
ICMART PRELIMINARY WORLD REPORT 2018

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Disclosures

The authors declare that they have **no commercial or financial interest** pertaining to the subject of this presentation or its content.





Global perspectives and developments

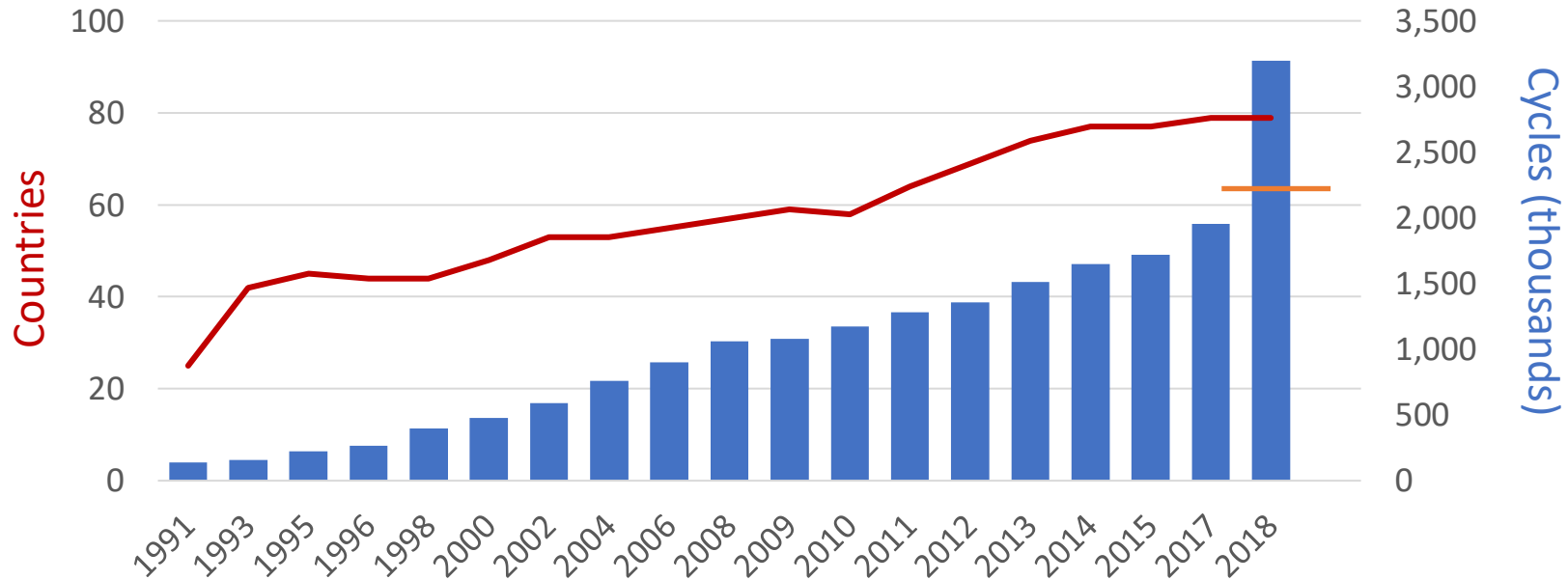
- Real life registry data central to quality fertility care¹
- China: new ICMART contributor
- The National Perinatal Epidemiology and Statistics Unit of the UNSW is the Data Custodian of the ICMART World Registry and collects and analyses the data in the World Reports in partnership with ICMART
- Additional regional representatives
- New special advisors



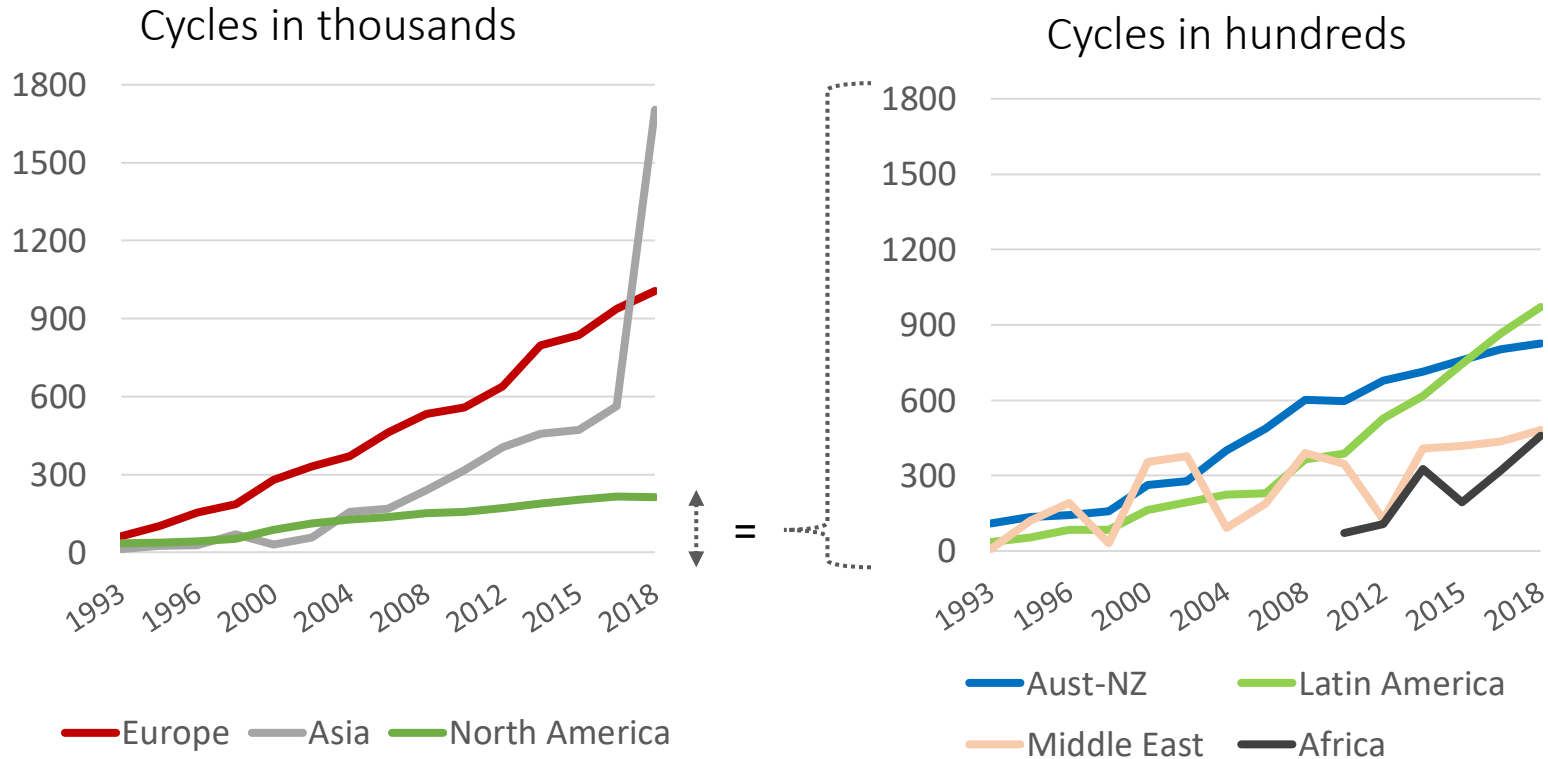
1. <https://www.who.int/news-room/fact-sheets/detail/infertility>; [/detail/quality-health-services](https://www.who.int/news-room/fact-sheets/detail/quality-health-services)

ICMART World Registry: 1991 – 2018

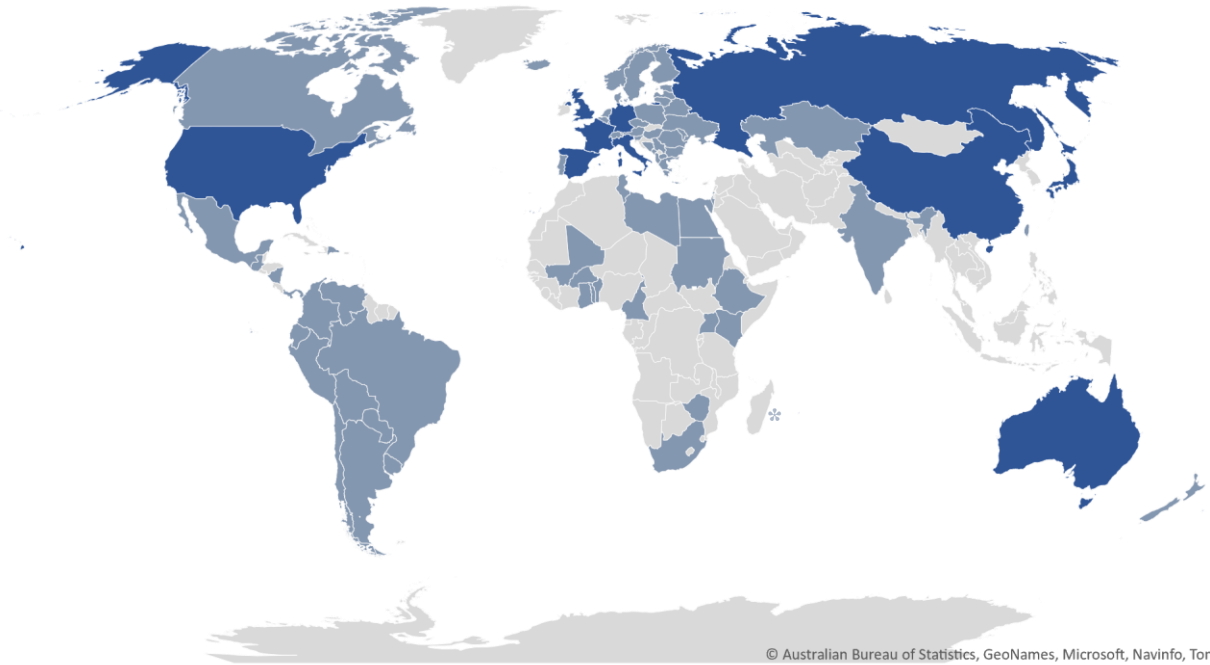
3,196,685 cycles from 79 countries (+ 63.4%)



ICMART World Registry: Growth by Region



ICMART Contributors 2018: 79 Countries, 2971 Clinics



Top 10 Cycles

China	1 075 788
Japan	452 210
USA	180 406
Russia	152 272
Spain	137 701
France	114 674
Germany	105 328
Italy	81 419
Australia	75 195
UK	67 849

76.4%
of cycles

≈ 90 - 95 % of World ART activity

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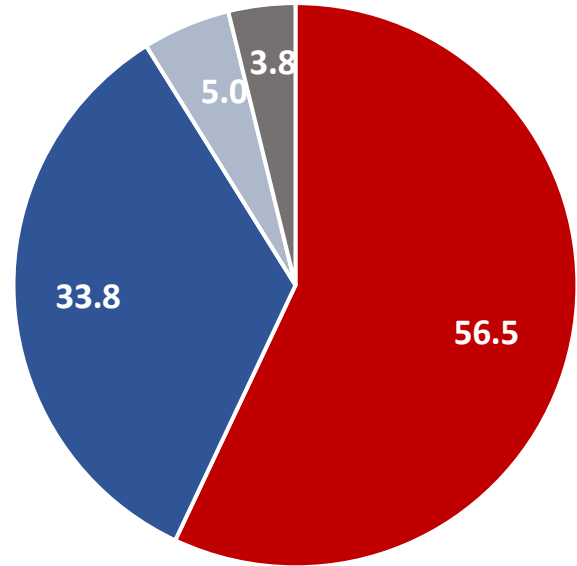
Results 2018

- 3,196,685 reported cycles
- 664,384 deliveries
(missing data: n=2 countries)
- 769,977 babies

Plus

Autologous frozen oocyte thaw cycles 0.3%

Aspirations for fertility preservation 0.5%



■ Initiated fresh IVF&ICSI

■ Autologous thaw cycles

■ Fresh & frozen OD ET

■ Initiated PGT

Distribution of ART procedures



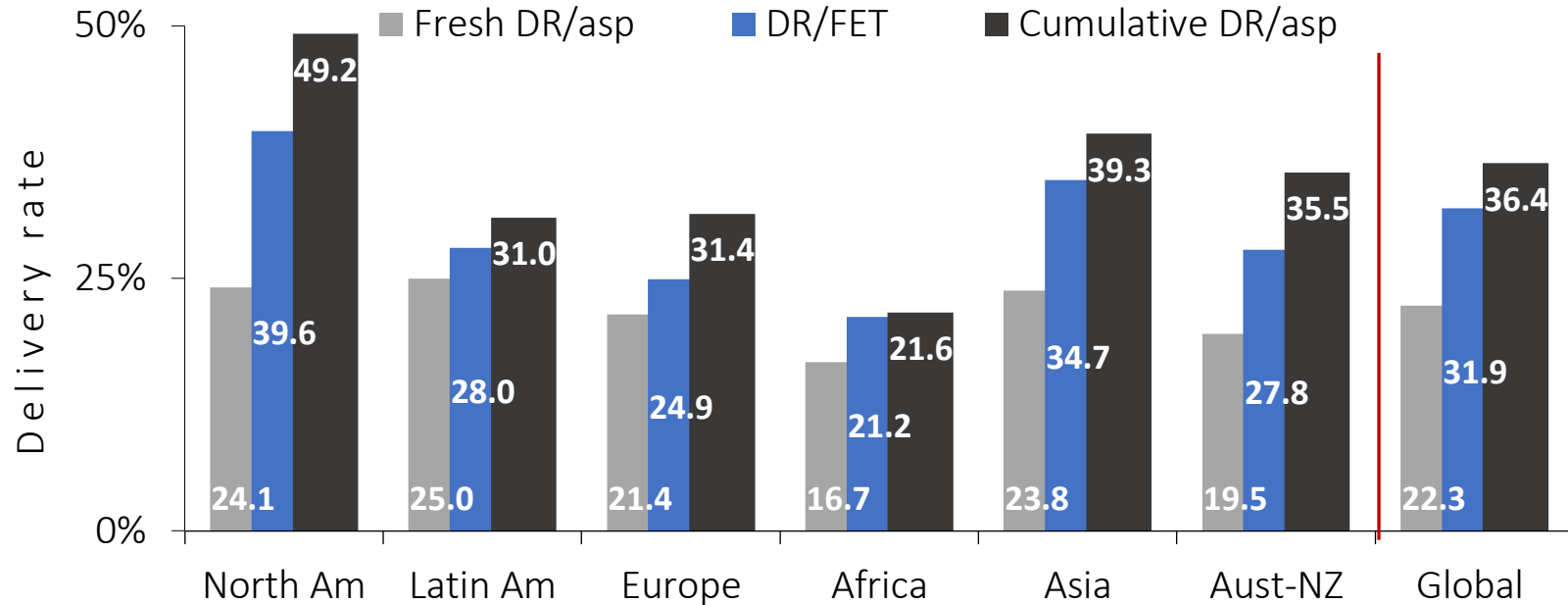
2018 Overview: Effectiveness

PROCEDURES	N	DELIVERY RATES ¹
Autologous aspirations	1,578,007	22.5% per asp
Freeze All cycles	551,378	
Conventional IVF ETs	331,630	25.9% per asp
ICSI ETs	413,569	20.0% per asp
Frozen embryo transfers	1,080,331	31.9% per ET
PGT transfers	81,113	46.2% per ET
Egg donation transfers (fresh and frozen)	161,139	34.4% per ET

1. Excluding countries not reporting deliveries (n=2) and freeze all cycles from DR/asp



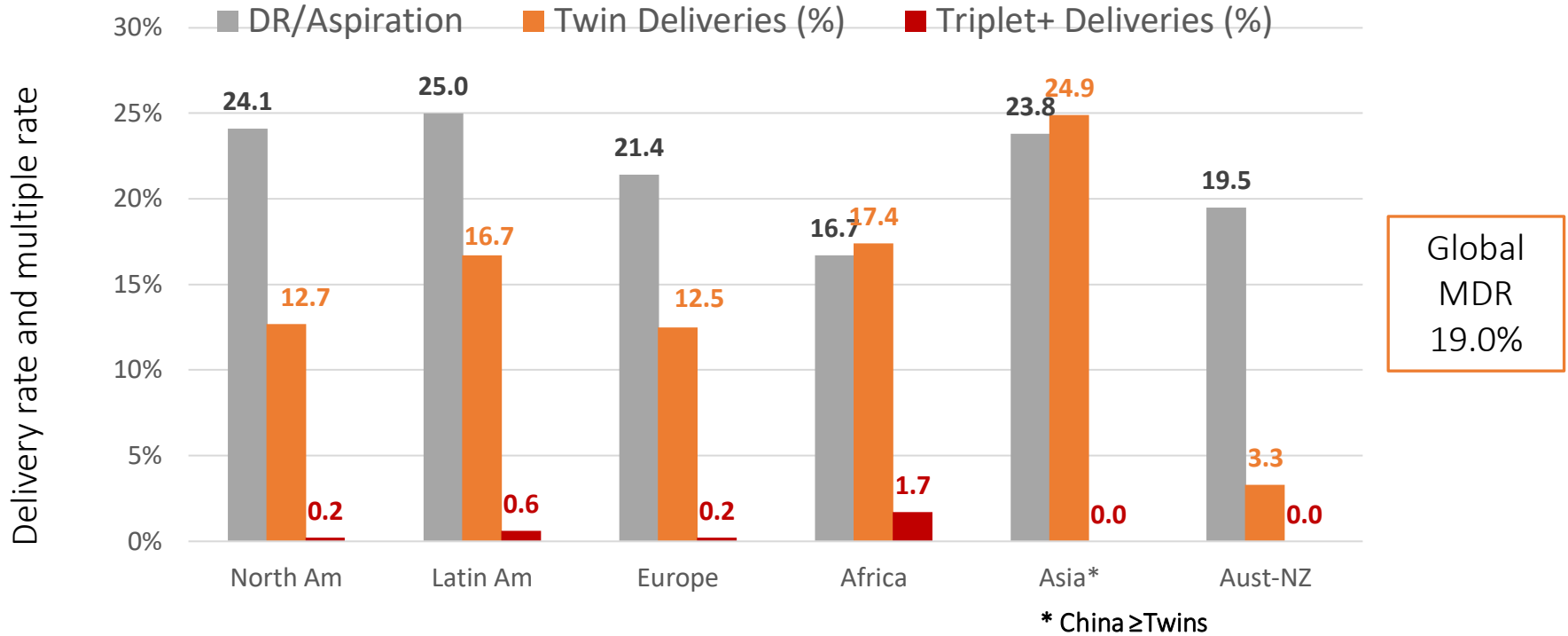
Autologous ART: Delivery Rates, 2018



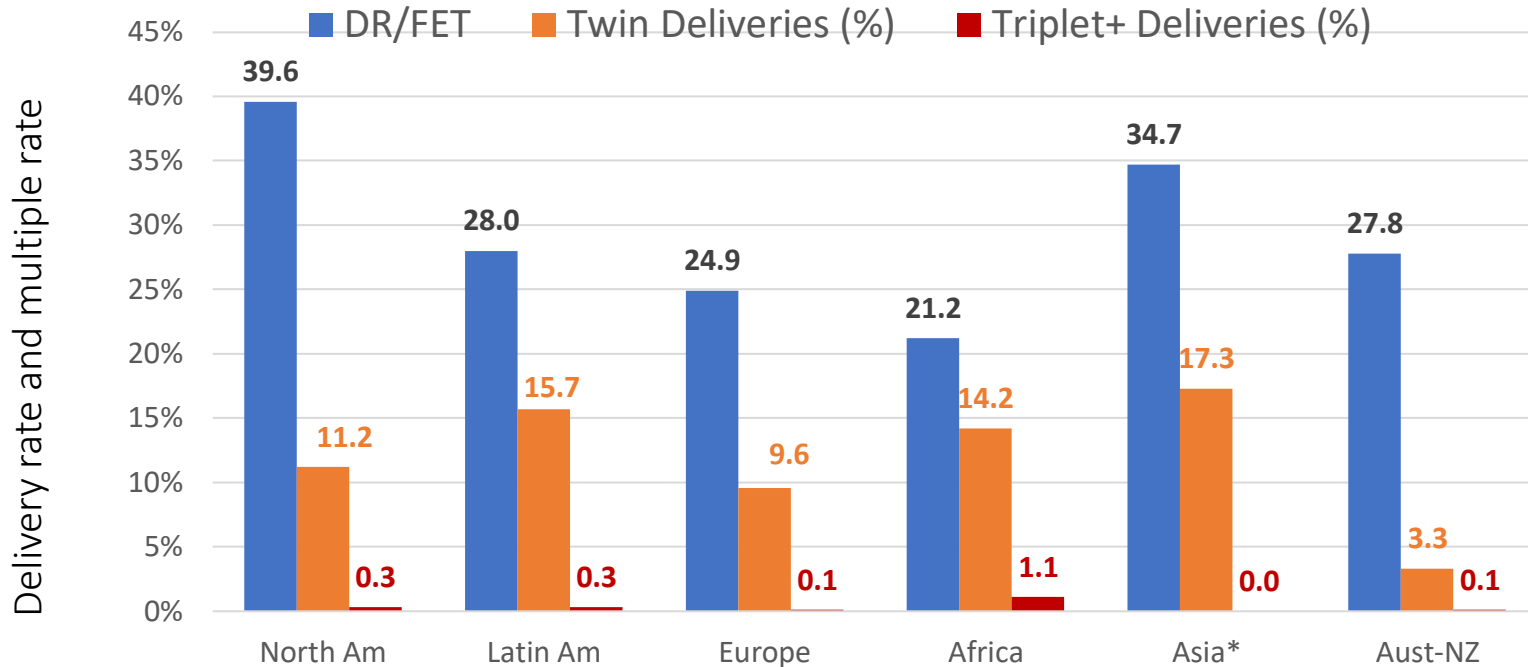
Freeze all cycles excluded in fresh DR/asp and included in cumulative DR/asp



Autologous ART: Fresh DR/asp and Multiple Rates



Autologous ART: Frozen DR/ET and Multiple Rates

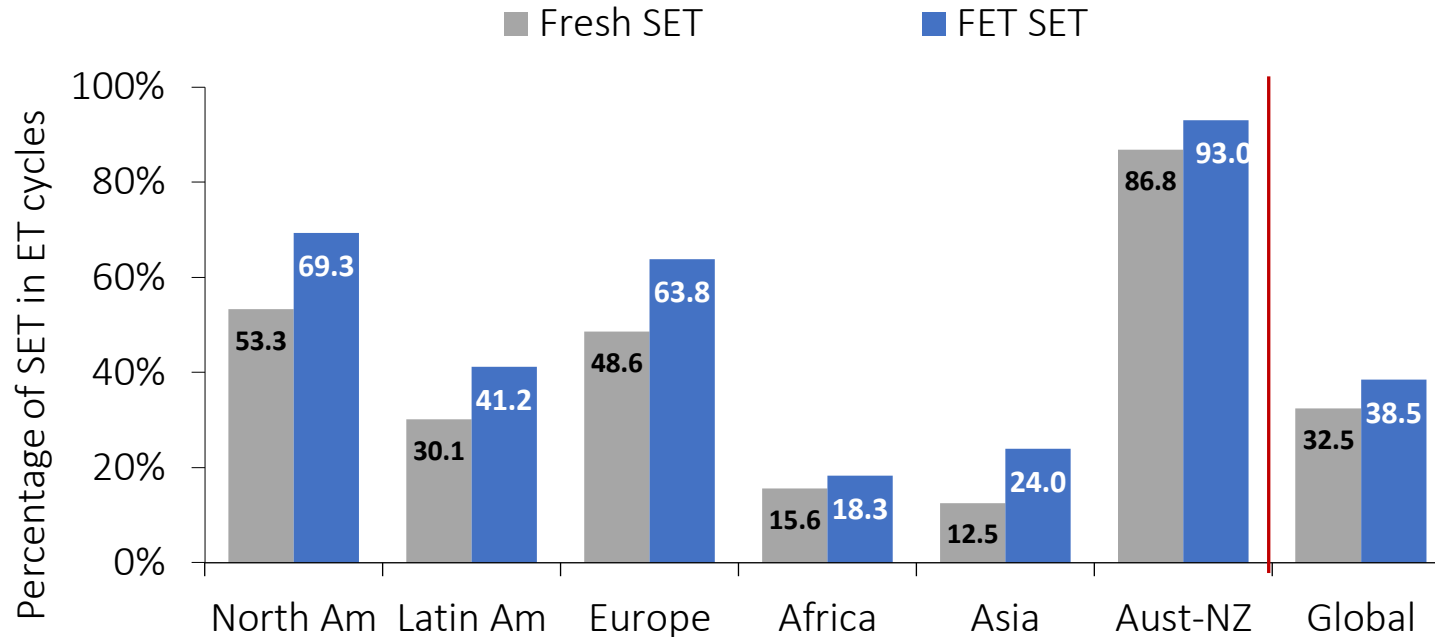


Global
MDR
15.0%

* China \geq Twins



Autologous ART: SET in fresh vs frozen cycles

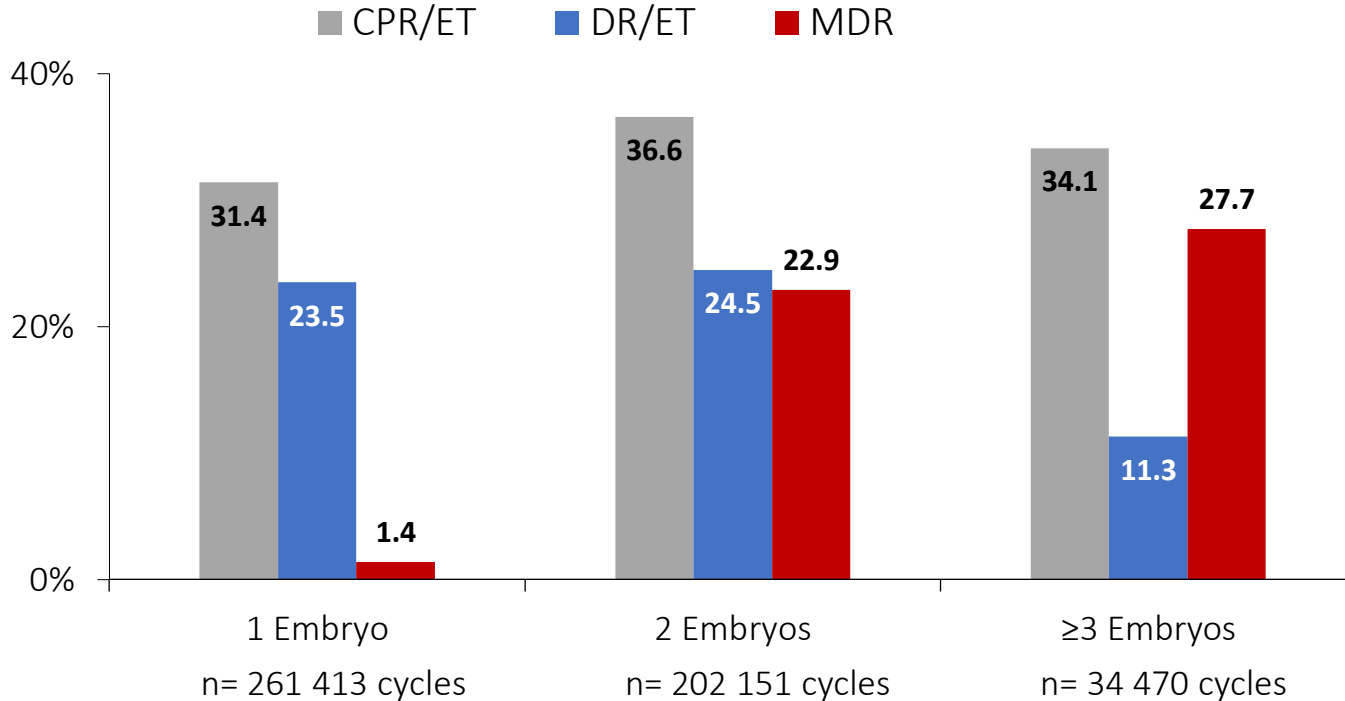


SET, Single embryo transfer



Autologous ART: Fresh Transfer Effectiveness

Aggregated data by no. embryos transferred

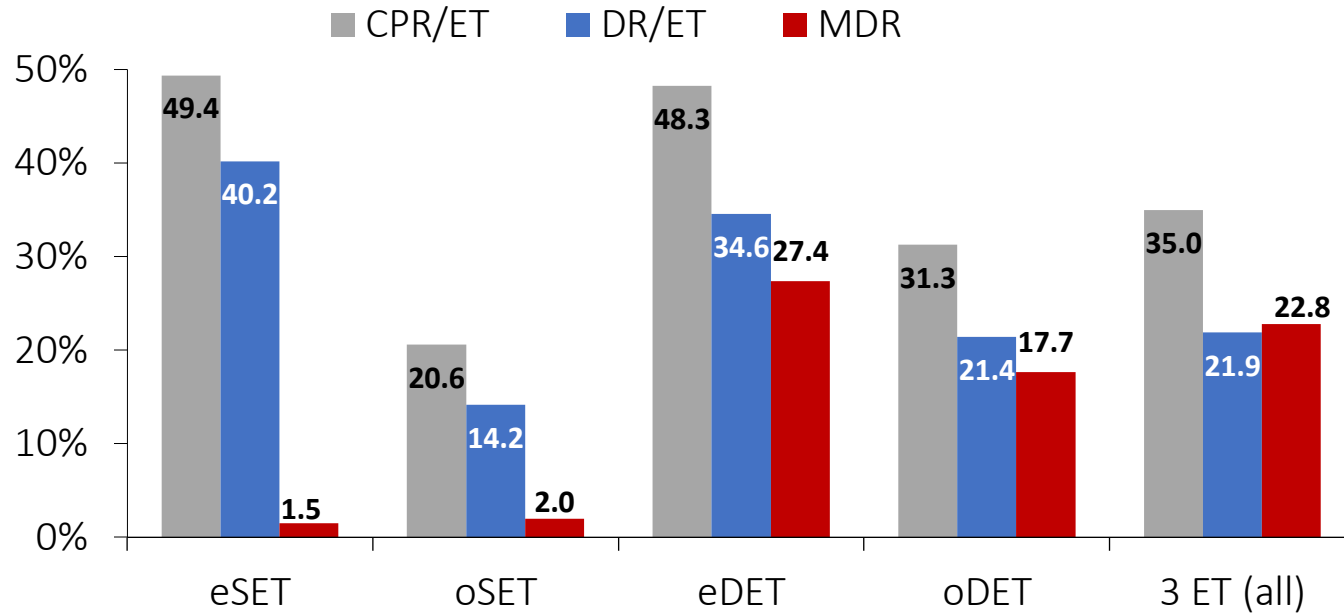


CPR, clinical pregnancy rate; DR, delivery rate; MDR, multiple delivery rate; n= number of transfers



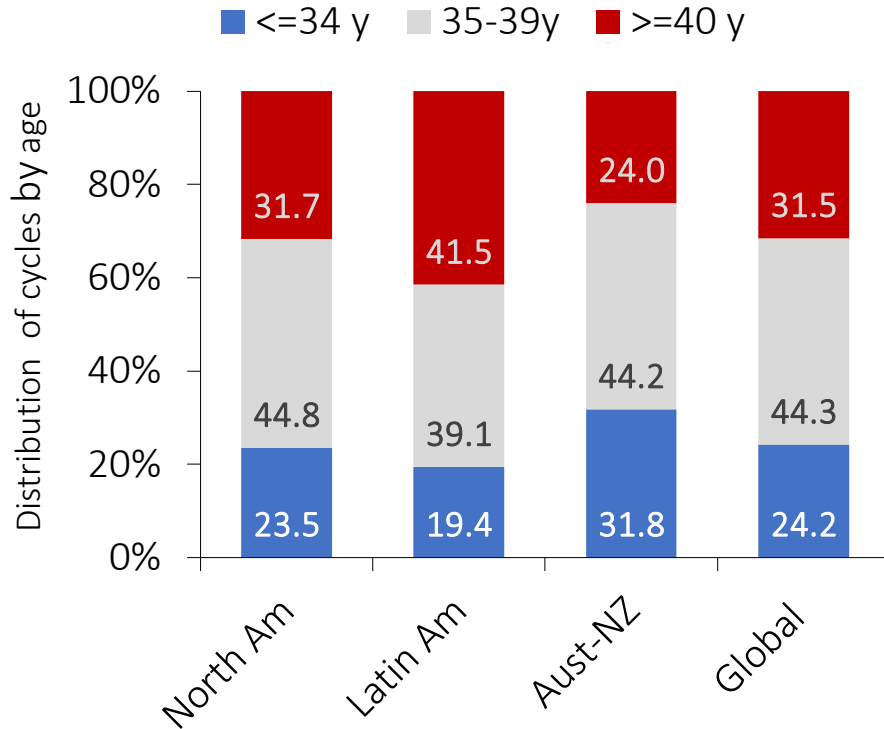
Autologous ART: Elective vs. Non-elective SET & DET

28 Countries with disaggregated data



eSET, elective single embryo transfer; oSET non-elective single embryo transfer
eDET, elective dual embryo transfer; oDET non-elective dual embryo transfer

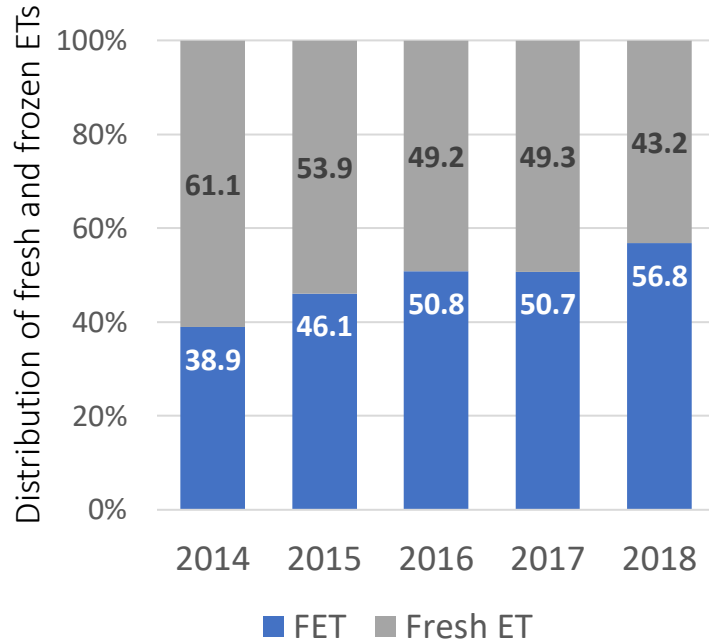
PGT: Distribution by age and DR per ET



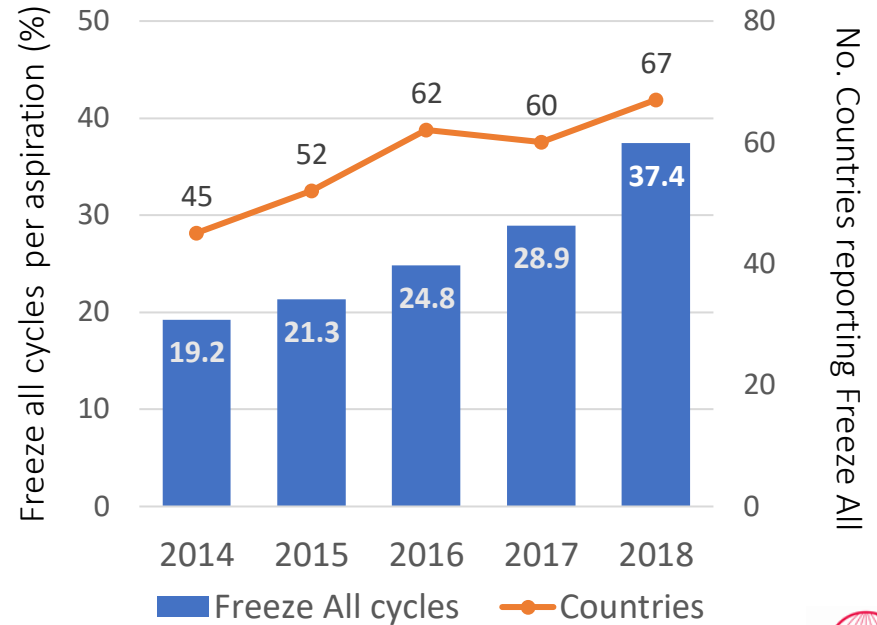
	DR/ET
≤ 34	50.1%
34-39	50.4%
≥ 40	46.4%
<hr/>	
Total*	46.2%
* Including Europe and Asia	

5-year trends: autologous cryopreservation

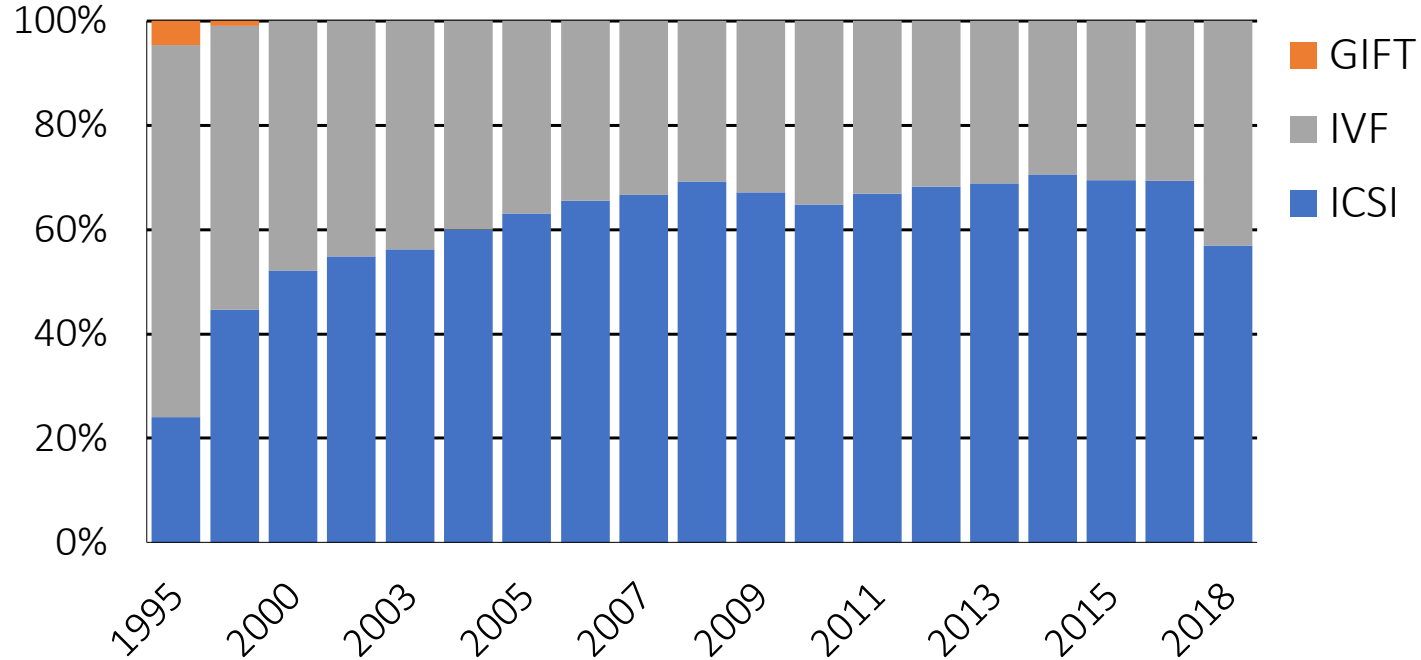
Fresh ET versus FET



Freeze all cycles



Trends: Conventional IVF vs. ICSI



Key Observations and Trends, 2018

- Total No. ART **cycles** > **3 Million** (+64.3% from 2017)
- Large increase due to new participation of **China**
- **Differences** between regions more accentuated than ever

76.4% of cycles from 10 countries

Differences in population numbers

Differences in reporting

Differences in access to care

Key Observations and Trends, 2018 versus 2017

- Women's **age increasing** in all regions except Africa
 - Women $\geq 40y$: Globally from 22.9% to 28.0%
 - Women $\leq 35y$: Globally from 38.9% to 36.4%;
- Regional **variations in effectiveness**
 - Many variables: age, patient selection, clinical protocols, number of embryos transferred
- **Cryopreservation** cycles in autologous ART **increasing**
 - Freeze all cycles: 37.4% of aspirations¹ (+8.5%)
 - FET cycles: 56.8% of all fresh and frozen ETs (+6.1%)

1. In countries reporting ≥ 1 freeze all cycles



Thank you to our Contributors

ANARA (Africa), 16 countries: Benin, Burkina Faso, Cameroon, Egypt, Ethiopia, Ghana, Kenya, Libya, Mali, Mauritius, South Africa, Sudan, Tunisia, Togo, Uganda, Zimbabwe

ANZARD, 2 countries: Australia, New Zealand

ASIA: China, India, Indonesia, Japan, Taiwan

EIM (ESHRE), 39 countries: Albania, Armenia, Austria, Belarus, Belgium, Bosnia, Bulgaria, Czech Rep, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Kazakhstan, Latvia, Lithuania, Luxembourg, Macedonia, Malta, Moldova, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovenia, Spain, Sweden, Switzerland, Ukraine, United Kingdom

MIDDLE EAST: Israel

NORTH AMERICA: Canada, United States

RED LARA (Latin America), 15 countries: Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Guatemala, Mexico, Nicaragua, Panama, Paraguay, Peru, Dominican Republic, Uruguay, Venezuela





Thank You to our Sponsoring Organizations





*Thank you to all those
who placed themselves
into the care
of ART centres in 2018*

