



EUROCET

*European network of Competent
Authorities for tissues and cells*

Report 2019

**Summary of ART activities
Year 2018**



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European Network of Competent Authorities for Tissues and Cells

Report 2019

This document has been produced and published by EURO CET (www.eurocet.org) with the data collected by Competent Authorities for Medically Assisted Reproduction activities from European Member States (and other Extra EU countries).

The following report shows calculations regarding the whole donation-processing-distribution-transplantation process in the field of Medically Assisted Reproduction, **for the year 2018**.

This year **19** countries joined the collection and provided data - 17 EU Member States and 2 Extra EU countries. (*Appendix I*)

The collection of MAR data has significantly changed from the past ones.

The MAR form is now divided into six tables: one for collecting data on **partner donation** performed through **IUI and IVF/ICSI**; one on **non-partner donation** activities using **sperm** or **oocytes** or **embryos/zygotes**; one on **non-partner sperm donation** performed through **IUI, IVF/ICSI**, one on **non-partner oocyte donation** performed through **IVF/ICSI**, one on **non-partner oocyte and sperm donation** performed through **IVF/ICSI** and a new one on **preservation of reproductive capacity**.

In addition to leaving out procedures such as FET and other procedures, the data requested has been cut in order to focus only on necessary data on donation thus discarding all data on results.

The old rows “number of embryos/zygotes frozen” in the tables “MAR with non partner oocytes”, “non partner sperm” and “non partner oocytes and sperm” were split into “number of frozen embryos” and “number of frozen zygotes”.

Eurocet Team

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www.eurocet.org

For a right interpretation of the values in the tables, please take into account the following *legenda*:

NA (Not Available): The requested activity is present in the country but the Competent Authority does not collect the data yet.

NE (Not Existing): the Competent Authority is present in the country but there is not the requested activity.

Blank field: the Competent Authority did not provide any kind of data for this field.

(*) *The asterisk near the country means that data are related to the activities of year 2017.*

MAR with partner donation

Partner donation - IUI		
COUNTRY	Year	N° of couples treated
AT	2018	1.223
BE	2018	
BG	2018	2.581
CH	2018	NA
CY	2018	206
CZ	2018	NA
DE	2018	NA
DK	2018	
EE	2018	NA
ES*	2018	13.319
FI	2018	NA
FR*	2018	NA
GR	2018	
HR	2018	1.072
HU	2018	2.206
IE	2018	
IS	2018	
IT	2018	
LT	2018	776
LU	2018	133
LV	2018	
MD	2018	141
MK	2018	
MT	2018	NA
NL	2018	
NO	2018	
PL	2018	
PT	2018	
RO	2018	2.712
SE	2018	399
SI	2018	
SK	2018	2.423
TR	2018	
UK	2018	

Partner donation - IVF/ICSI

COUNTRY	Year	N° of couples treated	N° of oocytes retrievals	N° of oocyte cryopreservation procedures	N° of sperm cryopreservation procedures	N° of embryos cryopreservation procedures	N° of embryos (or zygotes) transfers (ET) (fresh and frozen)
AT	2018	9.023	81.099	NA	NA	NA	18.499
BE	2018						
BG	2018	8.202	9.379	471	1.620	4.539	6.497
CH	2018	5.716	46.329	369	NA	4.789	7.991
CY	2018	972	12.823	1.428		378	1.176
CZ	2018	9.695	11.790	37	NA	4.962	8.235
DE	2018	NA	NA	NA	NA	NA	NA
DK	2018						
EE	2018	NA	NA	NA	NA	NA	2.295
ES*	2018	37.257	48.686	5.264	NA	26.986	55.301
FI	2018	NA	NA	NA	NA	NA	NA
FR*	2018	NA	589.687	3.026	NE	79.902	79.045
GR	2018						
HR	2018	4.309	5.734	65	244	1.756	5.049
HU	2018	7.726	8.393	19	523	3.500	8.334
IE	2018						
IS	2018						
IT	2018						
LT	2018	1.168	1.238	4	21	408	1.616
LU	2018	600	610	2	0	306	815
LV	2018						
MD	2018	1.348	1.242	6	178	548	1.301
MK	2018						
MT	2018	222	218	102	23	13	212
NL	2018						
NO	2018						
PL	2018						
PT	2018						
RO	2018	5.327	6.169	96	349	3.422	7.029
SE	2018	9.607	11.251	5.598	7.971	14.392	15.703
SI	2018						
SK	2018	3.868	3.876	31	694	3.310	6.969
TR	2018						
UK	2018						

*nr of partner oocytes retrieved

Partner donation - TOTAL

COUNTRY	Year	N° of couples treated	N° of oocyte retrievals	N° of oocyte cryopreservation procedures	N° of sperm cryopreservation procedures	N° of embryos cryopreservation procedures	N° of embryos (or zygotes) transfers (ET) (fresh and frozen)
AT	2018	10.246	81.099	NA	NA	NA	18.499
BE	2018						
BG	2018	10.783	9.379	471	1.620	4.539	6.497
CH	2018	5.716	46.329	369	NA	4.789	7.991
CY	2018	1.178	12.823	1.428		393	1.176
CZ	2018	9.695	11.790	37	NA	4.962	8.235
DE	2018	NA	646.906	NA	NA	NA	NA
DK	2018						
EE	2018	NA	NA	NA	NA	NA	2.295
ES*	2018	50.576	48.686	5.264	NA	26.986	55.301
FI	2018	NA	NA	NA	NA	NA	NA
FR*	2018	NA	589.687	3.026	NE	79.902	79.045
GR	2018						
HR	2018	5.381	5.734	65	244	1.756	5.049
HU	2018	9.932	8.393	19	523	3.500	8.334
IE	2018						
IS	2018						
IT	2018						
LT	2018	1.944	1.238	4	21	408	1.616
LU	2018	733	610	2	0	306	815
LV	2018						
MD	2018	1.489	1.242	6	178	548	1.301
MK	2018						
MT	2018	222	218	102	23	13	212
NL	2018						
NO	2018						
PL	2018						
PT	2018						
RO	2018	8.042	6.169	96	349	3.422	7.029
SE	2018	10.006	11.251	5.598	7.971	14.392	15.703
SI	2018						
SK	2018	6.291	3.876	31	699	3.310	6.969
TR	2018						
UK	2018						

Non Partner Donation Activities - EMBRYOS/ZYGOTES

COUNTRY	Year	N° of donation (sperm/oocytes collection)	N° of embryos/zygotes distributed TO a foreign country	Inside the EU	Outside the EU	N° of embryos/zygotes distributed FROM a foreign country	Inside the EU	Outside the EU
AT	2018	NE	0	0	0	0	0	0
BE	2018							
BG	2018	0	0	0	0	0	0	0
CH	2018	NE	NE	NE	NE	NE	NE	NE
CY	2018	18						
CZ	2018	NA	2.027	1.596	431	277	274	3
DE	2018	NE	NE	NE	NE	NE	NE	NE
DK	2018							
EE	2018	62	NA	NA	NA	NA	NA	NA
ES*	2018	2.551	NA	NA	NA	NA	NA	NA
FI	2018	19	0	0	0	0	0	0
FR*	2018	127	NE	NE	NE	NE	NE	NE
GR	2018							
HR	2018	0	0	0	0	0	0	0
HU	2018	12	0	0	0	2	2	0
IE	2018							
IS	2018							
IT	2018							
LT	2018	0	0	0	0	0	0	0
LU	2018	0	0	0	0	0	0	0
LV	2018							
MD	2018	NE	NE	NE	NE	NE	NE	NE
MK	2018							
MT	2018	NE	NE	NE	NE	NE	NE	NE
NL	2018							
NO	2018							
PL	2018							
PT	2018							
RO	2018	1	0	0	0	0	24	0
SE	2018	NE	0	0	0	0	0	0
SI	2018							
SK	2018	11	8	8	0	7	7	0
TR	2018							
UK	2018							

MAR with non partner SPERM donation

Non Partner SPERM Donation - IUI		
COUNTRY	Year	N° of initiated cycles (started with the intention to treat)
AT	2018	388
BE	2018	
BG	2018	610
CH	2018	NA
CY	2018	14
CZ	2018	NA
DE	2018	NA
DK	2018	
EE	2018	158
ES*	2018	12.765
FI	2018	NA
FR*	2018	2.972
GR	2018	
HR	2018	0
HU	2018	19
IE	2018	
IS	2018	
IT	2018	
LT	2018	7
LU	2018	78
LV	2018	
MD	2018	2
MK	2018	
MT	2018	NE
NL	2018	
NO	2018	
PL	2018	
PT	2018	
RO	2018	238
SE	2018	1.023
SI	2018	
SK	2018	68
TR	2018	
UK	2018	

Non Partner SPERM Donation - IVF/ICSI					
COUNTRY	Year	N° of treatment cycles with sperm donation	N° of embryo or zygote transfers (ET)	N° of frozen embryos	N° of frozen zygotes
AT	2018	457	644	712	NA
BE	2018				
BG	2018	574	479	457	5
CH	2018	262	215	154	433
CY	2018	134	196	152	
CZ	2018	776	597	1.317	NA
DE	2018	NA	NA	NA	NA
DK	2018				
EE	2018	155	176	284	NA
ES*	2018	NA	12.668	NA	NA
FI	2018	NA	NA	NA	NA
FR*	2018	1.084	758	1.342	NE
GR	2018				
HR	2018	0	0	0	0
HU	2018	277	264	257	0
IE	2018				
IS	2018				
IT	2018				
LT	2018	14	10	10	0
LU	2018	66	85	85	0
LV	2018				
MD	2018	3	3	6	NE
MK	2018				
MT	2018	NE	NE	NE	NE
NL	2018				
NO	2018				
PL	2018				
PT	2018				
RO	2018	289	236	549	0
SE	2018	1.014	1.037	947	NA
SI	2018				
SK	2018	161	178	285	126
TR	2018				
UK	2018				

Non Partner SPERM Donation - TOTAL

COUNTRY	Year	N° of treatment cycles with sperm donation	N° of embryo or zygote transfers (ET)	N° of frozen embryos	N° of frozen zygotes
AT	2018	845	644	712	NA
BE	2018				
BG	2018	1.184	479	457	5
CH	2018	262	215	154	433
CY	2018	148	196	152	
CZ	2018	776	597	1.317	NA
DE	2018	NA	NA	NA	NA
DK	2018				
EE	2018	313	176	284	NA
ES*	2018	12.765	12.668	NA	NA
FI	2018	NA	NA	NA	NA
FR*	2018	4.056	758	1.342	NE
GR	2018				
HR	2018	0	0	0	0
HU	2018	296	264	257	0
IE	2018				
IS	2018				
IT	2018				
LT	2018	21	10	10	0
LU	2018	144	85	85	0
LV	2018				
MD	2018	5	3	6	NE
MK	2018				
MT	2018	NE	NE	NE	NE
NL	2018				
NO	2018				
PL	2018				
PT	2018				
RO	2018	527	235	549	0
SE	2018	2.037	1.037	947	NA
SI	2018				
SK	2018	229	178	285	126
TR	2018				
UK	2018				

ART with non partner OOCYTE donation

Non Partner OOCYTE Donation - IVF/ICSI

COUNTRY	Year	N° of treatment cycles with oocyte donation	N° of embryo or zygote transfers (ET)	N° of frozen embryos	N° of frozen zygotes
AT	2018	151	244	344	NA
BE	2018				
BG	2018	842	671	2.079	101
CH	2018	NE	NE	NE	NE
CY	2018	179	356	132	132
CZ	2018	4.829	4.193	12.652	NA
DE	2018	NE	NE	NE	NE
DK	2018				
EE	2018	NA	102	341	NA
ES*	2018	42.063	35.392	48.786	NA
FI	2018	NA	NA	NA	NA
FR*	2018	1.245	893	1.321	NE
GR	2018				
HR	2018	0	0	0	0
HU	2018	35	24	38	6
IE	2018				
IS	2018				
IT	2018				
LT	2018	3	5	22	0
LU	2018	0	0	0	0
LV	2018				
MD	2018	15	15	NE	NE
MK	2018				
MT	2018	NE	NE	NE	NE
NL	2018				
NO	2018				
PL	2018				
PT	2018				
RO	2018	37	28	29	0
SE	2018	238	249	382	NA
SI	2018				
SK	2018	191	260	562	21
TR	2018				
UK	2018				

MAR with non partner OOCYTE and SPERM donation

Non Partner OOCYTES AND SPERM Donation - IVF/ICSI

COUNTRY	Year	N° of treatment cycles with embryo donation	N° of embryos or zygotes transfers (ET)	N° of frozen embryos	N° of frozen zygotes
AT	2018	9	16	15	NA
BE	2018				
BG	2018	123	103	374	3
CH	2018	NE	NE	NE	NE
CY	2018				
CZ	2018	236	206	581	NA
DE	2018	NE	NE	NE	NE
DK	2018				
EE	2018	NA	13	49	NA
ES*	2018	NA	NA	NA	NA
FI	2018	NA	NA	NA	NA
FR*	2018	NE	NE	NE	NE
GR	2018				
HR	2018	0	0	0	0
HU	2018	22	35	0	0
IE	2018				
IS	2018				
IT	2018				
LT	2018	0	0	0	0
LU	2018	0	0	0	0
LV	2018				
MD	2018	NE	NE	NE	NE
MK	2018				
MT	2018	NE	NE	NE	NE
NL	2018				
NO	2018				
PL	2018				
PT	2018				
RO	2018	0	1	0	0
SE	2018	NE	NE	NE	NE
SI	2018				
SK	2018	60	95	126	4
TR	2018				
UK	2018				

Preservation of reproductive capacity

COUNTRY	Year	N° of oocyte cryopreservation procedures	N° of sperm cryopreservation procedures	N° of patients with ovarian tissue collected	N° of patients with testicular tissue collected
AT	2018	NA	NA	31	342
BE	2018				
BG	2018	103	267	0	0
CH	2018	NE	NE	NE	NE
CY	2018	8	5	2	0
CZ	2018	NA	NA	NA	NA
DE	2018	NA	NA	NA	NA
DK	2018				
EE	2018	NA	NA	NA	NA
ES*	2018	3.989	1.793	21	NA
FI	2018	NA	NA	NA	NA
FR*	2018	1.666	5.339	346	123
GR	2018				
HR	2018	27	191	4	40
HU	2018	19	569	1	99
IE	2018				
IS	2018				
IT	2018				
LT	2018	3	48	0	0
LU	2018	0	109	0	0
LV	2018				
MD	2018	NE	1	NE	NE
MK	2018				
MT	2018	102	74	0	0
NL	2018				
NO	2018				
PL	2018				
PT	2018				
RO	2018	29	257	0	40
SE	2018	NA	NA	20	89
SI	2018				
SK	2018	32	641	1	31
TR	2018				
UK	2018				

European Network of Competent Authorities for Tissues and Cells

Appendix I

List of countries and Competent Authorities providing data for 2018

✓ Austria Österreichische Agentur für Gesundheit und Ernährungssicherheit (AGES) – (Austrian Agency for Health and Food Safety)
Belgium
✓ Bulgaria ИЗПЪЛНИТЕЛНА АГЕНЦИЯ ПО ТРАНСПЛАНТАЦИЯ (BEAT) (Bulgarian Executive Agency for Transplantation)
✓ Croatia Ministarstvo zdravstva Zavod za transplantaciju i biomedicine Služba za transplantaciju (Ministry of Health and Social Welfare)
✓ Cyprus Ministry of Health of the Republic of Cyprus
✓ Czech Republic Ministerstvo zdravotnictví České republiky (MZCR) (Ministry of Health of the Czech Republic)
Denmark
✓ Estonia Ravimiamet (Estonian State Agency of Medicines)
✓ Finland Lääkealan turvallisuus- ja kehittämiskeskus (FIMEA) (Finnish Medicines Agency)
✓ France Agence de la biomédecine
✓ Germany Paul-Ehrlich-Institut (PEI) (Division of Medical Biotechnology)
Greece
✓ Hungary Emberi Erőforrások Minisztériuma (EMMI) - Ministry of Human Capacities
Ireland
Italy
Latvia
✓ Lithuania Nacionalinis Transplantacijos Biuras (NTB) (National Transplant Bureau)

European Network of Competent Authorities for Tissues and Cells

✓ **Luxembourg**

Ministère de la Santé – Direction de la Santé (MS-EATAT) (Ministry of Health)

Macedonia

✓ **Malta**

Ministry of Health (MOH)

✓ **Moldova**

AT - (The Transplant Agency)

Netherlands

Norway

Poland

Portugal

✓ **Romania**

Agenția Națională de Transplant (ANT)

✓ **Slovakia**

Ministerstvo zdravotníctva Slovenskej republiky (NTO)(National Transplant Organisation)

Slovenia

✓ **Spain**

Ministerio de Sanidad, Servicios Sociales e Igualdad (Ministry of Health, Social Services and Equality)

✓ **Sweden**

Health and Social Care Inspectorate (IVO)

✓ **Switzerland**

Bundesamt für Gesundheit (BAG)

Turkey

United Kingdom

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Glossary

—■ A

Actual donation: A donation in which the donated tissue or cells are considered acceptable for human application after all screening and quarantine procedures.

ART: Assisted Reproductive Technology (see also MAR)

—■ C

Collection: A process by which tissue or cells are made available.

Couples treated: All couples that initiated a treatment cycle

Cryopreservation: The process of slow freezing or vitrification to preserve biological material (e.g. gametes, zygotes, cleavage-stage embryos, blastocysts or gonadal tissue) at extreme low temperature

Competent Authority (or Health Authority/Regulatory Authority/Regulatory Agency): the body which has been delegated with the responsibility for ensuring that tissue and cell donation, banking and human application are appropriately promoted, regulated and monitored in the interests of donor and patient safety and public transparency on a national or regional basis by their government.

—■ D

Donation: means donating human tissues or cells intended for human applications.

Donor: Every human source, whether living or deceased of human cells or tissues of human cells.

Distribution: means transportation and delivery of tissues or cells intended for human applications.

—■ E

Embryo: The biological organism resulting from the development of the zygote, until eight completed weeks after fertilization, equivalent to 10 weeks of gestational age.

Embryo donation: An ART cycle, which consists of the transfer of an embryo to the uterus or Fallopian tube of a female recipient, resulting from gametes that did not originate from the female recipient or from her male partner, if present.

Embryo Transfer (ET): Placement into the uterus of an embryo at any embryonic stage from day 1 to day 7 after IVF or ICSI. Embryos from day 1 to day three can also be transferred into the Fallopian tube

—■ F

Fresh Embryo: An embryo at any embryonic stage from day 1 to day 7 after IVF or ICSI, in the absence of cryopreservation.

European Network of Competent Authorities for Tissues and Cells

Frozen Embryo: A cryopreserved embryo at any embryonic stage from day 1 to day 7 after IVF or ICSI.

Frozen Tissue: A cryopreserved tissue.

—■ H

Human Application: The use of tissues or cells on or in a human recipient.

Human tissues and cells for human application: Material containing or consisting of human tissues and/or cells intended for implantation, transplantation, infusion, or transfer into a human recipient.

—■ I

Intracytoplasmic sperm injection (ICSI): A procedure in which a single spermatozoon is injected into the oocyte cytoplasm.

In Vitro Fertilisation (IVF): A sequence of procedures that involves extracorporeal fertilization of gametes.

Intra Uterine Insemination (IUI): A procedure in which laboratory processed sperm are placed in the uterus to attempt a pregnancy.

—■ M

Medically Assisted Reproduction (MAR): All interventions that include the in vitro handling of both human oocytes and sperm or of embryos for the purpose of reproduction. This includes, but is not limited to, IVF and embryo transfer ET, intracytoplasmic sperm injection (ICSI), embryo biopsy, preimplantation genetic testing PGT, assisted hatching, gamete intrafallopian transfer (GIFT), zygote intrafallopian transfer, gamete and embryo cryopreservation, semen, oocyte and embryo donation, and gestational carrier cycles.

—■ N

Non Partner donation: Donation of reproductive cells between a man and a woman who do not have an intimate physical relationship; also called 'third party donation'.

—■ O

Oocyte: The female gamete (egg).

Ovarian tissue: Tissue surgically excised from the ovary with the intention of preserving reproductive capacity.

—■ P

Partner donation: Donation of reproductive cells between a man and a woman who declare that they have an intimate physical relationship.

Procurement: means a process by which tissue or cells are made available;

European Network of Competent Authorities for Tissues and Cells

—■ R

Retrieval or Recovery: see Procurement

—■ S

Sperm: The male gamete cell. Here used as the ensemble of all spermatozoa in the ejaculate.

Straw: Small storage device used for the cryogenic storage.

—■ T

Tissue: All constituent parts of the human body formed by cells.

Tissue Establishment: A tissue bank or a unit of a hospital or another body where activities of processing, preservation, storage or distribution of human tissues and cells are undertaken. It may also be responsible for procurement and/or testing of tissues and cells.

Tissue donation (effective): When tissue intended for human application is retrieved from a human body.

Testicular tissue: Tissue surgically excised from the testis with the intention of preserving reproductive capacity.

Transplantation/implantation/grafting: Transfer (engraftment) of human tissues or cells from a donor to a recipient with the aim of restoring function(s) in the body.

Treatment cycle: A cycle in which the woman receives specific medication for ovarian stimulation or in which cycle monitoring is carried out with the intention to treat, irrespective of whether or not insemination is performed, follicular aspiration is attempted in an ovarian stimulation cycle or whether egg(s) or embryo (s) are thawed or transferred in a frozen embryo transfer (FET) cycle.

—■ U

Unique donation number: The unique number attributed to a specific donation of tissues and cells in line with the system in place in each Member State for allocating such numbers, as further specified in Annex VII to Commission Directive (EU) 2015/565.

—■ Z

Zygote: A single cell resulting from fertilization of a mature oocyte by a spermatozoon and before completion of the first mitotic division.