



ESHRE ANNUAL REPORT 2017

European Society of Human
Reproduction and Embryology



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ANNUAL REPORT 2017

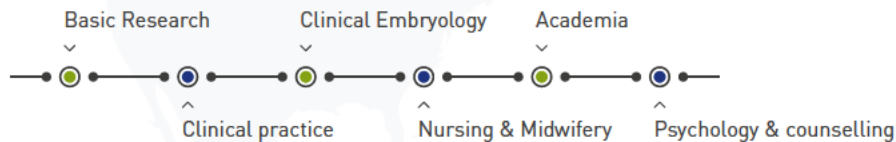
WHAT? > WHEN? > WHO? > WHERE? > WHY? >

01 WHAT?

The European Society of Human Reproduction and Embryology (ESHRE) is an international non-profit organisation whose main objective is to promote the study of reproductive science and medicine and the treatment of infertility.

INTERNATIONAL
NON-PROFIT
ORGANISATION

A professional network for all those who are active in assisted reproduction:



Many disciplines and interests represented:



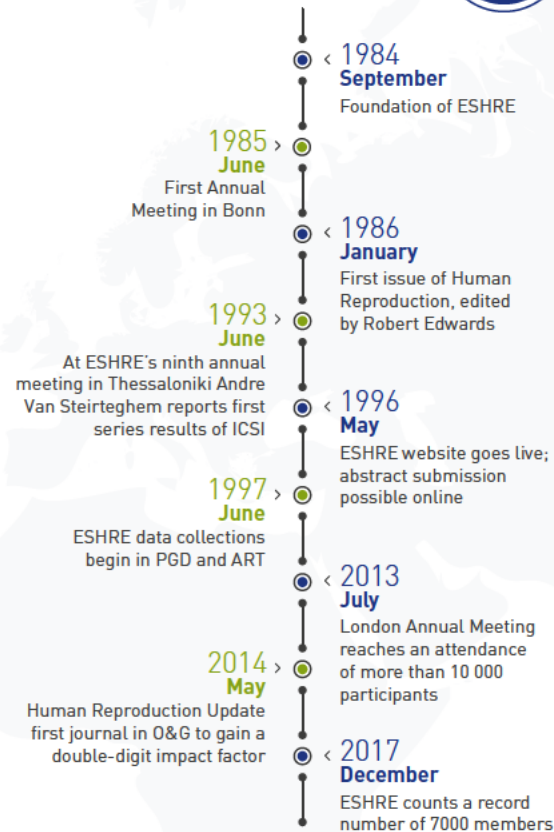
ESHRE supports:



Activities:

- » Annual Meeting
- » Campus courses
- » Journals
- » E-learning platform
- » Grant for research
- » Data collection
- » Guidelines
- » Certifications
- » Accreditations
- » Policy making

02 WHEN?



03 WHERE?

ESHRE is a European organization with an international vocation.

Members of our Executive Committee come from European countries and our activities are organised across Europe.

The Central Office of ESHRE is located in **Grimbergen, Belgium**.



04 WHY?

In the early 80s, the founders of ESHRE perceived the need for a European organisation dedicated to human reproduction, with its own journal, annual meeting and education scheme.

The worldwide authority ESHRE has acquired through the years justifies the efforts of Society to improve standards of practice through training, education and guideline development and pursue research in the field of human reproduction.

05 WHO?

FOUNDERS

Robert Edwards,
Nobel Prize winner

Jean Cohen,
French Gynaecologist

EXECUTIVE COMMITTEE
ELECTED IN 2017

Roy Farquharson (*Chair*)

Kersti Lundin (*Immediate Past Chair*)

Cristina Magli (*Chair Elect*)

- » Basak Balaban
- » Thomas Ebner
- » Mariette Goddijn
- » Borut Kovacic
- » Nicholas Macklon
- » Anja Pinborg
- » Karen Sermon
- » Thomas Strowitzki
- » Rita Vassena
- » Snežana Vidaković
- » Cecilia Westin
- » Efstratios Kolibianakis

MORE THAN
7200
MEMBERS FROM
ALL OVER THE
WORLD

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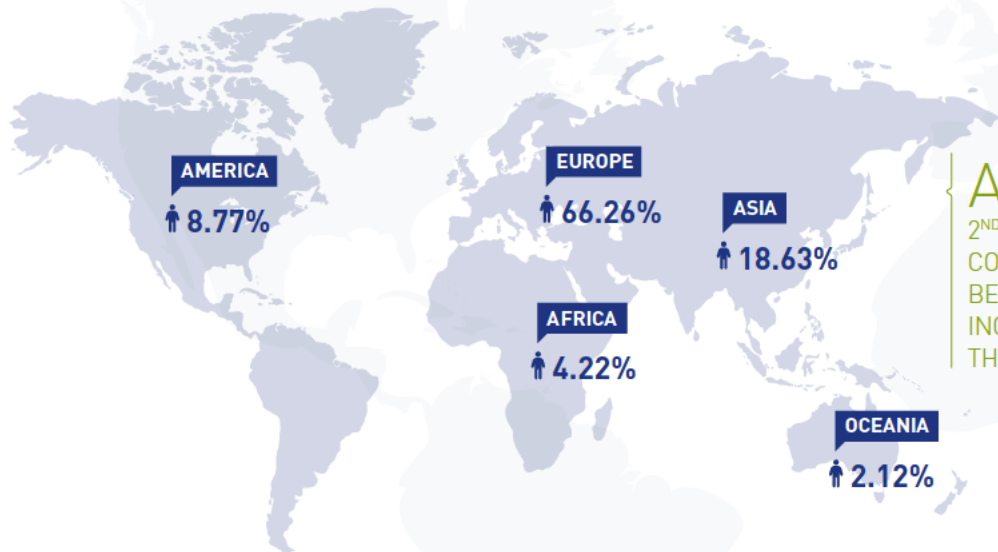
ESHRE GLOBAL MEMBERSHIP



7264
MEMBERS

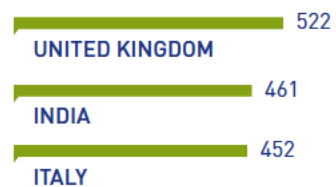
114
COUNTRIES

STABLE
REPRESENTATION
OF EUROPEAN
MEMBERS



ASIA
2ND MOST REPRESENTED
CONTINENT WITH
BEST REPRESENTATION
INCREASE OVER
THE YEARS

TOP 3 COUNTRIES



EVOLUTION



73% INCREASE
COMPARED
TO 2007

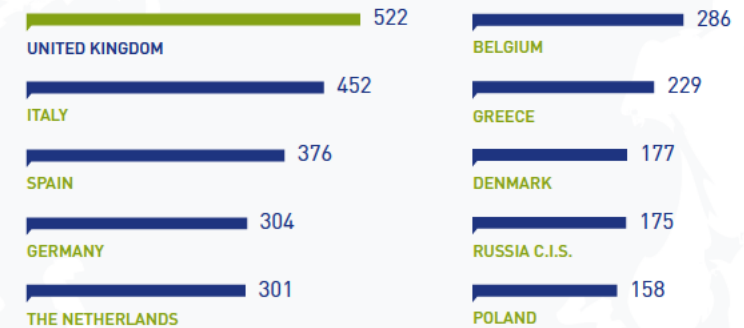
8.2% INCREASE
COMPARED
TO 2016



TOP 10 MEMBERS IN EUROPE



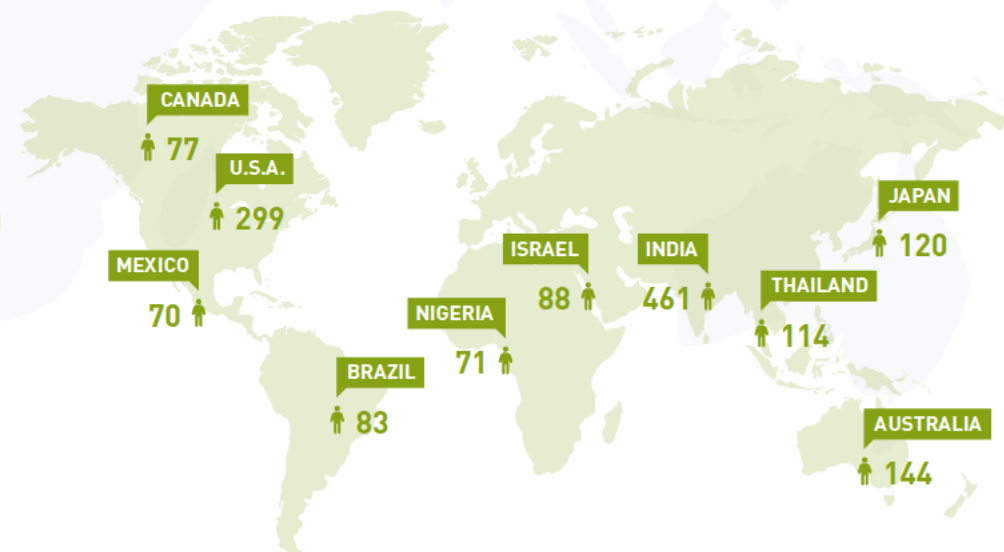
The **United Kingdom** and **Italy** have consistently been at the **top** of the “European members” ranking for over the last years.



MEMBERS IN THE REST OF THE WORLD



India is now the **second most represented country** in the ESHRE membership and has overtaken the representation of the USA as non-European country to be represented among ESHRE members.



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CAMPUS COURSES

- » Continuing education in reproductive science and medicine
- » A wide programme of symposia, courses, hands-on training in all disciplines represented by ESHRE



1348

total number of participants

13

total number of courses

8

different countries



EFFECTS OF ART AND ENDOMETRIOSIS ON PREGNANCY OUTCOME

27-28 January 2017
Sofia, Bulgaria
SIG Early Pregnancy
and SIG Endometriosis/Endometrium

38 PARTICIPANTS



ENDOSCOPY IN REPRODUCTIVE MEDICINE

28-30 March 2017
Leuven, Belgium
SIG Reproductive Surgery

25 PARTICIPANTS



THE MULTIFACETED CHALLENGE OF FEMALE REPRODUCTIVE AGEING

5-6 May 2017
Athens, Greece
SIG Reproductive Endocrinology

127 PARTICIPANTS



THE FOURTH DIMENSION. THE TIME FACTOR IN HUMAN EMBRYOLOGY

11-13 May 2017
Milan, Italy
SIG Embryology

229 PARTICIPANTS



THE MORE THE MERRIER? THE IMPACT OF ADJUVANT TREATMENTS ON PREGNANCY POTENTIAL IN IVF

15-16 September 2017
Vienna, Austria
SIG Reproductive Endocrinology

85 PARTICIPANTS



METHODOLOGICAL APPROACHES FOR INVESTIGATING ENDOMETRIAL FUNCTION AND ENDOMETRIOSIS

18-19 September 2017
Edinburgh, United Kingdom
SIG Endometriosis / Endometrium
and the ASRM Endometriosis SIG

77 PARTICIPANTS



TUBAL FACTOR MANAGEMENT IN INFERTILITY

22-23 September 2017
Bucharest, Romania
SIG Reproductive Surgery

82 PARTICIPANTS



FROM GAMETES TO BLASTOCYST - A CONTINUOUS DIALOGUE

12-14 October 2017
Edinburgh, United Kingdom
SIG Embryology /
SIG Reproductive Genetics

141 PARTICIPANTS



ULTRASOUND IN ASSISTED REPRODUCTION TECHNOLOGIES AND EARLY PREGNANCY: BLENDED TRAINING APPROACH

16-17 November 2017
Cardiff, United Kingdom
SIG Endometriosis - SIG Early pregnancy -
SIG Safety and Quality in ART - Paramedical board and the BSGI

74 PARTICIPANTS



ENDOSCOPY IN REPRODUCTIVE MEDICINE

22-24 November 2017
Leuven, Belgium
SIG Reproductive Surgery

37 PARTICIPANTS



THE REVIVAL OF INTRAUTERINE INSEMINATION - EVIDENCE-BASED GUIDELINES FOR DAILY PRACTICE

23-25 November 2017
Antwerpen, Belgium
SIG Andrology

133 PARTICIPANTS



REPRODUCTIVE MEDICINE BETWEEN SCIENCE AND COMMERCIALIZATION

30 November - 2 December 2017
Ljubljana, Slovenia
SIG Embryology - SIG Safety and Quality in ART -
Supported by the The Slovene Society for Reproductive Medicine

99 PARTICIPANTS



PGD AND PGS: PAST, PRESENT AND FUTURE. A CELEBRATION CAMPUS EVENT TO MARK THE 20TH ANNIVERSARY OF THE PGD CONSORTIUM

8-9 December 2017
Brussels, Belgium
SIG Reproductive Genetics

201 PARTICIPANTS

2 EVENTS OVER
200
PARTICIPANTS

3 EVENTS BETWEEN
100 & 200
PARTICIPANTS

E-CAMPUS



- » Online access to ESHRE courses, symposia and webinars
- » A tool to support the development of ESHRE members' skills and knowledge in reproductive science and medicine

WWW.ESHRE.EU/ECAMPUS



798

VIDEOS AVAILABLE IN 2017

898

UNIQUE USERS IN 2017



10612

TOTAL NUMBER OF CONNECTIONS TO THE PLATFORM IN 2017



THE MOST WATCHED PRESENTATIONS IN 2017



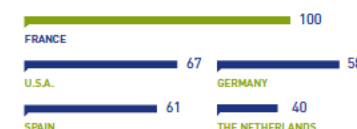
- 1 Biology of the cell by Odile Lacroix
- 2 Cryopreservation and fertility preservation by Carlos Plancha
- 3 GnRH agonist trigger and the new concept of Luteal Coasting by Human Mousavi Fatemi

THE BEST OF ASRM AND ESHRE



Debates, plenary lectures, back-to-back sessions on the hottest topics in reproductive medicine from both sides of the Atlantic.

DATES
23-25 FEBRUARY
PLACE
PARIS, FRANCE



952 PARTICIPANTS FROM 69 COUNTRIES

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ANNUAL MEETING

The **world's largest event** in reproductive science and medicine



OFFICIAL NAME

33rd Annual Meeting of the European Society of Human Reproduction and Embryology



HASHTAG

#ESHRE2017



DATES

2-5 July 2017



PLACE

Geneva Switzerland

10 397 TOTAL
PARTICIPANTS

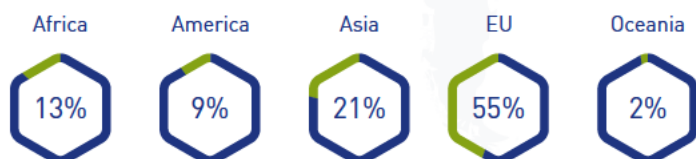


TOP 10 ATTENDANCE

Nbr

1. India	493	6. France	370
2. Italy	459	7. Russia C.I.S.	301
3. Spain	450	8. U.S.A.	259
4. United Kingdom	431	9. Germany	254
5. China	372	10. Switzerland	252

ATTENDANCE PER CONTINENT



An obvious global appeal

SUNDAY 2 JULY 2017: 15 PRECONGRESS COURSES



TITLE

PARTICIPANTS

	PCC1	Mild, moderate and severe male infertility: what is it all about? An urgent call for consensus		181
	PCC2	The role of ultrasound in early pregnancy		62
	PCC3	Cellular and molecular biology for clinical embryologists		230
	PCC4	Measuring and enhancing endometrial receptivity to improve pregnancy outcomes		388
	PCC5	Fertility awareness: what role does it play in preventing infertility?		91
	PCC6	Ovarian Stimulation for IVF: individualisation and beyond?		485
	PCC7	Mitochondria in human reproduction and ART		91
	PCC8	Complications in reproductive surgery		62
	PCC9	Transgenderism and reproduction: State of the art in fertility options for transgender and people with sex reassignment		57
	PCC10	At the crossroad between human embryology and embryonic stem cells: lessons from molecular and morphological analysis		52
	PCC11	Where to draw the line		55
	PCC12	Procedure and technique for embryo transfer in humans		50
	PCC13	How to present and publish your research?		84
	PCC14	Is the oocyte the main determinant of embryo quality? Strategies for the selection of the most competent oocyte		113
	PCC15	How to prepare a Systematic Review in reproductive medicine		25

MONDAY 3 TO WEDNESDAY 5 JULY 2017: MAIN SCIENTIFIC PROGRAMME

1725	ABSTRACTS RECEIVED
75	ORAL PRESENTATIONS
300	SESSIONS LECTURES

31	66	44	234
SESSIONS	LECTURES	SESSIONS	LECTURES
INVITED		ORAL COMMUNICATIONS	
Keynote invited lecture by Dennis Lo		HR Keynote lecture by Carlos Simon	
Non-invasive prenatal testing - state of the art		Autologous cell therapy with CD133+ bone marrow-derived stem cells for refractory Asherman's syndrome and endometrial atrophy: a pilot cohort study"	
802	POSTERS	118	WERE SELECTED FOR POSTER DISCUSSION

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ESHRE GUIDELINES AND RECOMMENDATIONS FOR GOOD PRACTICE



GUIDELINES PUBLISHED IN 2017



Vienna Consensus: Development of ART Laboratory Performance Indicators



Recommendations for Surgical Treatment of Ovarian Endometrioma



Guideline on Recurrent Pregnancy Loss



LAUNCHED IN 2017



Guideline on Female fertility preservation

Guideline on the management of MAR in patients with viral infection/disease



Recommendations for Surgical Treatment of Deep endometriosis



Recommendations for the use of ultrasound in ART



All the ESHRE guidelines and recommendations can be found on

WWW.ESHRE.EU/GUIDELINES

ESHRE COLLABORATES IN INTERNATIONAL GUIDELINES



- » Published in 2017: **International guideline on Turner Syndrome**
- » Under development in 2017: **International Guideline on PCOS**



IN DEVELOPMENT IN 2017

- » **Guideline on ovarian stimulation in IVF/ICSI**
Due in Winter 2018

UPDATED IN 2017

Manual for ESHRE Guideline development

WWW.ESHRE.EU/GUIDELINES



GUIDELINES AND RECOMMENDATIONS PUBLISHED BEFORE 2017



- » **Guidelines on the Management of Endometriosis**

267

CITATIONS

127

NEW IN 2017

57

ALTMETRICS ATTENTION SCORE

5%

IN THE TOP 5% OF ALL RESEARCH OUTPUTS SCORED BY ALTMETRICS



- » **Guideline on Routine psychosocial care in infertility and medically assisted reproduction – A guide for fertility staff**

Translated in Spanish and Greek

12

CITATIONS

5

NEW IN 2017

5

ALTMETRICS ATTENTION SCORE



- » **Guideline on Premature Ovarian Insufficiency**
The guideline has been translated in Chinese and in Polish

22

CITATIONS

20

NEW IN 2017



- » **Consensus on Good practice in IVF laboratories**
The guideline has been translated in Turkish

5

CITATIONS

3

NEW IN 2017



- » **Consensus on the Diagnosis and classification of Congenital Müllerian Anomalies**

5

CITATIONS

3

ALTMETRICS ATTENTION SCORE

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ESHRE DATA COLLECTIONS



PGD CONSORTIUM

PUBLICATION

- » ESHRE PGD Consortium data collection XIV–XV: cycles from January 2011 to December 2012 with pregnancy follow-up to October 2013

M De Rycke et al., Human Reproduction, Volume 32, Issue 10, 1 October 2017, Pages 1974–1994, doi.org/10.1093/humrep/dex265



SUMMARY

With **71** centres reporting data for **11 637** cycles with oocyte retrieval

953 CYCLES to OR were reported for chromosomal abnormalities,

144 CYCLES to OR for sexing for X-linked diseases,

3445 CYCLES to OR for monogenic diseases,

6095 CYCLES to OR for PGS,

38 CYCLES to OR for social sexing

Use of arrays for genetic testing increased from **4%** to **20%** in PGS and from **6%** to **13%** in PGD cycles for chromosomal abnormalities

20TH ANNIVERSARY OF THE CONSORTIUM CAMPUS COURSE

PGD and PGS: past, present and future. A celebration campus event to mark the 20th anniversary of the PGD Consortium

SIG Reproductive Genetics | Brussels, Belgium | 8–9 December 2017

NEW PLATFORM FOR DATA COLLECTION

- » Launched in July 2017
- » First data for 2016 collected

EIM CONSORTIUM

PUBLICATION

- » Assisted reproductive technology in Europe, 2013: results generated from European registers by ESHRE

C. Calhaz-et al., Human Reproduction, Volume 32, Issue 10, 1 October 2017, Pages 1957–1973, doi.org/10.1093/humrep/dex264



SUMMARY

38

Number of participating countries

1169

Number of treatment centres reporting

686 271

Number of cycles monitored

149 466

Number of babies born

Proportion IVF/ICSI in fresh cycles:

30.4% – 69.6%

Frozen embryo replacement:

38.3% of transfers

PRELIMINARY RESULTS PRESENTED AT THE 33RD ANNUAL MEETING IN GENEVA

EIM consortium - preliminary results of data collection 2014

Steady pregnancy rate: around **28%**
Increase of pregnancy rate in egg donation up to **33%**
and frozen transfers up to **15%**



Spain most active country in ART
110 000 cycles reported

SET represent **35%** of transfers

DET represent **55%** of transfers



IUI

Insemination with **PARTNER'S** semen:

175 467
CYCLES REPORTED

8.6%
DELIVERY RATE

Insemination with **DONOR'S** sperm:

43 785
CYCLES REPORTED

11.1%
DELIVERY RATE

Egg donation cycles (in 25 countries)

40 244

29.5% Delivery rate per transfer



Pregnancy rates

Per aspiration with IVF **29.6%**

Per aspiration with ICSI **27.8%**

Per thawing with FER **27%**



Delivery rates

Per aspiration with IVF **22.2%**

Per aspiration with ICSI **20.1%**

Per thawing with FER **18%**

31.4%
Single embryo transfer

56.3%
Double embryo transfer

11.5%
Triple embryo transfer

PGD consortium - preliminary results of data collection 2013 – 2015

± 58

Centres participating every year

29 053

Cycles monitored

NEW TECHNOLOGIES

- » WGA, Array, NGS introduced in many laboratories

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CERTIFICATION AND ACCREDITATION

ESHRE CERTIFICATION FOR EMBRYOLOGISTS

- » Two-level programme - Clinical and Senior
- » Introduced in 2008
- » Encourages formal recognition of embryologists in IVF
- » Develops the competence of embryologists in IVF



SUCCESS RATE



clinical
embryologists

senior
embryologists



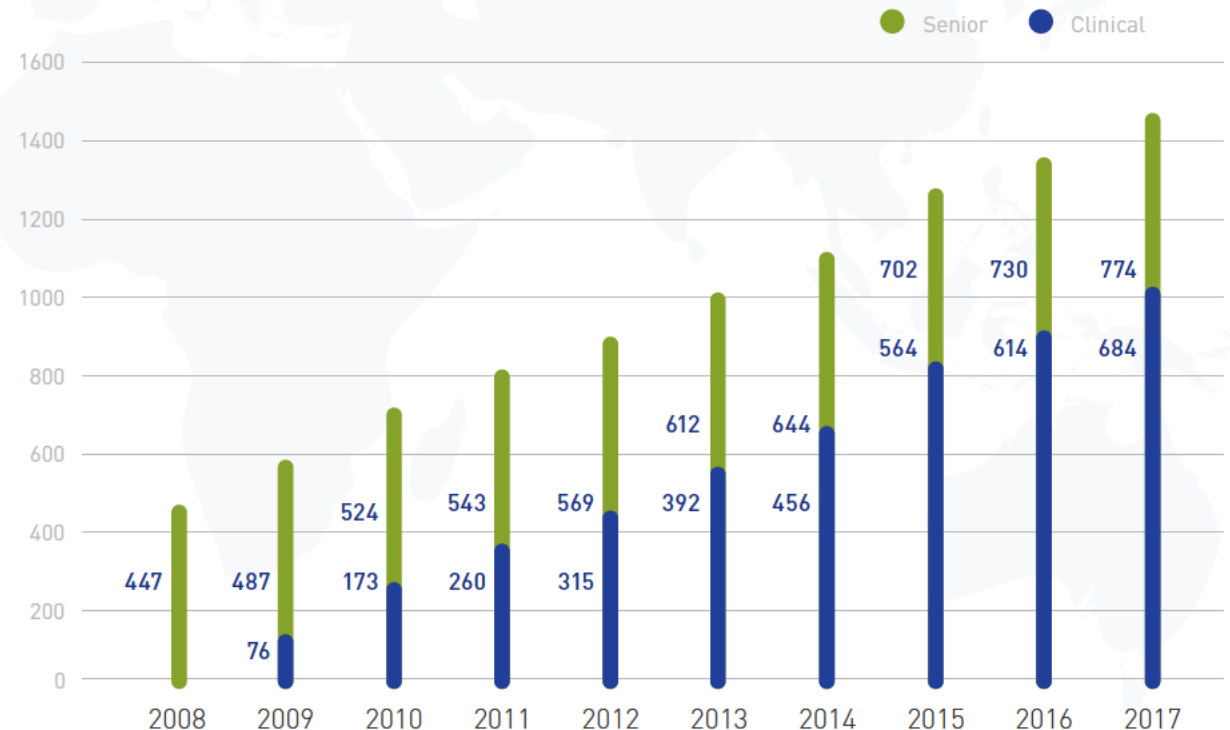
GENEVA 2017

	Clinical	Senior
N° of received applications	176	111
N° (%) of valid applications	95%	95%
N° of all participants	142	85
N° passed	70	44

CERTIFIED EMBRYOLOGISTS (ACCUMULATED)

TOTAL NUMBER
OF EMBRYOLOGISTS
1458
IN 2017

1361
INDIVIDUALS
WITH ONE OR
TWO CERTIFICATES



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CERTIFICATION AND ACCREDITATION



ESHRE CERTIFICATION FOR NURSES AND MIDWIVES

- » Introduced in 2015
- » 2017: 3rd edition of the exam
- » Includes validation of a logbook and an exam
- » Validates experience, skills and knowledge of nurses and midwives involved in reproductive health

ESHRE CERTIFICATION FOR REPRODUCTIVE ENDOSCOPIC SURGEONS (ECRES)

- » Two-level programme (Primary and Master)
- » Introduced in 2013
- » Validates hysteroscopic and laparoscopic skills
- » Assessment of both practical and theoretical skills

ESHRE/EBCOG CENTRE ACCREDITATION FOR SUBSPECIALIST TRAINING IN REPRODUCTIVE MEDICINE

- » Quality label for specialist centres
- » Attests good in-house facilities and expertise to provide adequate training for fertility professionals

RESULTS

Total nurses passed the exam in 2017 **7**



Total number of certified individuals **73**



NURSES & MIDWIVES CERTIFICATION

	2017
N° of received applications	21
N° (%) of valid applications	90%
N° of all participants	17
N° passed	7

RESULTS

17 Total number of certified individuals in 2017: 16 individuals holding the primary level and 1 holding the master level certificate.



ECRES LEVELS 2017

	Primary	Master
N° of all participants	28	5
N° of participants passing the tests	18	2
N° of certified surgeons (fulfilled all requirements and received the certificate)	4	1

4

CERTIFICATES FOR THE ECRES PRIMARY LEVEL WERE ISSUED

1

CERTIFICATE FOR THE ECRES MASTER LEVEL WAS ISSUED

Country	City	Center & address
Greece	Larissa	University Hospital of Larissa
Spain	Madrid	IVI Madrid
Sweden	Stockholm	Karolinska University Hospital
Sweden	Uppsala	Uppsala University Hospital
Greece	Athens	First Department, University of Athens Medical School
Italy	Milan	Humanitas Research Hospital, Department of Gynecology, Division of Gynecology and Reproductive Medicine, Humanitas Fertility Center via Manzoni 56, Rozzano (Milan) Italy
Belgium	Brussels	Universitair Ziekenhuis Brussel (VUB)
Greece	Thessaloniki	Aristotle University of Thessaloniki
Belgium	Leuven	University Hospital Gasthuisberg
Austria	Vienna	Vienna University Hospital (AKH): Clinical Division of Gynaecologic Endocrinology and Reproductive Medicine
Slovenia	Ljubljana	University Medical Centre Ljubljana, Division of Obstetrics and Gynaecology, Department of Human Reproduction
Slovenia	Maribor	Hospital Univerzitetni Klinični Maribor

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FINANCES



€ 7 437 903.44

INCOME 2017

€ 6 512 611.09

EXPENDITURE 2017

€ 925 292.35

NET RESULT 2017

POSITIVE NET
BALANCE OF

€ 925 292.35

DECREASE IN NET
RESULT OF AROUND

27.5%



THE APPROPRIATION ACCOUNT
AS OF 31 DECEMBER 2017
SHOWED A TOTAL OF

€ 14 608 935.13

ESHRE MAINTAINS A
SOUND FINANCIAL BALANCE

INCOME 2017



Annual Meetings	67.33%	Exchange Activities	3.72%
Publications	13.25%	Interests & other Financial Income	3.69%
Live Educational Activities	7.31%	Certification	0.24%
Membership	4.48%		



Annual Meeting



Publications



Campus Meetings

EXPENSES 2017



Annual Meetings	47.34%	Communication & Press Activities	1.91%
Operational Costs (Central Office)	24.71%	Certification / Accreditation	1.75%
Special Interest Groups (Campus Meetings, e-Learning, Guidelines)	10.22%	Taxes	0.67%
Exchange Activities & Third Party Support	6.50%	Surveys & Data Collection	0.66%
Committee & Expert Meetings	3.58%	Working Groups	0.14%
Financial Costs	2.52%		



Annual Meeting



Operations



Special Interest Groups



Exchange Activities

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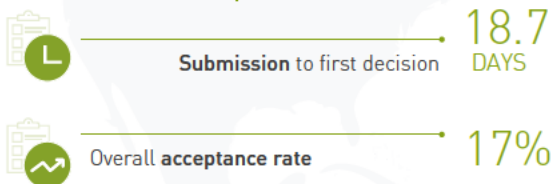
ESHRE JOURNALS

HUMAN REPRODUCTION

ESHRE'S FLAGSHIP JOURNAL

IMPACT FACTOR **5,020**

2nd in the category of Reproductive Biology
5th in the category of Obstetrics and Gynaecology



ESHRE PAGES

ESHRE PGD Consortium data collection XIV–XV: cycles from January 2011 to December 2012 with pregnancy follow-up to October 2013

M. De Rycke et al., Human Reproduction, Volume 32, Issue 10, 1 October 2017, Pages 1974–1994, <https://doi.org/10.1093/humrep/dex265>

Assisted reproductive technology in Europe, 2013 results generated from European registers by ESHRE
C. Calhaz-Jorge et al., Human Reproduction, Volume 32, Issue 10, 1 October 2017, Pages 1957–1973, <https://doi.org/10.1093/humrep/dex264>

The International Glossary on Infertility and Fertility Care, 2017
Fernando Zegers-Hochschild et al., Human Reproduction, Volume 32, Issue 9, 1 September 2017, Pages 1786–1801, <https://doi.org/10.1093/humrep/dex234>

MEDIA ATTENTION

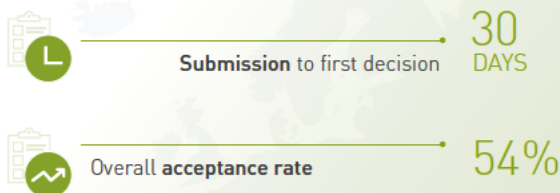
The article, 'Early menarche (<11y) and nulliparity are associated with higher risk of premature and early menopause', achieved an Altmetric score of **718** and **510** page views after a press release on January 25th 2017, and was mentioned by **90** news outlets.

The article, 'Genetic diseases and aneuploidies can be detected with a single blastocyst biopsy: a successful clinical approach', achieved an Altmetric score of **65** after a press release on June 13th and being picked up by **7** news outlets.

An article published in November, 'Vitamin D and assisted reproductive treatment outcome: a systematic review and meta-analysis', received media attention following a press release on November 15th 2017. As of January 9th 2018, the article had an Altmetric score of **290** and was mentioned by **35** news outlets.

HUMAN REPRODUCTION OPEN

THE ESHRE JOURNAL IN OPEN ACCESS



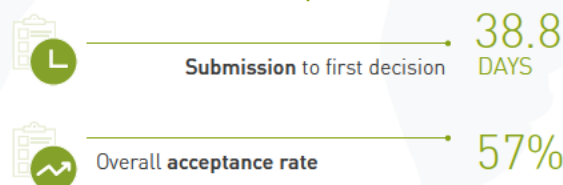
LAUNCHED IN **2017**

HUMAN REPRODUCTION UPDATE

THE JOURNAL AT THE TOP OF THE FIELD

IMPACT FACTOR **11,748**

1st in the category of Reproductive Biology
1st in the category of Obstetrics and Gynaecology



MEDIA ATTENTION

The HRU article, 'Temporal trends in sperm count: a systematic review and meta-regression analysis', was covered by **324** news outlets, on **23** blogs, mentioned by **356** tweeters and on **40** Facebook pages. This has led to the article having an impressive Altmetric score of **3023** (as of January 5 2018), ranking **26th** in the Altmetric top 100 articles for 2017

hro
human
reproduction
open

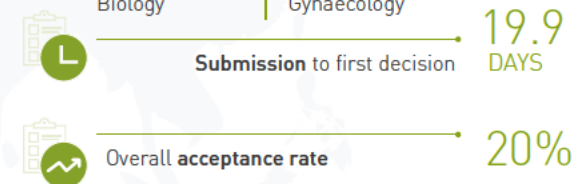
molecular
human
reproduction

MOLECULAR HUMAN REPRODUCTION

BASIC SCIENCE OF REPRODUCTIVE MEDICINE

IMPACT FACTOR **3,585**

4th in the category of Reproductive Biology
10th in the category of Obstetrics and Gynaecology



DOUBLE-DIGIT
IMPACT FACTOR

HIGHEST IMPACT
FACTOR EVER RECORDED
IN BOTH CATEGORIES