

PRE-CONGRESS COURSE 1 – Table of contents

Cross-border reproductive care: information and reflection

Organised by the Special Interest Group Ethics & Law and the Paramedical Group

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ESHRE – European Society of Human Reproduction and Embryology

What is ESHRE?

ESHRE was founded in 1985 and its Mission Statement is to:

- promote interest in, and understanding of, reproductive science and medicine.
- facilitate research and dissemination of research findings in human reproduction and embryology to the general public, scientists, clinicians and patient associations.
- inform politicians and policy makers in Europe.
- promote improvements in clinical practice through educational activities
- develop and maintain data registries
- implement methods to improve safety and quality assurance



Executive Committee 2009/2011

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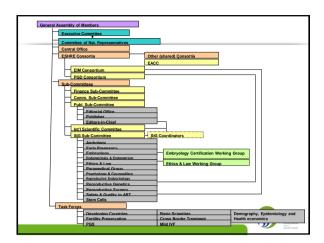
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Françoise Shenfield United Kingdom Etienne Van den Abbeel Belgium Heidi Van Ranst Belgium Veljko Vlaisavljevic Slovenia

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ESHRE Activities – Annual Meeting

- One of the most important events in reproductive science and medicine
- Steady increase in terms of attendance and of scientific recognition

Track record:

ESHRE 2008 – Barcelona: 7559 participants ESHRE 2009 – Amsterdam: 8132 participants

Future meetings:

ESHRE 2010 – Rome, 27-30 June 2010 ESHRE 2011 – Stockholm, 3-6 July 2011



Human Reproduction with impact factor 3.773 Human Reproduction Update with impact factor 7.590 Molecular Human Reproduction with impact factor 2.537

ESHRE Activities - Campus and Data Collection Educational Activities / Workshops · Meetings on dedicated topics are organised across Europe · Organised by the Special Interest Groups Visit: <u>www.eshre.eu</u> under CALENDAR · Data collection and monitoring · EIM data collection PGD data collection · Cross border reproductive care survey Shre **ESHRE Activities - Other** Embryology Certification · Guidelines & position papers · News magazine "Focus on Reproduction" • Web services: RSS feeds for news in reproductive medicine / science □ Find a member facebook. □ ESHRE Community shre ESHRE Membership (1/3) · ESHRE represents over 5,300 members (infertility specialists, embryologists, geneticists, stem cell scientists, developmental biologists, technicians and nurses) · Overall, the membership is distributed over 114 different countries, with 50% of members from Europe (EU). 11%

Shre

come from the US, India and Australia.

ESHRE Membership (2/3)

	1 yr	3 yrs
Ordinary Member	€ 60	€ 180
Paramedical Member*	€30	€ 90
Student Member**	€30	N.A.

*Paramedical membership applies to support personnel working in a routine environment such as nurses and lab technicians.

**Student membership applies to undergraduate, graduate and medical students, residents and post-doctoral research trainees.



ESHRE Membership - Benefits (3/3)

1) Reduced registration fees for all ESHRE activities:

Annual Meeting Ordinary € 480 (€ 720)

> Students/Paramedicals € 240 (€ 360)

All members Workshops €150 (€ 200)

- 2) Reduced subscription fees to all ESHRE journals e.g. for Human Reproduction €191 (€ 573!)
- 3) ESHRE monthly e-newsletter
- 4) News Magazine "Focus on Reproduction" (3 issues p. a.)
- 5) Active participation in the Society's policy-making



Special Interest Groups (SIGs)

The SIGs reflect the scientific interests of the Society's membership and bring together members of the Society in sub-fields of common interest

Andrology Psychology & Counselling Early Pregnancy Reproductive Genetics Embryology Reproductive Surgery

Endometriosis / Endometrium Stem Cells

Reproductive Endocrinology

Safety & Quality in ART



Task Forces

A task force is a unit established to work on a single defined task / activity

- · Fertility Preservation in Severe Diseases
- **Developing Countries and Infertility**
- Cross Border Reproductive Care
- · Reproduction and Society
- Basic Reproductive Science
- Fertility and Viral Diseases
- Management of Infertility Units
- PGS
- · EU Tissues and Cells Directive



Annual Meeting

Rome, Italy 27 June to 30 June 2010





- PCC 1: Cross-border reproductive care: information and reflection
- PCC 2: From gametes to embryo: genetics and developmental biology
- PCC 3: New developments in the diagnosis and management of early
- pregnancy complications
- PCC 4: Basic course on environment and human male reproduction
- PCC 5: The lost art of ovulation induction
- PCC 6: Endometriosis: How new technologies may help
- PCC 7: NOTES and single access surgery
- PCC 8: Stem cells in reproductive medicine
- PCC 9: Current developments and their impact on counselling
- PCC 10: Patient-centred fertility care
- PCC 11: Fertility preservation in cancer disease
- PCC 12: ESHRE journals course for authors



Annual Meeting - Scientific Programme (1/2)

Rome, Italy 27 June to 30 June 2010

- · Molecular timing in reproduction
- · Rise and decline of the male
- Pluripotency
- · Preventing maternal death
- Use and abuse of sperm in ART
- Live surgery
- · Emerging technologies in the ART laboratory
- Debate: Multiple natural cycle IVF versus single stimulated cycle and freezing



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Annual Meeting - Scientific Programme (2/2)

- Fertility preservation
- Congenital malformations
- ESHRE guidelines
- Data from the PGD Consortium
- European IVF Monitoring 2007
- Debate: Selection of male/female gametes
- Third party reproduction in the United States
- Debate: Alternative Medicine, patients feeling in control?
- Historical lecture: "Catholicism and human reproduction"



Certificate of attendance

- 1/ Please fill out the evaluation form during the campus
- 2/ After the campus you can retrieve your certificate of attendance at
- 3/ You need to enter the results of the evaluation form online
- 4/ Once the results are entered, you can print the certificate of attendance from the ESHRE website
- 5/ After the campus you will receive an email from ESHRE with the instructions
- 6/ You will have TWO WEEKS to print your certificate of attendance



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PRE-CONGRESS COURSE 1 - Programme

Cross-border reproductive care: information and reflection

Organised by the Special Interest Group Ethics & Law and the Paramedical Group

Course coordinators: Guido de Wert (The Netherlands) and Heidi Van Ranst (Belgium)

Course description: This joint pre-congress course of the Paramedical Group and the Special Interest Group Ethics & Law focuses on cross-border reproductive care. Clearly, this phenomenon creates a lot of commotion, but there is an urgent need for more information about and reflection on this practice and its implications. Relevant questions to be addressed include: Why do people engage in cross-border travelling in order to receive reproductive care? What are the pros and cons from a moral point of view? What about possible conflicts linked to the responsibilities of professionals? What are the perceptions and experiences of patients directly involved? What measures could be taken to limit the number of patients that have to travel abroad and/or to guarantee that all patients get adequate treatment wherever they go?

<u>Target audience:</u> Nurses, counsellors, lab technicians and affiliated paramedics, doctors involved in medically assisted reproduction, ethicists, lawyers, policy-makers.

Scientific programme:

Background: evidence and ethics

09:00 - 09:15	Introduction - Guido de Wert (The Netherlands) and Heidi Van Ranst (Belgium)
09:15 - 09:45	Cross-border reproductive care: some data - Françoise Shenfield (United Kingdom)
09:45 - 10:15	Normative aspects - Richard Storrow (USA)
10:15 - 10:30	Discussion
10:30 - 11:00	Coffee break

Effects of changes in legislation on clinical practice – case studies

11:00 – 11:30	How changes in Italian legislation have influenced medical practice - Filippo Ubaldi
	(Italy)
11:30 - 12:00	Implications of Italian legislation for laboratory practice - Cristina Magli (Italy)
12:00 - 12:30	Discussion
12:30 - 13:30	Lunch

Case studies (continued)

13:30 - 14:00	Cross-border reproductive care and embryo donation: case study from the UK –
	Heidi Birch (United Kingdom)
14:00 – 14:30	Cross-border reproductive care and sperm donation: case study from Belgium –
	Patricia Baetens (Belgium)
14:30 - 15:00	Discussion
15:00 – 15:30	Coffee break
15:30 – 16:00	Cross-border reproductive care and oocyte donation: case study from Spain –
	Vanessa Mendez (Spain)

16:00 - 16:30	Cross-border reproductive care: patient's perception - Marcia Inhorn (USA)
16.30 - 17.00	Discussion
17:00 - 17:10	Conclusions and closure of the course



Cross border reproductive care: some European data

Françoise Shenfield, Coordinator: taskforce cross border reproductive care , member of Ethics and Law taskforce, Clinical lecturer UCLH, London

Rome, ESHRE annual meeting 2010

Aims and objectives

- Provide evidence based on data in the field of cross border reproductive care
- Facilitate understanding of our patients motivations to cross border, with their national variations
- Enable analysis of legal and ethical questions with the evidence provided

No conflict of interest

- commercial relationships : none
- activities that might be perceived as a potential conflict of interest: none



Collaborative study: Ethics and Law TF + EIM

News headlines, web adverts, patients going abroad, many practical and ethical issues

Semantics as a symbol: from "fertility tourism" to "cross border reproductive care" via "exile"

- Refs: Pennings 2002 to 2005, Matorras 2005, ESHRE Taskforce Law and Ethics 15, Cross border reproductive care, Hum Reprod 2008; 23:2182-2184, Sep 2009 Inhorn and Patrizzio, Fert and Ster 2009, 92: 904-906
- Cross border reproductive care in six European countries
 F. Shenfield; J. de Mouzon; G. Pennings; A.P. Ferraretti; A. Nyboe
 Andersen; G. de Wert; V. Goossens; the ESHRE Taskforce on Cross
 Border Reproductive Care
- , Human Reproduction 2010; doi: 10.1093/humrep/deq057



Countries and Clinics EIM report 2005 Study on Cross-Border							
Country	Total clinics	Clinics reporting to EIM	Cycles reported to EIM	Clinics in the study (% on EIM)	Questionnaires received		
Denmark	21	21	11.931	21 (100%)	153		
Slovenia	3	3	2907	3 (100%)	65		
Belgium	18	18	22.012	8 (45%)	375		
Czech Rep	22	10	5168	6 (60%)	253		
Switzerland	22	22	6126	2 (10%)	201		
Spain	184	131	41.689	4 (3%)	183		
Total/year	270	205	89.833				
Estimation for month			~7500		1.230 (16.5%)		

Centre selection mode according to							
	country of origin						
Country of origin	Internet	Patients organization	Friends	Doctor			
Italy	25.3	1.5	25.8	65.2			
Germany	65.0	4.0	11.9	35.6			
Netherlands	42.3	6.0	20.8	39.6			
France	44.9	10.3	29.0	27.1			
Norway	49.3	6.0	22.4	31.3			
UK	58.5	18.9	15.1	28.3			
Sweden	73.6	9.4	24.5	13.2			
TOTAL	41.1	5.0	24.2	M ^{shre}			

Protocol Study design: open, European, multi centre, transversal t study Inclusion criteria Six countries Known as receiving many patients With voluntary investigators 44 participating centres All voluntary patients in one calendar month Two simple forms One per patient (one page) One per centre on the month centre activity (one table)

Strengths and shortcomings, aims of study

- · Data are not full, but for DK and SI
- · Data are underestimate, to what extent?
- But: first data collected, useful as a political tool, at national level, and at European level
- · Use for information of all stakeholders
- Influence policy making (? Access, cryo-preservation?..)
- · Increase safety , promote single ET in appropriate cases



Questionnaire: patients' data

- Foreign patients data collected over 1 calendar month in collaborating clinics in Belgium, the Czech Republic, Denmark, Switzerland, Slovenia, and Spain
- Q: Main socio- demographic characteristics (age, country of residence, marital status, sexual orientation, education)
- Reasons for travelling (more than one allowed): law evasion, access limitations at home; quality of care, previous failure, gametes donation... related to country of origin and women's age category (s34, 35-39 and ≥ 40)
- Information received, selection means, reimbursement in country of residence also sought





Table 1: Percentage of patients crossing borders to the six treating countries first 4 countries (where questionnaires number is >100, and next 3 (Q1>50))

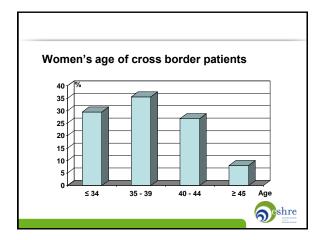
	Country of treatment							
Country of	Be	CZ	DK	SLO	SPA	SWZ	TOTAL	
Residence	%	%	%	%	%	%	N	%
Italy	13.0	2.6	0.3	1.0	31.7	51.4	391	31.8
Germany	10.2	67.2	11.9	0.0	10.7	0.0	177	14.4
Netherlands	96.6	0.0	0.0	0.0	3.4	0.0	149	12.1
France	85.0	7.5	0.0	0.0	7.5	0.0	107	8.7
Norway	0.0	1.5	98.5	0.0	0.0	0.0	67	5.5
UK	7.6	52.8	11.3	0.0	28.3	0.0	53	4.3
Sweden	0.0	5.7	92.4	0.0	1.9	0.0	53	4.3
Total n	365	252	154	65	193	201	1230	
%	29.7	20.5	12.5	5.3	15.7	16.3	100.0	
							1	



X border patients to 6 treating countries

- 1230 forms received over 1 month: 29.7% from Belgium (1), 20.5% from the Czech republic (2), 16.3% from Switzerland (3), 15.7% from Spain (4), 12.5% from Denmark (5), and 5.3% from Slovenia (6)
- Most Italians went to Switzerland and Spain, most Germans to Czech Rep, most Dutch and French patients to Belgium and Spain. Norwegians and Swedish go to Denmark: Vicinity
- Estimate :If extrapolated to one year, X11, and 50% centres collaborating = 20 to 25 000 "cross border events"
- $^{\circ}$ 2/3rds came from 4 countries: Italy (32%), followed by Germany (14%), the Netherlands (12%) and France (9%) .
- Plus Norway, UK and Sweden (15%) = 80% total X events

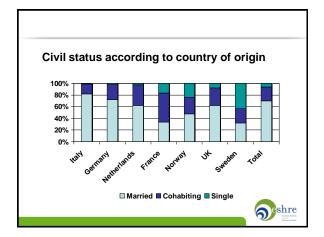


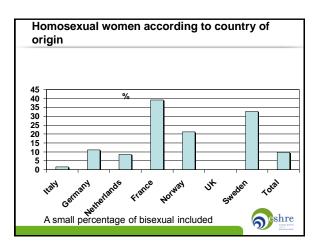


Women's age in our study

- Mean age: 37.3
- Age range: 21 to 51 years
- Proportion of women= > 40: 34.9% for all patients.
- Individual countries: 51.1% for Germany and 63.5% for the UK, compared to 32.2% for Italy and 30.2% for France
- Older than EIM report: >40 = 33.2% of Italian vs. 20.7% in EIM; for Germany (51.1% vs. 11.1%,), and France (30.2% vs. 12.7%) (EIM 2005 data, 2009, Hum Reprod 24, 1267-1207)







General reasons for travelling according to the patients' country of residence

Patients' residence	Illegal	Access difficulty	Better quality	Past failure
Italy	70.6	2.6	46.3	26.1
Germany	80.2	6.8	63.8	43.5
Netherlands	32.2	7.4	53.0	25.5
France	64.5	12.2	20.6	18.7
Norway	71.6	0.0	22.4	16.4
UK	9.4	34.0	28.3	37.7
Sweden	56.6	13.2	24.5	5.7
Total r	674	86	531	358
9	54.8	7.0	23.2	29.1



X border reasons X: legal (1) and "political" (2)

- 1.Legal reasons were predominant for Italian patients (70.6%), and the German (80.2%), French (64.5%), and Norwegian (71.6%).
- . 2. Access was more often noted in UK patients (34.0%)
- 3. Quality of care was an important factor in most of countries
- Donation: 18.3% of patients were looking for semen donation, 22.8% for egg donation and 3.4% for embryo donation
- Majority of IUI for French (53.3%) and Swedish (62.3%) patients



Legal aspects: specific examples

Italians go for DI to Switzerland, OD to Spain,...

and seek "QUALITY" treatment": Does this relate to the initial legal ban of cryo preservation?: Spring 2009, Supreme "Corte" removed the limit of max of 3 embryos to be generated, did not cancel ban of embryo cryo preservation, but possible now to cryo- preserve when "clinically necessary" (clinical decision, on what is best for patient, according to best outcome and risk)

Germans go to the Czech Rep for OD

French lesbians go to Belgium for DI

Swedish women go to Denmark: ? For non anonymous donation; single women denied access



Politico/legal aspects

- Access: UK, main reason to X border, a question of justice and access to ART (barriers of age, BMI, W/L, lack of donors)
- Latest EIM figures show that Nordic countries are most generous, a political decision of funding
- Is this a concern for outgoing countries, or is it a "safety valve" (G Pennings), which allows law makers to remain *unchallenged...and* complacent?
- Political larger sense, where law is restrictive to married couples, age barrier or difficult access (The Netherlands, UK), or PGD is banned because it is deemed "eugenic" (Germany), autonomous agents "vote with their feet"



Aim: "Ensure safety for all concerned "...

- 1. Safety issues, easy (ier?) aspects
- Centres and labs : easy, although sometimes bureaucratic: Certification, accreditation (national and supra national)
- · European Tissue directive, being implemented
- · ESHRE lab and clinics certification
- 2. Less easy: safety for gametes donors ..: recruitment, donation against compensation or financial pressure/ exploitation



The European dimension

- Proposal for a Directive of the European Parliament and of the Council on the application of patients' rights in cross-border healthcare, Presented by the European Commission on 2 July 2008, Copyright: European Communities, 2008; Directorate-General for Health and Consumers
- European Commission B-1049 Brussels
- http://ec.europa.eu/dgs/health_consumer/index_en.htm
- How will it affect our patients, especially if there is no national (or private) insurance cover?...



Mc Kelvey, David, Jauniaux and Shenfield, BROG: complications





ESHRE's aims: COP (Paris, May 2010)/certification??

- . Promote **awareness and information** at all levels (government, patients and professional), warn patients/citizens re: possible dangers
- Promote equitable access for all citizens, extend the portability of health insurance to reproductive health.
- Promote means (guidelines, certification?) ... to guarantee safe and effective treatment when X borders (technical, medical, ethical, psychological counselling)
- Role of patients' organisations: ? Web info ...



Further a field than Europe

- International dimension
- "Forum" Cross border cooperation, started last January Ottawa, cross Atlantic and beyond

Establish a Code of Practice, which would include practical (clinical), psychological and ethical aspects

Keeping in mind legal/statutory complexities; (ambivalent) effect on low income countries



Taskforce Ethics and law recommendations "Ensure all referring and recipient agents, are aware of their responsibilities and relevant (ethical) guidance" The International Medical Travel Journal IMIT -The International global magazine directed at health, medical, insurance and travel industry global magazine directed at health, medical, insurance and travel industry offers low-cost, high-value medical care and is a truly international marketplace of the cost, high-value medical care and is a truly international marketplace. Shre The rest of the world: more evidence needed Shre

Cross-border reproductive care (CBRC): normative aspects

Richard F Storrow, JD Professor of Law City University of New York

Disclosure: The author possesses no conflicts of interest or affiliations relevant to the subject of this presentation.

Learning objectives

- To fashion a normative lens through which to evaluate CBRC
- To appreciate the law and ethics nexus that contributes to CBRC
- To understand and evaluate interests of stakeholders in CBRC or its prevention
- To discuss CBRC's possible impact on the home country and the host country
- To formulate and evaluate potential normative responses to CBRC

Normative lenses

- · Bioethics
 - Autonomy
 - Beneficence and non maleficence
 - Justice
 - Dignity and human rights
 - Welfare of the child
- · Ethics and law
 - Diverse regulatory models (Nielsen 1996)
 - laissez-faire
 - · liberal regulatory
 - cautious regulatory
 - prohibitive

ESHRE Task Force 15: CBRC Hum Reprod 2008:23;2182-2184

- CBRC signals "structural deficit"
- · Normative recommendations
 - Patients' groups obligations
 - Physicians' obligations

Stakeholders

- Patients
 - Prospective parents
 - Donors
- Future children
- Physicians
- Government
- Special-interest groups

Prospective Parents: Motivations

- Quality sensitive patients--affluent patients seeking sophisticated services
- Price-sensitive patients--middle class patients seeking less expensive medical procedures
- · Desire for privacy
- · Law evasion
- Reduce waiting time
- Seek experimental or controversial care

Prospective Parents: Bioethics Autonomy - procreative autonomy, "right to found family," etc. · not absolute • eg: abortion - exile may undermine autonomy · Distributive justice - Pro: allows those "priced out" of IVF in home country to afford it abroad - Con: allows only those with sufficient funds to pursue IVF Future children • Welfare of child as a counterbalance to parental autonomy · Commodification of offspring may pose danger to well being · Possible harm to child not raised by biological progenitors • Justice = equality + rights - Equality interest in clarity of legal parentage - Right to know origins and/or identity of biological progenitors · CBRC has potential to undermine welfare, justice **Physicians** · Beneficence and non maleficence - Medical ethics framework balances duty to patients with physicians' autonomy · eg: duty to provide informed consent • eg: physicians' conscience versus non-discrimination principle · Law may conflict with medical ethics • CBRC may enhance physicians' compliance with duties to refer and promote patient safety

Government as Parens Patriae · Power to legislate within limits - Health and safety • Medical licensure · Informed consent - Welfare and morals · Human dignity · Minimum requirement of rationality • CBRC as "safety valve" (Pennings 2002) Potential impact on home country • Increased health care costs (McKelvey et al. 2009) • Black markets, eg: Sweden, Canada • Exiled citizenry (Inhorn et al. 2009) • Importation of the reproductive harm sought to be avoided at home • Insufficiently rational legislation, legislation that prohibits symbolic harm · More study needed Potential impact on host country · Higher prices for local people - Egg sharing schemes may proliferate response (Merlet 2010) • Fewer resources to attend to health care for the local population, e.g.: transplant tourism in Turkey (Merlet 2010) • Migration of health care personnel into the

private sector (Dayrit 2007)

gestational surrogates

host country

· Exportation of harm from home country to

· Harm to vulnerable egg providers or

Potential Normative Responses Moral pluralism - Pennings, J Med Ethics; Human Reproduction Reproductive exile - Inhorn and Patrizio, Fertility & Sterility · Regulatory trust - Carbone and Gottheim, J Gender Race & Justice Harmonization - Ziebe and Devroey, Human Reproduction Update **Potential Normative Responses** · Criminal penalties, eg: Turkey • Harmonisation or uniformisation · Regulatory "creativity" · Subsidiarity and proportionality • Heightened rationality principle ESHRE Task Force 4: "objections based on ill articulated feelings of distaste and repulsion" · Harm to women (Boetzkes 2000) **Conclusions** · CBRC does not sufficiently promote moral pluralism • CBRC enables government to enact stricter • Slippage between claimed harms and the law

signals a failure of legislative rationality
Restrictive reproductive laws should exhibit heightened rationality before we permit them

to contribute to CBRC

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www.generaroma.it

How changes in italian legislation have influenced medical practices?

Filippo Maria Ubaldi M.D. M.Sc.



www.generaroma.i

Law 40/2004 "Norms on the matter of medically assisted procreation"

Art.14 Limitations to the applicability of techniques on embryos

- Embryo cryopreservation and suppression are forbidden; however the provisions of the law 198/1978 stand valid
- Techniques of embryo production must not create a number of embryos exceeding that strictly necessary to a unique and contemporary transfer, at any rate, never to exceed three.
- 4. Embryo reduction is forbidden
- 8. It is permitted to cryoconserve male and female gametes
 - Violation of one of the prohibitions or obbligations spelled out in the preceding paragraphs is punished with a jail term of up to 3 years, a fine of between 50 and 150.000 euros and suspension from exercising the profession



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What is an embryo?

There is a general consensus that the pronuclear stage can not be considerred as an embryo.

The application of the Italian law is unuclear singamy stage onwards could still preserve enough the tree <u>high standard and efficacy</u> of infertility treatments.



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Materials and Methods I

Seven Italian infertility centres were invited to col- lect data on IVF cycles performed over the first 4 months of application of the new legislation

As a control all centres provided data on cycles per-formed in the same solar period 1 year before

All partecipating centres had been engaged for >5 y. in the field of IVF and none of them had modified their organization over

Data were provided anonymously by the partecipating centres



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Materials and Methods II

The following items were requested:

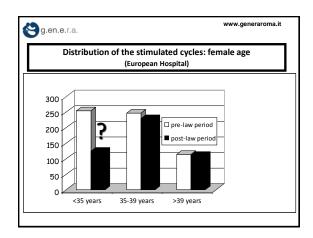
- Age - Body Mass Index

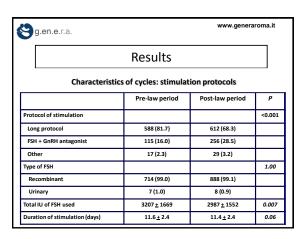
- Sperm concentration
 # oocytes retrieved
- Duration of infertility
- # oocytes used - # embryos obtained
- Previous pregnancies
 Previous IVF cycles
- # emb. transferred - Clin. pregnancy rate
- Indication Total IU of FSH
- Implantation rate
 Cumulative preg.rate
- Duration of stimulation - Severe OHSS rate Type of ART (IVF ICSI TESE)

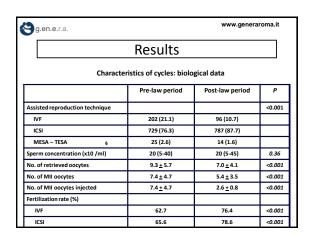
χ₂—test, χ₂—test for trend, Fisher's exact test, non-parametric Wilcoxon test were used as appropriate

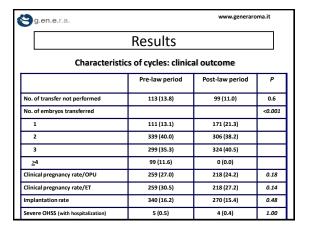
g.en.e.r. www.generaroma.it Results Characteristics of cycles according to the study period: clinical data

	Pre-law period	Post-law period	Ρ
N° cycles	961	900	
Female age (+SD)	34.9 <u>+</u> 4.4	35.3 <u>+</u> 4.6	0.06
Body Mass Index	22,2 <u>+</u> 3.1	22.4 <u>+</u> 4.4	NS
Duration of infertility	4.6 <u>+</u> 2.6	4.7 <u>+</u> 3.8	NS
Previous IVF-ICSI cycles			NS
0	323 (47.5)	273 (40.8)	
1	175 (25.7)	196 (29.3)	
2	105 (15.4)	116 (17.2)	
<u>></u> 3	77 (11.3)	84 (12.6)	
Indication for IVF - ICSI			NS
Tubal – endometriosis	204 (21.2)	200 (22.4)	
Male or mixed factor	633 (65.9)	569 (63.8)	
Unknown factor	119 (12.4)	123 (13.8)	

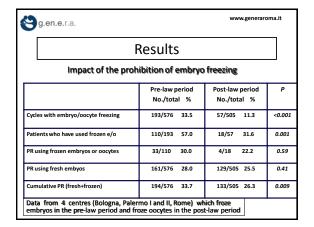


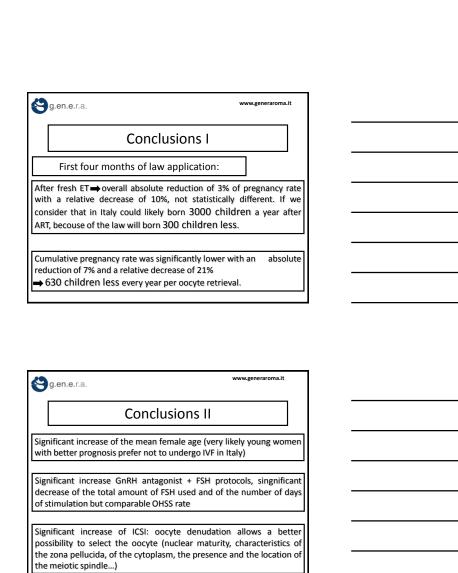


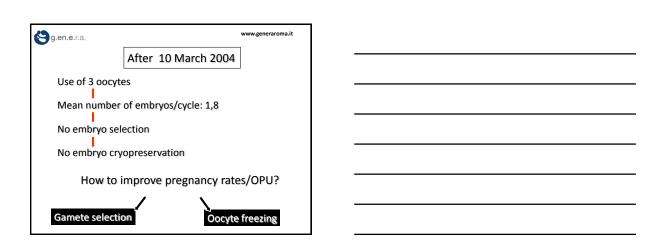




g.en.e.r.a. www.generaroma.it				
Results				
Incidence of extrauterine and multiple pregnancy				
	Pre-law period	Post-law period	P	
Extrauterine pregnancies	5 (1.9)	3 (1.4)	0.73	
Intrauterine pregnancies			0.11	
Singletons	188 (72.6)????	171 (79.2)		
Twins	54 (20.8)	39 (18.1)		
Triplets	13 (5.0)	6 (2.8)		

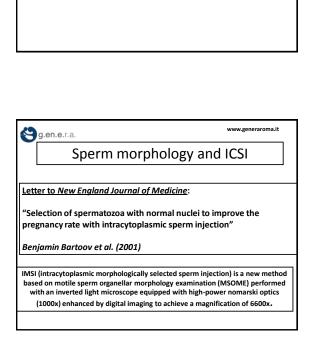


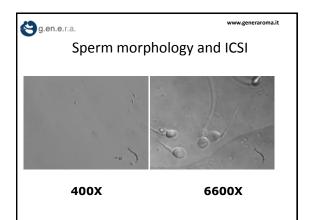






Sperm selection







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IMSI: sperm assessment

Motile Sperm Organellar Morphology Examination CRITERIA for SPERMATOZOA SUITABLE for IMSI

The MSOME criteria for the morphological normalcy of the sperm nucleus were defined as below:

- SMOOTH
- SYMMETRIC
- OVAL CONFIGURATION
- HOMOGENEITY OF THE NUCLEAR CHROMATIN MASS (no more than one vacuole / less than 4% of the nuclear area)

The average lenght and width limits in 100 spermatozoa with a normally looking nucleus, are estimated as follow:

- LENGHT: 4.75 ± 0.28 μm
- WIDTH: 3.28 \pm 0.20 μm

Bartoov et al., 2003



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IMSI: results

Some studies have recently analysed the impact of IVF-IMSI procedure on ICSI outcome in terms of: fertilization rate, embryo development, pregnancy rate, implantation rate and abortion rate.

Does it work?

No large prospective randomized trials available



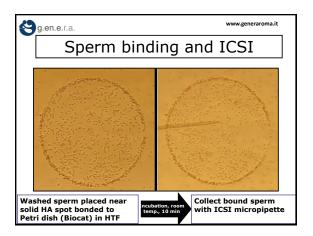
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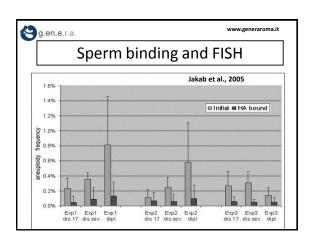
Sperm binding assay

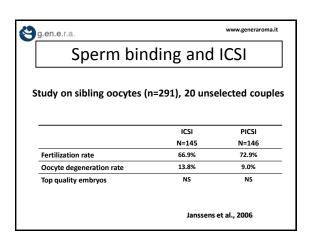
HYPOTHESIS

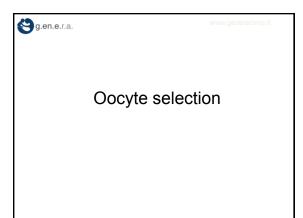
- Mature spermatozoa may selectively bind to HA.
- Diminished sperm maturity (failure of spermatogenetic membrane remodeling) may be related to increased levels of chromosomal aberrations.
- Solid-state HA binding would facilitate the selection of individual mature sperm with low levels of chromosomal aneuploidies.

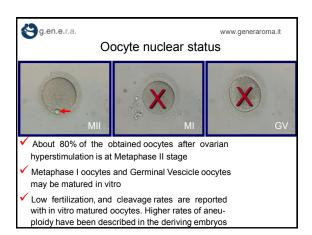
Jakab et al., 2005

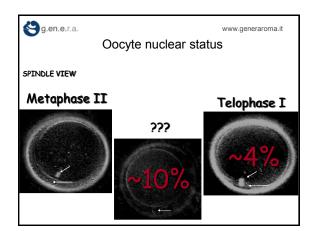


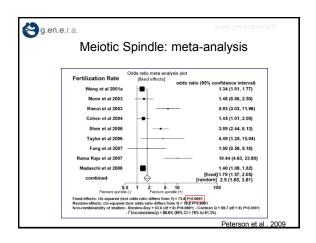


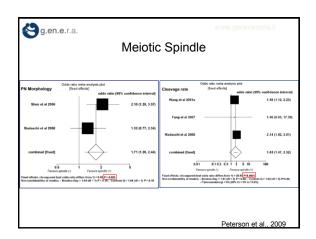


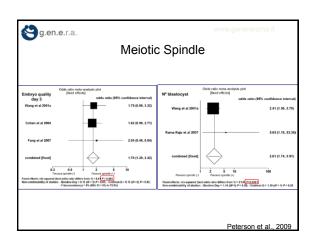


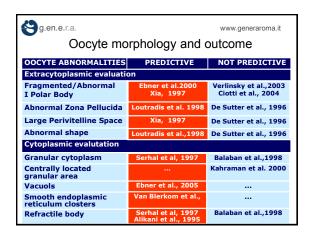


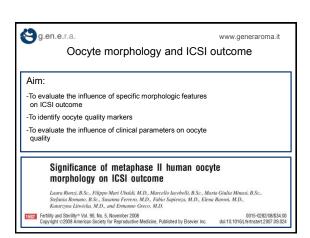


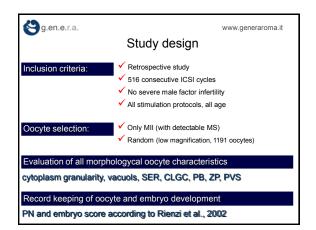


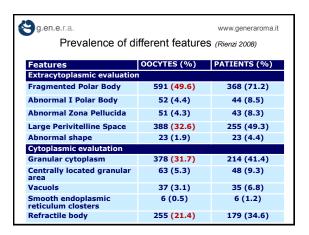


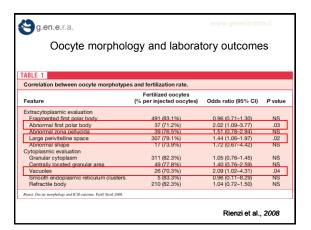


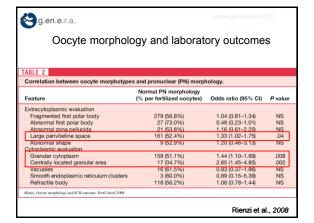


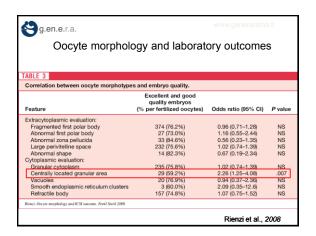


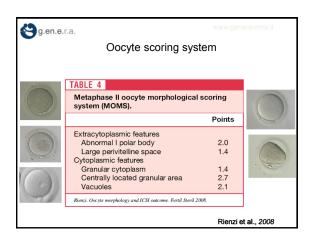


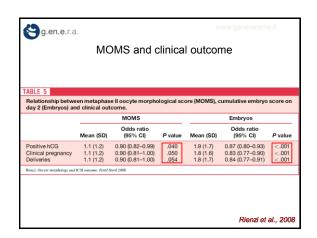


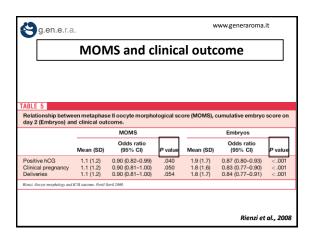


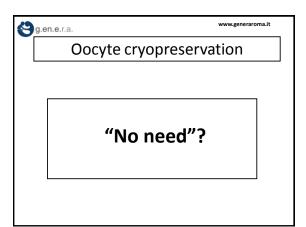


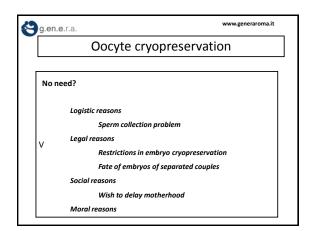














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Oocyte cryopreservation

No need?

Oocyte donation

Oocyte banks may result in

- widespread availability
- shortened, eliminated waiting list
- safety (quarantine)
- choice



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Oocyte cryopreservation

No need?

How many women are deprived of their maternity each day all over the world because some fertility experts consider

"... there is no need..."?



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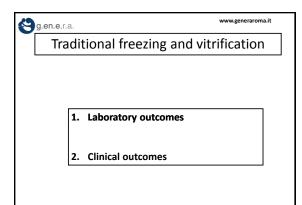
Traditional freezing and/or vitrification?

Efficiency in donation program not compromised (Cobo et al., 2007; Nagy et al., 2007)

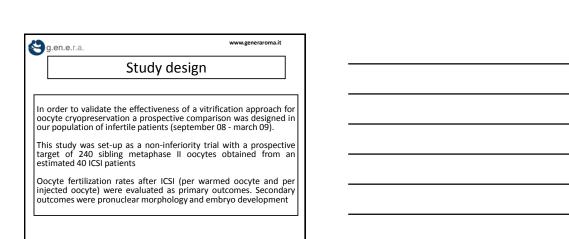
Prospective randomized study with own oocytes no difference (Rienzi et al., 2010)

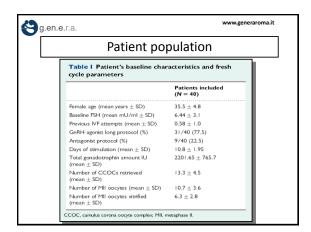
The clinical pregnancy rate has doubled with the introduction of vitrification (*Tulandi, 2008*)

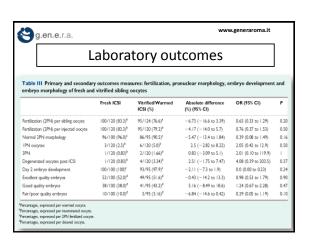
Cumulative ongoing pregnancy rate with oocyte vitrification without embryo selection in a standard infertility program (Ubaldi, 2010)

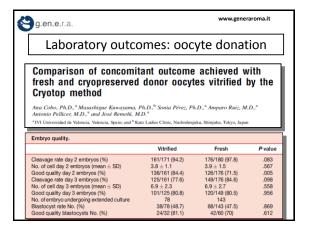


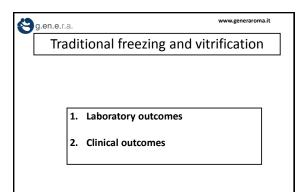


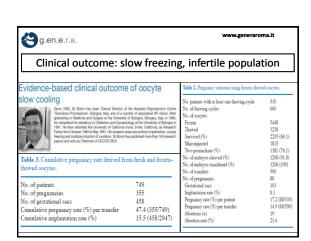


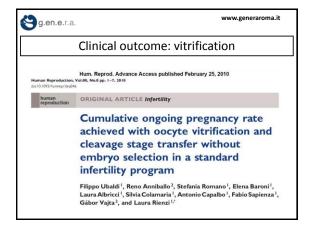


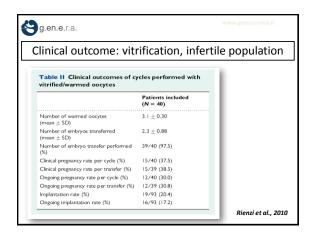


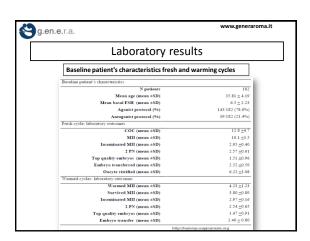


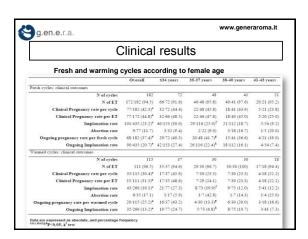




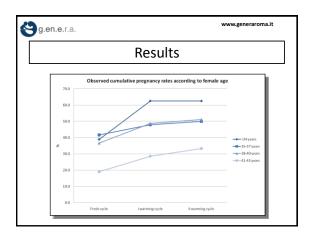


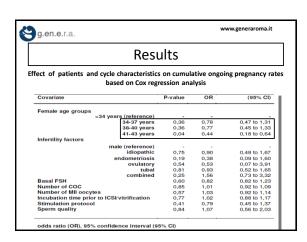






Clinical results							
Cumulative ongoing pregnancy rates after fresh cycle, I warming and II warming cycles according to female age							
	Overall	≤34 years	35-37 years	38-40 years	41-43 years		
Fresh cycle	68/182 (37.4%)	29/72 (40.3%)	20/48 (41.7%)	15/41 (36.6%)	4/21 (19.0%)		
(95% CI)	(31,2 to 45,1)	(29,7 to 51,9)	(28,8 to 55,8)	(23,6 to 52,0)	(7,8 to 40,3)		
I warming cycle	94/182 (51.6%)	45/72 (62.5%)	23/48 (47.9%)	20/41 (48.8%)	6/21(28.6%)		
(95% CI)	(44,4, to 58,8)	(50,9 to 72,8)	(34,4 to 61,7)	(34,2 to 63,6)	(13,9 to 50,2)		
II warming cycle	97/182 (53.3%)	45/72 (62.5%) ^a	24/48 (50.0%)	21/41 (51.2%)	7/21 (33.3%) ⁸		
(95% CI)	(40,0 to 60,0)	(50,9 to 72,8)	(36,3 to 63,6)	(36,4 to 65,8)	(17,2 to 54,9)		







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Conclusions cumulative pregnacy

- High cumulative ongoing pregnancy rates were achieved in a standard infertility program with transfers of embryos derived from fresh and subsequently vitrified eggs
- Among various infertility factors, only female age influenced significantly the outcome
- The overall efficiency justifies the application of this strategy in routine infertility work



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Obstetric outcomes

Chian RC, Huang JY, Tan SL, Lucena E, Saa A, Rojas A, Castellón LA, García Amador MI, Montoya Sarmiento JE.

Obstetric and perinatal outcome in 200 infants conceived from vitrified oocytes. *Reprod Biomed online 2008*

Noyes N, Porcu E, Borini A.

Over 900 oocyte cryopreservation babies born with no apparent increase in congenital anomalies.16:Reprod Biomed online 2009 608-10



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European Society of Human Reproduction and Embryology and Societa' italiana di studi di Medicina della Riproduzione

 Each year about 10,000 Italian couples go abroad to undergo an assisted fertilization program.

•One of three who go to a foreign country to have a child is an Italian couple



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CORTE COSTITUZIONALE SENTENZA N. 151 1 APRILE ANNO 2009

SUPREME COURT

<u>dichiara</u> l'illegittimità costituzionale dell'art. 14, comma 2, della legge 19 febbraio 2004, n. 40 (Norme in materia di procreazione medicalmente assistita), limitatamente alle parole «ad un unico e contemporaneo impianto, comunque non superiore a tre»;

<u>dichiara</u> l'illegittimità costituzionale dell'art. 14, comma 3, della legge n. 40 del 2004 nella parte in cui non prevede che il trasferimento degli embrioni, da realizzare non appena possibile, come stabilisce tale norma, debba essere effettuato senza pregiudizio della salute della donna:

<u>dichioro</u> manifestamente inammissibile la questione di legittimità costituzionale dell'art. 14, comma 1, della legge n. 40 del 2004 ART. 14, lÉ vietata la crioconservazione e la soppressione di embrioni), sollevata, in riferimento agli artt. 3 e 32, primo e secondo comma, della Costituzione, dal Tribunale ordinario di Firenze, con ordinanza r.o. n. 323 del 2008;



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SUPREME COURT SENTENCE N. 151 1 APRIL 2009

The sentence establishes two important principles:

"Physician autonomy and responsibility" in determining the appropriate number of embryos to transfer, "minimizing the risk to women and fetus'

"the possibility to freeze those embryos produced but not transferred for medical choice" (affected post-PGD)



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RESULTS				
	LAW PERIOD (01/08-05/09)	POST SUPREME COURT PERIOD (06/09-01/10)		
N° CYCLES	720	405		
FEMALE AGE (mean±SD)	37.3 <u>+</u> 4.2	38,3 <u>+</u> 3.7 P<0,05		
OOCYTE MII	6,1 <u>+</u> 3.9	6,3 <u>+</u> 4.2		
INJECTED OOCYTE	2,7 <u>+</u> 0.6	4,3 <u>+</u> 2.1 P<0,05		
FERTILIZATED OOCYTE	2,3 <u>+</u> 0.8	3,6 <u>+</u> 1.8 P<0,05		
EMBRYO TRANSFER	2,2 <u>+</u> 0.9	2,2 <u>+</u> 1.1		

e g.en.e.r.a.		www.generaroma.it		
RESULTS				
	LAW-PERIOD (01/08-05/09)	POST-SUPREME COURT (06/09-01/10)		
POSITIVE β-HCG (RATE)	37,23 (268/720)	35,30 (143/405)		
CLINICAL PREGNANCY	32,23 (232/720)	32,34 (131/405)		
BIOCHEMICAL PREGNANCY	13,43 (36/268)	8,39 (12/143)		
MISCARRIAGE	22,41 (52/232)	17,5 (23/131)		
SINGLETON PREGNANCY	65,9 (153/232)	69,5 (90/131)		
TWIN PREGNANCY	30,2 (70/232)	27,5 (36/131)		
TRIPLET PREGNANCY	2,6 (6/232)	1,5 (2/131)		
ECTOPIC PREGNANCY	1,3 (3/232)	1,5 (2/131)		

IMPLICATIONS OF ITALIAN LEGISLATION FOR LABORATORY PRACTICE

M.C. Magli, M.Sc.

S.I.S.ME.R. Reproductive Medicine Unit - Via Mazzini, 12 - 40138 Bologna Italy

illarg

cristina.magli@sismer.it



LEARNING OBJECTIVES

At the conclusion of this presentation participants should be able to:

- 1) Describe to which extent the change(s) in the Italian legislation affected the laboratory activities.
- 2) List the techniques and strategies that had to be drastically modified and the consequences of this actions.
- 3) Formulate the points of reaction that produced positive results from a negative situation.

liarg



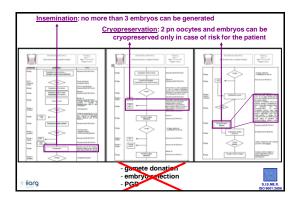
1ST PHASE IMPLEMENTATION

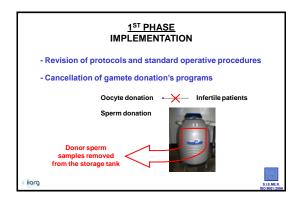
- Revision of protocols and standard operative procedures

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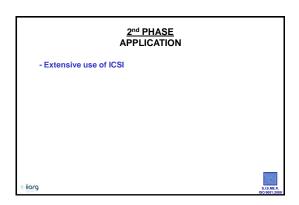
enagiano and Gianaroli 2004; 201

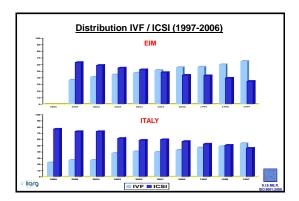


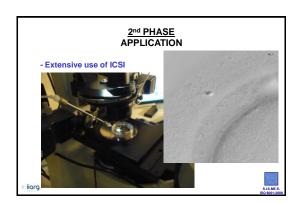


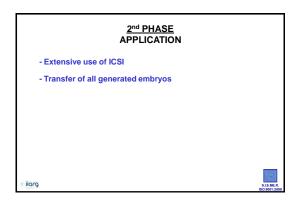


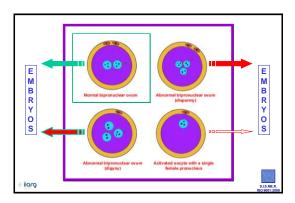
1ST PHASE IMPLEMENTATION - Revision of protocols and standard operative procedures - Cancellation of gamete donation's programs - Information to all members of the laboratory staff - Data collection for the national registry

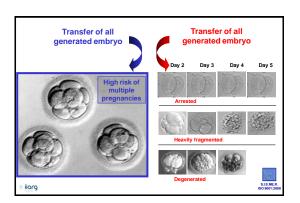


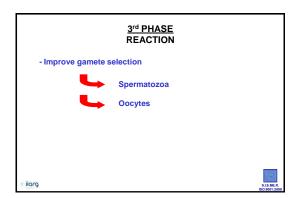


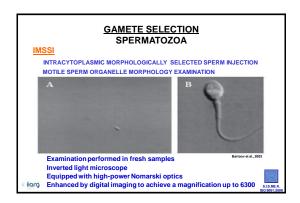


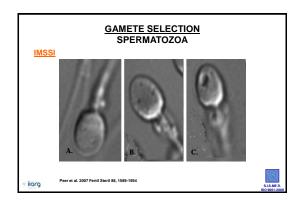


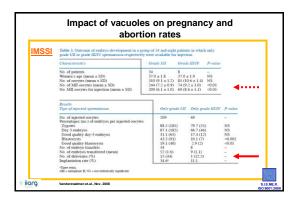


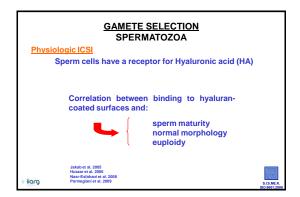


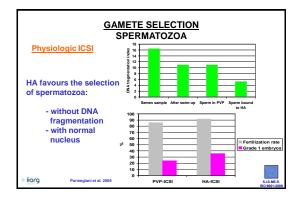


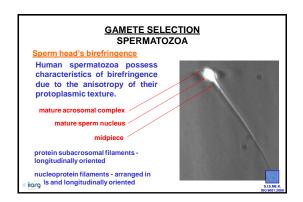


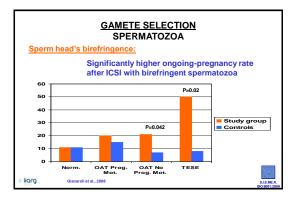


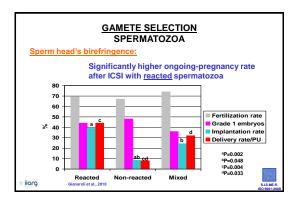


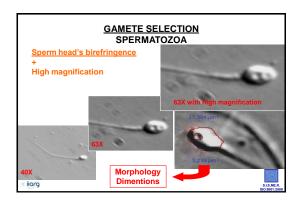


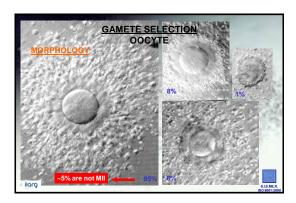


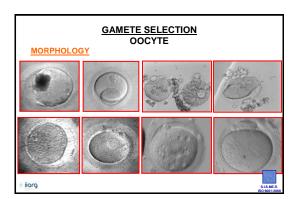


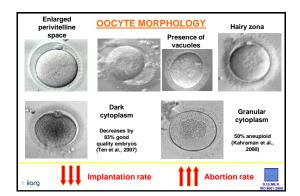


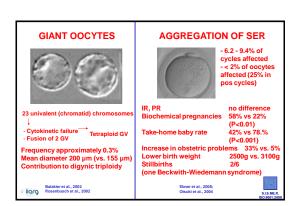


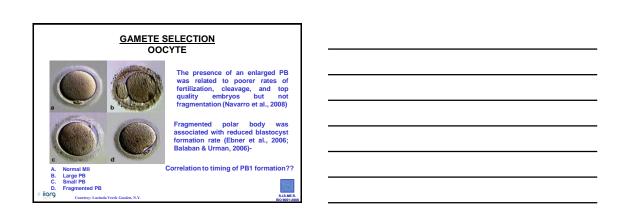


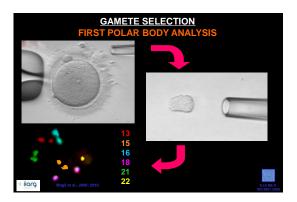


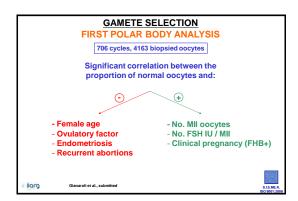


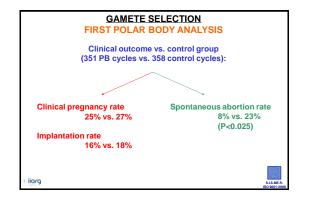




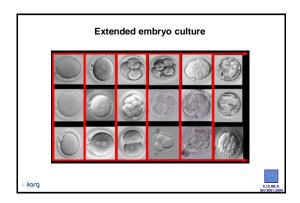


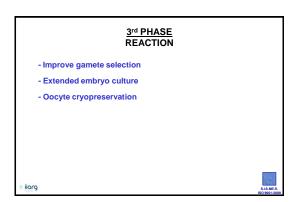


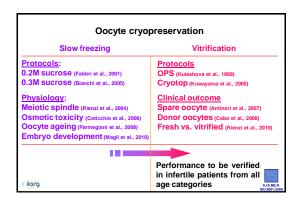




3rd PHASE REACTION - Improve gamete selection - Extended embryo culture



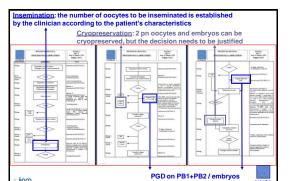


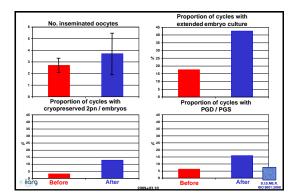


4th PHASE SENTENCE OF THE SUPREME COURT

- Revision of protocols and standard operative procedures
- Information to all members of the laboratory staff

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CONCLUSIONS

- 1) The Italian legislation (March 2004) drastically affected the laboratory activities by regulating the number of embryos to be generated, and prohibiting embryo selection, cryopreservation, PGD, and the use of heterologous gametes.
- 2) Several techniques and strategies had to be modified leading to an increase in the use of ICSI and to the transfer of embryos that otherwise would have never been transferred.
- 3) There was a positive reaction to this situation that produced important results in the area of gamete selection and oocyte cryopreservation that are of great interest for the scientific community.



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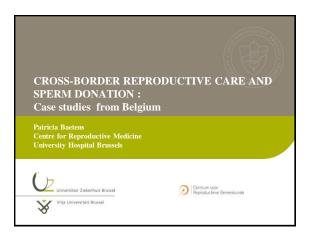
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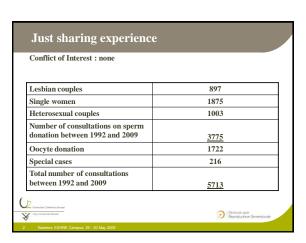


Cross-border reproductive care and embryo donation: case study from the UK

Gamete donation is a complex issue and will affect not only the donor and the recipient but also the children born from donation and existing children of the donor and recipient.

The aim of this presentation is to look at what may seem to be a simple situation and then begin to uncover the ethical layers that can ensue from this. It is intended to be an interactive session allowing the delegates to look at various aspects of the case study and how this affects all parties involved.





Law: the body of rules and principles, established by custom and/or agreement, governing a particular kind of activity in a community and enforced by political authority Some laws regulate the behaviour or conduct of individuals belonging to an human society according to the cultural and/or religious beliefs of that society Law concerning Reproductive Medicine could be considered a reflection of society's beliefs concerning family building Family is a group of people (or animals) affiliated by consanguinity, affinity or co-residence One of the primary functions of the family is to produce and reproduce persons biologically and socially The family of procreation is based on marriage: the goal of this resulting relationship between two people is to produce and enculturate and socialize children Western societies: nuclear family or conjugal family (husband, wife and unmarried children who are not of age)

Objectives of the presentation If couples can not meet this goal of reproduction in the traditional way, individuals can develop their own beliefs concerning family building, that may not be conform with the law in their home country: the consequence is cross border reproductive care Point of view: creative ideas of people concerning family building Belgium is one of the European countries with a law concerning Reproductive Medicine without many restrictions and therefore a favourite destination for cross border reproductive care

- > Evaluation is needed:
 - Requests should be conform Belgian law
 - Requests need to be in agreement with "the reasonable welfare principle" of the future child





Baetens; ESHRE Campus; 29 - 30 May 2009

Perception of gamete donation : the influence of legislation : Civil code

- > Motherhood: the legal mother is the woman giving birth
- Oocyte donation: gestation and giving birth compensates the lack of a genetic link:
 - Oocyte donors and the recipient couples agreed that the woman who becomes pregnant and gives birth to the child should be considered as the 'real' mother (Baetens et al.; 2000)
 - Oocyte donors always express the lack of any right towards the child born from their genetic material because of authenticity conferred by the pregnancy and fertilisation by the father (Weij; 1994)
- > Fatherhood : genetic definition
- Donor insemination : no compensation for the lack of a genetic link with the father





Perception of sperm donation : Influence of the Civil code

- > Because of the lack of genetic link:
 - Men are afraid of not being considered the "real" father of the donor child
 - > Men are afraid of not being able to father the donor child
 - > Women are afraid that their husband will not consider the child born after DI as their child
- Coping with differences: all couples fear that the child might be too different of the potential child they could have had if there was no need for a treatment with donor gametes
 - Couples are afraid of differences: they are afraid that others might see that the child is not genetically related to one of the parents

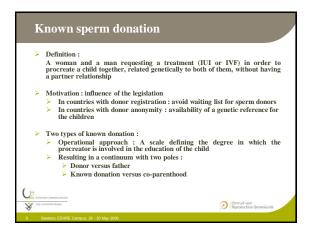




Baetens; ESHRE Campus; 29 - 30 May 2009

Anonymous versus non-anonymous donors The different opinions on the right of the child to know his/her genetic origin, as inserted by the European convention of the rights of children, are reflected in European legislation Types of sperm donation: Anonymous donation: the identity and/or other information about the donor is not to be released Belgium, France, Spain, Demmark, Norway Donor registration: the child has the right to know the identity of the donor Sweden, The Netherlands, UK, Switzerland, Austria, New Zeeland, Australian state of Victoria Known donation: a woman and a man requesting a treatment in order to procreate a child together without having a partner relationship

Heterosexual couples: Medical indication : no choice perspective The majority of men : rivalry Single women (Baetens et al., 1995) Ethical concern : the (ab) use of the genetic material of a man without his informed consent No known donor available in social environment Safety: HIV and other sexually transmitted diseases, genetic screening Interference by the biological father is seldom mentioned Lesbian couples : (Baetens et al., 1996; Englert, 1994; Jacob, 1999) Medical screening of the donors A safe procedure The wish of the lesbian couple to protect the position of the social mother The protection of the partner relationship by avoiding the presence and the interference of a third party



Known donation versus co-parenthood The use of criteria such as: How will the child call the donor Will the name of the donor be on the birth certificate of the child France: will the donor have "parental rights" Will the donor be involved in important decisions concerning the child: name of the child, medical decisions, choice for school The extent of contact between the donor and the child Legal agreement on visiting rights Centrum voor Reproductieve Geneeski

Motivation: known donation Heterosexual couples: always known donation, never co-parenthood > Request of the intended parents to have a child genetically related to the social father > Donor: brother of the husband or father of the husband Welfare of the child is not always taken into consideration Advantage for the child: access to his genetic origin but the children are not always informed often to avoid confusion about parental roles Alternative families : single women and lesbian couples Known donation: welfare of the child: to give the child access to the identity of the donor Sometimes genetic (lesbian couples): the donor is the brother of the social mother Centrum voor Regroductieve Geneeskunde



Identity release donors Donor registration: Sweden, The Netherlands, UK, Switzerland, Austria, New Zeeland, Australian state of Victoria The need for genealogical information only exists if the child is told about donor conception Motivation: Anticipating a potential need of the child: the child has access to the identity of the donor if needed

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Donor registration Since 1985, the Sweden legislation gives the donor child the right to receive identifying information about the donor emphasising the importance of parental openness: > Compliance with the law was considered low because 52% of parents did not tell or did not intend to tell the child (Gottlieb et al., 2000) > 854 questionnaires of Swedish gynaecologists showed that 72% of the male gynaecologists and 86% of the female gynaecologists were in favour of disclosure. Nevertheless 45% of the male gynaecologists and 36% of the female gynaecologists opposed providing adult offspring with information about the donor (Svanberg et al., Hum. Reprod., 2008)



Case 1: selective anonymous donation The spouse: 33 years, worked as an assistant in a firm for film distribution The husband: 39 years, working as a police man They lived together for 7 years The husband had three brothers This couple asked for a treatment with the sperm of the three brothers of the husband making coincidence decide which brother would be the actual donor: the sperm of the three donor brothers would be stored The first insemination cycle one of the brothers would be randomly chosen to be the donor The second insemination cycle a second brother would be randomly chosen to be the donor The third cycle the brother who had not been used yet, would be the donor The fourth cycle the first donor brother would be used again The couple and the donors were not to be informed about who the actual donor was if a pregnancy occurred

Case 1 : selective anonymous donation : **Motivation of the recipients**

- Fear of anonymity: the wife did not want to be pregnant from a stranger: she wanted to know something about the genetic origin of the child without knowing who the actual donor was, knowing the actual donor would imply a link between the child and the sperm donor
- > The importance of the genetic link between the child and the husband
- This "selective anonymity" would protect the family of the husband: all brothers were equally involved in this project, showing no preferential relationship to one of the brothers
- Protection of the couple and their child from potential conflicts with the brothers as no one will know which brother is the actual donor



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Case 1 : selective anonymous donation : **Motivation of the donors**

Donor 1:43 years, married for 22 years, three children:

- Honoured by the question
- An act of trust : the brothers were very tight to each other and it was therefore natural and legitimate to help this couple
- If the sperm was not used for his brother, the sperm should be destroyed

- Donor 2: 41 year, married for 13 years, two children:

 A natural and technical act: the child would be genetically related to the family
- If the sperm was not to be used for his brother, it could be used for other couples in need of sperm donation

Donor 3:34 years, a girlfriend since one month:

- This question confronted him, as the only donor without children, with the question if he could beget children
- The health of the child to be born: he would feel responsible it the child was not healthy

If the sperm was not used for his brother, the sperm should be destroyed



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Case 1 : selective anonymous donation

- > All brothers were very much convinced to help the couple
- Their motivation was slightly different but all three of them agreed that the child should be the child of the recipients: all decisions concerning the child should be taken by the recipients, who are considered to be the parents of the child
- > They respected the privacy of the couple and talked only about the donation with the recipient couple and not among themselves as "donor brothers"
- > What if the children want to know who the actual donor was?





Baetens: ESHRE Campus: 29 - 30 May 2009

Case 2: Intergenerational donation

- French lesbian couple that came tot the centre in 2003 in order to have a treatment with an anonymous donor: they stopped after one treatment cycle
 - > They were not at ease with the anonymity of the donor
 - The biological mother started a new education of 3 years as a social worker
- In 2008: The couple asked treatment with the sperm of father of the social mother, known donation
- The biological mother is 34 years of age, the social mother is 35 years, they were living together for 14 years
- > The relationship is complementary: the social mother has no wish to be pregnant

The social mother had no brother: no other intrafamilial donor is a social mother had no brother: no other intrafamilial donor is

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Case 2: Intergenerational donation: Motivation of the lesbian couple

- 1. The link with genetic patrimony of the social mother
- 2. The right of the child to knew his genetic origin
- 3. The life story of the biological mother :
 - > Her mother was abandoned when she was three months pregnant
 - > She referred to her natural father as the procreator
 - As an adult she saw him three times: the procreator was very annoyed with this situation because he failed to inform his new family about her existence
- 4. Trust in the genetic patrimony: in terms of health of the child
- 5. Physical and mental resemblance between father and daughter and consequently a bigger affinity between the social mother and the child 6. Trust in the father





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Case 2: Intergenerational donation: The donor The donor was 55 years, divorced of his first wife, the mother of the social mother, after 14 years of marriage He had a cohabitating relationship of 23 years: he had no children in this second relationship His partner was informed on the donation and agreed with the donation

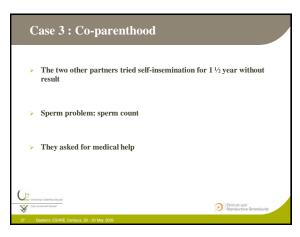
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Case 2: Intergenerational donation: Motivation of the donor The donor is only willing to donate for his daughter: he would never donate his sperm to someone else neither in a know donation cycle nor anonymously He considers the donation as a particular act He wants to help his daughter by giving her a beautiful gift: the gift of parenthood The child will be the child of the lesbian couple: every decision concerning the child is the responsibility of his daughter and her partner To him this child will not be different from his other three grandchildren: he will consider all grandchildren in exact the same way

Case 3: Co-parenthood French lesbian couple: Biological mother (Irene) was 34 years of age, teacher (philosophy) > Social mother (Nathalie) was 36 years of age, teacher (French) Lived together for 3,5 years French homosexual couple: Biological father (Arnaud) was 27 years of age, theatre agent Social father (François) was 42 years of age, actor (has his own group of comedians) Lived together for 4 years Motivation co-parenthood The right of the child to know his genetic origin The right of a child to know his father The right of a child to have a preferential relationship with a man: an affective relationship with a father Centrum voor Regroductieve Geneeskung

Case 3: Co-parenthood Nathalie and Arnaud knew each other first and became friends They both started a homosexual partner relationship after they met the first time Both lesbian partners always had had a wish for a child: Irene started an adoption procedure before she met Nathalie Nathalie had always co-parenthood in mind François had a wish for a child since 20 years Arnaud was much younger, had no professional stability: his wish for a child was related to his relationship with François

Case 3: Co-parenthood The oldest female partner (Irene) and the oldest male partner (François) started with self-insemination: a son of 19 months: Till Till called his biological mother 'mum' and his biological father 'dad' Till lives with his mothers five days a week and he stays with the fathers each weekend Till's biological father is mentioned on the birth certificate Till's biological father started a legal procedure to obtain paternal rights The family of all four parents considered him as a grandchild



Case 4: Intra-familial sperm donation between brothers Couple from Kazakhstan, lives in Brussels for 2 years Wife: 38 years, endometriosis Husband: 34 years, azoospermia, 3 testicular biopsies: no sperm found Married for 12 years Ask for an IVF-treatment with the sperm of brother of the husband Motivation: Genetic link Ethnic resemblance: Asian traits: Mongolia Cultural aspect: the ancestors of the seven last generations should be known to men Physical resemblance between the brothers Healthy family, genetic health of the family

Case 4: Intra-familial sperm donation: Motivation People have an obligation towards the family to procreate: family pressure Last chance of treatment: Age of the wife + endometriosis This couple stays in Belgium till January 2011: quality of health care No sperm donation allowed in Kazakhstan The donation will be kept secret: towards the child and towards family and friends Cultural context does not accept sperm donation Our child Normal child: not different from other children within cultural context

Case 4: Intra-familial sperm donation: The donor > He lives in Kazakhstan, a paediatrician, 36 years He is married with three children He only speaks Russian and Kazakhs and psychological counselling is, therefore, impossible although it is mandatory for known sperm donors in our centre His wife is not informed : in cases of known gamete donation our centre asks that the partners of donors are informed and supportive towards the donation > Risk for secrecy > Confusion about parental roles: she would consider this child as the child of her husband > Family business between brothers: there was even no communication between the wife and her brother in-law about the donation > The sperm donor wishes to keep it secret from his wife too Centrum voor Reproductieve Geneesk

Case 5 : Polygamous relationship Woman from Congo, 38 years She lives in France She is divorced after 7 years of marriage because she couldn't have children She has a relationship of 3 years with a man who lives in Belgium No treatment possible in France because the couple doesn't live together and they are not legally married She wants a child with her partner

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Case 5 : Polygamous relationship The partner is 42 years He is legally married for 15 years, with his legal wife he has 4 daughters of 16, 10, 8 and 4 years He asked his legal wife permission to have a second wife according to the customs of the Balouba, his wife agreed and if the first wife agrees, this relationship is an official relationship according to the customs of the Balouba > His second wife has no children and she needs to have one child > He has 4 children and having a fifth child is not a priority for him No wish for a son, he is religious: the sex of the child should be 'God's choice' His name will be on the birth certificate of the child and he has paternal rights, responsibility and obligations towards the child Centrum voor Reproductieve Geneeski ×

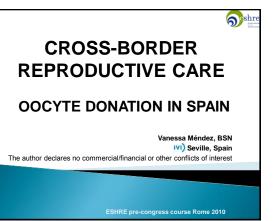
The wife is 39 years She agreed on the polygamous relationship because she preferred her husband to have a second, more or less, official wife and because he accepted not to have other adulterous relationships with different women Her father had 3 official wives She knows the second wife, her 4 daughters also know the second wife: they meet if the second wife comes to Brussels for celebrations, Christmas and family events There is no interference of the second wife with her household or with the education of her 4 daughters The child of the second wife will be part of an extended family, a sibling to her 4 daughters The future child will not be related to the family of the first wife, but it is very important that the child is related to the family of his father

Conclusion Couples can be very creative in finding solutions for building a family if "nature" fails or if their life situation does not allow them to procreate in a natural way Will parents be better parents if they create their family consistent to their beliefs? Will it be easier for parents to learn their children to live with the consequences of the irreversible choices they made concerning family building if they are consistent with their beliefs? Psychologists should shoulder the responsibility to refuse a request if "the reasonable welfare principle" for the future child is considered not to be met (Baetens et al. 2002, Counselling lesbian couples, RBM online; 6, 75-83)

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Conclusion: At the benefit of the parents or at the benefit of the child? > Case 1: Selective anonymous donation > The child closest to the potential child this couple could have had if there was no need for a treatment with donor gametes without loosing the advantages of donor anonymity > What if the child wants to have access to the identity of the actual donor? > Case 2: Intergenerational donation in a lesbian couple > The child is genetically related to the family of the social mother > The genetic link increases the parental bonding with the social mother > The child has access to his genetic origin > Confusion about parental roles > Case 3: Co-parenthood > The right of the child to know his father and to have an affective relationship with his father

Conclusion: At the benefit of the parents or at the benefit of the child? Case 4 : Intra-familial sperm donation between brothers > The child belongs to the family of the husband Religious and cultural: secrecy is needed, disclosure might harm the couple, the donor and the child, "normal" child Last chance child in a social and cultural situation where there is much pressure to procreate Case 5 : Polygamous relationship > The need of the biological mother to have a child in a cultural context that outcasts childless women Anonymity is not acceptable in this cultural context > It is important that the child is related and belonging to the family of his father How will the child grow up in a society were polygamous relationship are not common and not legally protected? Social stigma Centrum voor Regroductieve Geneesku



Learning objectives

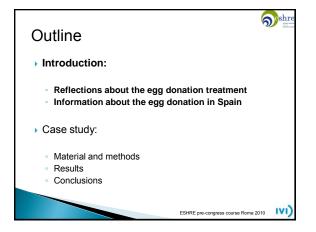


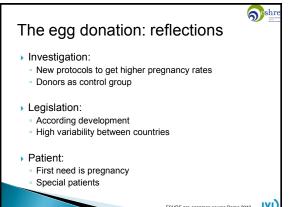
- Information about the egg donation in Spain
- Learn about destination chosen
- Understand patient's needs

ESHRE pre-congress course Rome 2010

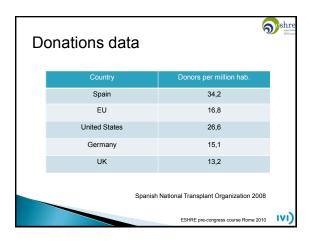








The egg donation: reflections Treatment needed is not available: Waiting list High cost Specific techniques Differences between countries because of legislation: Treatment forbidden Restrictions for some categories of patients Consequence: patients travelling across Europe

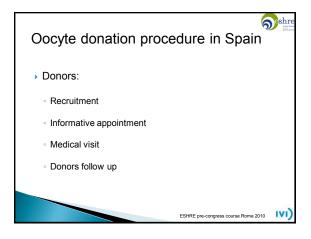


Oocyte donation's data in Spain Note: IVF Registries in Spain: Voluntary register of the Spanish Fertility Society Mandatory register of the Catalonian Government European IVF Monitoring (Nyboe Andersen et al. 2009) ESHRE's cross – border reproductive care pilot study (Amsterdam, 2009)

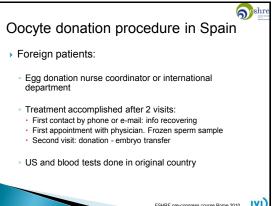
Oocyte donation's law in Spain Law 35/1988 Real Decreto 412/1996 Law 14/2006 Contract between donor and authorized centre Free. Compensation accepted Anonym 18 years old Medical and psychological tests Maximum 6 children No filiations

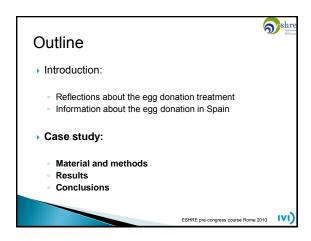
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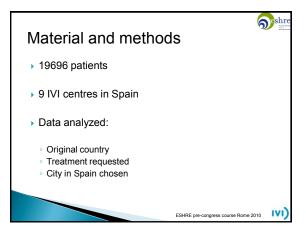
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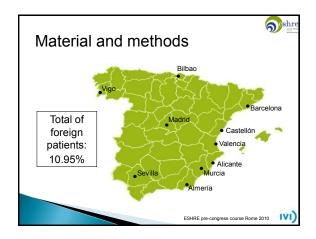


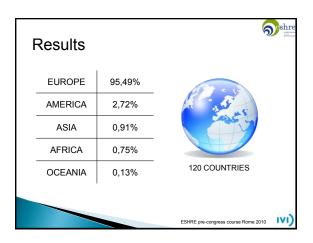
Oocyte donation procedure in Spain • Recipient treatment: • Synchronized: donor and recipient stimulated simultaneously • Continuous RHT: donation done at OR • Vitrificated oocytes: egg bank

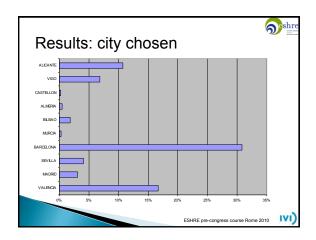


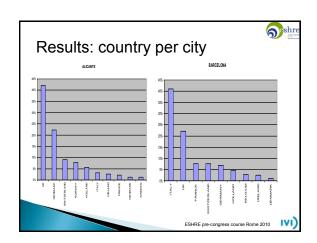


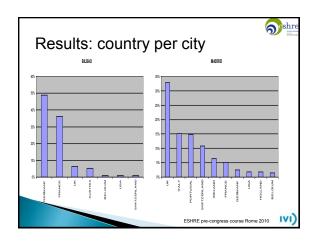


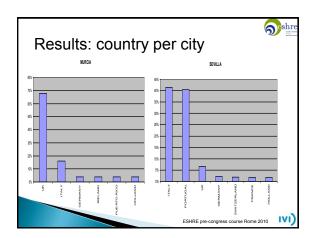


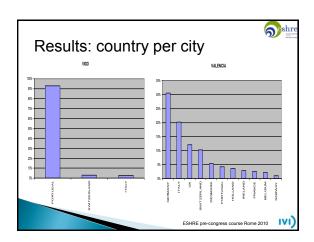


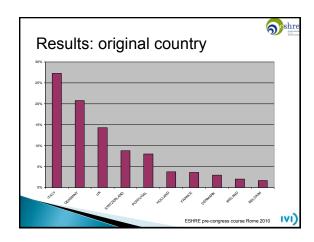


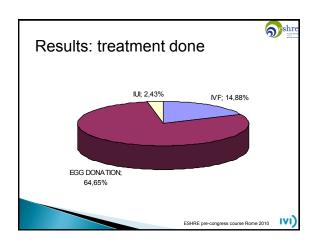


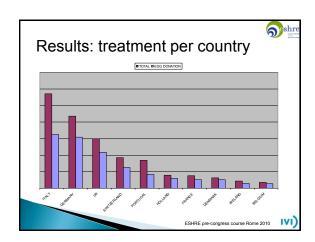












Conclusions There is a high number of European patients travelling in Europe looking for pregnancy. Oocyte donation is the most requested treatment in Spain by foreign patients. The destination is chosen depending: Accessibility by transport. Facilities offered.



Cross-Border Reproductive Care: Patients' Perceptions

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Learning Objectives

- To situate cross-border reproductive care within globalization frameworks
- To review the literature on cross-border reproductive care
- To examine additional "causes" of crossborder reproductive travel from patients' perspectives
- To rethink the language of "reproductive tourism"

Globalization Defined

• Globalization: "the ever faster and ever denser streams of people, images, consumer goods, money markets, and communication networks around the world" (Schaebler and Stenberg 2004:xv-xvi)

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Anthropology of Globalization • Appadurai: Global Scapes (1995) • Ong and Collier: Global Assemblages (2005) • Tsing: Global Frictions (2005) • Ferguson: Global Shadows (2006) Arjun Appadurai's "Scapes" • Ethnoscapes (movements of peoples) Technoscapes (movements of technology) • Financescapes (movements of capital) • Mediascapes (movements of images) • Ideoscapes (movements of ideas) Additional Scapes: Of Concern to Global Health • Bioscapes (pathogens, vectors) • Somatoscapes (gametes, organs, body parts) • Toxiscapes (pollutants, chemical substances) • Pharmacoscapes (medications, illegal drugs) Foodscapes (junk foods, McDonalds) • Lifescapes (sedentarism, addictions)

Cross-border Reproductive Care (aka Reproductive Tourism, Fertility Tourism, Procreative Tourism) Reproductive Tourism Defined • "the traveling by candidate service recipients from one institution, jurisdiction or country where treatment is not available to another institution, jurisdiction or country where they can obtain the kind of medically assisted reproduction they desire. As such, it is part of the more general 'medical tourism'" (Pennings 2002:337) "Reproscapes" • Circulating assisted reproductive technologies (technoscapes) • Circulating reproductive actors (ethnoscapes) • Circulating body parts (somatoscapes) • Large-scale global ART "baby business" (financescapes) • Images of making test-tube babies "on holiday" (mediascapes) • Ideas about "assisted" reproduction (ideoscapes)

Global "Reproflows"

- Flow of technologies between countries
- Flow of expertise between countries
- Flow of embryos between countries
- Flow of men and women seeking reproductive "assistance"
- Flow of reproductive "assistors"
- · Flow of capital
- · Flow of media

Factors Promoting Reproductive Tourism: A Literature Analysis

- Individual countries may prohibit a specific service for religious or ethical reasons
- A specific service may be unavailable because of lack of expertise, equipment, or lack of donor gametes
- A service may be unavailable because it is not considered sufficiently safe or its risks are unknown

Factors Promoting Reproductive Tourism (Cont.)

- Certain categories of individuals may not receive a specific service on the basis of age, marital status, or sexual orientation
- Services operate on a market or quasi-market basis, thus affecting affordability and supply
- Services may simply be cheaper in other countries
- · Privacy concerns

Policy Debate

• "The more widespread this phenomenon, the louder the call for international measures to stop these movements" (Pennings 2002:337)

Research Project: Part I

- "Globalization and Reproductive Tourism in the Arab World"
- Fulbright and National Science Foundation
- United Arab Emirates: Middle Eastern "hub" of intense global flows
- 6 months (January June 2007)
- Conceive: Largest private IVF unit in UAE

Ethnographic Study

- Unstructured and semistructured interviews
- 240 individuals, representing 125 patient-couples
- Representing 50 countries
- Majority:
 - --Indian --British --Filippino --Lebanese --Pakistani --Palestinian --Emirati --Sudanese --Syrian

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Major Finding 1

- Many additional causes of reproductive travel not yet cited in literature
- Importance of patients' perspectives
- Importance of listening to "reproductive travel stories" through qualitative research
- What propels infertile couples on transnational "quests for conception"?

Major Finding 2: "Travel" vs "Tourism"

- Tourism: "fun," "leisure," "holidays"
- Travel: desperate, stressful, costly
- Tourism: cavalier, insensitive, gimmick, mockery of suffering
- Travel: preferences *not* to travel
- Reproductive "exile": "forced" to travel across borders

3 Patterns of "Reproflow"

- To the UAE
- From the UAE
- To and from the UAE

Reproflows to the UAE

- The lure of Dubai
- 3-month visitor's visa
- · Physician reputation
- Lack of access to ARTs in home countries (e.g., Sub-Saharan Africa)
- European restrictions
- "Reproductive exiles" from the NHS

Reproflows from the UAE

- Desire for secrecy among "locals"
- Waiting lists at government clinics
- Religious restrictions
 - --Sunni Muslim ban on third-party reproductive assistance
 - --Only Shia Muslim Iran and Lebanon allow third parties
 - --Abortion is criminalized

Reproflows from the UAE

- Medical "horror stories"
- Medical "expatriotism"
- IVF holidays back home
- State subsidization back home
- IVF tourist packages
- "Anchor babies" and citizenship rights

Reproflows to and from the UAE • Fragmented services · Abortion restrictions · Frozen embryo retrieval • Repetition and doctor shopping Desires *not* to Travel • Physician trustworthiness and comfort • Reproductive emergencies en route • Logistics and pragmatics of travel · Importance of work • Infertile couples "staying together" Research Project: Part II • July 2007 - December 2009 • 2 US Research Sites: - "Arab Detroit" (capital of Arab-America) - New Haven, CT (East Coast Ivy League) - Interview with >70 reproductive travelers

Arab Detroit

- "Arenas of constraint" on access to ARTs in US
- Low-income laborers and refugees from wartorn and impoverished countries
- Low-wage jobs in declining Michigan economy
- No medical insurance
- Language and cultural barriers
- Debt and financial hardship
- · Desires to access ARTs are frustrated

Travel from Arab Detroit

- Costs of IVF in US overwhelming to citizens
- Being "stuck" in US and its health care quagmire
- "Return reproductive tourism" to Middle East
 - Family holiday
 - ARTs in ME less expensive, even with travel
 - Political threats of return travel (eg, Iraq, Lebanon)

Travel to New Haven, CT

- Ivy League prestige factor and trustworthiness
- · "Nobel" gametes
- Phenotypic similarity and race consciousness
- Relaxed regulatory environment: "Wild West"
- Lack of surrogacy restrictions and "traveling surrogates"

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Travel to New Haven, CT

- Economic "mandate states"
- Religious restrictions and cultural connections for Italians and Turks
- Role of "ART Troubadors" (Traveling IVF Doctors)

Discussion

- Global reproscape is complex
- Many "arenas of constraint"
- Excellent excellence of "stratified reproduction"
- "Fruits of globalization": Test-tube babies
- "Frictions" and "shadows" in global reproscapes
- Rethinking reproductive tourism as reproductive "exile"

Sobering Note

- Most infertile couples will never know joy of making an IVF baby
- ARTs will never be viable solution for world's infertile poor
- · Governmental neglect of infertility and ARTs
- Infertility is not a life-threatening disease
- Is having children a basic human right?
- Is access to ARTs a reproductive right?

191 WHO Member States • Only 48 offer IVF or other ARTs • < 1% of projected need in largest countries (China, India, Pakistan, Indonesia, Egypt) Average cost of IVF: US: >\$10,000 (>\$60,000 per test-tube baby) UAE: \$5,000 Iran: \$1,200 • Cost of 1 IVF > GDP in 50% WHO member states What Can Be Done? • Prevention of preventable causes of infertility, particularly treatment of reproductive tract infections (RTIs) • But not all infertility can be prevented, particularly male infertility • Ongoing need for ARTs, including in resourcepoor settings **Future Scholarship** Need to follow global flows of ARTs into the new millennium · Need to follow reproductive travelers around the • Anticipate effects of new ARTs and repro-genetic technologies on local societies · Huge ethical dilemma of PGD for sex selection and "repro-genetic tourism" Ongoing importance of reproduction and reproductive technologies to global health

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