



## Experience from the Private health system

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Managing Director

Sperm and testicular tissue banking  
ESHRE Campus Granada, Spain  
25-26 March 2010




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## History & Statistics

Year	News	Country (Dept.)	Staff(sqm)	Pregnancies
1981	The Sperm Bank idea	-	-	-
1983-86	The Sperm Study	-	-	-
1987	Start Cryos in Aarhus, Denmark	1(1)	1 (9)	-
1990	First donor	1(1)	1 (9)	-
1991	First pregnancy	1(1)	2 (9)	55
1993	Customers in 19 countries	1(1)	3 (43)	534
1995	Start supply of clinical products	1(3)	5 (185)	1,291
1998	Average 34% pregnancy rate per cycle reported	1(3)	6 (397)	3,159
2000	Customers in >50 countries	1(3)	7 (397)	4,502
2000-05	Sperm bank franchise development	1(3)	10 (551)	9,351
2006	Sperm bank franchise ready	1(3)	12 (551)	10,589
2007	First franchise-unit New York	2(4)	19 (706)	12,085
2008	Second franchise-unit Mumbai	3(6)	27 (936)	14,047
2009	Customers in >60 countries	3(6)	32 (1723)	(15,121)

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## Worldwide network of sperm banks



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**Cryos | Denmark**

HOME PRIVATE CLINICS ABOUT US

Welcome to Cryos website for clinics.

Only physicians and persons authorized to perform therapeutic treatment with donor semen are allowed access to some of these pages. Please click the links below and fill in the application form if you want access. Clinics who have a password can access login directly.

**01 Donor Search**  
Password access for Clinics only. Search among more than 300 Anonymous and Non-anonymous donors.

**02 Price List**  
Password access for Clinics only.

**03 Pregnancy Registration**  
Password access for Clinics only. Donor and Registration for the clinic. Register and add pregnancies and abortions investigations when they are known. See Overview of your clinic previous years registration.

**04 Pregnancy Report**  
Password access for Clinics only. Check whether a donor has reached the national or worldwide pregnancy limits.

**05 Registered Pregnancies**  
Password access for Clinics only. See if a specific donor has registered pregnancies or not.

**06 Donor Profile**  
Password access for Clinics only. See a specific donor and available get information about Donor info, type and quality.

**07 Donorring**  
Read about how the donors are selected and screened.

**08 Products**  
A selection of clinical sperm related products.

**09 Questions & Answers**  
A selection of relevant question and answers in relation to treatment with donor semen.

**10 Articles**  
A collection of relevant papers.

Global Site Cryos International | Research Apt | Væstebøhus 100 1, 106 Floor | 2800 Kongens Lyngby | Denmark | (+45) 46788888 | @cryosinternational

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HOME PRIVATE CLINICS ABOUT US

1 Donor Search 2 Donor details 3 Donor 4 Login 5 Delivery 6 Submit

Donor?  Quality?  Height cm/ft

Profile  Race  Weight kg/lbs

Type?  Ethnicity

Usage?  Eye

Standard?  Hair

**356 donors match the search criteria**

DONOR NAME	ETHNICITY	IDENTITY	EYE	HAIR	HEIGHT	WEIGHT	EDUCATION/ OCCUPATION	BLOOD ENV	TYPE
AS01	Caucasian Scandinavian	Anonymous Blue/Grey	Brown	Brown	170/5-9	75/145	Graphic Designer	B-	+
AS02	Caucasian French Norwegian	Anonymous Brown	Brown	Brown	170/5-9	75/145	Actor	B+	+
AS03	Caucasian Scandinavian	Anonymous Green/Grey Brown	Brown	Brown	170/5-9	75/145	Accountant	B-	+
AS04	Caucasian American	Anonymous Brown	Dark Brown	Brown	170/5-9	74/135	College Student	A+	+
AS05	Caucasian Scandinavian	Anonymous Blue	Blue	Blond	180/5-10	78/145	MS Student (Law)	A+	+
AS06	Caucasian Scandinavian	Anonymous Blue/Green	Brown	Brown	180/5-10	80/176	Account Manager	B+	+
AS07	Hispanic Panamanian	Anonymous Brown	Black	Black	170/5-9	70/134	Traffic Surveyor	A+	+
AS08	Caucasian American	Anonymous Brown	Black	Black	170/5-10	75/145	A.F./Assistant	A+	+

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HOME PRIVATE CLINICS ABOUT US

1 Donor Search 2 Donor details 3 Donor 4 Login 5 Delivery 6 Submit

Your account of 475 has been deducted

**STIG**

**Background**  
 Type: Anonymous  
 Race: Caucasian  
 Ethnicity: Scandinavian  
 Eye Color: Blue/Teal  
 Hair Color: Brown  
 Height: 170 cm/5-9 ft  
 Weight: 67 kg/145 lbs  
 Education: Ms Student  
 Blood Type: B+

**Background**  
 Registered: Yes  
 Pregnancy: Qualified  
 Available: Qualified


**Check pregnancy limits**  
 Donor country: Denmark  
 Donor ID: 1000000000

**Check usage**

Check usage	Quality	HLA	Standard	Price	Delivery	Registration
100 - 100 unselected	100% B+	HLA B*	100 B+	100 B+	100 B+	100 B+
100 - 100 unselected	100% B+	HLA B*	100 B+	100 B+	100 B+	100 B+
100 - 100 unselected	100% B+	HLA B*	100 B+	100 B+	100 B+	100 B+
100 - 100 unselected	100% B+	HLA B*	100 B+	100 B+	100 B+	100 B+
100 - 100 unselected	100% B+	HLA B*	100 B+	100 B+	100 B+	100 B+

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**Cryos | Denmark**

HOME | PRODUCTS | CLINICS | ABOUT US

1. Donor Search 2. Donor Status 3. Bank 4. Login 5. Delivery 6. Bank

Your account: 27,476,767 DKK (incl. VAT)


Address: **Denmark** **Denmark** **Denmark**

8750, Hillmeads, WY16, G.A. Rd. (Hillmeads) 8750 220000 DKK (incl. VAT)

Europe by sea (100 EUR)	240.00 DKK
Local shipping	
Pick-up in UK (Manual) (1000 DKK)	2440.00 DKK
Pick-up shipping (incl. 100 EUR)	
Denmark by sea (100 EUR)	
Denmark shipping (incl. 1000 EUR)	
Denmark shipping (incl. 1000 EUR)	
Denmark shipping (incl. 1000 EUR)	
Denmark shipping (incl. 1000 EUR)	

120, Pleur + 00 8888 Aarhus C - Denmark | (+45) 86788888 | @cryosdenmark.com

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### Deposit service

- Before radiation or chemotherapy
- Before vasectomy
- In relation to fertility treatment (pater in absentia)
- Other reasons

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### What is a Sperm Bank?



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**A sperm bank:** "Storage of at least one sperm sample"

*Most fertility clinics have a sperm bank*

**Donor Sperm Bank:**  
"A bank who supply to other fertility clinics"

• **National Sperm Banks**  
National supply

• **International Sperm Bank:**  
International supply



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## What is an International Sperm Bank?

- **Many donors:** >100 and all races/ethnicities
- **Many Standards:** different national regulations
- **Large organisation:** service, sale & marketing, QC, QA, R&D, logistic and administration



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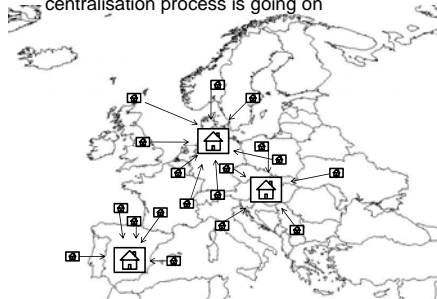
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Sperm Banks are getting bigger – a centralisation process is going on



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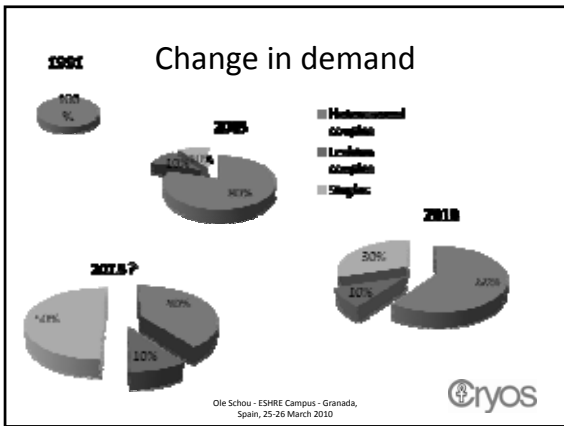
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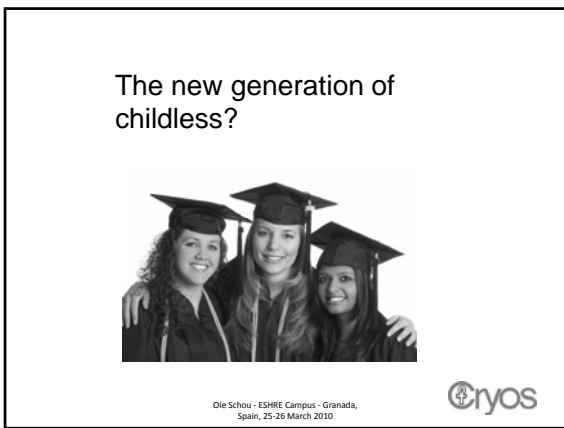
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### The "American" model

	Europe	USA
Characteristics	Few	Many
Extended Profile	No	Yes
Baby photo	No	Yes
Adult photo	No	Yes
Audio/Video	No	Yes
Staff Impression	No	Yes
Psychological profile	No	Yes
Handwritten message	No	Yes
Patient choice	No	Yes
Doctorate donors	No	Yes
Look-a-like	No	Yes

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## “My dream guy”



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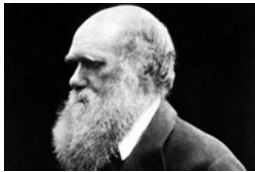
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## Designer-baby?



- or natural selection?



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## The Ethical Dilemma?



Restrictions are made in order to protect the child's interest or in order to meet other ethical or political goals. However, it seems that it is very complicated to attract semen donors even without restrictions, so any kind of restrictions will reduce the supply of donor semen. This is a true dilemma - but most often not taken care of by the responsible politicians.

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### How do we track pregnancies internationally?

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### National quotas per donor

Country	Offspring/Families
Australia	5
Belgium	6
Finland	5
Denmark	25
Ireland	3
Macedonia	2
The Netherlands	(25)
Switzerland	8
USA	1:32000
United Kingdom	10

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### National or worldwide quota?

Clinic Country = Patient's nationality	National quota*
Clinic Country ≠ Patient's nationality	Worldwide quota**

\*) The "national quota" is the maximum number of pregnancies per donor based on any kind of regulation in the form of laws, circular letters, or collective agreements from organizations in the country in question (if such limitations are known to Cryos). Siblings and abortions are not included.

\*\*) "Cryos" "worldwide quota" is a general limit of 1 pregnancy per 200,000 citizens in the patient's country. Siblings and abortions are not included. This quota only takes into consideration the nationality of the patient not the country in which the patient is treated.

**Example:**  
If a Finnish woman is treated in Finland, her pregnancy will count in the national quota which is 5 pregnancies (abortions and siblings not included) per donor. Her pregnancy will also count in the worldwide quota. If she is treated in the UK her pregnancy will neither have an influence on the Finnish nor the UK national quotas. However, it will influence the worldwide quota (1 pregnancy per 200,000 citizens in the patient's country) which in this case is 26 pregnancies (Finnish citizens 5,223,442 : 200,000 = 26 pregnancies).

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