



Marrow Donor  
Program Belgium  
Registry

**Marrow Donor Program Belgium - Registry**  
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# **Marrow Donor Program Belgium – Registry**

## **Annual statistics 2020 – 2021**

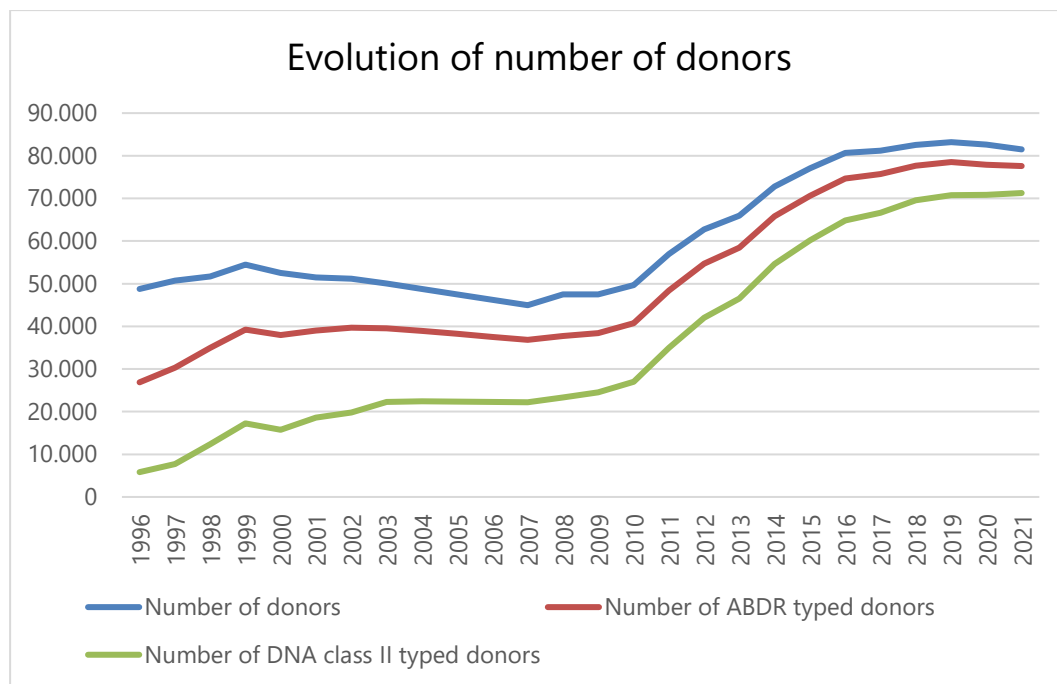
## Table of contents

1. Belgian donor database.....	3
1.1. Evolution of registered Belgian donors.....	3
1.2. Evolution of % ABDR – DNA class II typing registered Belgian donors.....	4
1.3. Gender and age of Belgian donor database .....	5
1.4. Donor recruitment action 2008-2013.....	6
1.5. Donor recruitment action 2014-2018.....	7
1.6. Donor recruitment action 2019-2023.....	7
1.7. Gender and age of new registered donors.....	8
1.7.1 Ratio female – male new donors.....	8
1.7.2 Gender and age donors at registration.....	10
1.8. Effect of donor recruitment action.....	12
1.8.1 Belgian donors for Belgian patients.....	12
1.8.2 Belgian donors for international patients.....	13
2. Belgian cord database.....	15
2.1 Total CBU inventories listed in MDPB-R.....	15
3. Transplant activity Belgian patients .....	17
3.1 Number of registered Belgian patients .....	17
3.2 Patient age at registration in 2021 .....	18
3.3 Number of transplanted Belgian patients (HPC, Apheresis, HPC, Marrow, HPC, Cord Blood and double CBU). .....	19
3.4 Origin of international donors (HPC, Marrow and HPC, Apheresis) and HPC, Cord Blood for Belgian patients (1996-2021).....	20
4. Transplant activity international patients.....	22
4.1 Evolution of Belgian donors (HPC, Marrow and HPC, Apheresis) for international patients (1989-2021) .....	22
4.2 Distribution of harvests of Belgian donors (HPC, Marrow and HPC, Apheresis) for international patients (1989-2021).....	23
4.3 Number of shipped Belgian HPC, Cord Blood for international patients (1989-2021) .....	24
4.4 Distribution of Belgian HPC, Cord Blood for international patients (1989-2021).....	25
5. Evolution shipping rates HPC, Marrow, HPC, Apheresis and HPC, Cord Blood .....	26
5.1 Shipping rates 2019.....	26
5.2 Shipping rates 2020.....	26

# 1. Belgian donor database

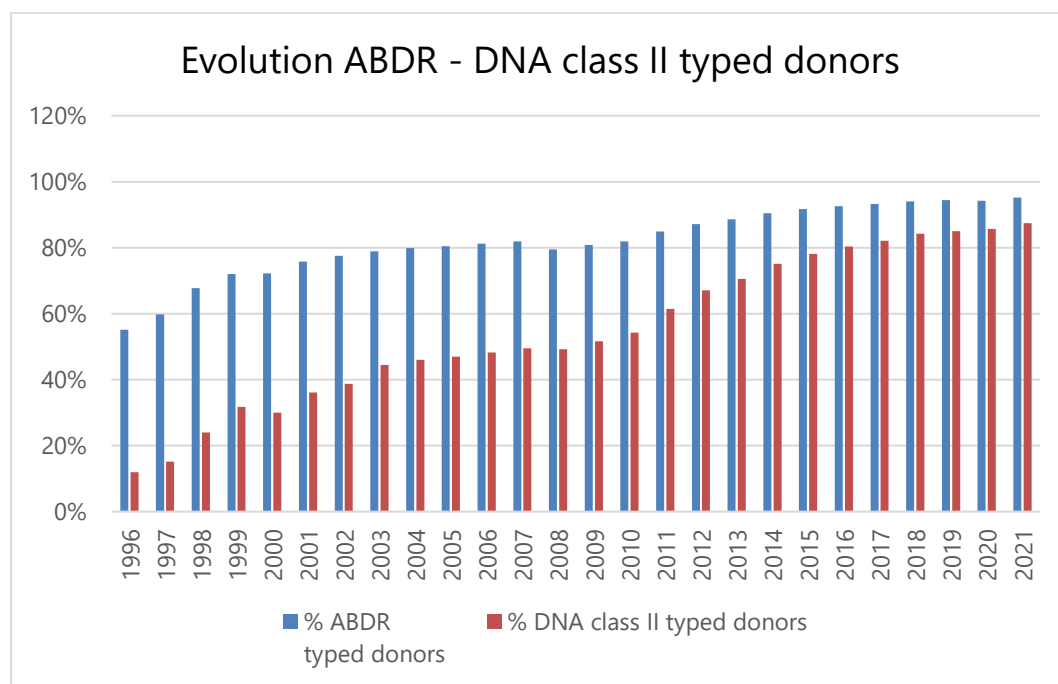
## 1.1. Evolution of registered Belgian donors

Year	Number of donors	Number of ABDR typed donors	Number of DNA class II typed donors
1996	48.780	26.882	5.825
1997	50.716	30.331	7.690
1998	51.669	34.977	12.378
1999	54.514	39.247	17.281
2000	52.523	37.932	15.779
2001	51.460	39.005	18.573
2002	51.212	39.695	19.815
2003	50.063	39.509	22.270
2004	48.749	38.951	22.437
2005	47.512	38.241	22.325
2006	46.197	37.505	22.302
2007	44.964	36.814	22.240
2008	47.477	37.727	23.348
2009	47.518	38.404	24.516
2010	49.709	40.738	26.990
2011	56.972	48.362	34.996
2012	62.732	54.695	42.054
2013	65.956	58.461	46.504
2014	72.775	65.828	54.645
2015	77.051	70.631	60.179
2016	80.636	74.661	64.812
2017	81.207	75.741	66.655
2018	82.530	77.642	69.529
2019	83.195	78.529	70.752
2020	82.650	77.907	70.850
2021	81.488	77.608	71.262



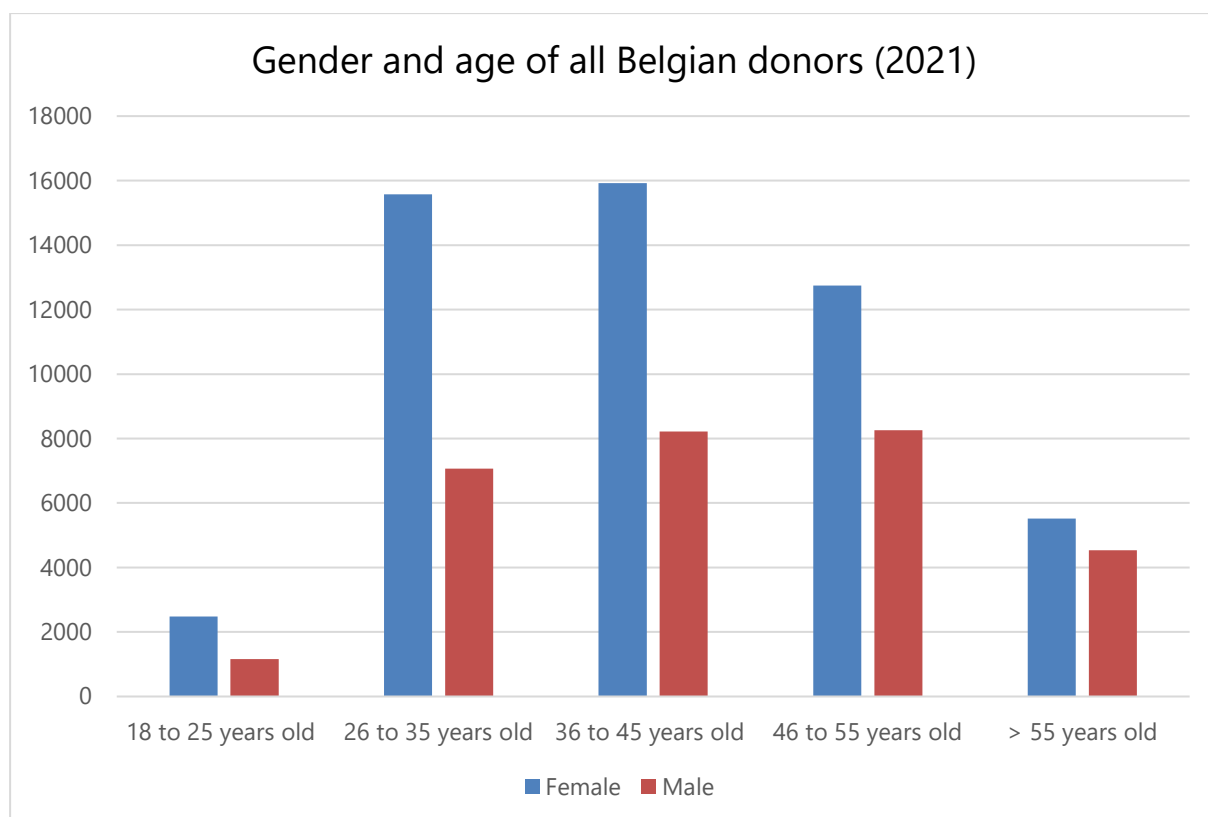
## 1.2 Evolution of % ABDR – DNA class II typing registered Belgian donors

Year	% ABDR typed donors	% DNA class II typed donors
1996	55,11%	11,94%
1997	59,81%	15,16%
1998	67,69%	23,96%
1999	71,99%	31,70%
2000	72,22%	30,04%
2001	75,80%	36,09%
2002	77,51%	38,69%
2003	78,92%	44,48%
2004	79,90%	46,03%
2005	80,49%	46,99%
2006	81,18%	48,28%
2007	81,87%	49,46%
2008	79,46%	49,18%
2009	80,82%	51,59%
2010	81,95%	54,30%
2011	84,89%	61,43%
2012	87,19%	67,04%
2013	88,64%	70,51%
2014	90,45%	75,09%
2015	91,67%	78,10%
2016	92,59%	80,38%
2017	93,27%	82,08%
2018	94,08%	84,25%
2019	94,39%	85,04%
2020	94,26%	85,72%



### 1.3 Gender and age of Belgian donor database

Age	Female	Male	Total
18 to 25 years old	2.483	1.158	3.641
26 to 35 years old	15.579	7.067	22.646
36 to 45 years old	15.919	8.223	24.142
46 to 55 years old	12.748	8.259	21.007
> 55 years old	5.515	4.537	10.052
Unknown	0	0	0
<b>Total</b>	<b>52.244</b>	<b>29.244</b>	<b>81.488</b>



#### 1.4 Donor recruitment action 2008-2013

2008-2013	Registered donors	Financed by RIZIV-MDPB-R	Quota *	Not financed
RKVL	15.000	4.157	4.141	10.843
GOD (Clin. Mont-God)	276	276	314	0
SJB (St. Jan Bruges)	522	520	518	2
SFS	4.599	4.566	4.548	33
VUB (UZ Brussels)	1.031	481	479	550
<b>TOTAL</b>	<b>21.428</b>	<b>10.000</b>	<b>10.000</b>	<b>11.428</b>

(\*) Quota not used have been re-allocated to other donor centers.

4.217 donors have been registered without financing between the 2 donor recruitment actions (4.114 RKVL, 3 Clin. Mont-God, 63 SFS, 37 VUB).

## 1.5 Donor recruitment action 2014-2018

Quota 2014-2018:

Quota	RIZIV/ INAMI	MDPB- R	Extra 2016 MDPB- R	Extra 2017 MDPB -R	TOTAL
RKVL	6.423	4.588	1.286	642	12.939
GOD (Clin. Mont-God)	172	123	34	17	346
SJB (St. Jan Bruges)	176	126	35	18	355
SFS	2.867	2.048	573	287	5.775
VUB (UZ Brussels)	362	259	72	36	729
<b>TOTAL</b>	<b>10.000</b>	<b>7.144</b>	<b>2.000</b>	<b>1.000</b>	<b>20.144</b>

Second donor recruitment action:

2014-2018	Registered do- nors	Financed by RIZIV/INAMI- MDPB-R *	Quota	Quota ex- ceeded by
RKVL	22.026	12.939	12.939	9.087
GOD (Clin. Mont-God)	163	163	346	-183
SJB (St. Jan Bruges)	711	355	355	356
SFS	3.925	3.925	5.775	-1850
VUB (UZ Brussels)	1079	729	729	350
<b>TOTAL</b>	<b>27.904</b>	<b>18.111</b>	<b>20.144</b>	<b>7.760</b>

(\*) Quota exceeded financed by MDPB-R.

## 1.6 Donor recruitment action 2019-2023

Quota 2019-2023:

Quota	RIZIV
RKVL	6.752
GOD (Clin. Mont-God)	127
SJB (St. Jan Bruges)	238
SFS	2.563
VUB (UZ Brussels)	320
<b>TOTAL</b>	<b>10.000</b>

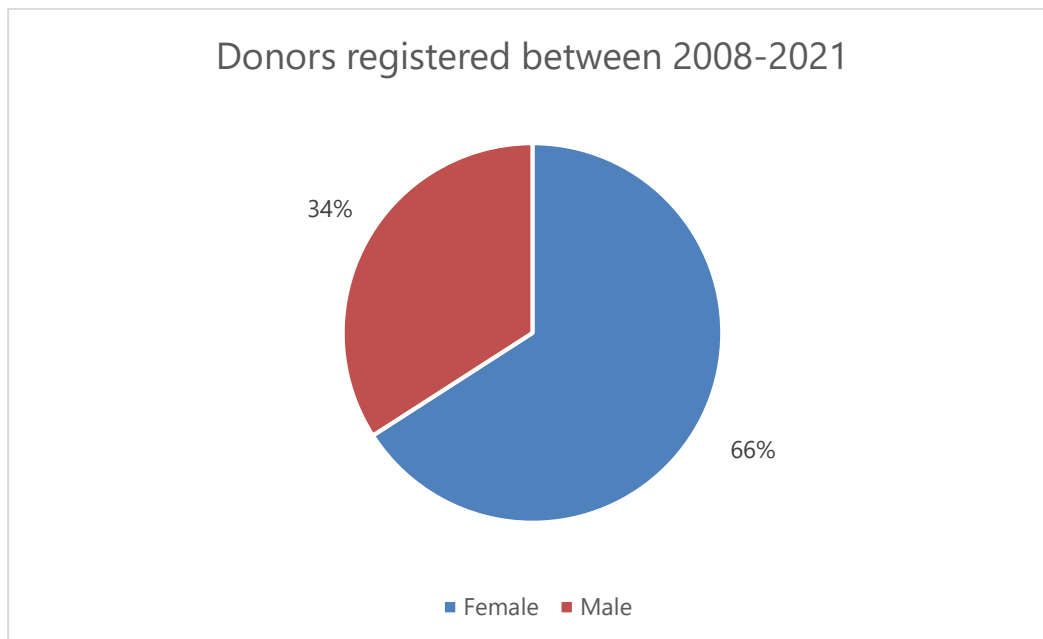
Status 31/12/2021:

2019-2023	Registered donors	Financed by RIZIV/INAMI
RKVL	3.602	3.602
GOD (Clin. Mont-God)	59	59
SJB (St. Jan Bruges)	48	48
SFS	2.505	2.221
VUB (UZ Brussels)	70	70
<b>TOTAL</b>	<b>6.284</b>	<b>6.000</b>

## 1.7 Gender and age of new registered donors

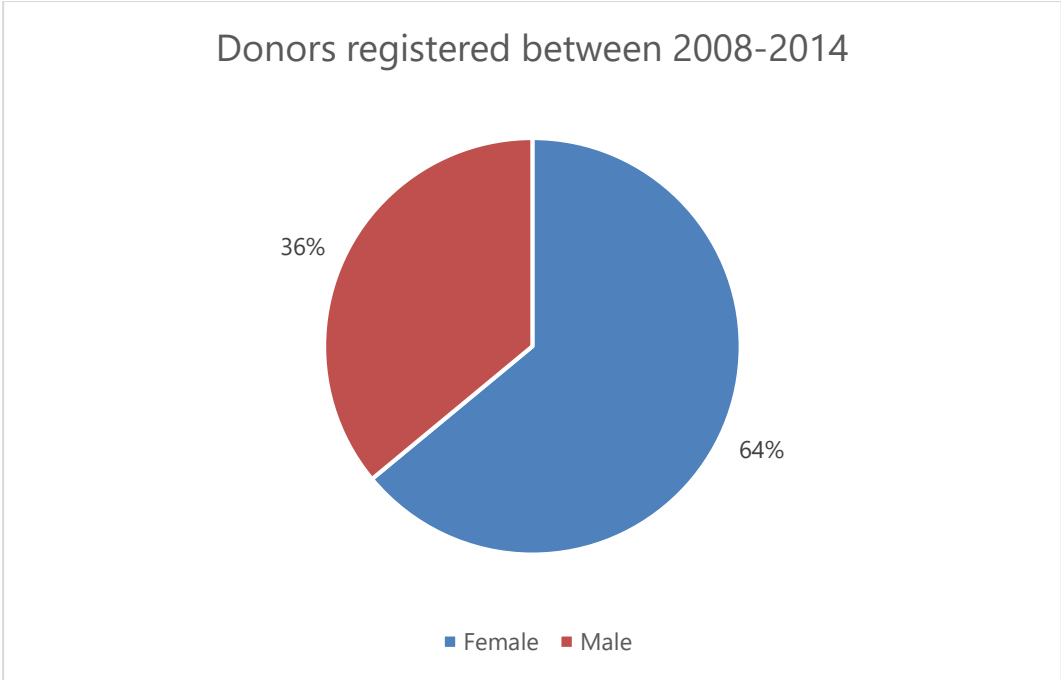
### 1.7.1 Ratio female – male new donors

All new donors registered since 1/09/2008.

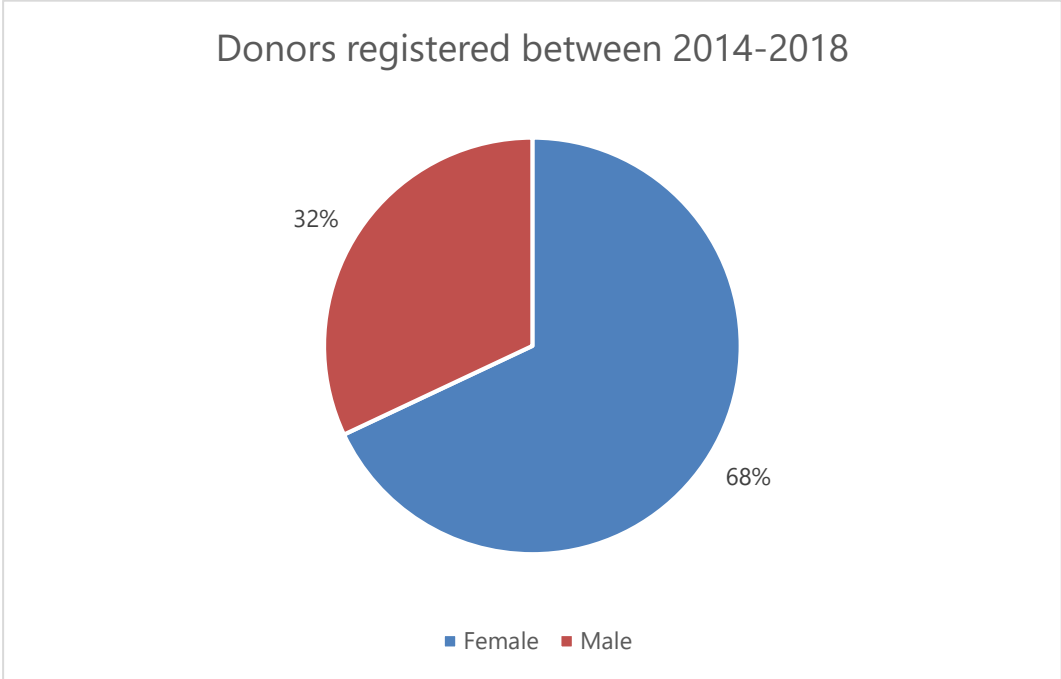




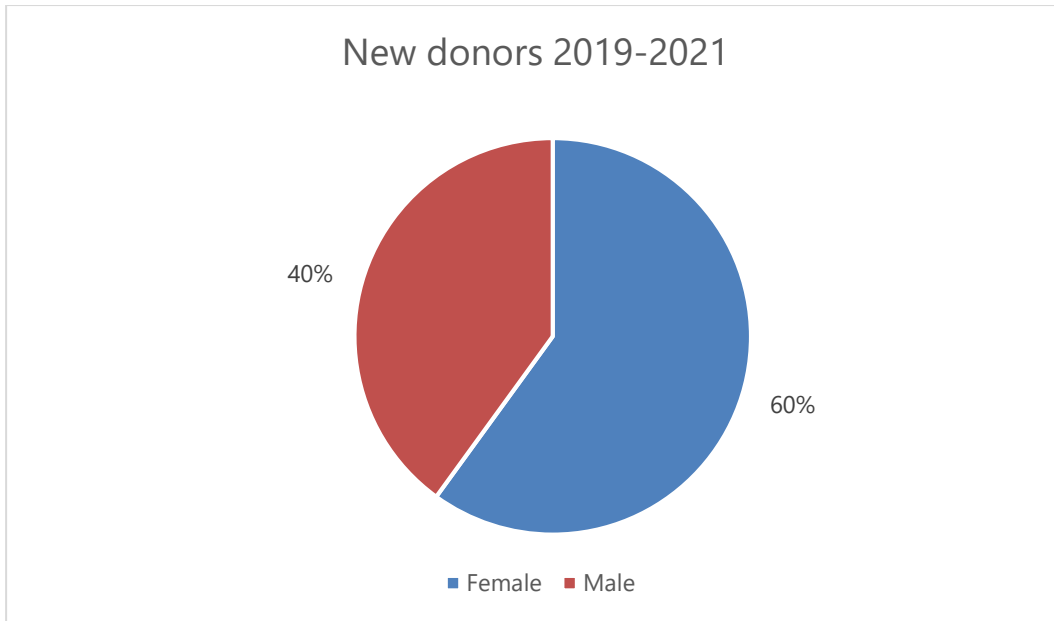
Donors registered between September 2008 – August 2013 (first donor recruitment action).



Donors registered between 2014-2018 (second donor recruitment action).

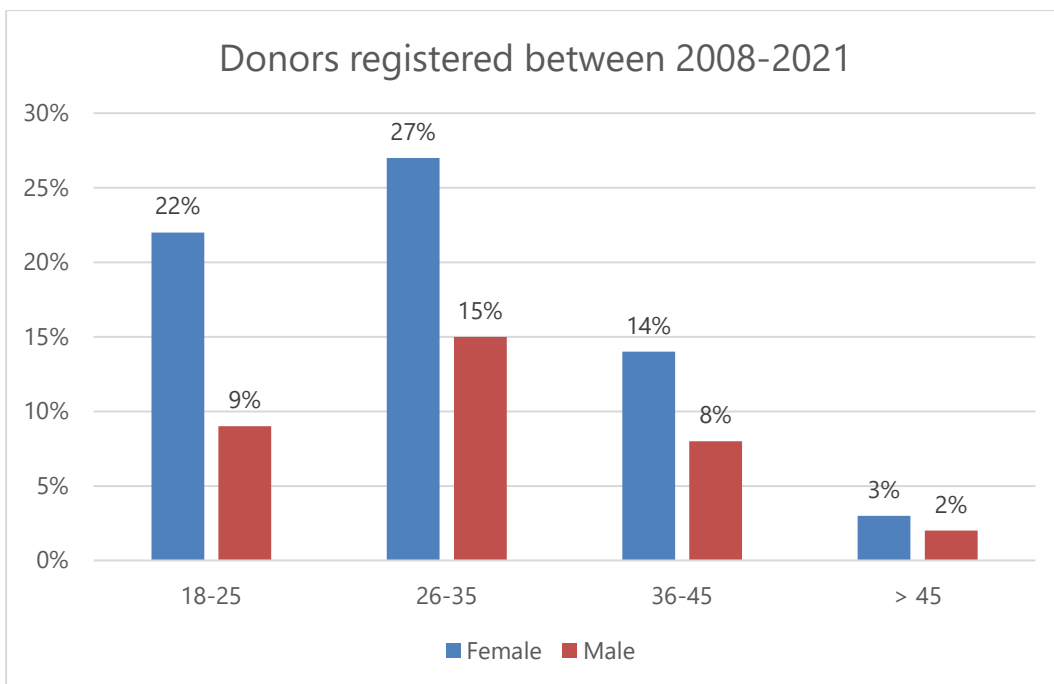


Donors registered since January 2019 (current donor recruitment action).

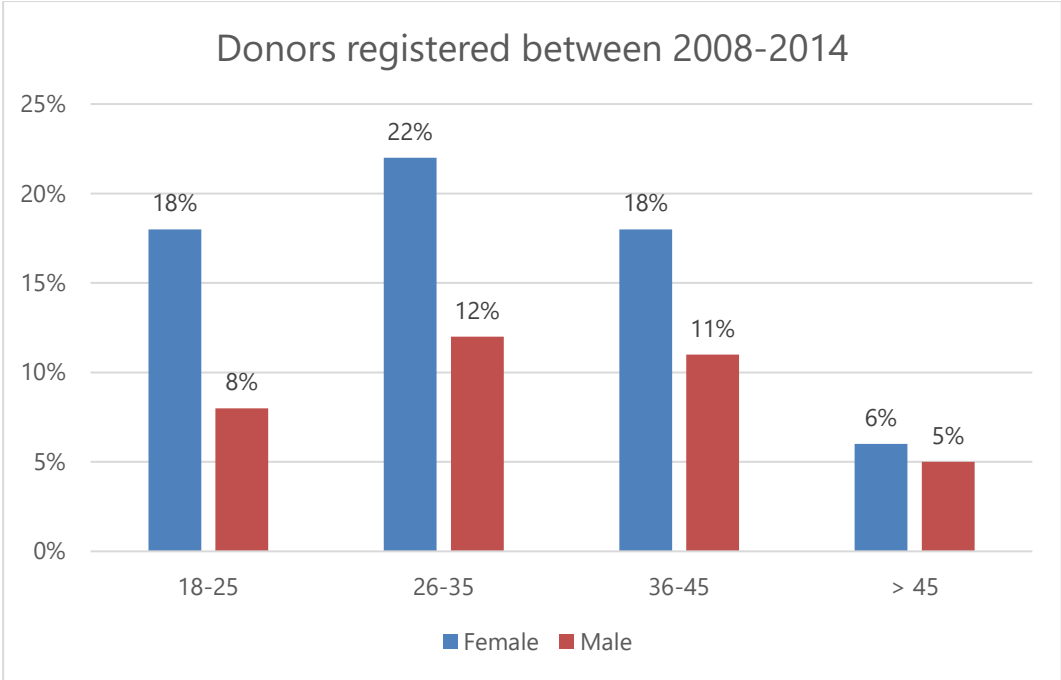


### 1.7.2 Gender and age donors at registration

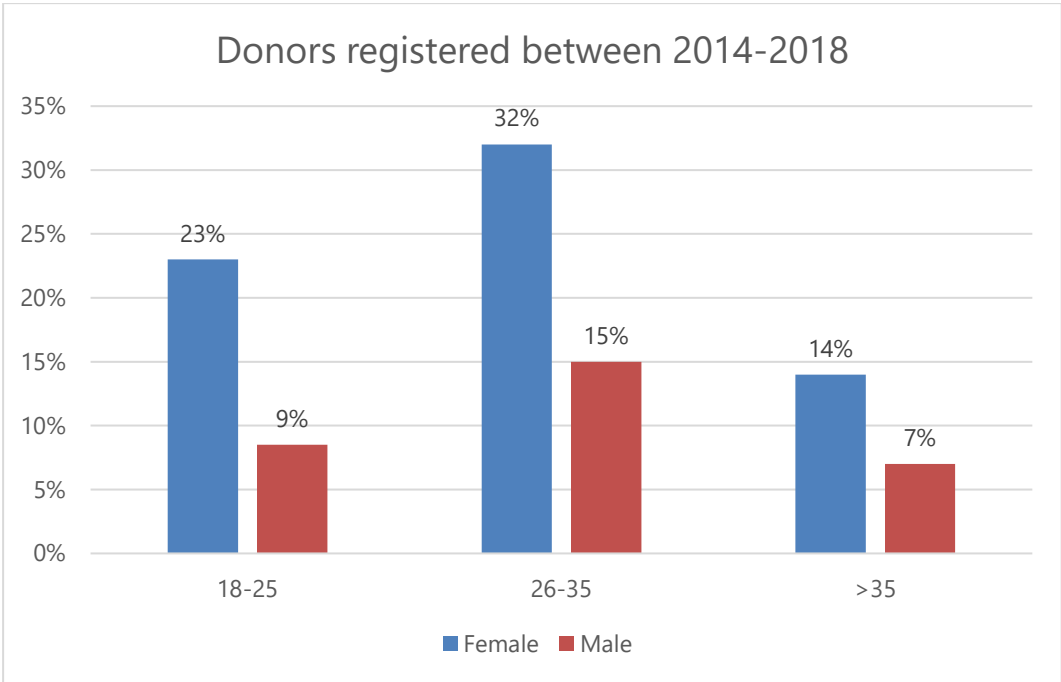
All new donors registered since 1/9/2008.



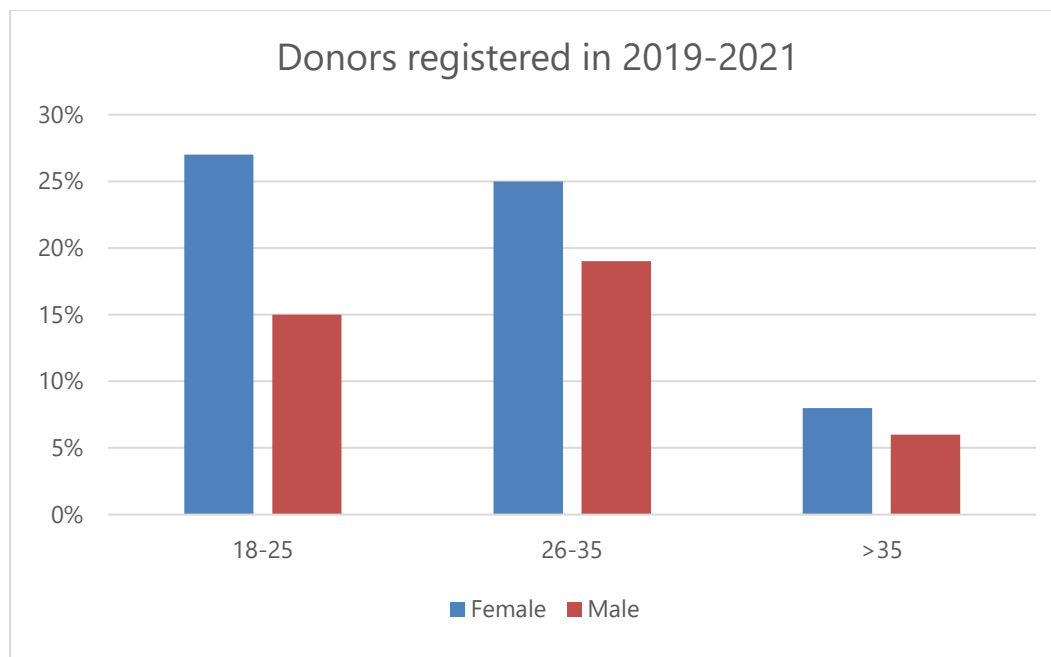
Donors registered between September 2008-August 2013 (first donor recruitment action).



Donors registered between 2014-2018 (second donor recruitment action):  
Change of upper age limit of donors at registration to 40.



Donors registered since January 2019 (current donor recruitment action).

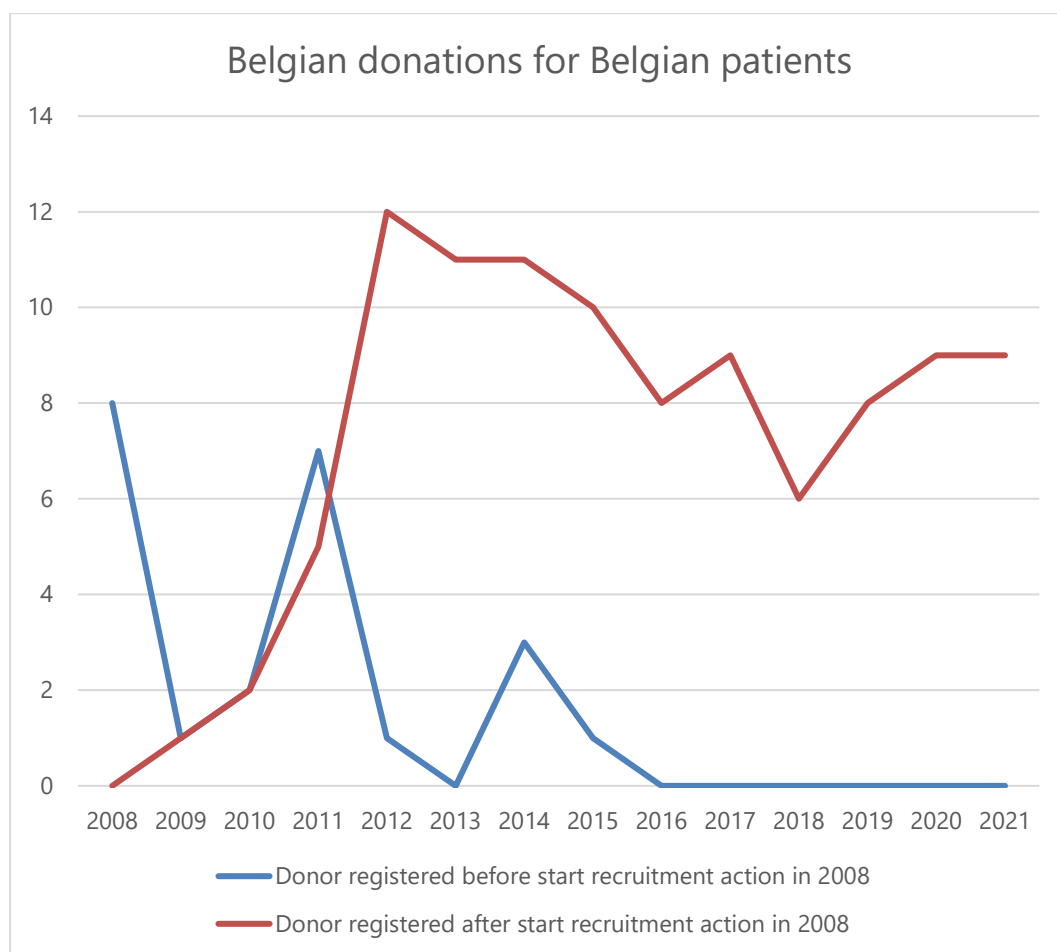


## 1.8 Effect of donor recruitment action

### 1.8.1 Belgian donors for Belgian patients

#### Belgian patients

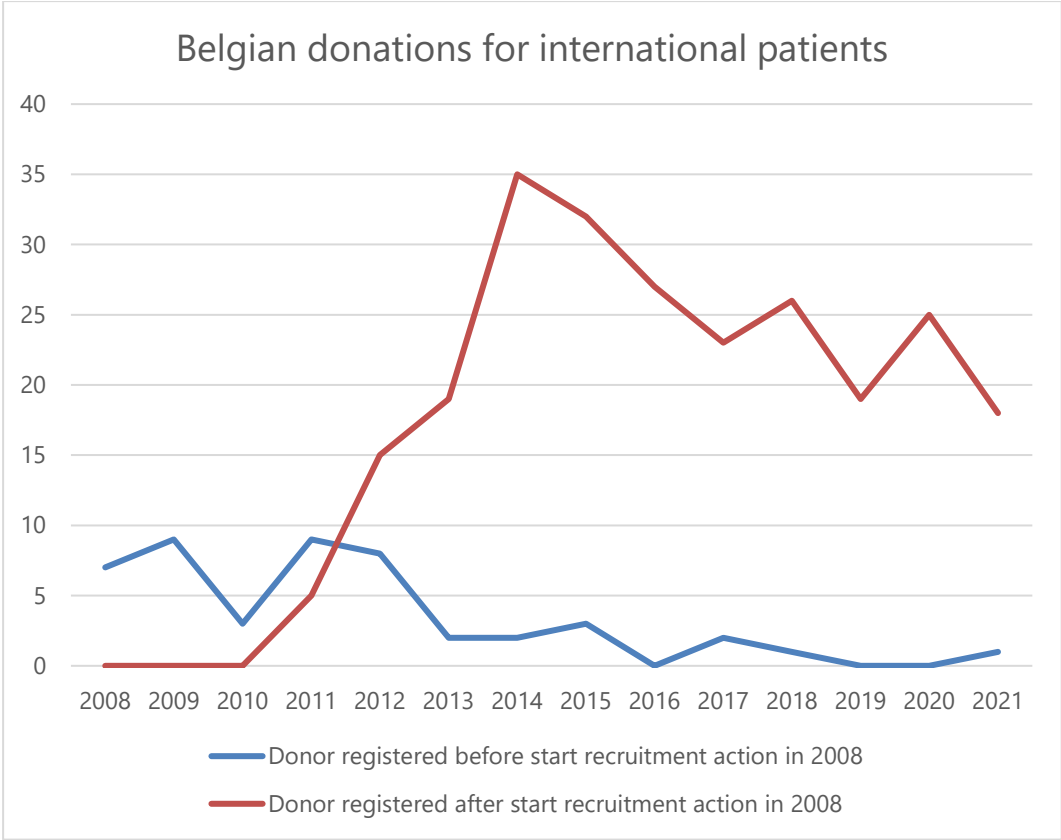
Year	Belgian donors	Donor registered before start recruitment action in 2008	Donor registered after start recruitment action in 2008
2008	8	8	0
2009	2	1	1
2010	4	2	2
2011	12	7	5
2012	13	1	12
2013	11	0	11
2014	14	3	11
2015	11	1	10
2016	8	0	8
2017	9	0	9
2018	6	0	6
2019	8	0	8
2020	9	0	9
2021	9	0	9



## 1.8.2 Belgian donors for international patients

### International patients

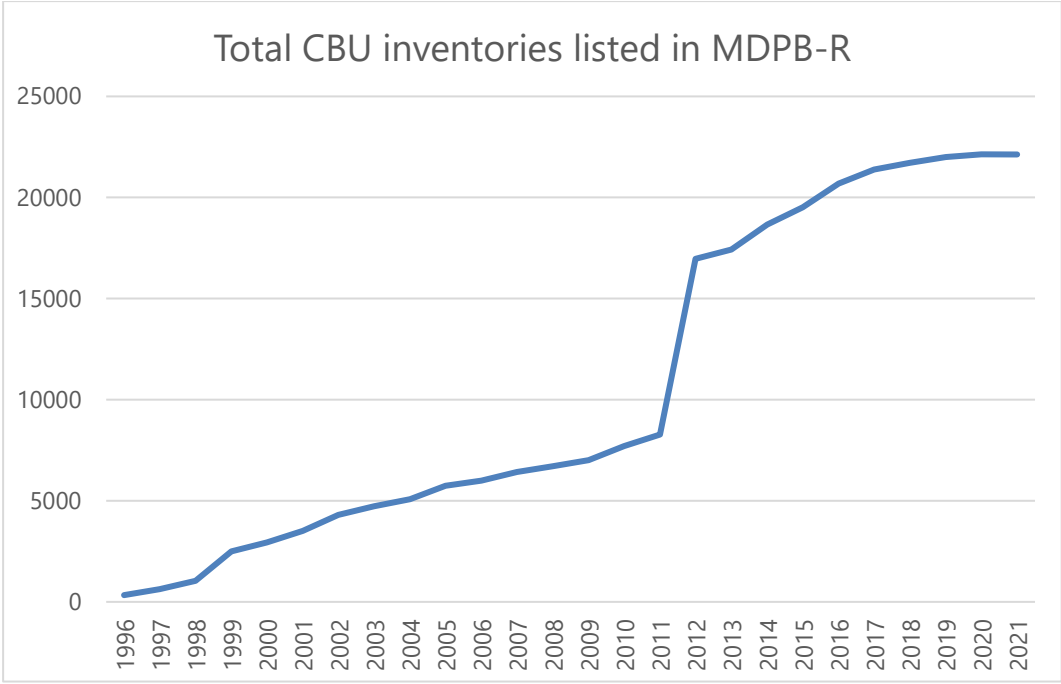
Year	Belgian donors	Donor registered before start recruitment action in 2008	Donor registered after start recruitment action in 2008
2008	7	7	0
2009	9	9	0
2010	3	3	0
2011	14	9	5
2012	23	8	15
2013	21	2	19
2014	37	2	35
2015	35	3	32
2016	27	0	27
2017	25	2	23
2018	27	1	26
2019	19	0	19
2020	25	0	25
2021	19	1	18



## 2. Belgian cord database

### 2.1 Total CBU inventories listed in MDPB-R

Year	Cord Blood Units
1996	334
1997	625
1998	1.041
1999	2.494
2000	2.936
2001	3.516
2002	4.309
2003	4.729
2004	5.078
2005	5.744
2006	5.991
2007	6.423
2008	6.705
2009	7.011
2010	7.709
2011	8.275
2012	16.960
2013	17.418
2014	18.662
2015	19.516
2016	20.693
2017	21.385
2018	21.717
2019	22.001
2020	22.135
2021	22.130

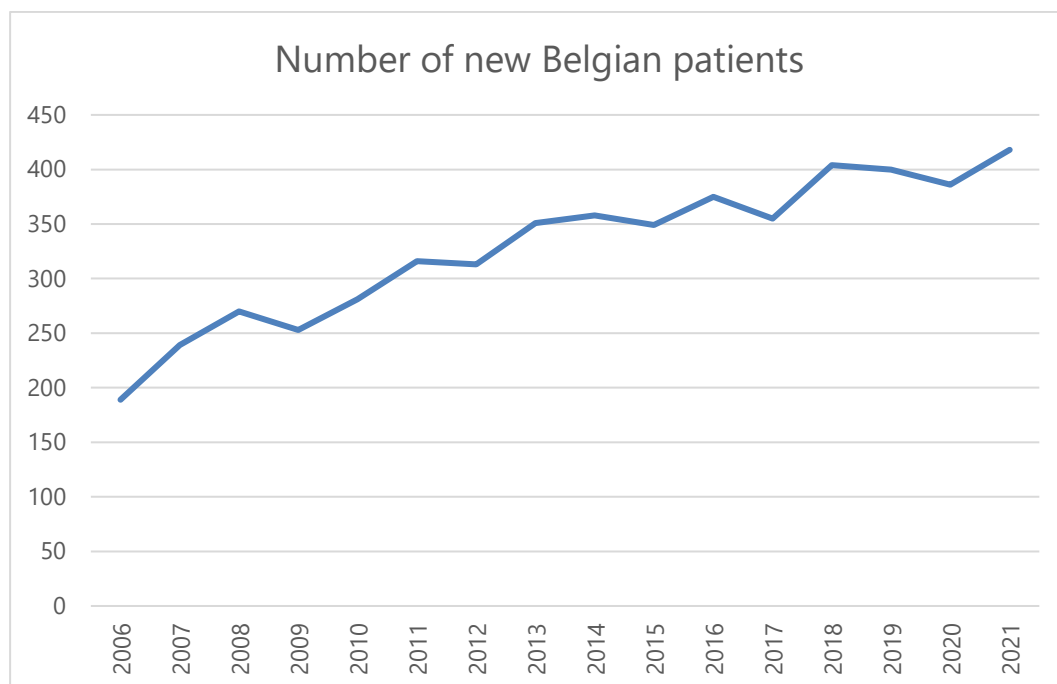




### 3. Transplant activity Belgian patients

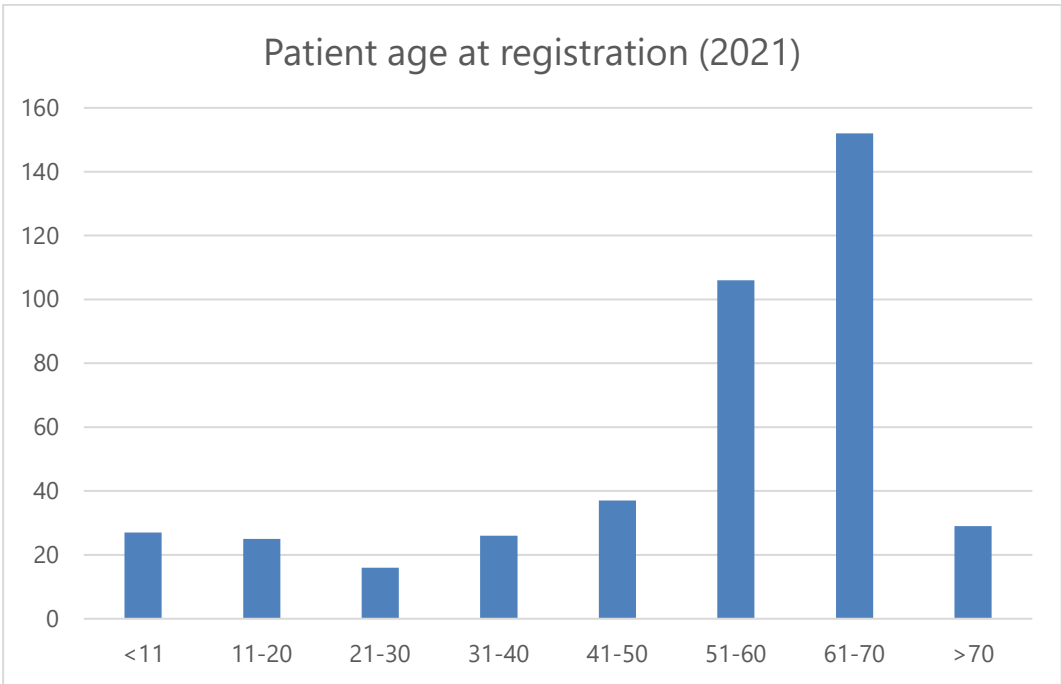
#### 3.1 Number of registered Belgian patients

Year	Number of new patients
2006	189
2007	239
2008	270
2009	253
2010	281
2011	316
2012	313
2013	351
2014	358
2015	349
2016	375
2017	355
2018	404
2019	400
2020	386
2021	418



### 3.2 Patient age at registration in 2021

Age at registration	Number of patients
<11	27
11-20	25
21-30	16
31-40	26
41-50	37
51-60	106
61-70	152
>70	29



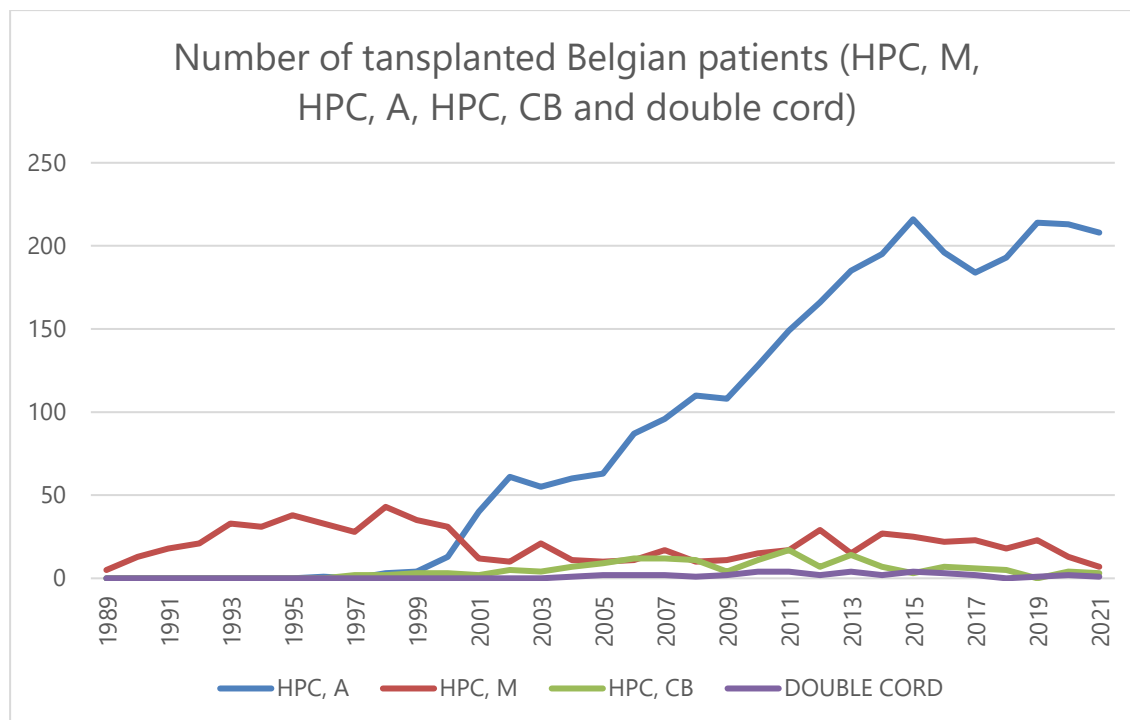
### 3.3 Number of transplanted Belgian patients (HPC, Apheresis, HPC, Marrow, HPC, Cord Blood and double CBU).

type of product	1989	1990	1991	1992	1993	1994	1995	1996	1997
HPC, A	0	0	0	0	0	0	0	1	0
HPC, M	5	13	18	21	33	31	38	33	28
HPC, CB	0	0	0	0	0	0	0	0	2
DOUBLE CBU	0	0	0	0	0	0	0	0	0

type of product	1998	1999	2000	2001	2002	2003	2004	2005	2006
HPC, A	3	4	13	40	61	55	60	63	87
HPC, M	43	35	31	12	10	21	11	10	11
HPC, CB	2	3	3	2	5	4	7	9	12
DOUBLE CBU	0	0	0	0	0	0	1	2	2

type of product	2007	2008	2009	2010	2011	2012	2013	2014	2015
HPC, A	96	110	108	128	149	166	185	195	216
HPC, M	17	10	11	15	17	29	15	27	25
HPC, CB	12	11	4	11	17	7	14	7	3
DOUBLE CBU	2	1	2	4	4	2	4	2	4

type of product	2016	2017	2018	2019	2020	2021
HPC, A	196	184	193	214	213	208
HPC, M	22	23	18	23	13	7
HPC, CB	7	6	5	0	4	3
DOUBLE CBU	3	2	0	1	2	1



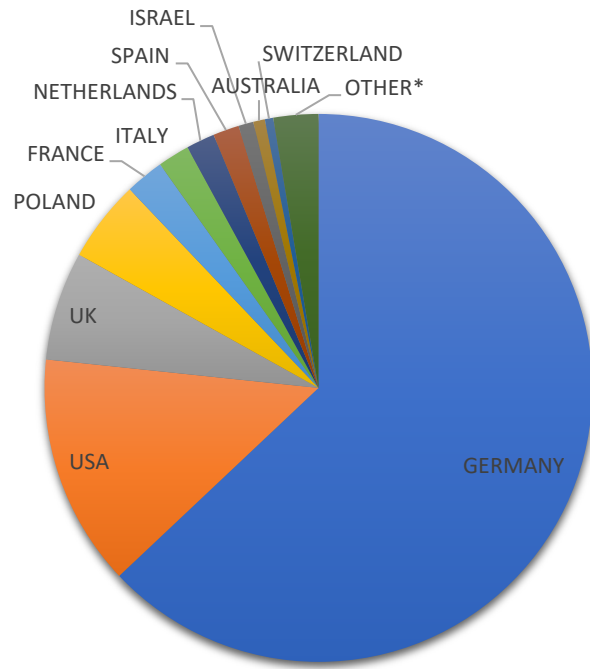
### 3.4 Origin of international donors (HPC, Marrow and HPC, Apheresis) and HPC, Cord Blood for Belgian patients (1996-2021)

#### 1996-2021

Country	HPC, M + HPC, A HPC, CB
GERMANY	2.285
USA	497
UK	233
POLAND	175
FRANCE	83
ITALY	68
NETHERLANDS	61
SPAIN	56
ISRAEL	32
AUSTRALIA	25
SWITZERLAND	18
OTHER*	96

\* Sweden, Portugal, Austria, Canada, Finland, Cyprus, Denmark, Turkey, Argentina, Japan, Czech Republic, China, Taiwan, Brazil, Norway, Ireland, Armenia, Greece, Serbia, Croatia, Lithuania, Korea

### Origin of international donors (HPC, M + HPC, A) and HPC, CB for Belgian patients (1996-2021)



## 4. Transplant activity international patients

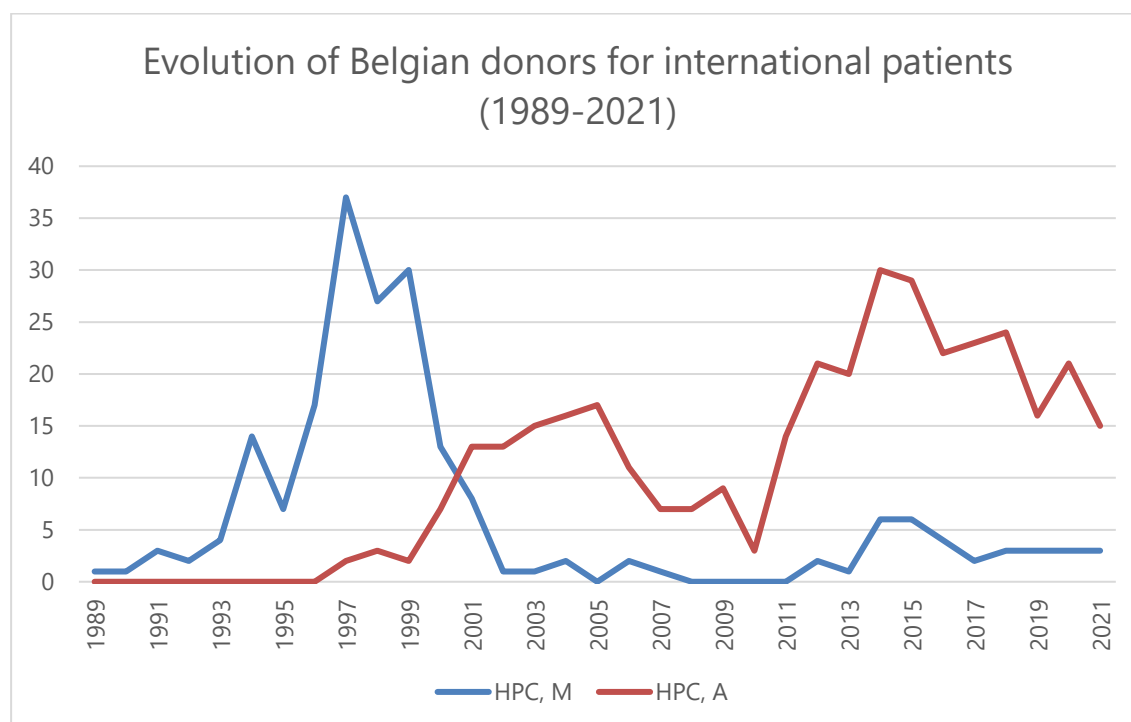
### 4.1 Evolution of Belgian donors (HPC, Marrow and HPC, Apheresis) for international patients (1989-2021)

Type of product	1989	1990	1991	1992	1993	1994	1995	1996	1997
HPC, M	1	1	3	2	4	14	7	17	37
HPC, A	0	0	0	0	0	0	0	0	2

Type of product	1998	1999	2000	2001	2002	2003	2004	2005	2006
HPC, M	27	30	13	8	1	1	2	0	2
HPC, A	3	2	7	13	13	15	16	17	11

Type of product	2007	2008	2009	2010	2011	2012	2013	2014	2015
HPC, M	1	0	0	0	0	2	1	7	6
HPC, A	7	7	9	3	14	21	20	30	29

Type of product	2016	2017	2018	2019	2020	2021
HPC, M	4	2	3	3	3	3
HPC, A	22	23	24	16	21	15

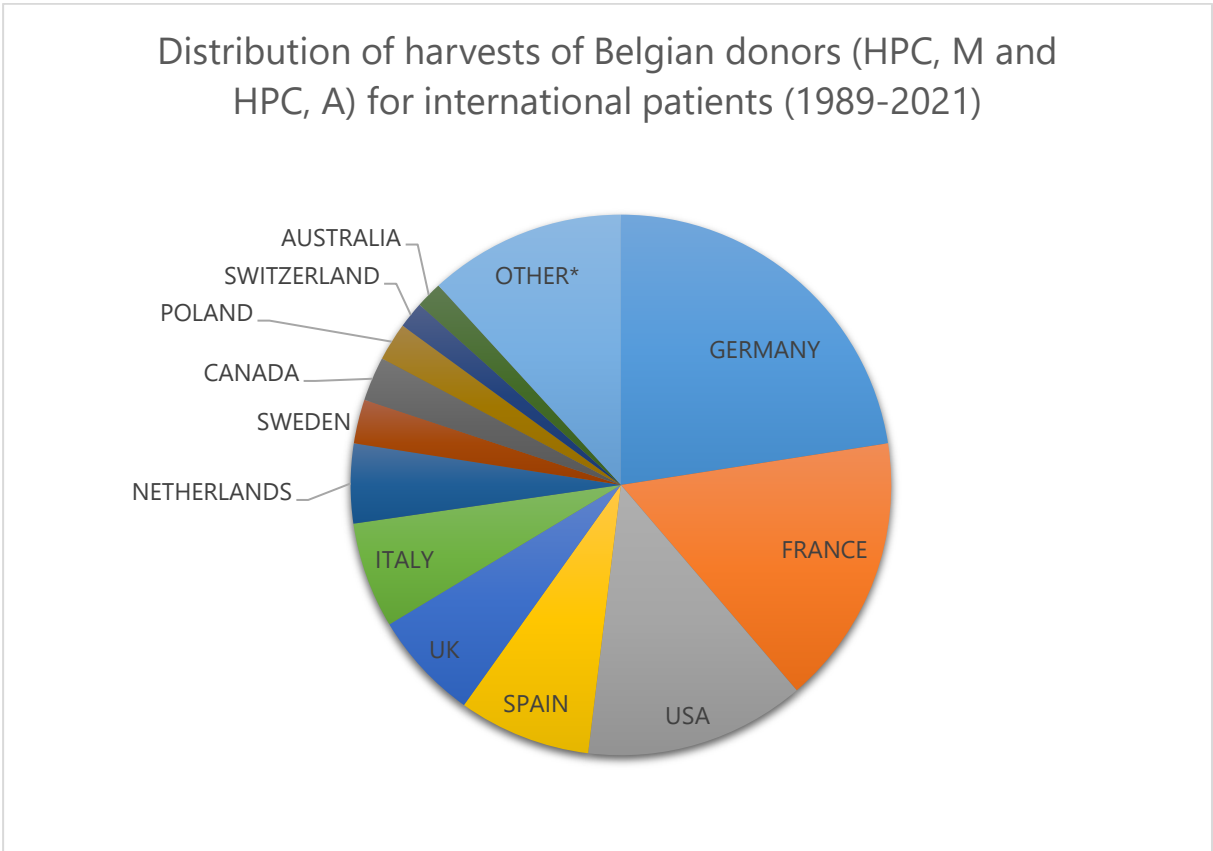


**4.2 Distribution of harvests of Belgian donors (HPC, Marrow and HPC, Apher-esis) for international patients (1989-2021)**

**1989-2021**

Country	HPC, M + HPC, A
GERMANY	128
FRANCE	92
USA	75
SPAIN	45
UK	37
ITALY	36
NETHERLANDS	27
SWEDEN	15
CANADA	15
POLAND	13
SWITZERLAND	9
AUSTRALIA	9
OTHER*	67

\*Austria, Czech Republic, Israel, Norway, Turkey, Portugal, Greece, Argentina, Denmark, South Africa, Slovenia, New Zealand, Ireland, Finland, Russia, Brazil, Hungary, Slovakia, Croatia



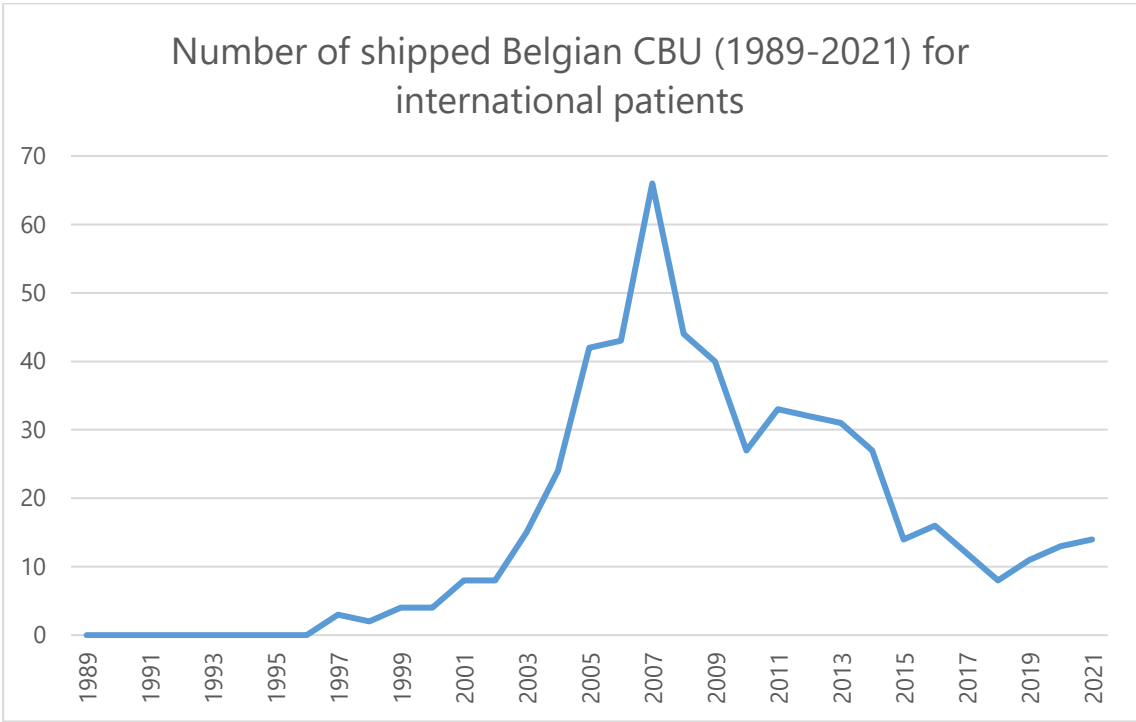
**4.3 Number of shipped Belgian HPC, Cord Blood for international patients (1989-2021)**

type of product	1989	1990	1991	1992	1993	1994	1995	1996	1997
HPC, C	0	0	0	0	0	0	0	0	3

type of product	1998	1999	2000	2001	2002	2003	2004	2005	2006
HPC, C	2	4	4	8	8	15	24	42	43

type of product	2007	2008	2009	2010	2011	2012	2013	2014	2015
HPC, C	66	44	40	27	33	32	31	27	14

type of product	2016	2017	2018	2019	2020	2021
HPC, C	16	12	8	11	13	14



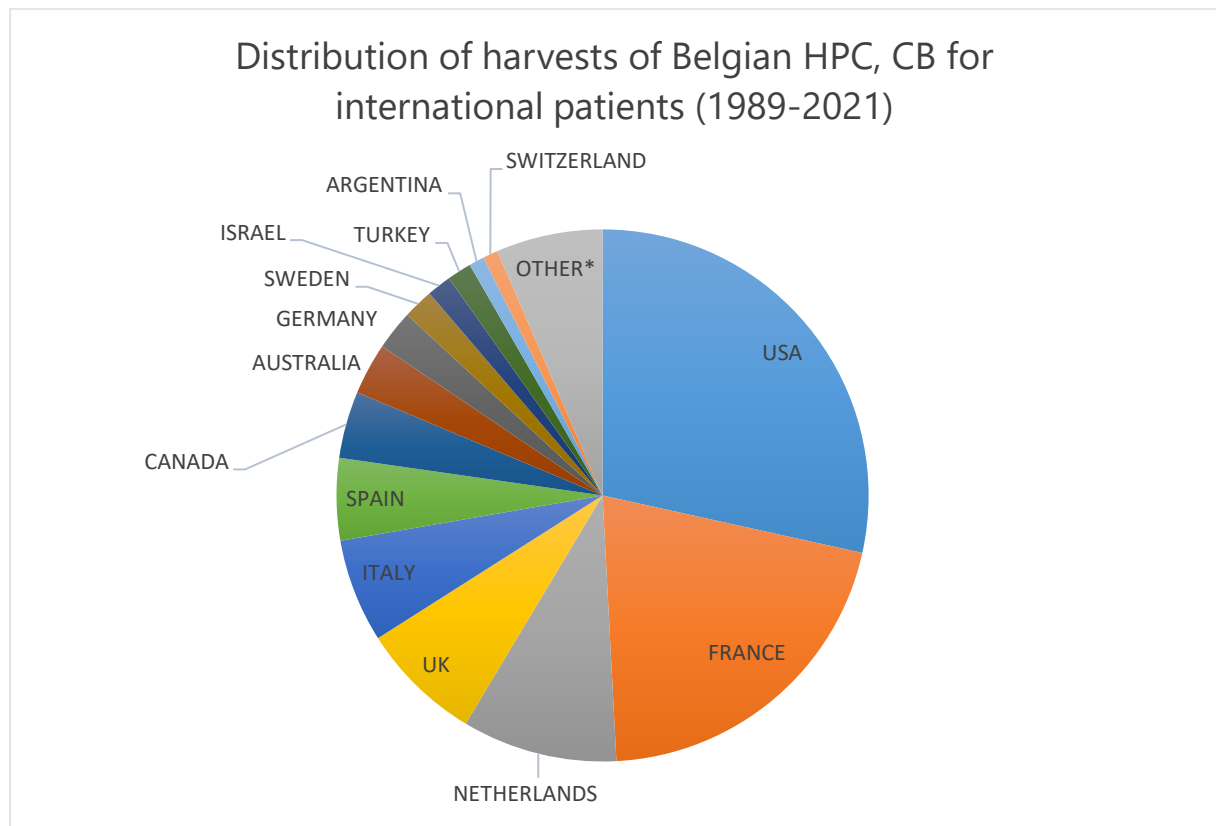


#### 4.4 Distribution of Belgian HPC, Cord Blood for international patients (1989-2021)

**1989-2021**

Country	HPC, CB
USA	154
FRANCE	112
NETHERLANDS	51
UK	40
ITALY	34
SPAIN	27
CANADA	22
AUSTRALIA	17
GERMANY	13
SWEDEN	10
ISRAEL	8
TURKEY	8
ARGENTINA	5
SWITZERLAND	5
OTHER*	35

\*Hungary, Greece, Denmark, India, Portugal, Austria, New Zealand, Norway, Poland, Chili, Jordan, Brazil, Croatia, Finland, Ireland, Saoudi Arabia, Russia



## 5. Evolution shipping rates HPC, Marrow, HPC, Apheresis and HPC, Cord Blood

### 5.1 Shipping rates 2019

MDPB-R	Shipping rate in relation to total shipped	Shipping rate in relation to own database	Products shipped by MDPB	Totally shipped products	Belgian donor/CBU database
	%	%			
HPC, Marrow	0,1	0	4	3.924	83.195
position stemcell registries	40/82	52/82			
HPC, Apheresis	0,14	0,03	23	16.406	83.195
position stemcell registries	39/82	41/82			
HPC, Cord	0,39	0,05	11	2.851	22.001
position stemcell registries	18/49	26/49			

*Global Trends Report WMDA 2019*

### 5.2 Shipping rates 2020

MDPB-R	Shipping rate in relation to total shipped	Shipping rate in relation to own database	Products shipped by MDPB	Totally shipped products	Belgian donor/CBU database
	%	%			
HPC, Marrow	0,11	0	3	2.787	82.650
position stemcell registries	37/80	41/80			
HPC, Apheresis	0,18	0,04	30	16.836	82.530
position stemcell registries	38/80	32/80			
HPC, Cord	0,47	0,06	13	2.750	22.135
position stemcell registries	16/49	22/49			

*Global Trends Report WMDA 2020*