
ICMART PRELIMINARY WORLD REPORT 2015



ESHRE
Vienna, Austria
June 25, 2019

ICMART is a non-State actor in
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David Adamson: USA/Canada
Fernando Zegers: Chile
Jacques de Mouzon: France
Osamu Ishihara: Japan
Silke Dyer: South Africa
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Disclosure

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



ICMART International Glossary



ASRM PAGES



The International Glossary on Infertility and Fertility Care, 2017

Fernando Zegers-Hochschild,^a G. David Adamson,^b Silke Dyer,^c Catherine Racowsky,^d Jacques de Mouzon,^e Rebecca Sokol,^f Laura Rienzi,^g Arne Sunde,^h Lone Schmidt,ⁱ Ian D. Cooke,^j Joe Leigh Simpson,^k and Sheryl van der Poel^l

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human
reproduction

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The International Glossary on Infertility and Fertility Care, 2017^{†‡§}

Fernando Zegers-Hochschild^{1,*}, G. David Adamson², Silke Dyer³, Catherine Racowsky⁴, Jacques de Mouzon⁵, Rebecca Sokol⁶, Laura Rienzi⁷, Arne Sunde⁸, Lone Schmidt⁹, Ian D. Cooke¹⁰, Joe Leigh Simpson¹¹, and Sheryl van der Poel¹²

[†]Led by The International Committee for Monitoring Assisted Reproductive Technologies (**ICMART**) in Partnership with the American Society for Reproductive Medicine (**ASRM**), European Society of Human Reproduction and Embryology (**ESHRE**), International Federation of Fertility Societies, (**IFFS**), March of Dimes (**MOD**), African Fertility Society (**AFS**), Groupe Inter-africain d'Etude de Recherche et d'Application sur la Fertilité (**GIERAF**), Asian Pacific Initiative on Reproduction (**ASPIRE**), Middle East Fertility Society (**MEFS**), Red Latinoamericana de Reproducción Asistida (**REDLARA**), International Federation of Gynecology and Obstetrics (**FIGO**).



Definition of Infertility 2017



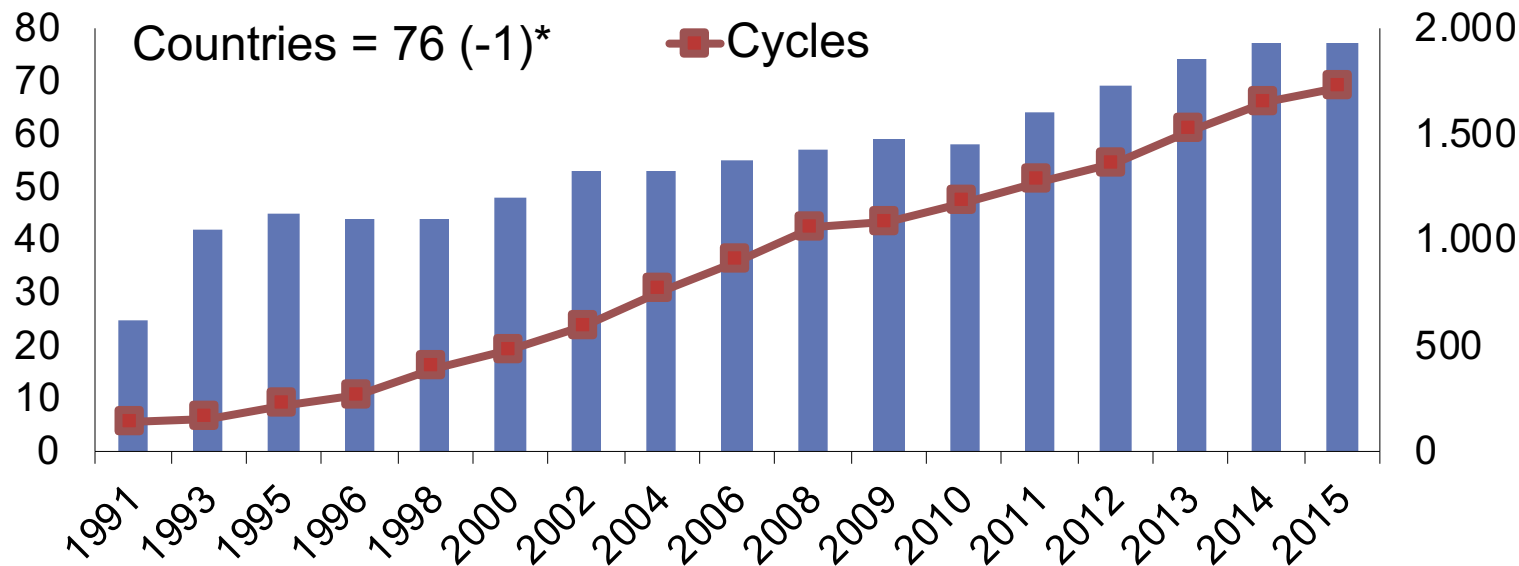
A **disease** characterized by the **failure** to establish a clinical **pregnancy** after **12 months** of regular, unprotected **sexual intercourse** or due to an **impairment** of a **person's capacity to reproduce** either as an **individual** or with his/her **partner**. Fertility **interventions** may be initiated in less than one year based on medical, sexual and reproductive history, age, physical findings and diagnostic testing. Infertility is a **disease**, which **generates disability** as an **impairment of function**.



World Report Coverage History

Countries

Thousand cycles



2015: 1,722,412 cycles (+4.5%)

* India delayed



10 Main Contributors in 2015

Country	Cycles
Japan	424,151
US	174,040
Spain	117,356
Russia	109,136
Germany	96,512
France	92,995
Italy	71,788
Australia	69,903
UK	64,232
Taiwan	42,176



73.3% of
1,722,412
cycles



Participation and Coverage



- 25 countries in 1991 → 76 in 2015
 - Almost all of Europe, the Americas, Australia-NZ
 - Missing countries : Middle-East, Asia
 - 14 African countries (Benin, Burkina Faso, Cameroon, Egypt, Ghana, Ivory Coast, Mali, Mauritius, Morocco, Nigeria, Senegal, South Africa, Togo, Tunisia)
- 2,691 clinics (-43)
 - 85 % of all clinics in reporting countries
- 31 countries >90% coverage (+6); 24 (full -7)
- But incomplete information

63-70% of World ART activity



Africa



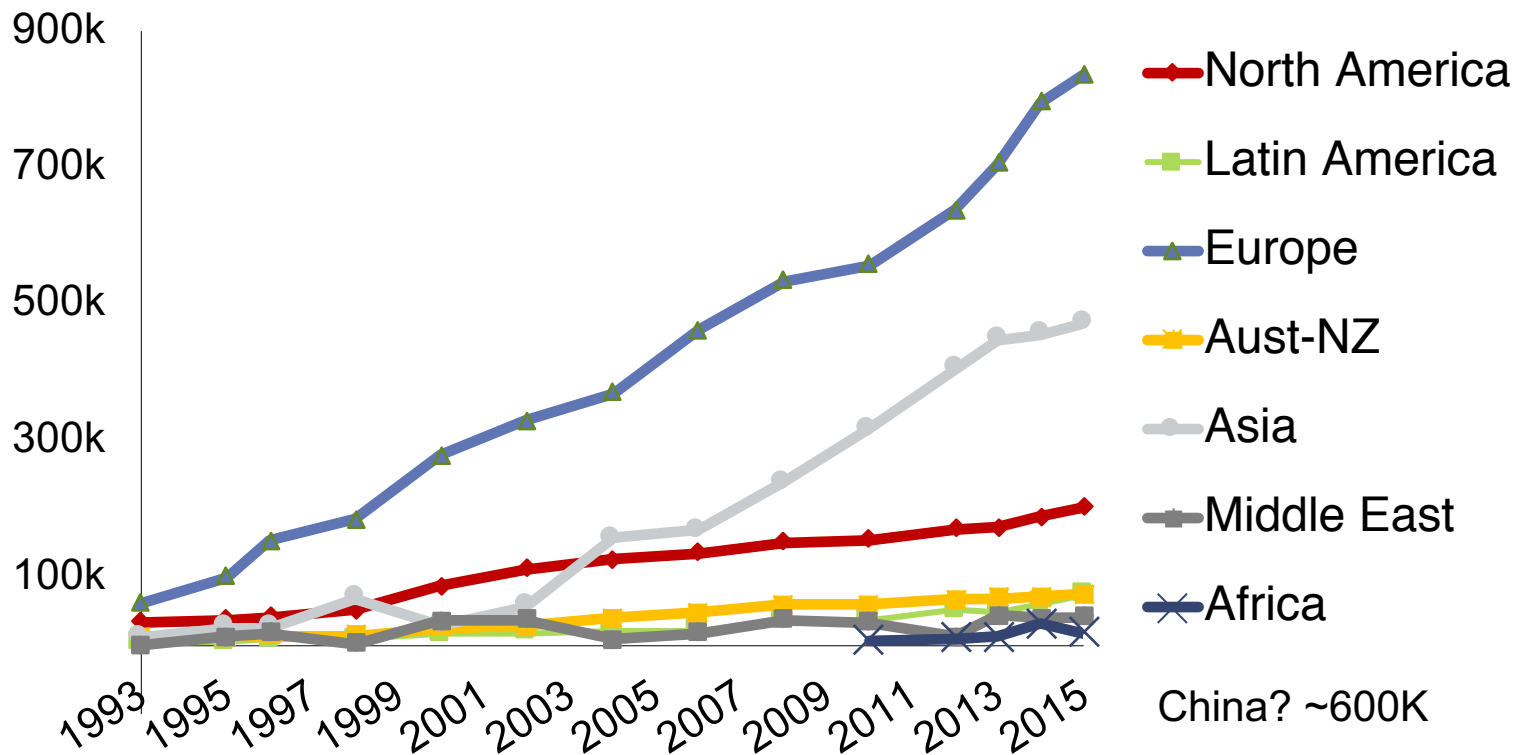
- ANARA (African Network and Registry for ART) involved in 2014 data collection from 14 countries
- Website and registry access: www.anara-africa.com
- Growth and capacity building
 - 14 countries
 - 7 workshops
 - 1st data released



ART visibility
Collaboration
African identity

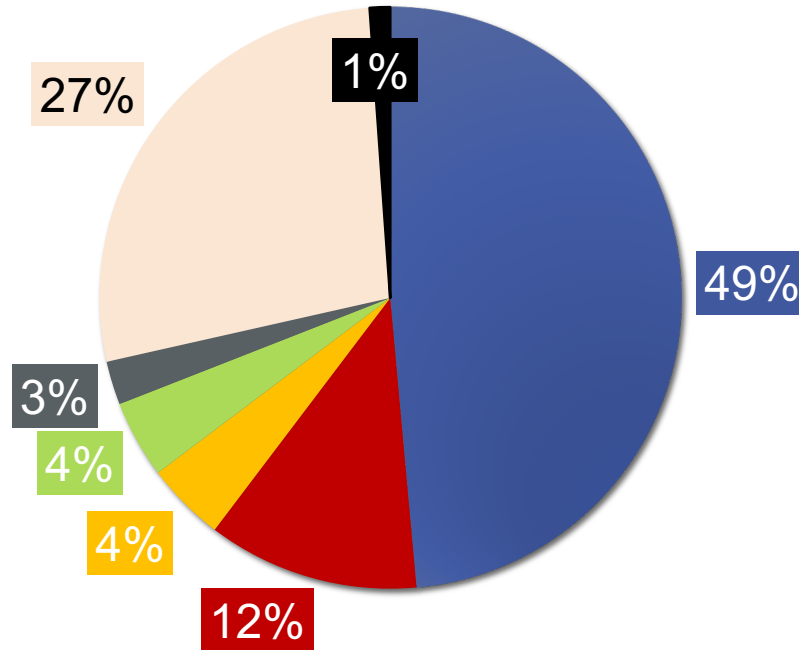


Growth of ART Cycles by Region



Regional Contribution 2015

N=1,722,412 Cycles



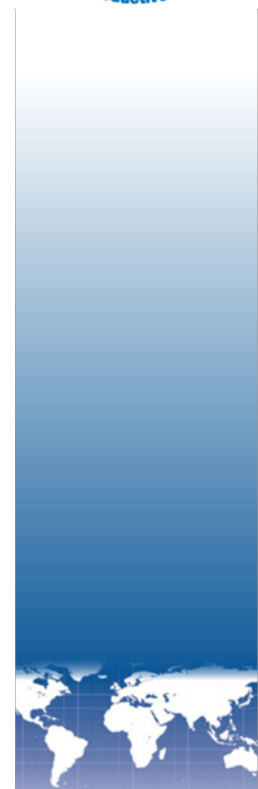
- Europe
- North America
- Australia
- Latin America
- Middle East
- Asia
- Africa



Global Results 2015



- 1,722,412 initiated cycles
 - 336,856 deliveries
 - Compared to 2014
 - + 74,635 cycles (+4.5%)
 - +25,663 deliveries (+8.2%)
- Recent trend: Freeze-all
 - 155,803 cycles (+20%)
 - 94,158 in Japan (+13%)
 - Not included in calculations of PR or DR/cycle or aspiration
 - Included in cumulative PR
 - Probably underreported



2015: 1,722,412 cycles

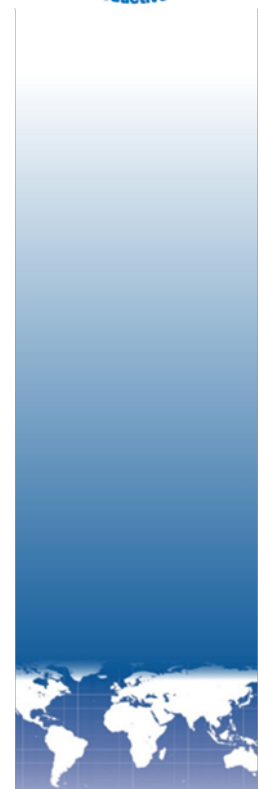
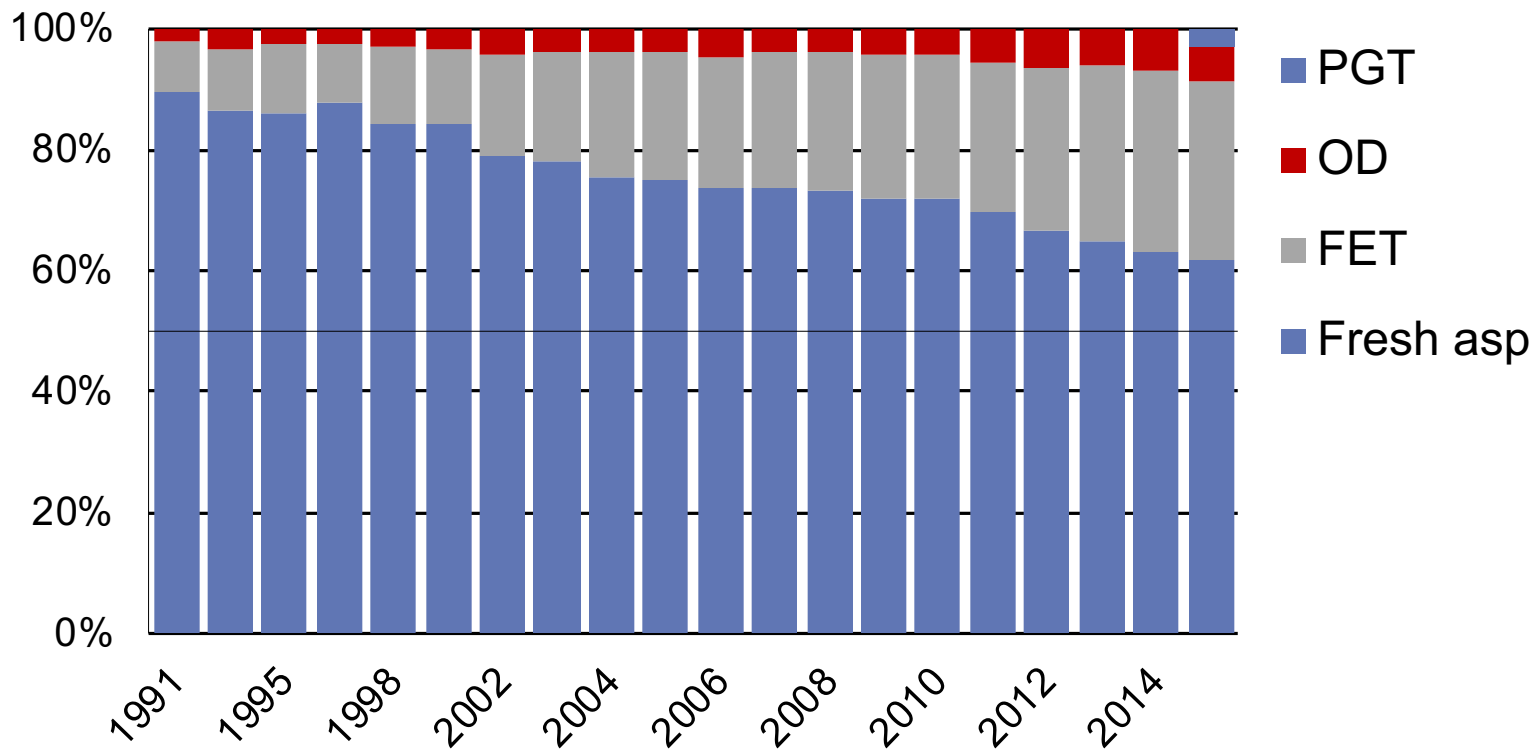
Cycles types		<i>n</i>	Delivery rates**
1,017,020 aspirations	+1.0%		
• IVF:		297,099	19.2% (-1.0%)
• ICSI*:		678,166	
• GIFT:		51	
FET	+6.8%	487,391	24.8% (+1.9%)
PGD/PGS (now PGT)	+57.7%	48,740	36.7% (+8.0%)
Egg donations (-10.2%)	-10.2%	108,064	29.8% (+4.4%)
Cancellations	+74.7%	67,354	
• reported by 52 (+15)			

* Not counted / countries combining IVF& ICSI: Israel

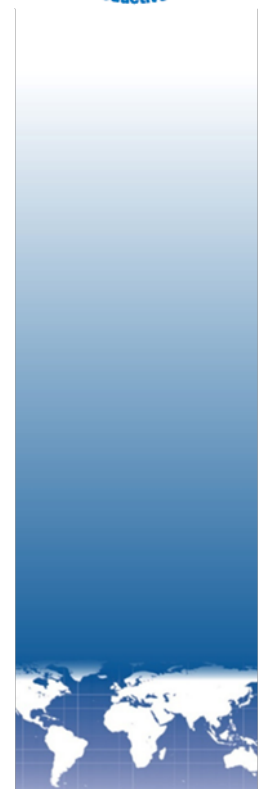
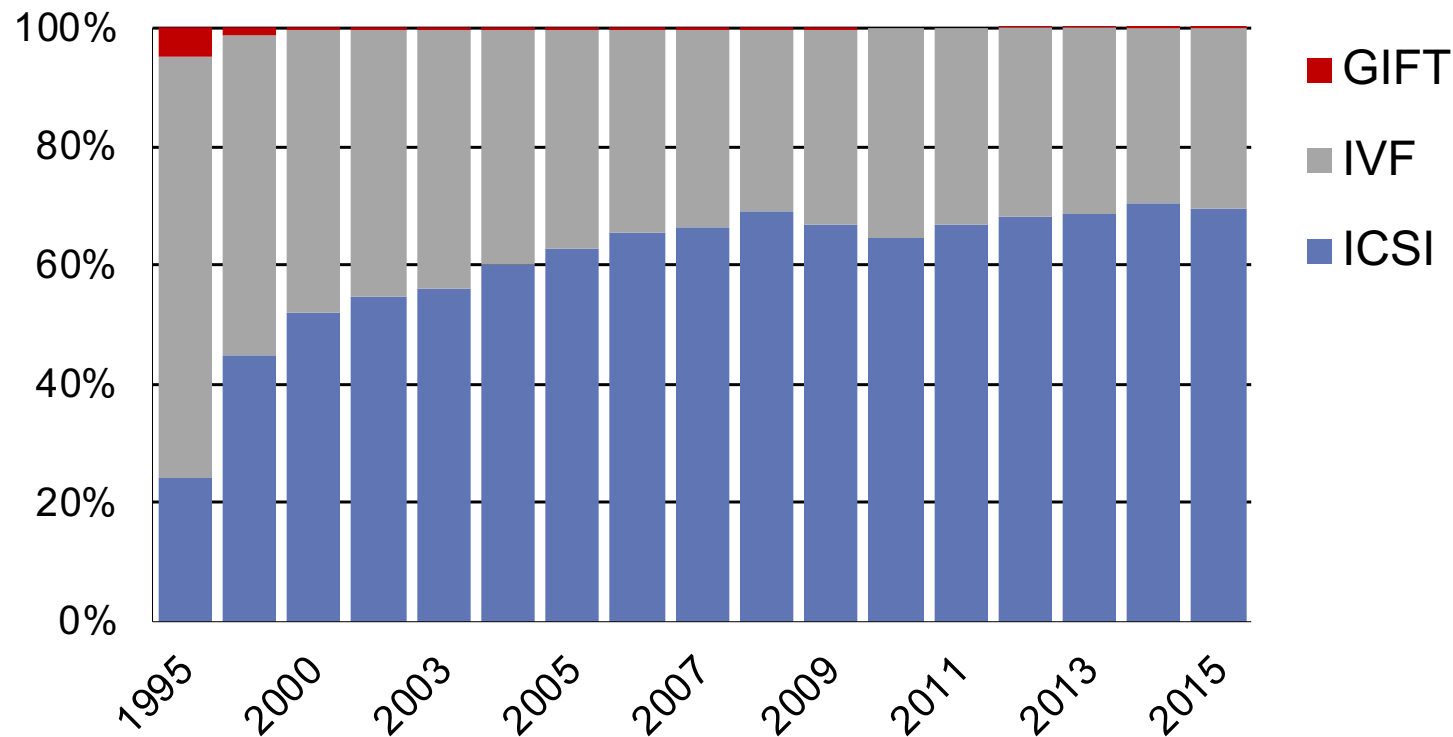
** DR after removing Freeze-all cycles



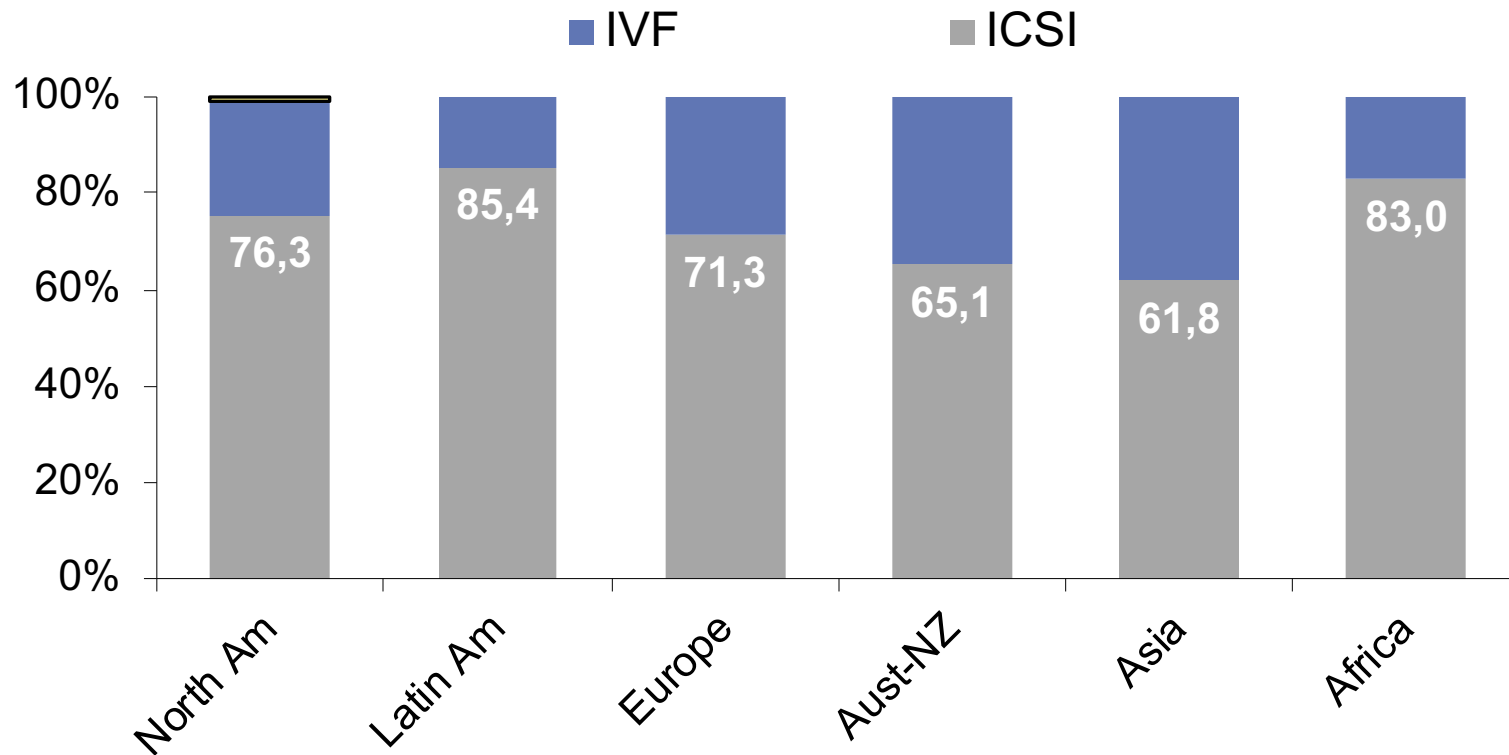
Trends in Distribution: Aspirations, FET, OD



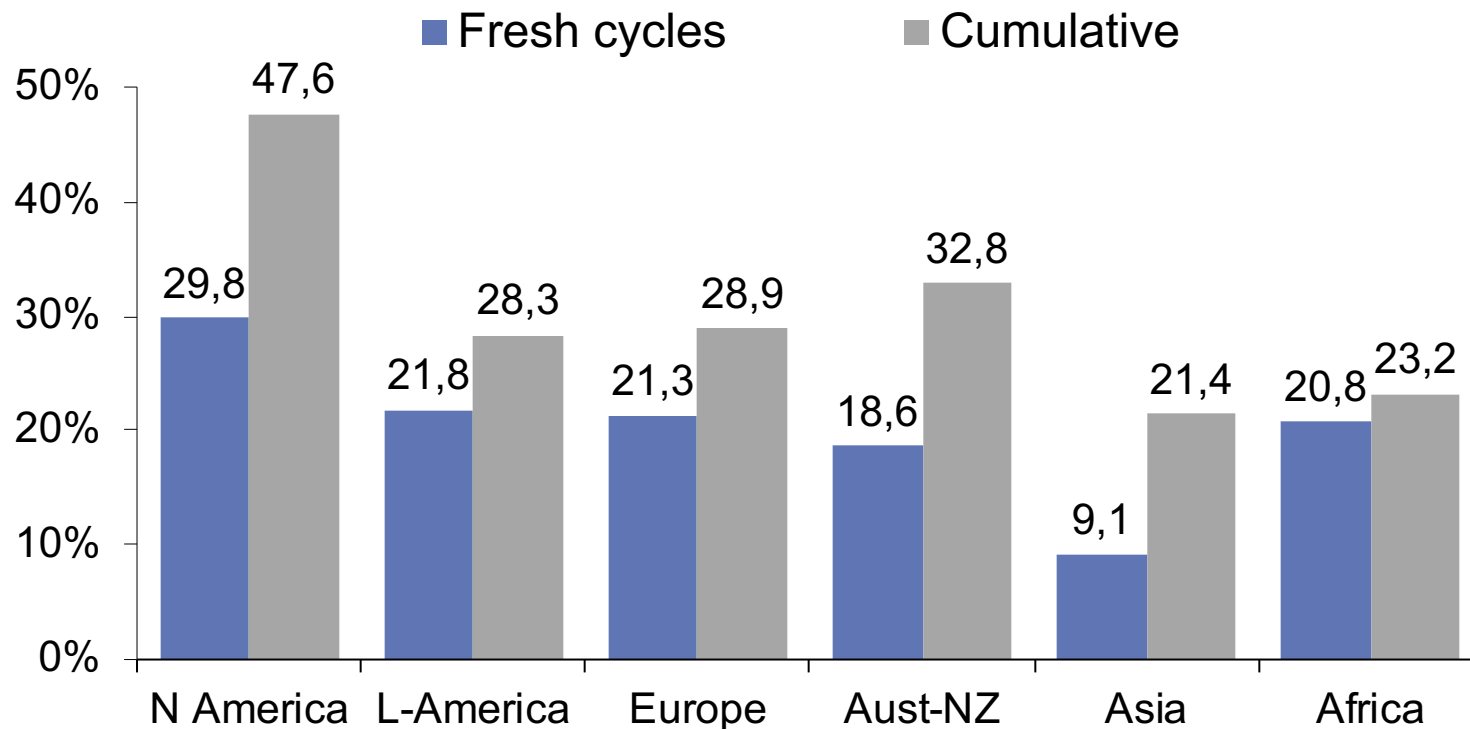
Trends in Distribution: IVF cf. ICSI



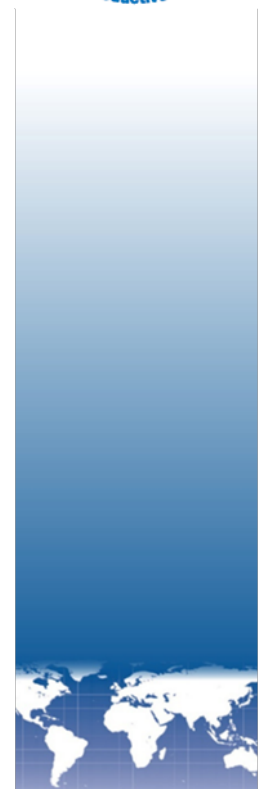
IVF cf. ICSI by region 2015



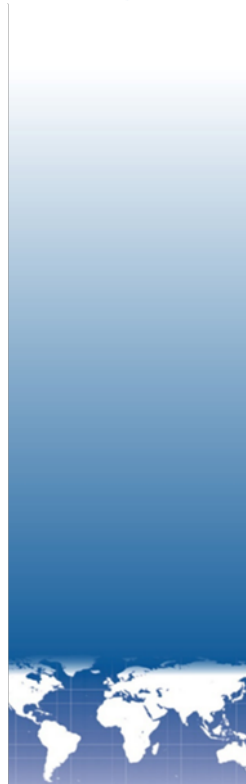
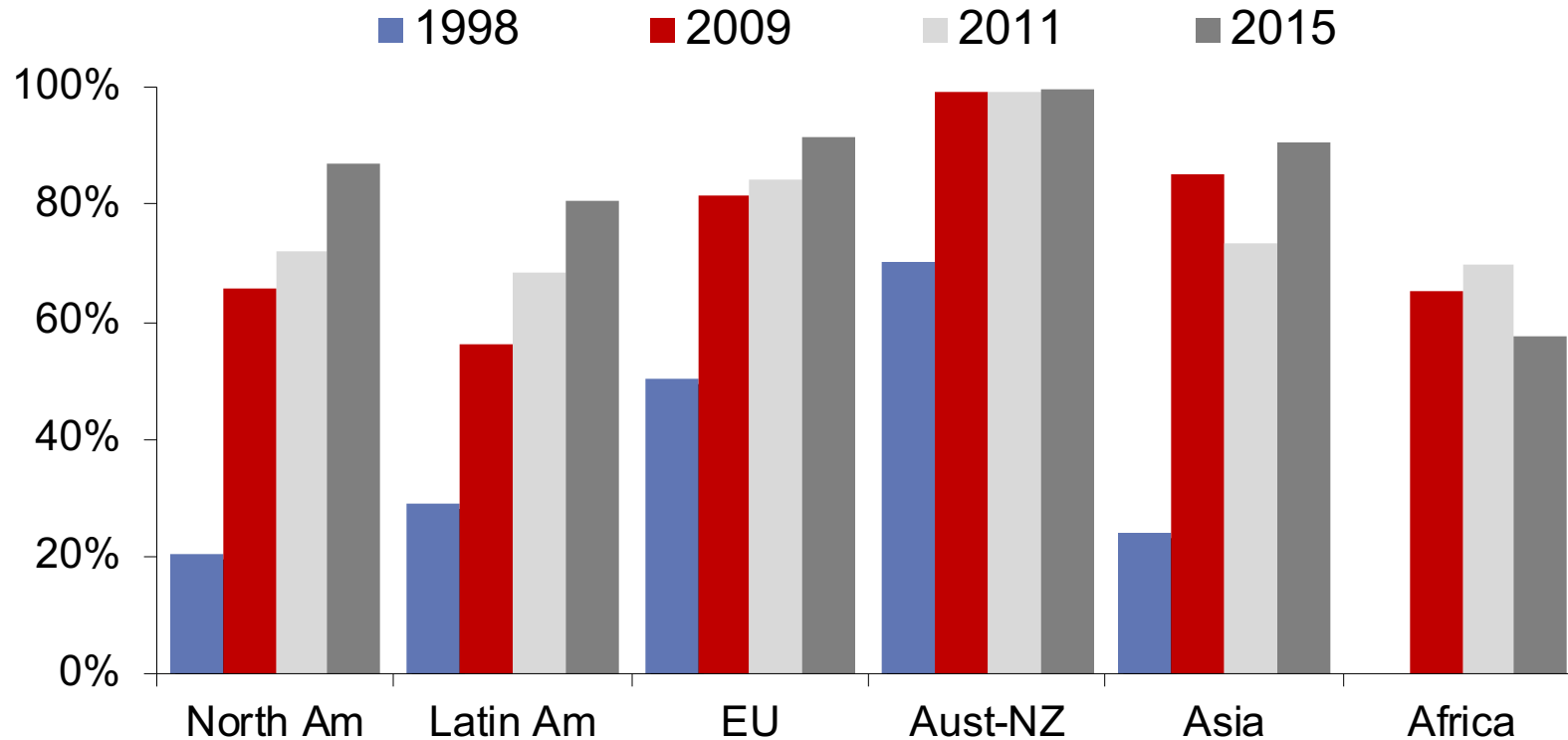
Fresh and Cumulative DR/Asp by Region 2015: IVF & ICSI



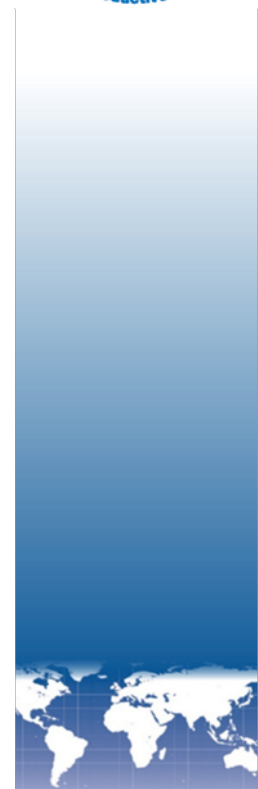
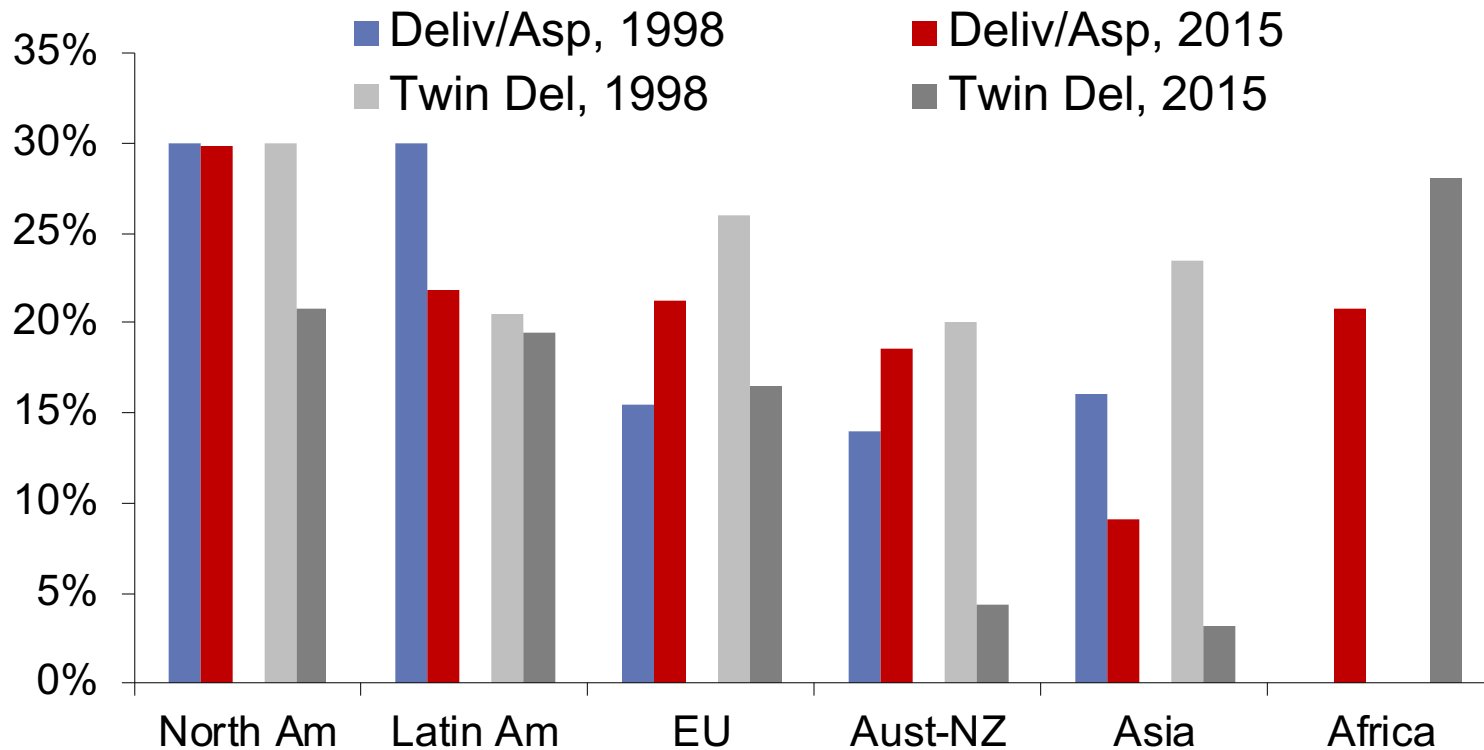
Fresh cycles: freeze all cycles excluded



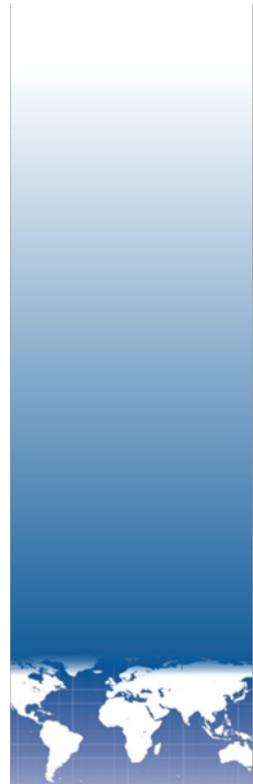
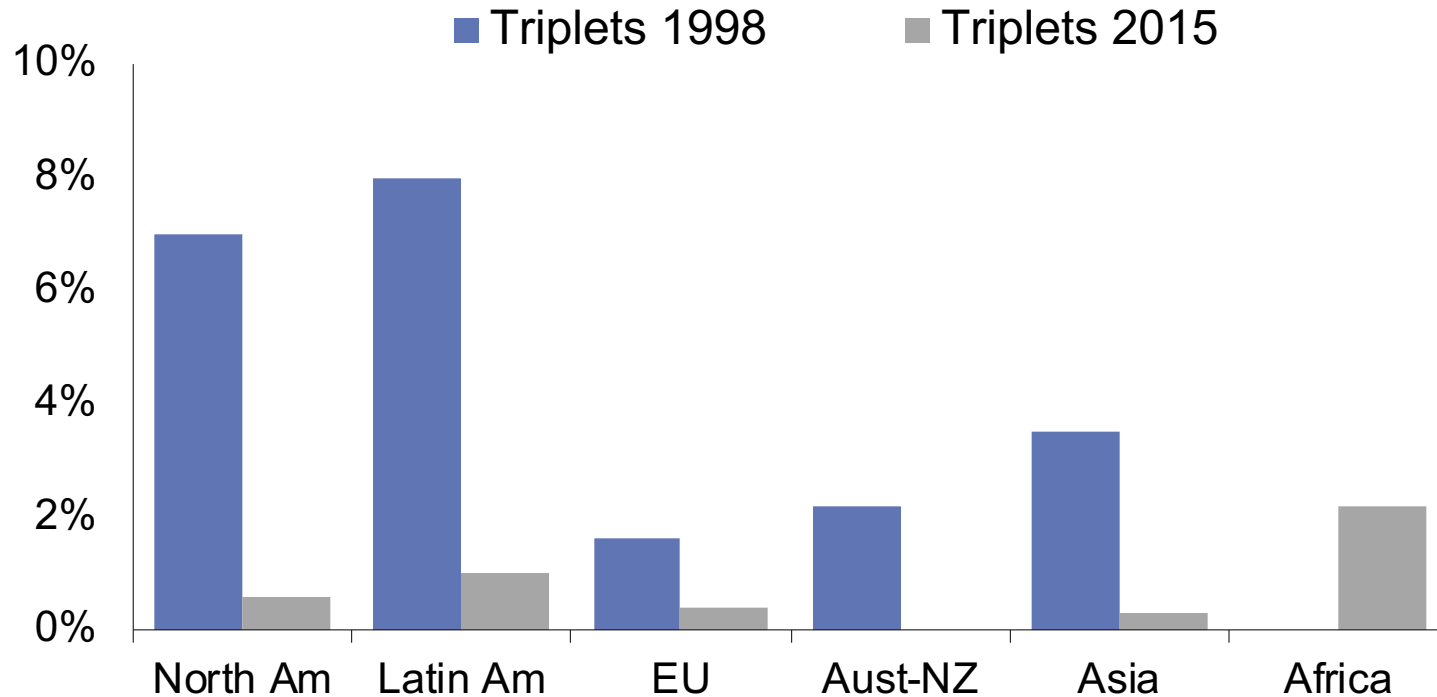
Transfers of ≤ 2 Embryos by Region: 1998 to 2015



Delivery and Twin Delivery Rate (Fresh/Asp) by region 1998 cf. 2015



Triplet Pregnancies (% of Deliveries) by region 1998 cf. 2015



Summary



	No. Cycles	Babies Born
Reported	1,722,412	462,856
Estimated globally	2.5-2.7 Million	661,000-735,000
Increase	4.6%	29.4% (Better reporting)
Average number of embryos transferred	1.69 (-0.04)	+/- 8.7 Million since 1978

	DR/Asp	ICSI rate	Age >40
Fresh	19.2%	69.5%	18.9%
Decrease from 2014	-1.0%	-1.1%	-8.2%
Cumulative	28.1%		
Decrease from 2014	-0.5%		



Conclusion

- Increase
 - ❖ Number of cycles
 - ❖ Number of babies
 - ❖ PGT
- Stable ICSI and women > 40y
- Decrease
 - ❖ Average number of embryos transferred
 - ❖ Multiple pregnancies
- Wide differences in utilization, practice and results
- Registry issues: Day of transfer, Freeze-all, PGT



Worldwide Trends In Gender Equality

2002



Thank You To Our Contributors



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

AUSTRALIA—NEW ZEALAND (2)

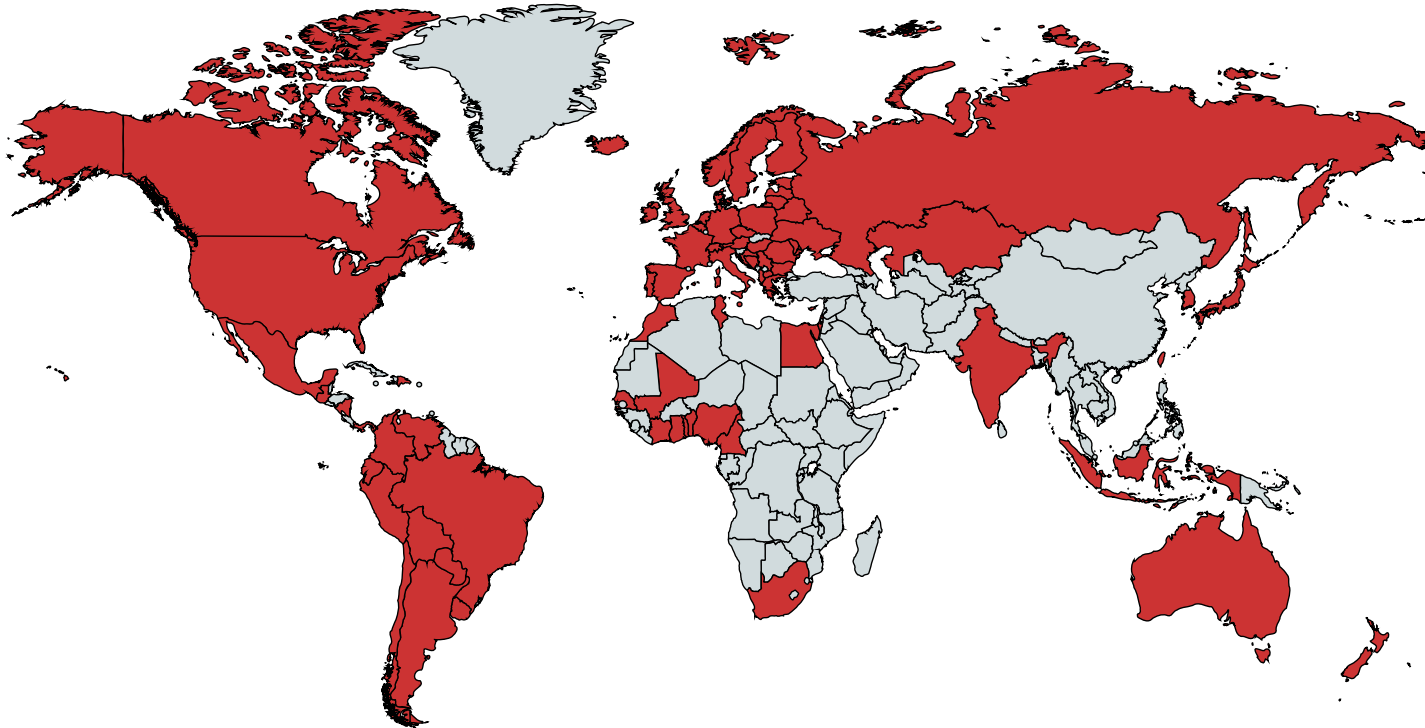
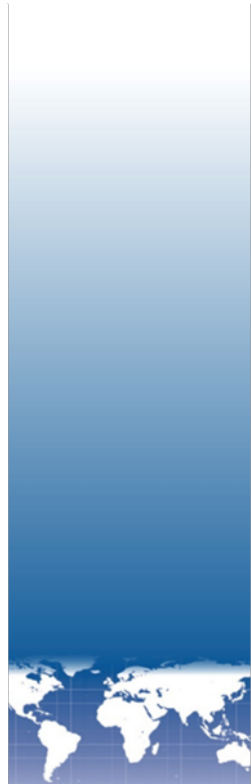
LATIN AMERICA (15) : Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Guatemala, Mexico, Nicaragua, Panama, Paraguay, Peru, Dominican Republic, Uruguay, Venezuela

NORTH AMERICA (2) : Canada, USA

NATIONAL REGISTERS (7): India, Indonesia, Israel, Japan, Korea, South Africa, Taiwan

INDIVIDUAL CLINICS (13) : Benin, Cameroon, Egypt, Ghana, Ivory Coast, Mali, Mauritius, Morocco, Nigeria, Senegal, Togo, Tunisia





Thank You to our Sponsoring Organizations



THANK YOU



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