EAA Andrology Training Centre Centre Report

2016



Centre identification

School of Medicine University of Zagreb, Clinical Hospital Centre "Zagreb"

Šalata 3, HR-10000 Zagreb Phone/Fax.: +385 1 45 90 251

e-mail: davor.jezek@mef.hr

Director of the Centre: Prof. Dr. Davor Ježek

CENTRE REPORT

History of Centre

Although the EAA training centre Zagreb (Croatia) has been certified in 2016, reproductive medicine started to develop almost 60 years ago under the auspices of the School of Medicine University of Zagreb and University Hospital "Zagreb". At the beginning of 1953, at the Clinic for Gynaecology and Obstetrics, the outpatient clinic for the treatment of sterility has been established. It was the first organized activity to investigate and treat infertility in Croatia and in the wider region. With the development of the medical profession and staff, a new department aroused: Department of Gvnaecological Endocrinology and Sterility (1962) followed by the Centre for Gynaecological Endocrinology and Fertility (1977). Finally, in 1988 (up to the present time) the Centre was transformed into the Department of Human Reproduction. From the very beginning, the Department has a well-established andrology laboratory that is subjected to both internal as well as external quality control. Six years later, the Department becomes a reference centre of the Ministry of Health and Social Welfare of the Republic of Croatia. The EEA training centre Zagreb and Department of Human Reproduction are strictly collaborating and are involved in a series of important activities, some of them listed in a chronological order: children and adolescent andrology and gynaecology (1967-1970); research and treatment of amenorrhea and intersexualism with the determination of the karyotype; new interpretations of the Morris syndrome, menopause praecox and gonadal dysgenesis (1962-1970); complex corrective surgery of abnormal sexual organs including hypo- and epispadias, vaginal aplasia, uterus duplex (1974); establishment of the Family Planning Centre (1978); foundation of the Centre for IVF and other methods of assisted fertilization (1982); beginnings of in vitro fertilization (IVF) (1982) with the first baby born with IVF (1983) (7th centre in the world); foundation of the outpatient clinic for sexually transmitted diseases (STD) (1986); embryo cryopreservation (1992); first application of intracytoplasmic microinjection of spermatozoa - ICSI (1994); introducing biopsy of the testis/ testicular sperm extraction / TESE / and TESE/ICSI procedure (1996); vitrification of embryos (2005) and oocytes (2009); application of oncofertility procedures (2011); establishing of the first Testicular tissue biobank at the level of Republic of Croatia (2013).

Today, all forms of research, diagnosis and treatment of male infertility are being applied in the EAA Training Centre Zagreb. Advanced methods of diagnosing DNA damage in spermatozoa are applied. The treatment of infertility is additionally accomplished by identifying ovarian reserve, risk of ovulation stimulation, and possible factors that reduce fertility and success of IVF. Modern approaches to andropause, contraception, gynaecological endocrinology, paediatric and adolescent andrology and gynaecology as well as perimenopausal medicine have been introduced. The andrology outpatient clinic takes place at least two times per week in conjunction with the Department of Endocrinology located in the same floor. Two urologists with subspecialty in andrology (Prof. Dr. Želiko Kaštelan and Dr. Dinko Hauptman) provide, among other, the treatment of erectile dysfunction, uretheroplasty, penoplasty, Peyronie's disease etc. The andrology outpatient clinic also comprises of a newly established Prostate Centre where an extensive examination (including multiple biopsies) of the prostate are performed. Overall, 15 clinical departments/clinics of the University Hospital "Zagreb" are included into the health care of the infertile couple. Leading role play Clinics for Urology and Gynaecology and Obstetrics. EAA Training Centre Zagreb pursues research in the field of genetics and epigenetics of testicular tumours, Leydig cell dysfunction, and the role of interstitium in the normal and pathologically changed testis. In 2017, the EEA Training Centre Zagreb has been awarded the Centre of Excellence grant from the EU. The Centre is included as a partner in two Horizon 2020 projects, and organized two symposiums (2015 and 2017) in the area of andrology with the participation of prominent academicians from EAA. In September 2017, the Centre organized (together with EAA Centre in Copenhagen as coorganizer) the first international summer school entitled "Testis Histology and Pathology for Clinical Andrologists and Embryologists". Current director of the EAA Training Centre Zagreb is Prof. Dr. Davor Ježek (EAA academician) and the clinical responsible is Prof. Dr. Željko Kaštelan, the Head of Clinic of Urology.

Organization of Centre

UNIT NAME

Centre for Reproductive Medicine and Andrology School of Medicine University of Zagreb/University Hospital Centre Zagreb

Director:

Prof. Dr. Davor Ježek, M.D.

Staff

Prof. Dr. Željko Kaštelan, M.D.
Assist. Prof. Nikola Knežević
Dinko Hauptman, M.D.
Zoran Zimak, M.D.
Prof. Dr. Miro Kasum, M.D.
Associate Prof. Dr. Dinka Pavičić Baldani, M.D.
Associate Prof. Dr. Marina Šprem Goldštajn, M.D.
Associate Prof. Dr. Hrvoje Vrčić, M.D.
Assist. Prof. Lana Škrgatić, M.D.
Maja Banović, M.D., Ph.D.
Višnja Hlavati, Biologist
Nina Gelo, Biologist
Gabrijela Kirinec, Biologist
Nurses, administrative staff

Clinical Services

Outpatient Clinics for couple infertility, sexual dysfunction, male reproductive tract ultrasound, prostate centre (prostate ultrasound, prostate multiple biopsies), semen analysis (WHO 2010), female sexual dysfunctions, hormonal profiling, karyotyping & chromosome Y-microdeletions, TESE

Contribution to EAA training program

Diagnosis of infertility
Ultrasound of the male genital tract
Counselling of infertile couple
Semen analysis
Cryopreservation of sperm and testis tissue
Genetics of male infertility
Testicular biopsy analysis

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Educational activities

Since the Centre is a part of the both School of Medicine University of Zagreb as well as its University Hospital, the Centre is involved in postgraduate education in the area of andrology/urology and reproductive medicine & biobanking. The Centre organises regular andrology symposia and andrology summer school with the help of EAA.

Research activities

Main research topics are:

- Leydig cells in infertile men with non-obstructive azoospermia
- Fine morphology of the testis in patients with non-obstructive azoospermia
- Development of human testicular mast cells and their role in male infertility
- Genetics and epigenetics and of male infertility
- Chronic orchitis and male infertility
- Stress and male infertility
- Metabolomics of the human embryo development
- Polycystic ovarian syndrome (PCOS) and its genetic background
- Intrauterine growth restriction and male/female infertility

In addition, the EAA Centre Zagreb has been awarded the grant of EU (K.K. 01.1.1.01.008). The staff of the EAA Zagreb actively participates in the so-called research unit "Biomedical research on reproduction and development" (BiRR) of the Centre of excellence at the School of Medicine, University of Zagreb. The Centre of excellence enfolds a wide range of collaborating institutions: University Hospital Centre "Zagreb" (KBC "Zagreb"), The Children's Hospital Zagreb, KBC "Sisters of Mercy", Clinical Hospital "The Holy Spirit ", IMI (Institute for Medical Research and Occupational Health), Croatian society for clinical genetics, Croatian society for human reproduction and gynaecological endocrinology and the Croatian society of andrology. The project tasks/elements of the research unit include basic and translational research, as well as public health actions and education of young researchers.

The Commission has allocated 2.5 mil Euros for the activity on the following projects:

- 1. Research on epigenetic characteristics in animal reproduction and development
- 2. Epigenetics of testicular germ cells
- 3. Epigenetics of inborn abnormalities
- 4. Biomarkers in pathological pregnancy
- 5. Human testis and sperm

6. Placenta in pathological pregnancies

All the above listed project tasks are in an intensive realization phase, which is supported by a number of published papers, books and book chapters, books of abstracts, participation in local and international congresses, mentorships, presented doctoral theses, international and local collaboration and many other activities.

The scientific activity of the EAA Centre Zagreb is also supported by 2 grants of Croatian Science Foundation.

The director of the Centre is a partner in 2 Horizon 2020 projects (BIOCHIP and Alliance4Life)

Clinical activities

Male infertility; Other reproductive problems: cryptorchidism, varicocele, sexually transmitted diseases, Diagnosis and treatment of hypogonadism including late-onset hypogonadism; Erectile and sexual dysfunction; Andrological diseases in systemic medical illnesses /diabetes mellitus, metabolic syndrome, obesity/.

The Centre for Reproductive medicine and Andrology is also serving as a seat of EAA training centre "Zagreb", within the University Hospital "Zagreb". University Hospital Zagreb is an umbrella healthcare institution in the Republic of Croatia and bears the highest, "zero category" of the hospital. It has for decades a strong tradition in providing health services in the field of reproductive medicine and andrology. Given the complex nature of diagnostic, therapeutic and diagnostic therapies in the field of reproductive medicine, as many as fifteen clinics and Clinical Institutes KBC "Zagreb" make up a kind of intertwined network that merged into the Centre for Reproductive Medicine and Andrology. The clinics participating in the Centre are as follows:

Urology Clinic

Clinic for Gynaecology and Obstertics

Department of Internal Diseases

Department of Dermatovenerology

Paediatrics Clinic

Clinic for neurology

Oncology Clinic

Clinic for Heart and Blood Diseases

Clinic for Psychological Medicine
Clinic for anaesthesiology, reanimatology and intensive care
Clinical Institute for Transfusion Medicine and Transplant Biology
Clinical Institute of Pathology and Cytology
Clinical Institute for Laboratory Diagnosis
Clinical Institute for Clinical and Molecular Microbiology
Clinical Institute for Diagnostic and Interventional Radiology

	cine, Clinical Hospital Centre "Zagreb"
Kišpatićeva 12	
HR-10000 Zagreb, Croatia, EU	
Type of Centre University University Hospital Private Centre Other (please specify)	
1. Director	Prof. Dr. Davor Ježek, M.D., Ph.D., Full Professor
Academician X Aff	liated Member Clinical Andrologist
2a. Clinical responsible	Prof. Dr. Željko Kaštelan, M.D., Ph.D., Associate Professor
Academician Aff	liated Member Clinical Andrologist X
2b. Clinical responsible	
Academician Aff	liated Member Clinical Andrologist
2c. Clinical responsible	
Academician Aff	liated Member Clinical Andrologist
Book I	

3. Present Staff (Senior Scientists)

1) Name	Željko Kaštelan, M.D., Ph.D.
Degree	Full Professor
Speciality	Urology
Academician	Affiliated Member Clinical Andrologist X
2) Name Degree Speciality	Nikola Knežević, M.D., Ph.D. Urology
Academician	Affiliated Member Clinical Andrologist
3) Name Degree Speciality	Hrvoje Vrčić Associate Professor Gynaecology & Obstetrics, Human Reproduction
Academician	Affiliated Member Clinical Andrologist
4) Name Degree Speciality	Dinka Pavičić Baldani Associate Professor Gynaecology & Obstetrics, Human Reproduction
Academician	Affiliated Member Clinical Andrologist
5) Name Degree Speciality	Marina Šprem Goldštajn Associate Professor Gynaecology & Obstetrics, Human Reproduction
Academician	Affiliated Member Clinical Andrologist
6) Name Degree Speciality	Miro Kasum Associate Professor Gynaecology & Obstetrics, Human Reproduction
Academician	Affiliated Member Clinical Andrologist
7) Name Degree Speciality	Maja Banović Assistant Gynaecology & Obstetrics, Human Reproduction
Academician	Affiliated Member Clinical Andrologist

Insert any additional staff below (if required)

MD/Biologists/0		Di lata a	
,	Name	Dinko Hauptman	
	Degree	M.D.	
	Speciality	Urology	
	Full time/part time	Full time	
Acade	emician Affi	liated Member	Clinical Andrologist
2)	Name	Gabrijela Kirinec	
,	Degree	Ph.D.	
	Speciality	Biology/Human Repro	duction
	Full time/part time	Full time	, addition
٨ ٦	A CC	Parad Marchael	Clinian I Andread
Acade	emician Affi	liated Member	Clinical Andrologist
3)	Name	Višnja Hvalati	
	Degree	Master of Biology	
	Speciality	Biology/Human Repro	duction
	Full time/part time	Full time	
	, 1		
Acade	emician Affi	liated Member	Clinical Andrologist
42	N	N	
4)	Name	Nina Pleša Gelo	
	Degree	Ph.D.	
	Speciality	Biology/Human Repro	oduction
	Full time/part time	Full time	
Acade	emician Affi	liated Member	Clinical Andrologist
5)	Name	Zoran Zimak	
-	Degree	M.D.	
	Speciality	Urology	
	Full time/part time	Full time	
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Acade	emician Affi	liated Member	Clinical Andrologist
			<u> </u>
6)	Name		
	Degree		
	Speciality		
	Full time/part time		
Acade	emician Affi	liated Member	Clinical Andrologist
7)	Name		
7)			
	Degree		
	Speciality Full time/part time		
	Livill time of the east time of		

Insert any additional staff below (if required)

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Specialists		
_	1) Name	
	2) Name	
	3) Name _	
	4) Name _	
	5) Name _	
PhD Students		
	1) Name	Dinko Hauptman, M.D.
	2) Name	Zoran Zimak, M.D.
	3) Name	
Nurses		
	1) Name	Ivanka Kolačević
	-	Kruno Pavlinek
	3) Name	Jadranko Cota
	_	
Laboratory Technic		
	•	Marica Horvatinec
		Renata Štengl
	3) Name	Ljiljana Dobec
	4) Name	Suzana Orlić
Administrative Per	sonnel	
		Jadranka Kontent
	2) Name	Sandra Rođak
	=	Sonja Štefan

4. Clinical Activity

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

	2013	2014	2015
New patients	410	390	450
Follow-up patients	220	250	215

Type of patients in the last years (%)	2013	2014	2015
Infertility	70	72	69
Erectile dysfunction	20	18	21
Hypogonadotropic Hypogonadism	1	0,5	0
Klinefelter	0,5	0,5	0,5
Gynaecomastia	0	0	0
Varicocele	5	6	6
Cryptorchidism	0,5	0	0
Male sex accessory gland infections	0	0	0
Testicular tumours	3	3	4
Disorders of gender identity	0	0	0
Other	0	0	0

B. Ultrasound (testis, penile, prostate) *

	2013	2014	2015
Total	310	400	350
Controls	50	60	55

^{*} performed at the Department of Radiology

C. Andrological surgery procedures

	2013	2014	2015
Testicular biopsies	2	43	31
Varicocele ligation	26	23	31
Prostate biopsies	350	341	361
ВРН	140	120	110
Prostate cancer	65	75	90
Vasectomy	0	0	0
Vaso-vasostomy	0	0	0
Other	0	0	0

5. A. Andrology laboratory activity

	2013	2014	2015
Semen analyses	2210	2075	2010
Sperm antibodies			
Seminal markers			

Semen analyses	2210	2075	2010
Sperm antibodies			
Seminal markers			
5. B. Andrology laboratory activity			
Sperm banking donors	Yes		No X
Sperm banking cancer patients	Yes X		No
If yes:			
	2013	2014	2015
Number of samples	43	45	77
5. C. Histopathologial evaluation of bio	opsies Y	es X	No
5. D. Reproductive Hormones Assays	Y	es X	No
If yes please specify type of assays and Reproductive Hormones Assays (FSH, LH, testosterone, SHBG, prolacti FSH, LH, T, SHBG, DHEA-S, Hcg, prol	n)	es in the last yea	r
5. E. Y chromosome microdeletions ac EAA/EMQN guidelines	cording to	Yes X	No
<i>If yes</i> number of tests in the past year	-		120
Participation to the EAA quality contro	ol scheme?	Yes X	No
<i>If no,</i> specify if available in another lab of the same hospital			No
Blood karyotyping Yes X No			No
If no, specify if available in another lab of the same hospital			No
Other genetic tests (please specify) Amniotic fluid karyotyping ✓ FISH sperm ✓ (still not as a routine) Pre-implantation genetic diagnosis (to	be introduced)		

6. Collaborations with other Clinical Units of the University/Hospital				
IVF Unit If yes please specify: Children, IVF, Endocrinology, Children,				
Urology Clinic		Yes	X No	
Endocrine Clinic		Yes	X No	
Genetics Lab/Unit		Yes	X No	
Paediatric Unit		Yes	X No	
Central Hospital Laboratory Yes X		X No		
Private Centres Yes		Yes	No	
<i>If yes</i> please specify:				
7. Clinical teaching activity Duration of training (years): 5				
			Number	
A: Trainees in the last five years			48	
B: Trainees who passed EAA-ESAU\exam for Clinical Andrologist in the last 5 yrs				
C: Trainees working in the centre preparing to pass the EAA-ESAU examination			1	
D: PhD Students			2	
E: Medical Students			350 per year	
E Odharat Jana (MC)			25-30	
F: Other students (MSc)		postgraduates per year		
			per year	
8. Formal Andrology teaching program Yes X			No	
<i>If yes:</i> specify duration (years/months): Years 5 Months 3				
	Hours of formal teaching per year		sional training eks/months)	
Medical Students	40	2 weeks		
PhD Students	290	36		

	Hours of formal teaching	Professional training	
	per year	(weeks/months)	
Medical Students	40	2 weeks	
PhD Students	290	36	
Post Graduate students	290	12 months	
Trainees		3 months	
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.

Main research topics are:

- Leydig cells in infertile men with non-obstructive azoospermia
- Fine morphology of the testis in patients with non-obstructive azoospermia
- Development of human testicular mast cells and their role in male infertility
- Epigenetics of male infertility
- Chronic orchitis and male infertility
- Stress and male infertility
- Metabolomics of the human embryo development
- Polycystic ovarian syndrome (PCOS) and its genetic background
- Intrauterine growth restriction and male/female infertility

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	2011-2015 EU FP 7 research project BIOCOMET	
Total amount (€)	6 mil EUROS/Croatian partner budget: 800.000 EUROS	
Funding Source(s)	EU FP 7	
Year	2014-2019, School of Medicine University of Zagreb, Centre of	
	Excellence for Reproductive and Regenerative Medicine	
Total amount (€)	Croatian Ministry of Science, Research and Sport: 184.210	
	EUROS/ EU funds: approx. 2.5 mil. EUROS	
Funding Source(s)	Croatian Ministry of Science, Research and Sport/ EU funds	
Year	2016 - Horizon 2020, research project BIOCHIP	
Total amount (€)	5.7 mil. EUROS/Croatian partner budget: 1 mil. EUROS	
Funding Source(s)	EU	

Insert any additional funding below if required

ORGANIZATION CHARTS mailto:ewa.rajpert-de.meyts@regionh.dk

Organization charts legend: Department / Unit Structure

UNIT NAME

Centre for Reproductive Medicine and Andrology School of Medicine University of Zagreb/University Hospital Centre Zagreb

Director:

Prof. Dr. Davor Ježek, M.D.

Staff

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Diagnosis of infertility
Ultrasound of the male genital tract
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Semen analysis
Cryopreservation of sperm and testis tissue
Genetics of male infertility
Testicular biopsy analysis

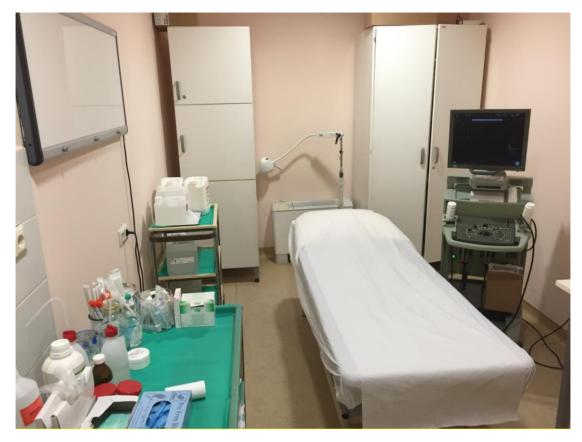
CENTRE PHOTOS















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

Ježek D. (ed.): Atlas on the human testis: Normal morphology and pathology. Springer Verlag London, 285 pgs., London, 2013 (ISBN 987-1-4471-2763-5; DOI 10.1007/978-1-4471-2763-5)

Goluža T, Boscanin A, Cvetko J, Kozina V, Kosović M, Bernat MM, Kasum M, Kaštelan Z, Ježek D. Macrophages and Leydig cells in testicular biopsies of azoospermic men. Biomed Res Int. 2014;2014:828697. doi: 10.1155/2014/828697. (IF = 1.579)

Borovečki A, Caenazzo L, Ježek D, Karija-Vlahović M, Golubić B.Croatian National Centre for Biobanking - a new perspective in biobanks governance? Croat Med J. 2014 Aug 28;55(4):416-22 (IF = 1.305)

Kulis T, Knezevic M, Karlovic K, Kolaric D, Antonini S, Kastelan Z. Infrared digital thermography of scrotum in early selection of progressive varicocele. Med Hypotheses. 2013 Oct;81(4):544-6. doi: 10.1016/j.mehy.2013.06.028. (IF = 1.152)

Hudolin T, Kastelan Z, Ilic I, Levarda-Hudolin K, Basic-Jukic N, Rieken M, Spagnoli GC, Juretic A, Mengus C. Immunohistochemical analysis of the expression of MAGE-A and NY-ESO-1 cancer/testis antigens in diffuse large B-cell testicular lymphoma. J Transl Med. 2013 May 16;11:123. doi: 10.1186/1479-5876-11-123 (IF = 3.991)

Tandara M, Bajić A, Tandara L, Bilić-Zulle L, Šunj M, Kozina V, Goluža T, Jukić M. Sperm DNA integrity testing: big halo is a good predictor of embryo quality and pregnancy after conventional IVF. Andrology. 2014 Sep;2(5):678-86. doi: 10.1111/j.2047-2927.2014.00234.x.

Kasum M, Oresković S, Ježek D. Spontaneous ovarian hyperstimulation syndrome. Coll Antropol. 2013 Jun;37(2):653-6. (CC) ((IF = 0.609)

Kasum M, Danolić D, Orešković S, Ježek D, Beketić-Orešković L, Pekez M. Thrombosis following ovarian hyperstimulation syndrome. Gynecol Endocrinol. 2014 Jul 11:1-5. ((IF = 1.333)

Kasum M, Vrčić H, Stanić P, Ježek D, Orešković S, Beketić-Orešković L, Pekez M. Dopamine agonists in prevention of ovarian hyperstimulation syndrome. Gynecol Endocrinol. 2014 Aug 5:1-5 (IF = 1.333)

Kasum M, Pavičić-Baldani D, Stanić P, Orešković S, Sarić JM, Blajić J, Juras J. Importance of macroprolactinemia in hyperprolactinemia. Eur J Obstet Gynecol Reprod Biol. 2014 Dec;183:28-32. doi: 10.1016/j.ejogrb.2014.10.013. (IF = 1.695)

Pavičić Baldani D, Škrgatić L, Bukvić Mokos Z, Trgovčić I. Hyperandrogenemia association with acne and hirsutism severity in Croatian women with polycystic ovary syndrome. Acta Dermatovenerol Croat. 2013 Aug;21(2):105-12. (IF = 0.581)

Pavičić Baldani D, Skrgatić L, Simunić V, Elvedi Gasparović V, Geršak B. Hormone replacement therapy and venous thromboembolism. Lijec Vjesn. 2015 Jan-Feb;137(1-2):34-40.

Baldani DP, Skrgatic L, Ougouag R. Polycystic Ovary Syndrome: Important Underrecognised Cardiometabolic Risk Factor in Reproductive-Age Women. Int J Endocrinol. 2015;2015:786362. doi: 10.1155/2015/786362. (IF = 1.978)

Baldani DP, Skrgatic L, Cerne JZ, Oguic SK, Gersak BM, Gersak K. Association between serum levels and pentanucleotide polymorphism in the sex hormone binding globulin gene and cardiovascular risk factors in females with polycystic ovary syndrome. Mol Med Rep. 2015 May;11(5):3941-7. doi: 10.3892/mmr.2014.3117 (IF = 1.559)

Kasum M, Radakovic B, Simunic V, Oreškovic S. Preovulatory progesterone rise during ovarian stimulation for IVF. Gynecol Endocrinol. 2013 Aug;29(8):744-8. doi: 10.3109/09513590.2013.798280. (IF = 1.136)

Goldstajn MS, Baldani DP, Skrgatić L, Radaković B, Vrbić H, Canić T. Ulipristal acetate in emergency contraception. Coll Antropol. 2014 Mar;38(1):379-84.

Baldani DP, Skrgatic L, Cerne JZ, Ferk P, Simunic V, Gersak K. Association of PPARG Pro12Ala polymorphism with insulin sensitivity and body mass index in patients with polycystic ovary syndrome. Biomed Rep. 2014 Mar;2(2):199-206.

Baldani DP, Skrgatić L, Simunić V, Zlopasa G, Canić T, Trgovcić I. Characteristics of different phenotypes of polycystic ovary syndrome based on the Rotterdam criteria in the Croatian population. Coll Antropol. 2013 Jun;37(2):477-82. (IF = 0.609)

Baldani DP, Skrgatić L, Goldstajn MS, Vrcić H, Canić T, Strelec M. Clinical, hormonal and metabolic characteristics of polycystic ovary syndrome among obese and nonobese women in the Croatian population. Coll Antropol. 2013 Jun;37(2):465-70. (IF = 0.609)

Skrgatić L, Baldani DP, Gersak K, Cerne JZ, Ferk P, Corić M. Genetic polymorphisms of INS, INSR and IRS-1 genes are not associated with polycystic ovary syndrome in Croatian women. Coll Antropol. 2013 Mar;37(1):141-6. (IF = 0.609)

von Kopylow K, Kirchhoff C, Jezek D, Schulze W, Feig C, Primig M, Steinkraus V, Spiess AN. Screening for biomarkers of spermatogonia within the human testis: a whole genome approach. Hum Reprod. 2010 May;25(5):1104-12. (IF = 4.357)

Kozina V, Geist D, Kubinová L, Bilić E, Karnthaler HP, Waitz T, Janáček J, Chernyavskiy O, Krhen I, Ježek D. Visualization of Reinke's crystals in normal and cryptorchid testis. Histochem Cell Biol. 2011 Feb;135(2):215-28. (IF = 2.588)

Vlaisavljević V, Borko E, Radaković B, Zazula D, Dosen M. Changes in perifollicular vascularity after administration of human chorionic gonadotropin measured by quantitative three-dimensional power Doppler ultrasound. Wien Klin Wochenschr. 2010 May;122 Suppl 2:85-90. (IF = 0.747)

Augustin G, Vrcic H, Zupancic B. Laparoscopic cholecystectomy due to acute calculous cholecystitis in 16 weeks' in vitro fertilization and embryo transfer pregnancy: report of the first case. J Postgrad Med. 2012 Oct-Dec;58(4):298-300. (IF = 1.078)

Kozina V, Cappallo-Obermann H, Gromoll J, Spiess AN. A one-step real-time multiplex PCR for screening Y-chromosomal microdeletions without downstream amplicon size analysis. PLoS One. 2011;6(8), (IF = 4.092)

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