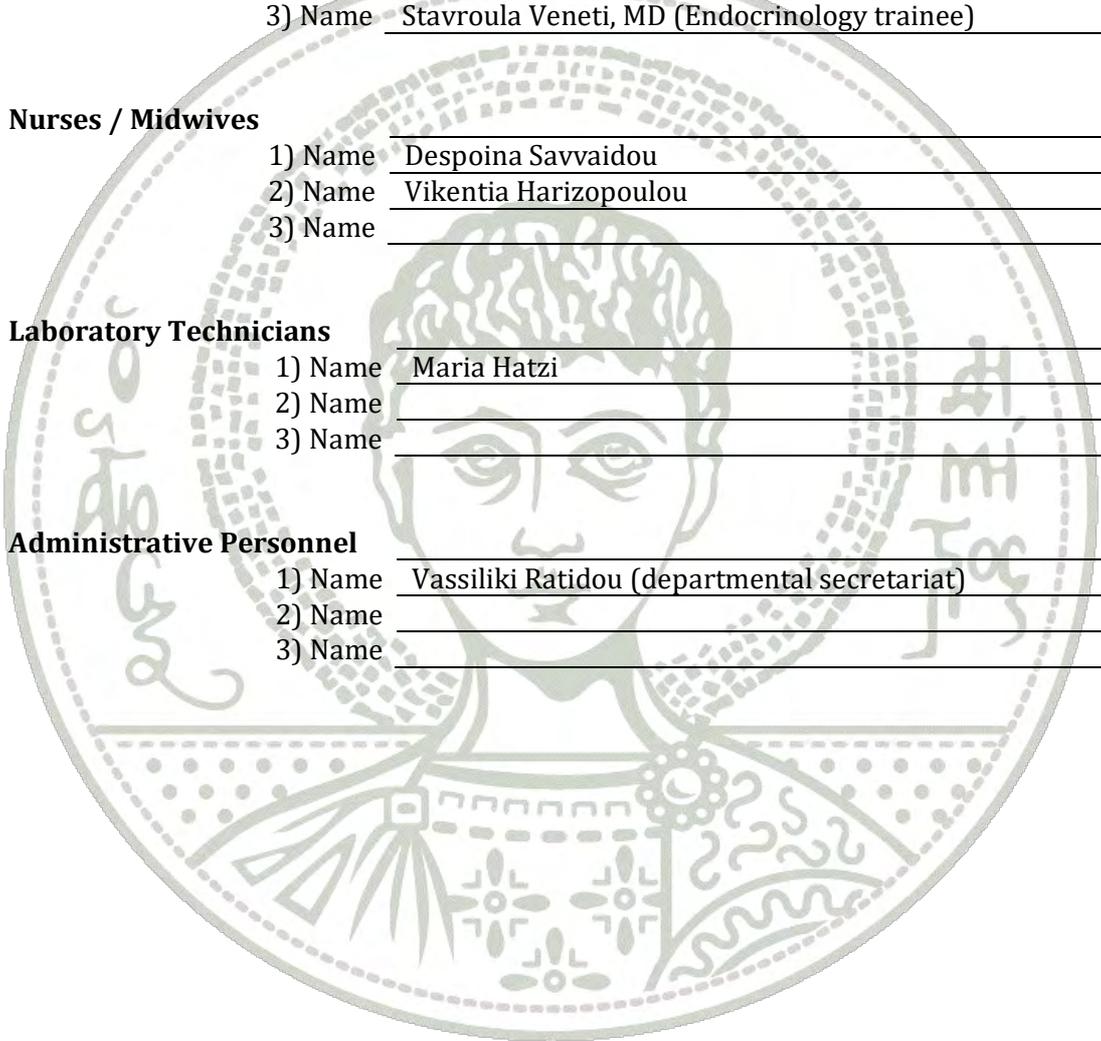
- 1) Name Despoina Savvaidou
- 2) Name Vikentia Harizopoulou
- 3) Name

Laboratory Technicians

- 1) Name Maria Hatzi
- 2) Name
- 3) Name

Administrative Personnel

- 1) Name Vassiliki Ratidou (departmental secretariat)
- 2) Name
- 3) Name



4. Clinical Activity

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

	2020	2021	2022
New patients	330 *	185 *	510
Follow-up patients	740 *	411 *	2109

* CoViD-19 restrictions to hospital approach were applied.

The consultations refer to the total output of all collaborative departments (Endocrinology, Obstetrics and Gynecology, Urology, Psychiatry).

Type of patients in the last years (%)	2020	2021	2022
Infertility	37	39	35
Erectile dysfunction	15	15	13
Hypogonadotropic Hypogonadism	9	7	10
Klinefelter	4	3	3
Gynecomastia	4	5	3
Varicocele	7	9	10
Cryptorchidism	4	2	4
Male sex accessory gland infections	7	7	7
Testicular tumors	2	1	2
Disorders of gender identity	8	10	10
Other	3	2	3

B. Ultrasound (testis, penile, prostate) **

	2020	2021	2022
Total	420 *	274 *	1520
Controls	50 *	10 *	140

* CoViD-19 restrictions to hospital approach were applied.

The ultrasounds are performed at the Departments of Obstetrics and Gynecology / Urology / Radiology

C. Andrological surgery procedures

	2020	2021	2022
Testicular biopsies	25 *	13 *	55
Varicocele ligation	34 *	11 *	42
Prostate biopsies	37 *	24 *	74
BPH	91 *	43 *	154
Prostate cancer	155 *	125 *	217
Vasectomy	0 *	0 *	0
Vaso-vasostomy	0 *	0 *	0
Other	20 *	11 *	49

* CoViD-19 restrictions to hospital approach were applied.

The procedures are performed at the Departments of Urology.

5. A. Andrology laboratory activity

	2020	2021	2022
Semen analyses	1811 *	784 *	2054
Sperm antibodies	22 *	14 *	34
Seminal markers	120 *	74 *	375

* CoViD-19 restrictions to hospital approach were applied.

Seminal markers include sperm DNA fragmentations.

The activities are performed at the dedicated laboratories (public and private sectors).

5. B. Andrology laboratory activity

Sperm banking donors Yes No

Sperm banking cancer patients Yes No

If yes:

	2020	2021	2022
Number of samples	132 *	164	170

* CoViD-19 restrictions to hospital approach were applied.

The activities are performed at the dedicated laboratories (public and private sectors).

5. C. Histopathological evaluation of biopsies Yes No

* Performed in the Laboratory of Pathology/Cytology, which activities are attended by the trainees on a rotation basis.

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 3780 (Total for year 2022)

FSH 780

LH 760

Testosterone, total 570

Estradiol 190

SHBG 245

Prolactin 380

17(OH)Progesterone 135

DHEA-S 355

Δ_4 -androstenedione 245

Other 120

5. E. Y chromosome microdeletions according to EAA/EMQN guidelines Yes No

70

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

Yes

Pre-implantation genetic diagnosis

Yes

Amniotic fluid karyotyping

Yes



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

Pediatric Unit Yes No

Central Hospital Laboratory Yes No

Private Centers Yes No

If yes please specify:

Andrology Lab (Dr. Zegkiniadou)

Andrology Lab (Dr. Lymperi)

7. Clinical teaching activity

Duration of training (years):

	Number
A: Trainees in the last five years	2
B: Trainees who passed EAA-ESAU\exam for Clinical Andrologist in the last 5 years	2
C: Trainees working in the center preparing to pass the EAA-ESAU examination	1
D: PhD Students	11
E: Medical Students	300
F: Other students (MSc)	60

8. Formal Andrology teaching program Yes No

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

	Hours of formal teaching per year	Professional training (weeks)
Medical Students	8	6
PhD Students	200	50
Post Graduate students	50	8
Trainees	50	200

9. Research Activity (maximum 1 page)

Each academic unit that collaborates for the EAA Training Center has its specific research fields. Practically, any major area in the fields of Reproductive Endocrinology, Human Reproduction, Urology and Psychosexology is covered.

Indicatively, the Unit of Reproductive Endocrinology has three main research axes:

- Male Reproductive Endocrinology
 - Male infertility
 - Male hypogonadism
 - Transgender Medicine
- Female Reproductive Endocrinology
 - Delayed puberty
 - Polycystic ovary syndrome
 - Endocrine causes of menstrual disturbances
 - Female infertility
 - Menopause
- Endocrinology of the Pregnancy
 - Gestational diabetes mellitus
 - Thyroid diseases during pregnancy

An important part of the research activities is dedicated to meta-research (systematic reviews, meta-analyses).

The full list of publications (years 2020 - 2022) are presented at the end of this report.

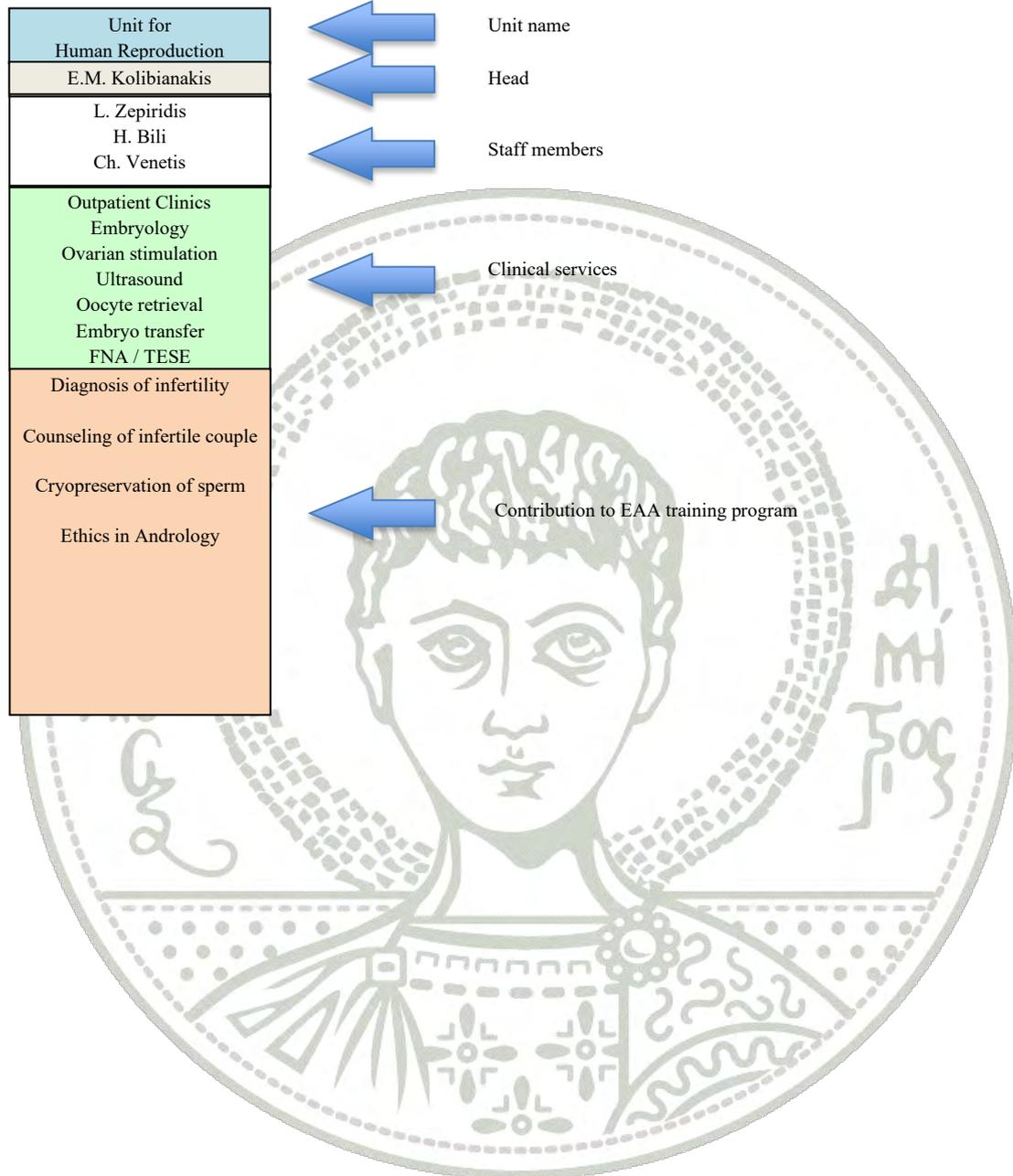
10. Research Funding

During the last three (3) years the academic units that collaborate for the EAA Training Center have received educational grants from several sources (Greek Government, European Union, Local Prefecture, Pharmaceutical Industries, Foundations).

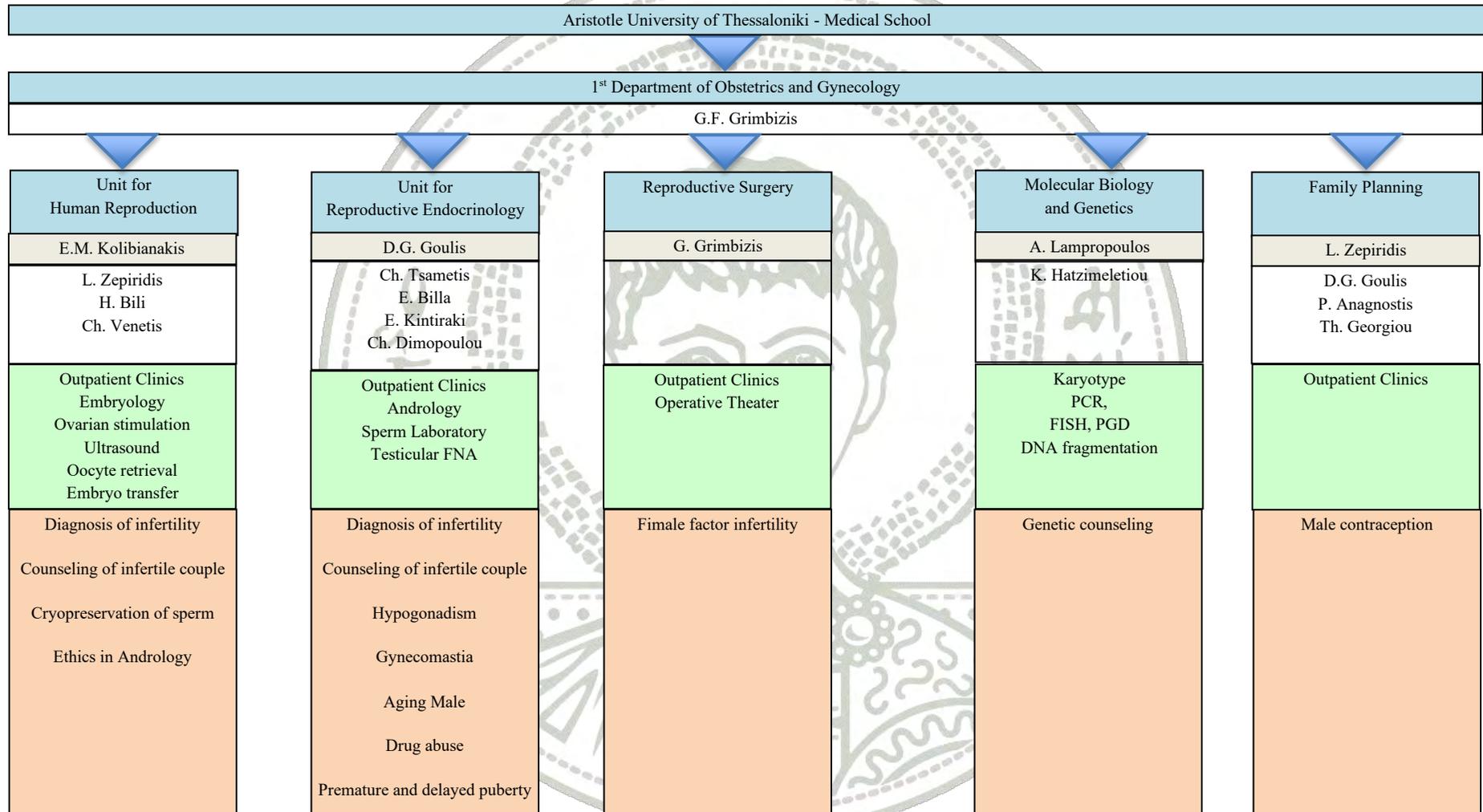


ORGANIZATION CHARTS

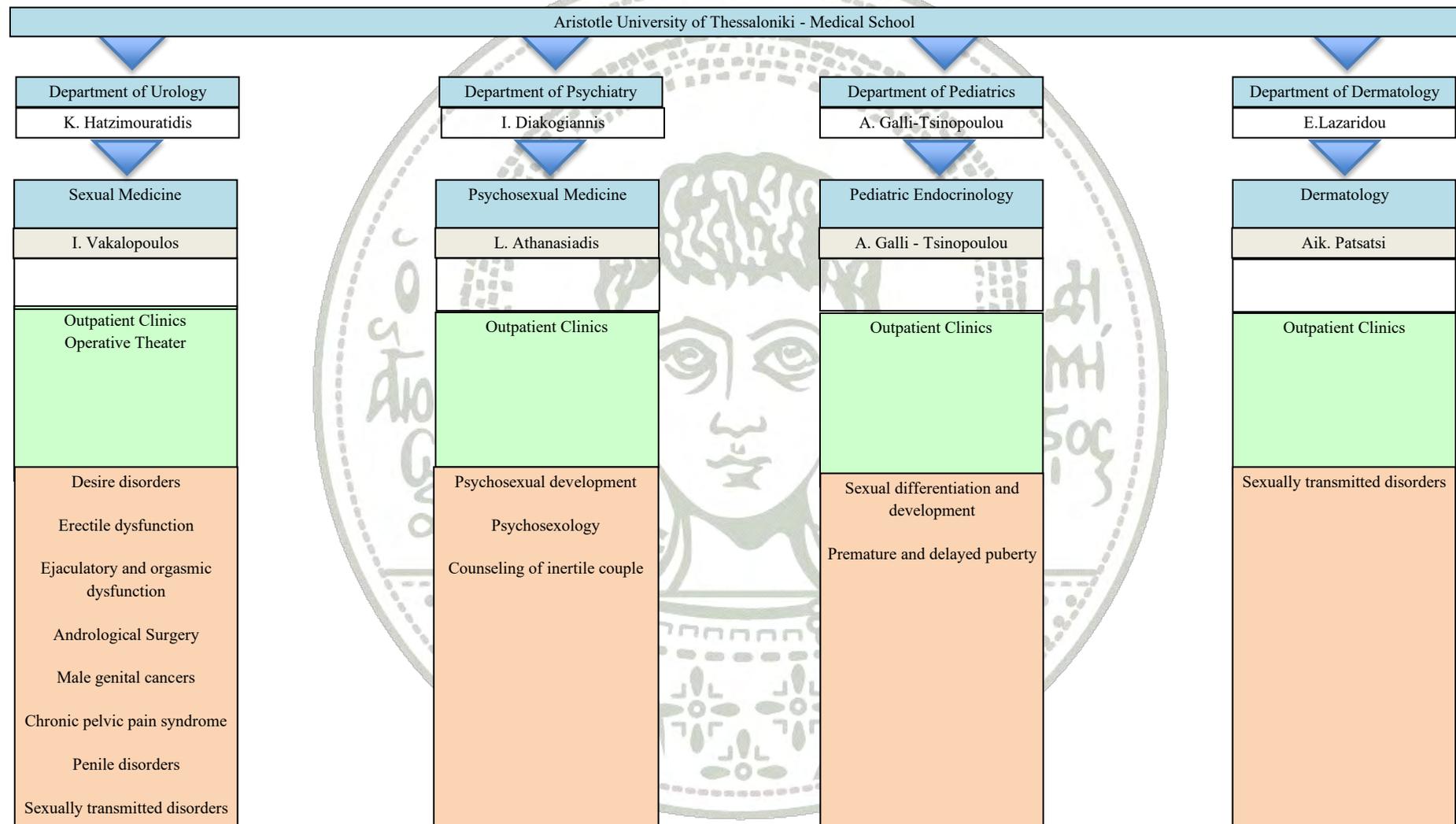
Organization charts legend: Department / Unit Structure



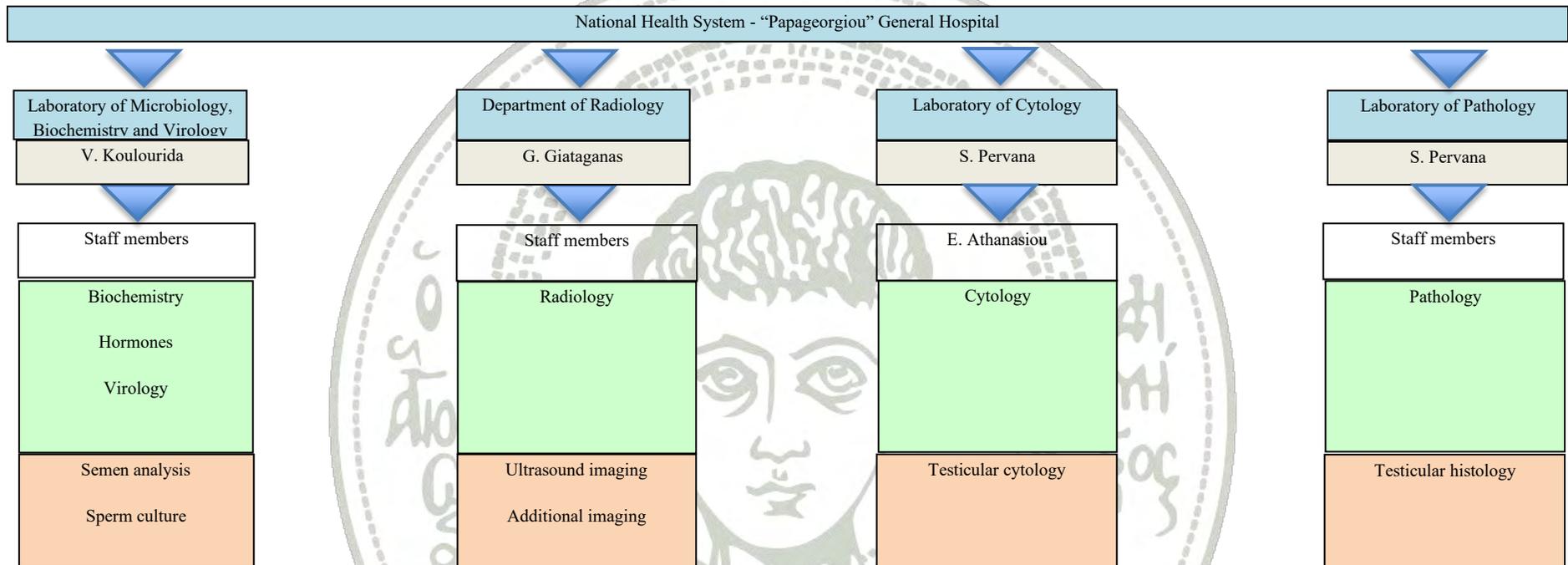
Organization chart 1 - Medical School: Department of Obs /Gyn, Section of Reproductive Medicine



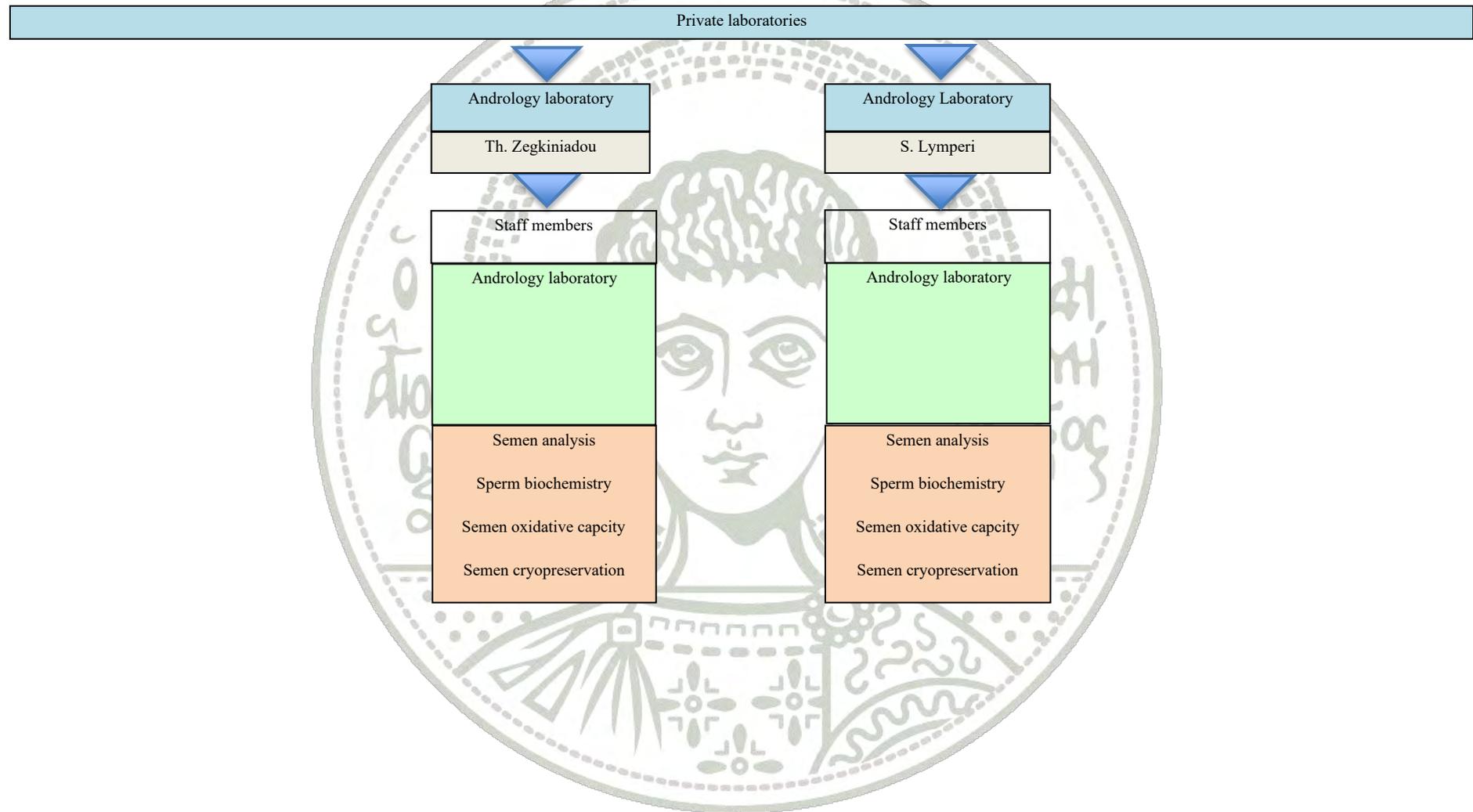
Organization chart 2 – Medical School: Departments of Urology, Psychiatry, Pediatrics and Dermatology



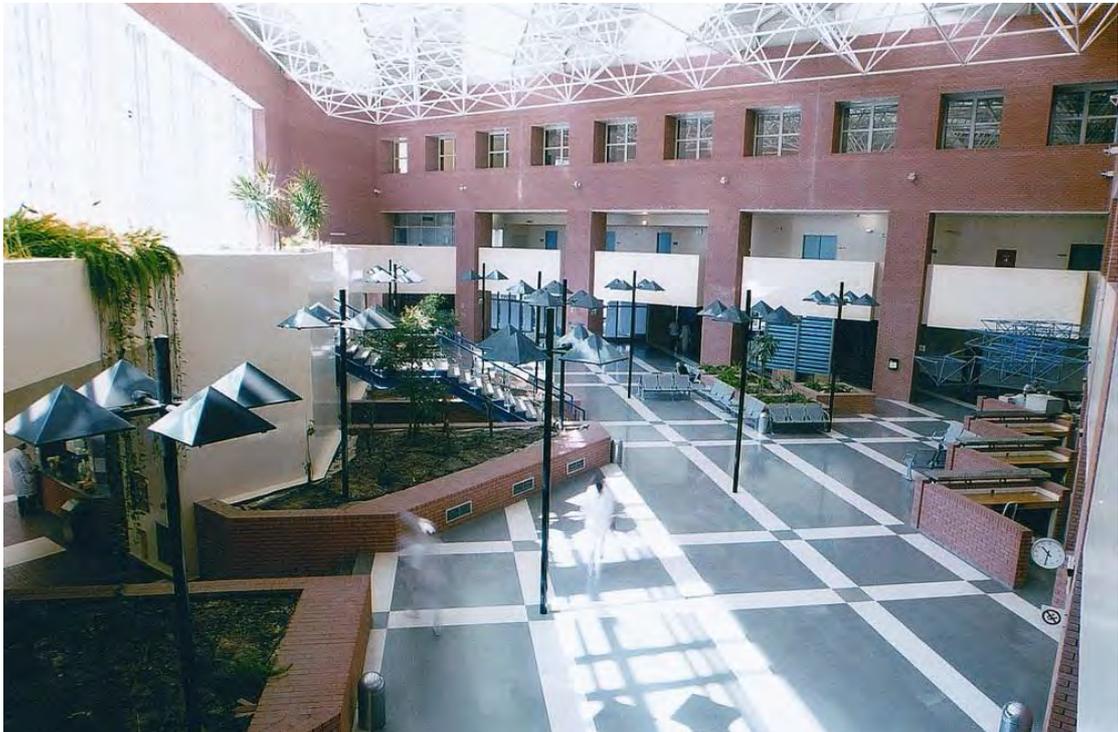
Organization chart 3 – Supportive structures



Organization chart 4 - Collaborations



CENTRE PHOTOS



Papageorgiou Hospital – Interior



Papageorgiou Hospital – Aerial View



Site visit 2014



Site visit 2014

LIST OF PUBLICATIONS of staff members from the last 3 years (2020 - 2022)

1. Prof. Goulis' research group

1. Tsimpiris A, Tsolianos I, Grigoriadis A, Moschos I, Goulis DG, Kouklakis G. Association of Chronic Periodontitis with Helicobacter pylori Infection in Stomach or Mouth: A Systematic Review and Meta-Analysis. *Eur J Dent*. 2023 May;17(2):270-82.
2. Paschou SA, Bletsas E, Papazisi M, Mili N, Kanouta F, Kassi GN, et al. Screening and management of major endocrinopathies during pregnancy: an update. *Endocrine*. 2023 Apr;80(1):10-9.
3. Katsika ET, Bosdou JK, Goulis DG, Grimbizis GF, Kolibianakis EM. Higher live birth rate following transdermal testosterone pretreatment in poor responders: a systematic review and meta-analysis. *Reprod Biomed Online*. 2023 Jan;46(1):81-91.
4. Anagnostis P, Livadas S, Goulis DG, Bretz S, Ceausu I, Durmusoglu F, et al. EMAS position statement: Vitamin D and menopausal health. *Maturitas*. 2023 Mar;169:2-9.
5. Anagnostis P, Antza C, Trakatelli C, Lambrinouadaki I, Goulis DG, Kotsis V. The effect of menopause on lipoprotein (a) concentrations: A systematic review and meta-analysis. *Maturitas*. 2023 Jan;167:39-45.
6. Zymperdikas CF, Zymperdikas VF, Mastorakos G, Grimbizis G, Goulis DG. Assisted reproduction technology outcomes in women with infertility and preexisting diabetes mellitus: a systematic review. *Hormones (Athens)*. 2022 Mar;21(1):23-31.

7. Vachliotis ID, Anastasilakis AD, Goulas A, Goulis DG, Polyzos SA. Nonalcoholic fatty liver disease and osteoporosis: A potential association with therapeutic implications. *Diabetes Obes Metab.* 2022 Sep;24(9):1702–20.
8. Tsimpiris A, Grigoriadis A, Tsolianos I, Moschos I, Goulis DG, Kouklakis G. Periodontitis and *Helicobacter pylori* Infection: Eradication and Periodontal Therapy Combination. *Eur J Dent.* 2022 Feb;16(1):145–52.
9. Tsakiridis I, Giouleka S, Koutsouki G, Kostakis N, Kalogiannidis I, Kourtis A, et al. Investigation and management of abnormal uterine bleeding in reproductive-aged women: a descriptive review of national and international recommendations. *Eur J Contracept Reprod Health Care.* 2022 Dec;27(6):504–17.
10. Tontikidou C, Makri ES, Evripidou K, Goulis DG, Goulas A, Polyzos SA. Circulating adiponectin in patients with nonalcoholic fatty liver disease-related liver fibrosis: A systematic review and a meta-analysis. *J Gastroenterol Hepatol.* 2022 Oct;37(10):1853–64.
11. Taousani E, Savvaki D, Tsirou E, Grammatikopoulou MG, Tarlatzis BC, Vavilis D, et al. Effect of Exercise on the Resting Metabolic Rate and Substrate Utilization in Women with Gestational Diabetes Mellitus: Results of a Pilot Study. *Metabolites.* 2022 Oct 20;12(10).
12. Taouktsi N, Papageorgiou ST, Tousinas G, Papanikolopoulou S, Grammatikopoulou MG, Giannakoulas G, et al. Fragility of cardiovascular outcome trials (CVOTs) examining nutrition interventions among patients with diabetes mellitus: a systematic review of randomized controlled trials. *Hormones (Athens).* 2022 Dec;21(4):665–81.
13. Rimmer MP, Howie RA, Anderson RA, Barratt CLR, Barnhart KT, Beebejaun Y, et al. Protocol for developing a core outcome set for male infertility research: an

international consensus development study. *Hum Reprod Open*. 2022;2022(2):hoac014.

14. Rees M, Abernethy K, Bachmann G, Bretz S, Ceausu I, Durmusoglu F, et al. The essential menopause curriculum for healthcare professionals: A European Menopause and Andropause Society (EMAS) position statement. *Maturitas*. 2022 Apr;158:70–7.
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