



Marrow Donor
Program Belgium
Registry

Marrow Donor Program Belgium - Registry
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Marrow Donor Program Belgium – Registry

Annual statistics 2022

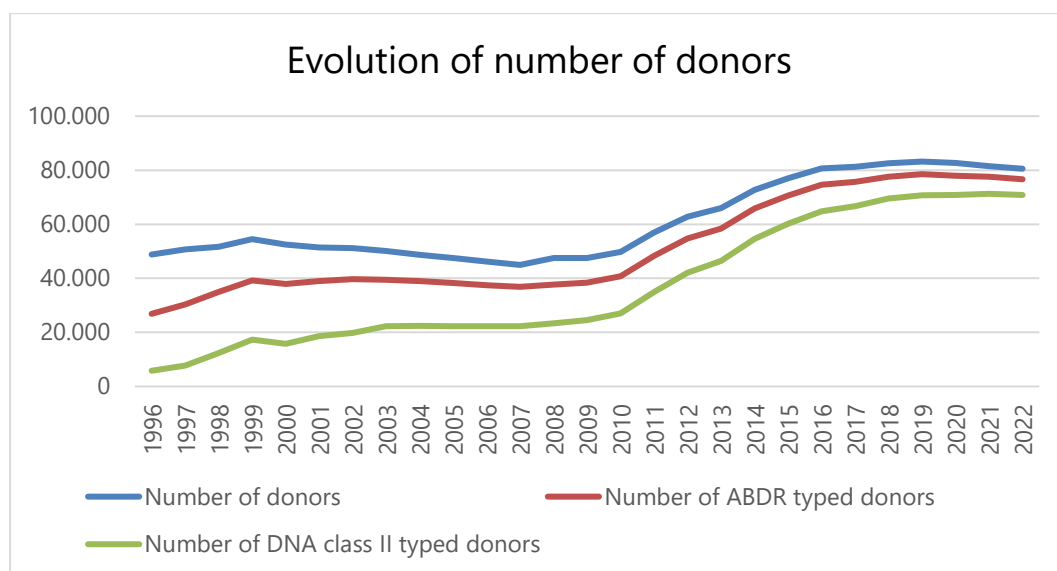
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1. Belgian donor database

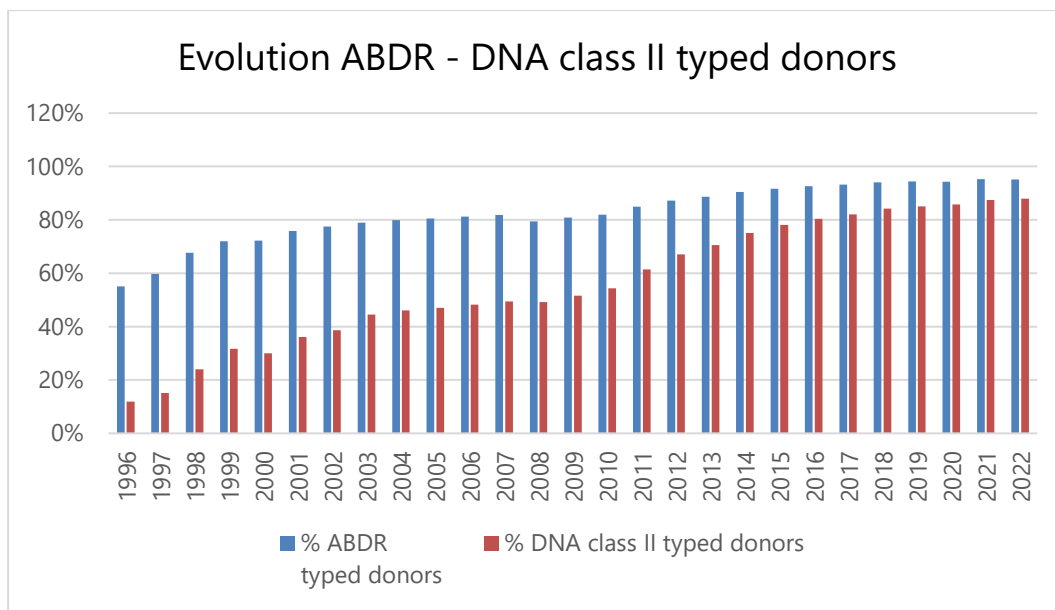
1.1. Evolution of registered Belgian donors

| 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 |
| 2022 | 80.573 | 76.631 | 70.840 |



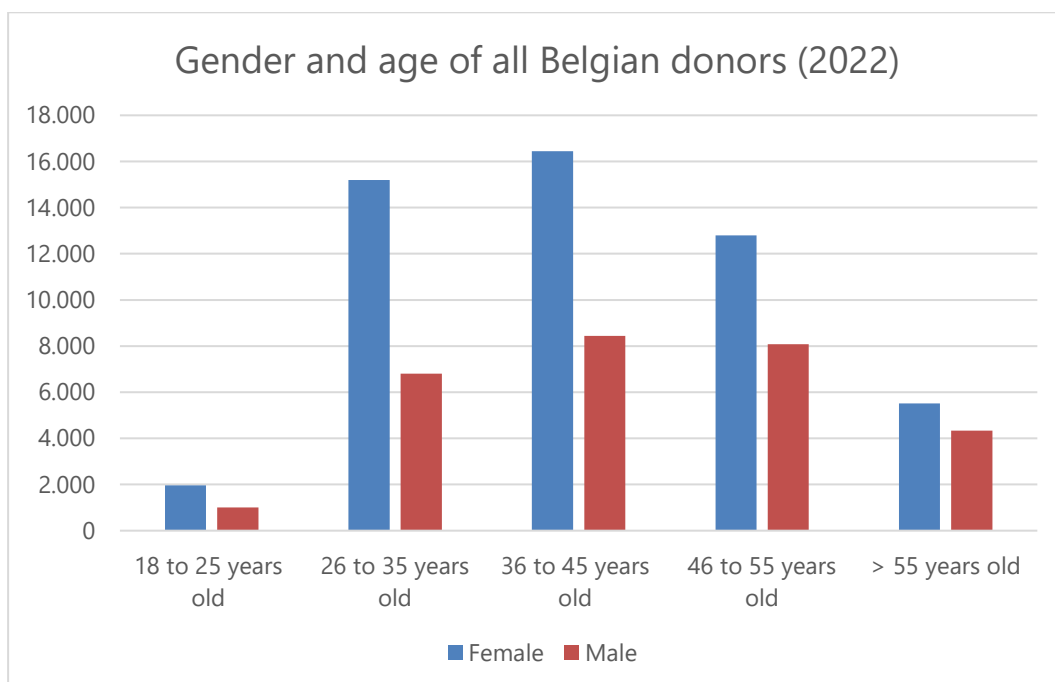
1.2 Evolution of % ABDR – DNA class II typing registered Belgian donors

| 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% |
| 2021 | 95,24% | 87,45% |
| 2022 | 95,11% | 87,92% |



1.3 Gender and age of Belgian donor database

| Age | Female | Male | Total |
|--------------------|---------------|---------------|---------------|
| 18 to 25 years old | 1.964 | 1.004 | 2.968 |
| 26 to 35 years old | 15.195 | 6.809 | 22.004 |
| 36 to 45 years old | 16.449 | 8.447 | 24.896 |
| 46 to 55 years old | 12.791 | 8.075 | 20.866 |
| > 55 years old | 5.510 | 4.329 | 9.839 |
| Unknown | 0 | 0 | 0 |
| Total | 51.909 | 28.664 | 80.573 |



1.4 Donor recruitment action 2008-2013

| 2008-2013 | Registered donors | Financed by RIZIV-MDPB-R | Quota * | Not financed |
|-------------------------------|-------------------|--------------------------|---------------|---------------|
| Rode Kruis Vlaanderen (RKV) | 15.000 | 4.157 | 4.141 | 10.843 |
| CHU UCL Namur – site | 276 | 276 | 314 | 0 |
| Godinne (GOD) | 522 | 520 | 518 | 2 |
| AZ Sint-Jan Brugge (SJB) | 4.599 | 4.566 | 4.548 | 33 |
| Croix-Rouge de Belgique (SFS) | 1.031 | 481 | 479 | 550 |
| UZ Brussel (VUB) | 21.428 | 10.000 | 10.000 | 11.428 |

(*) 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 | MDP B-R | Extra 2016 MDPB-R | Extra 2017 MDPB-R | TOTAL |
|-------------------------------|---------------|--------------|-------------------|-------------------|---------------|
| Rode Kruis Vlaanderen (RKV) | 6.423 | 4.588 | 1.286 | 642 | 12.939 |
| CHU UCL Namur – site | | | | | |
| Godinne (GOD) | 172 | 123 | 34 | 17 | 346 |
| AZ Sint-Jan Brugge (SJB) | 176 | 126 | 35 | 18 | 355 |
| Croix-Rouge de Belgique (SFS) | 2.867 | 2.048 | 573 | 287 | 5.775 |
| UZ Brussel (VUB) | 362 | 259 | 72 | 36 | 729 |
| TOTAL | 10.000 | 7.144 | 2.000 | 1.000 | 20.144 |

Second donor recruitment action:

| 2014-2018 | Registered donors | Financed by RIZIV/INAMI-MDPB-R * | Quota | Quota exceeded by |
|-------------------------------|-------------------|----------------------------------|---------------|-------------------|
| Rode Kruis Vlaanderen (RKV) | 22.026 | 12.939 | 12.939 | 9.087 |
| CHU UCL Namur – site | | | | |
| Godinne (GOD) | 163 | 163 | 346 | -183 |
| AZ Sint-Jan Brugge (SJB) | 711 | 355 | 355 | 356 |
| Croix-Rouge de Belgique (SFS) | 3.925 | 3.925 | 5.775 | -1850 |
| UZ Brussel (VUB) | 1079 | 729 | 729 | 350 |
| TOTAL | 27.904 | 18.111 | 20.144 | 7.760 |

(*) Quota exceeded financed by MDPB-R.

1.6 Donor recruitment action 2019-2023

Quota 2019-2023:

| Quota | RIZIV |
|---------------------------------------|---------------|
| Rode Kruis Vlaanderen (RKV) | 6.752 |
| CHU UCL Namur – site Godinne (GOD) | 127 |
| AZ Sint-Jan Brugge (SJB) | 238 |
| Croix-Rouge de Belgique (SFS) | 2.563 |
| UZ Brussel (VUB) | 320 |
| TOTAL | 10.000 |

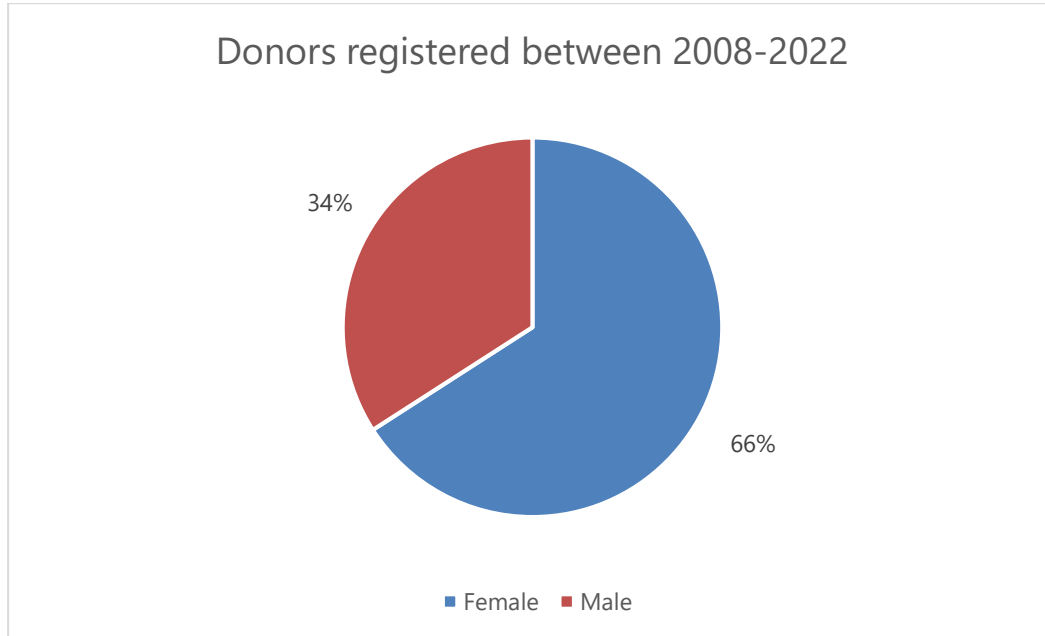
Status 31/12/2022:

| 2019-2023 | Registered do- nors | Financed by RIZIV/INAMI |
|---------------------------------------|------------------------|----------------------------|
| Rode Kruis Vlaanderen (RKV) | 4.245 | 4.245 |
| CHU UCL Namur – site Godinne (GOD) | 75 | 75 |
| AZ Sint-Jan Brugge (SJB) | 59 | 59 |
| Croix-Rouge de Belgique (SFS) | 3.421 | 2.563 |
| UZ Brussel (VUB) | 108 | 108 |
| TOTAL | 7.908 | 7.050 |

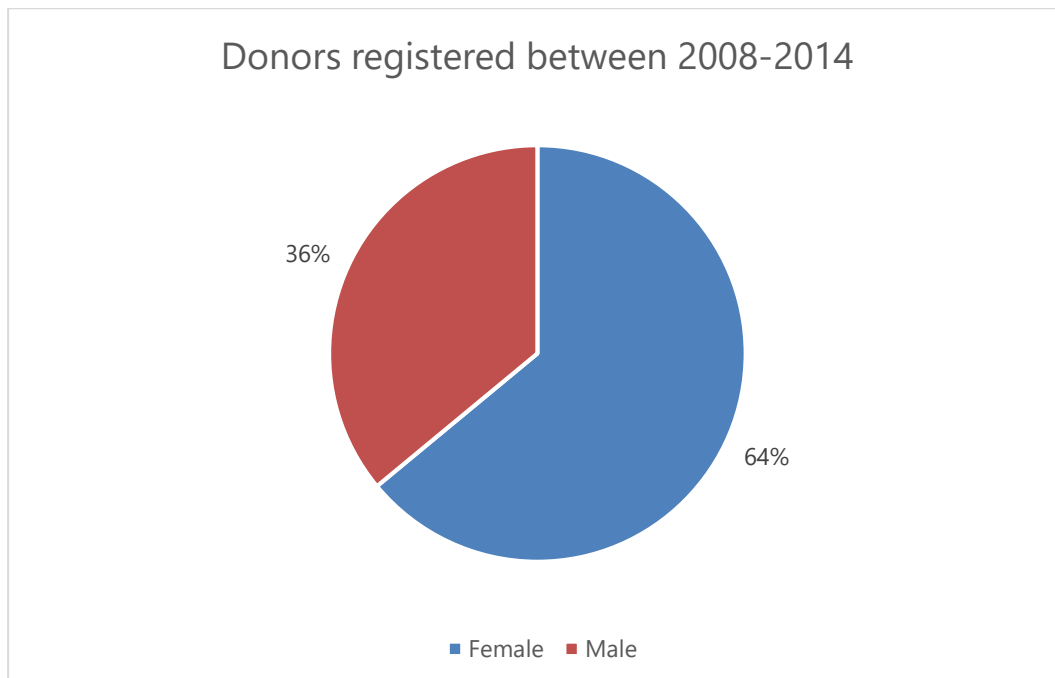
1.7 Gender and age of new registered donors

1.7.1 Ratio female – male new donors

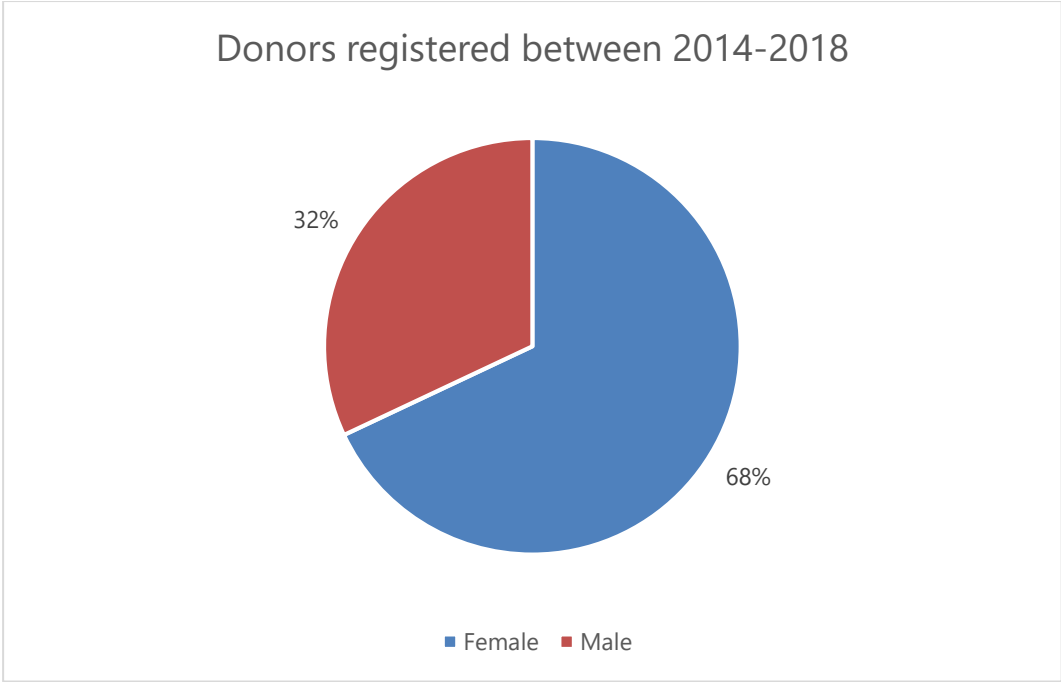
All new donors registered since 1/09/2008.



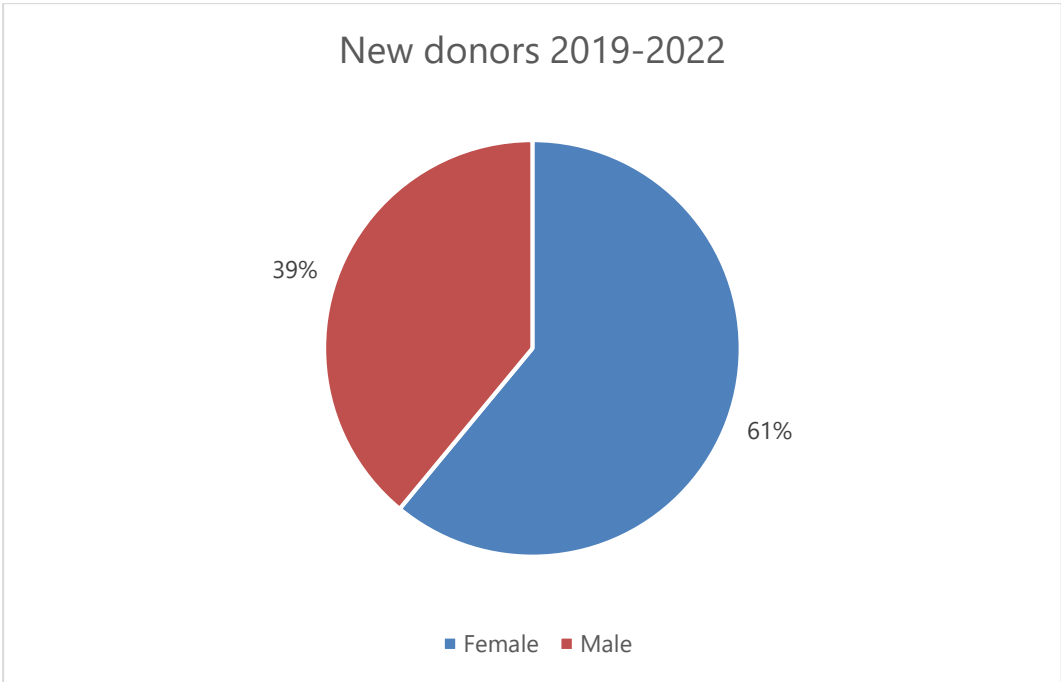
Donors registered between September 2008 – August 2013 (first donor recruitment action).



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

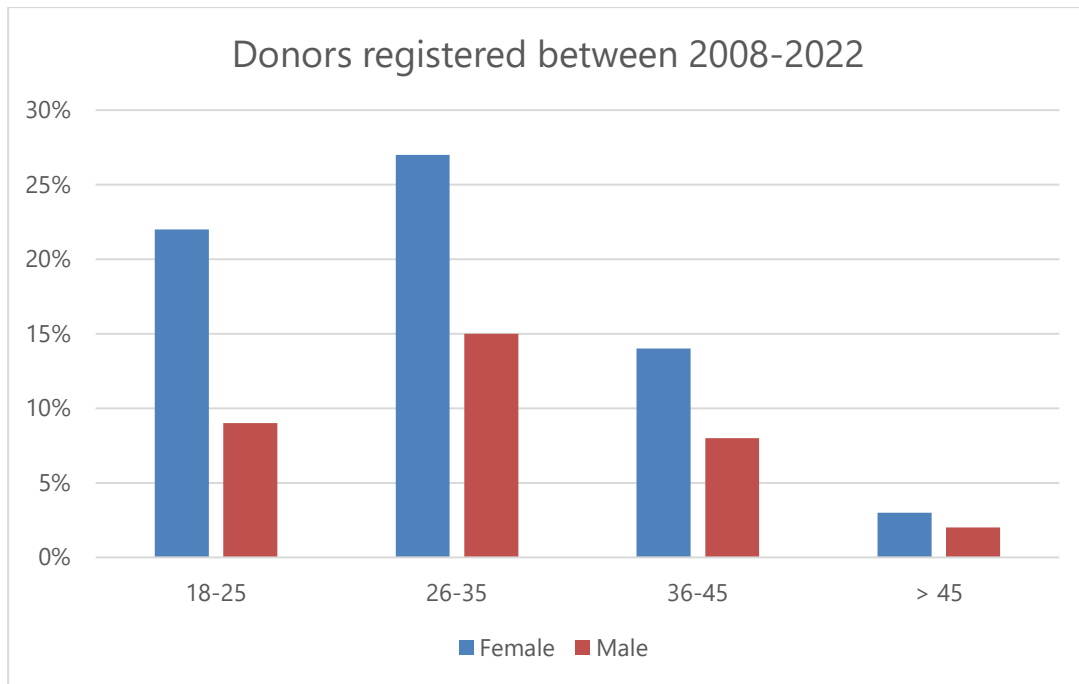


Donors registered since January 2019 (current donor recruitment action).

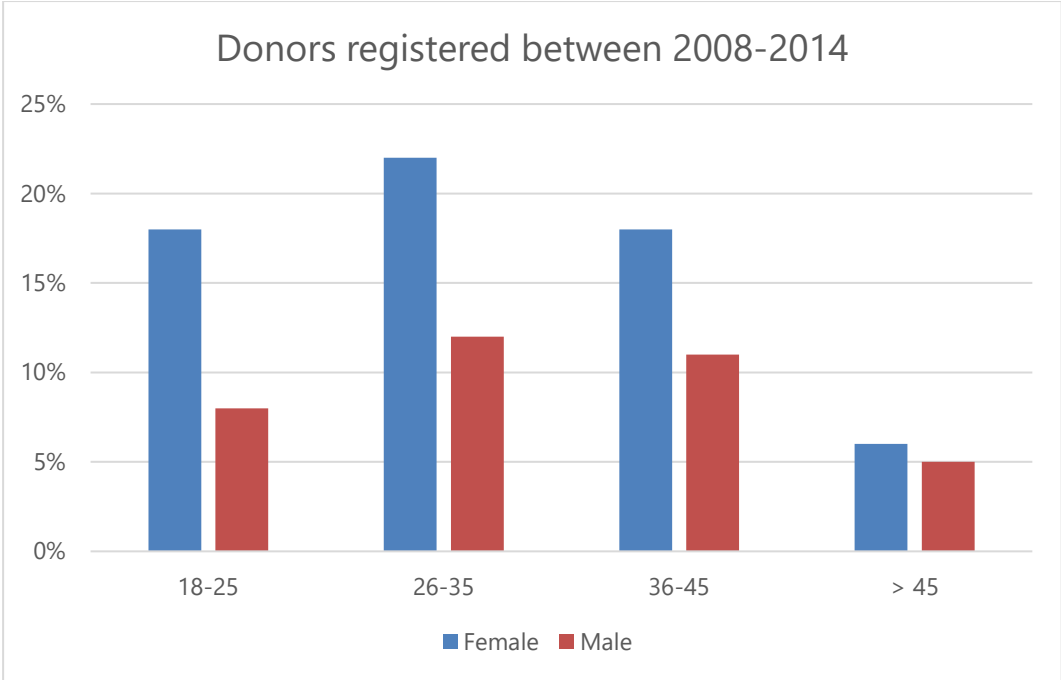


1.7.2 Gender and age donors at registration

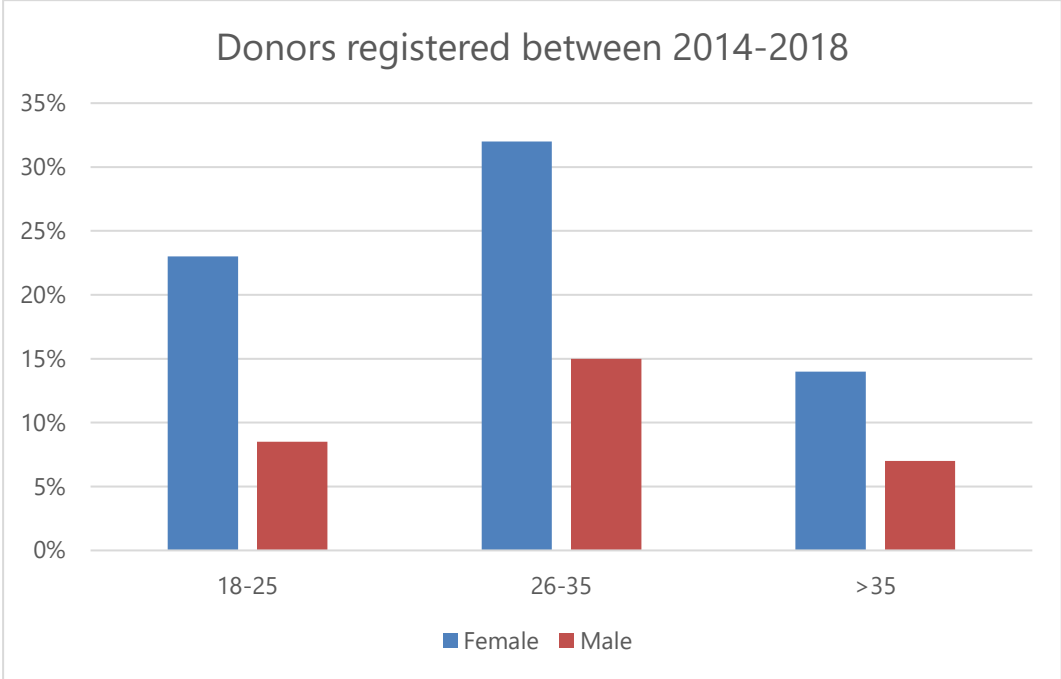
All new donors registered since 1/9/2008.



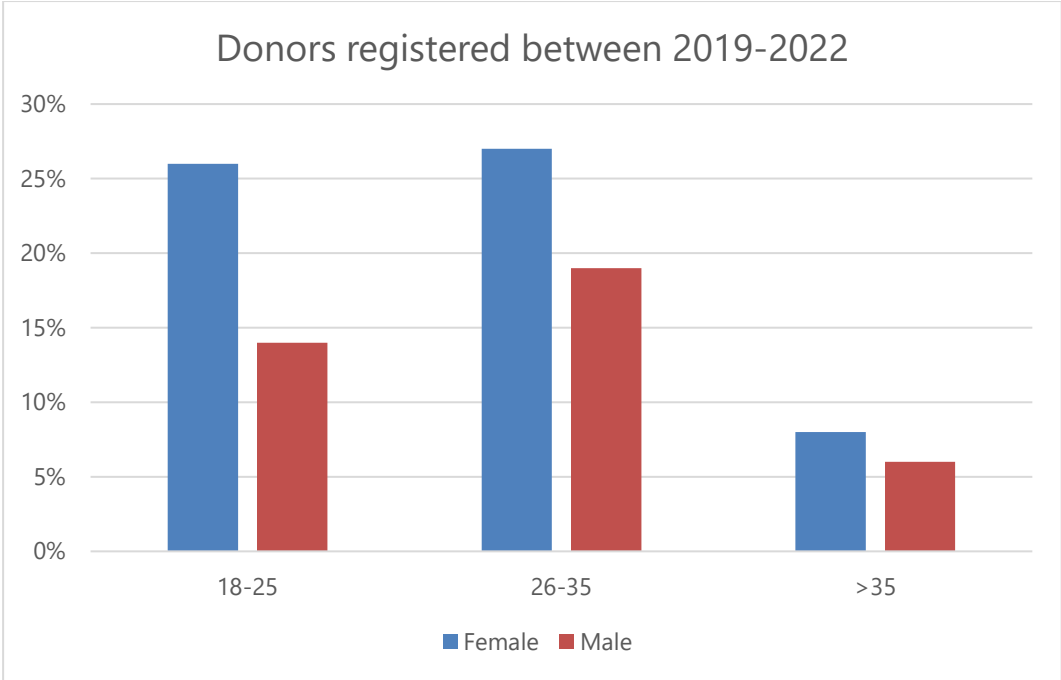
Donors registered between September 2008-August 2013 (first donor recruitment action).



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).

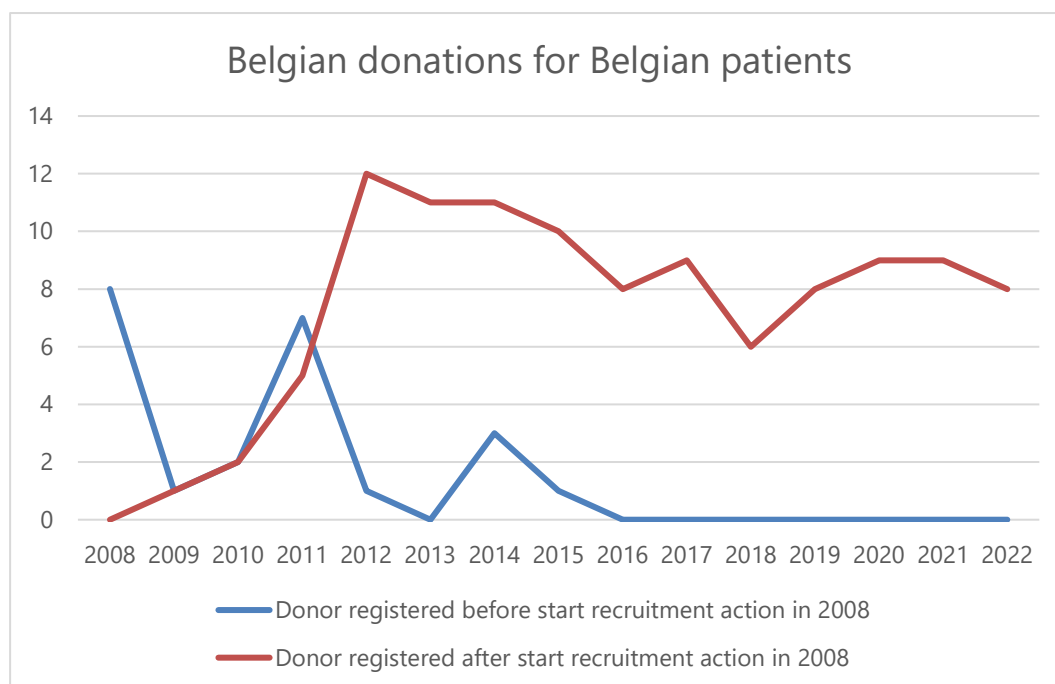


1.8 Effect of donor recruitment action

1.8.1 Belgian donors for Belgian patients

Belgian patients

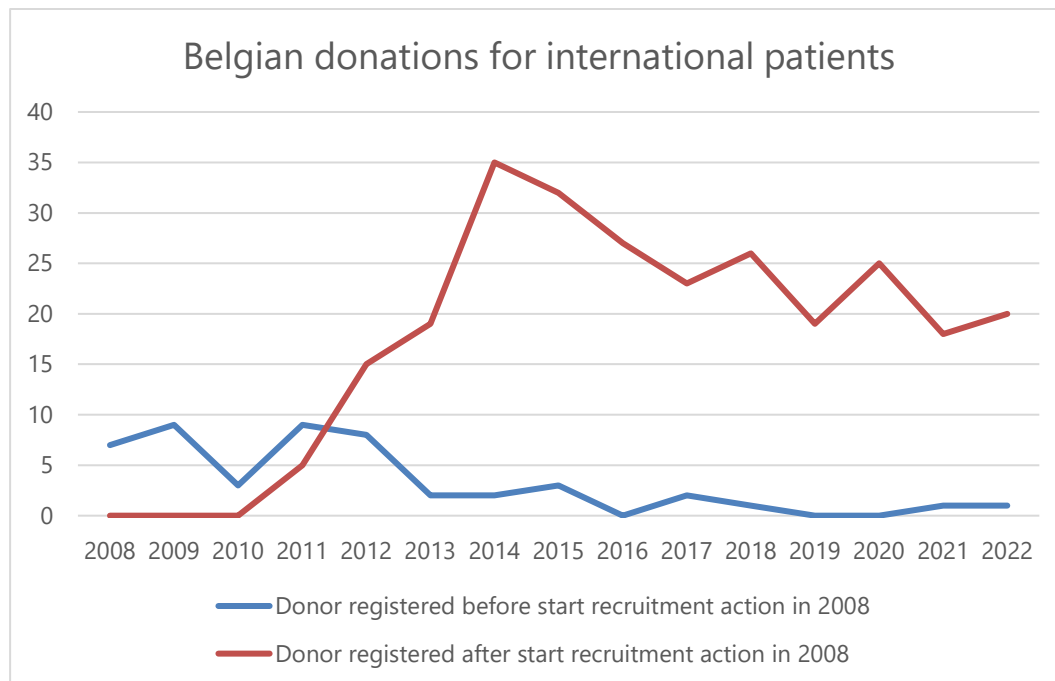
| Year | Belgian donors | Donor registered before start recruitment action in 2008 | Donor registered after start recruitment action in 2008 |
|------|----------------|--|---|
| 2008 | 8 | 8 | 0 |
| 2009 | 2 | 1 | 1 |
| 2010 | 4 | 2 | 2 |
| 2011 | 12 | 7 | 5 |
| 2012 | 13 | 1 | 12 |
| 2013 | 11 | 0 | 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 |
| 2022 | 8 | 0 | 8 |



1.8.2 Belgian donors for international patients

International patients

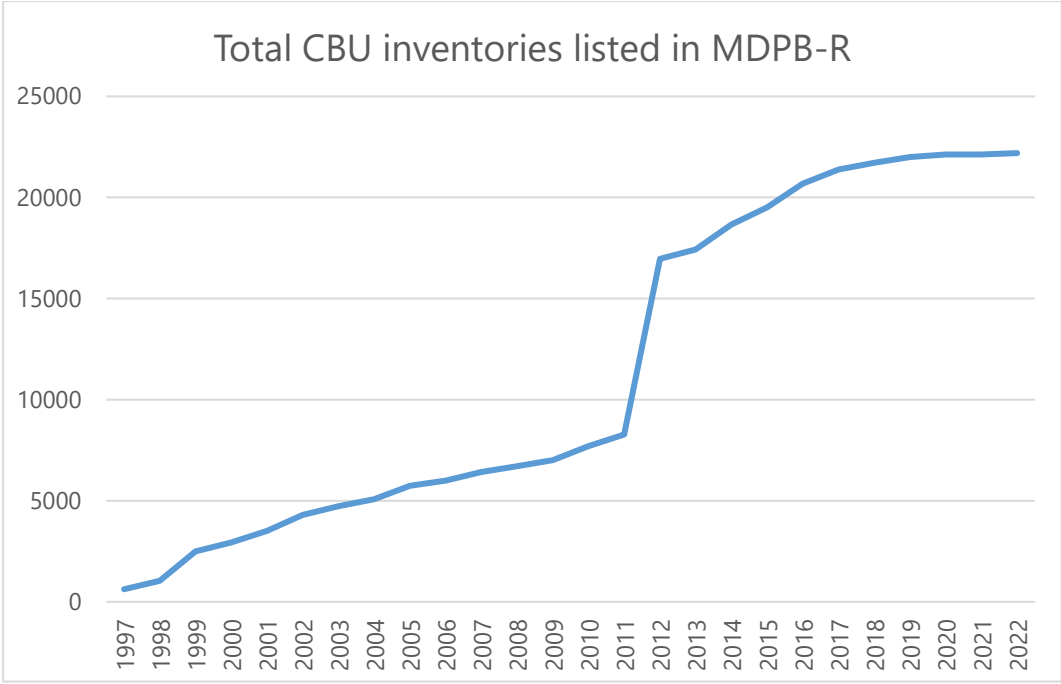
| Year | Belgian donors | Donor registered before start recruitment action in 2008 | Donor registered after start recruitment action in 2008 |
|------|----------------|--|---|
| 2008 | 7 | 7 | 0 |
| 2009 | 9 | 9 | 0 |
| 2010 | 3 | 3 | 0 |
| 2011 | 14 | 9 | 5 |
| 2012 | 23 | 8 | 15 |
| 2013 | 21 | 2 | 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 |
| 2022 | 21 | 1 | 20 |



2. Belgian cord database

2.1 Total CBU inventories listed in MDPB-R

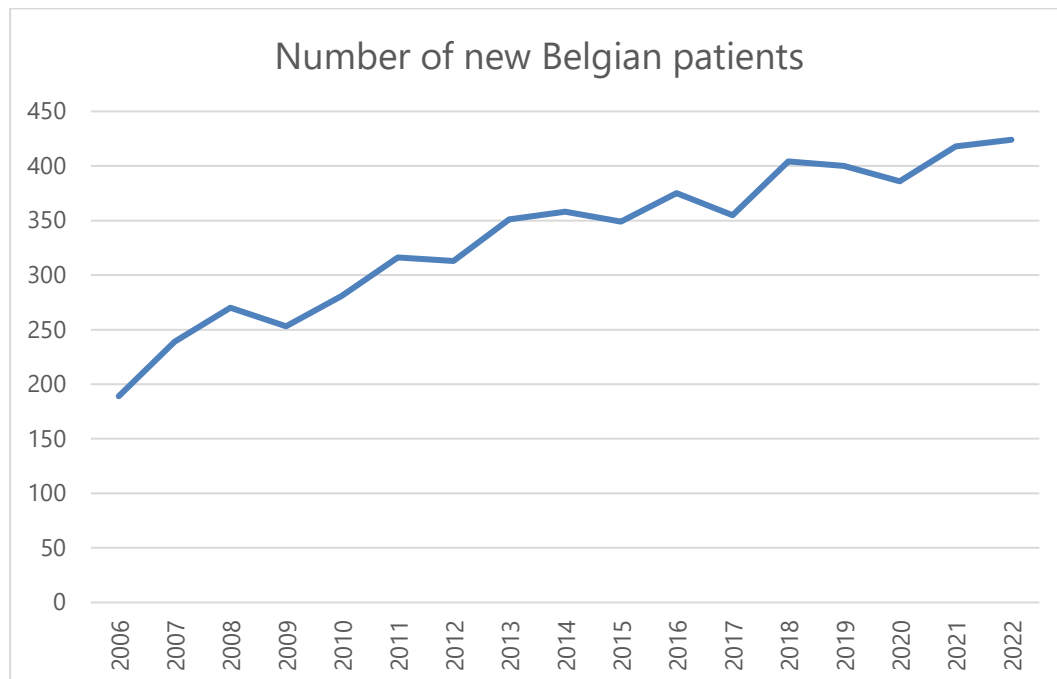
| Year | Cord Blood Units |
|------|------------------|
| 1996 | 334 |
| 1997 | 625 |
| 1998 | 1.041 |
| 1999 | 2.494 |
| 2000 | 2.936 |
| 2001 | 3.516 |
| 2002 | 4.309 |
| 2003 | 4.729 |
| 2004 | 5.078 |
| 2005 | 5.744 |
| 2006 | 5.991 |
| 2007 | 6.423 |
| 2008 | 6.705 |
| 2009 | 7.011 |
| 2010 | 7.709 |
| 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 |
| 2022 | 22.195 |



3. Transplant activity Belgian patients

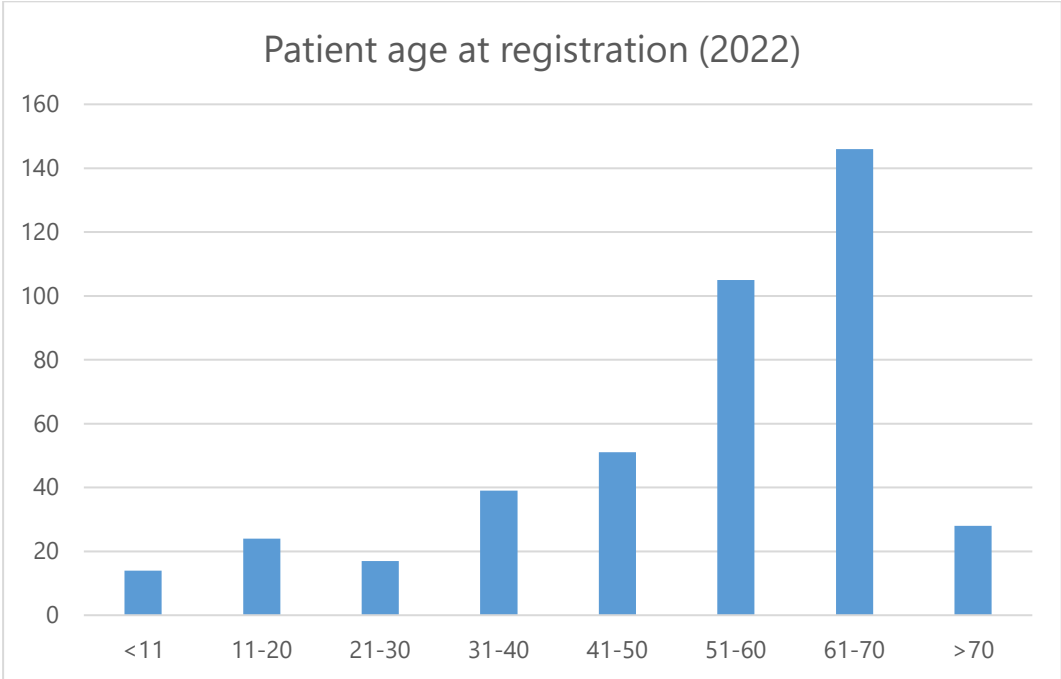
3.1 Number of registered Belgian patients

| 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 |
| 2022 | 424 |



3.2 Patient age at registration in 2022

| Age at registration | Number of patients |
|---------------------|--------------------|
| <11 | 14 |
| 11-20 | 24 |
| 21-30 | 17 |
| 31-40 | 39 |
| 41-50 | 51 |
| 51-60 | 105 |
| 61-70 | 146 |
| >70 | 28 |



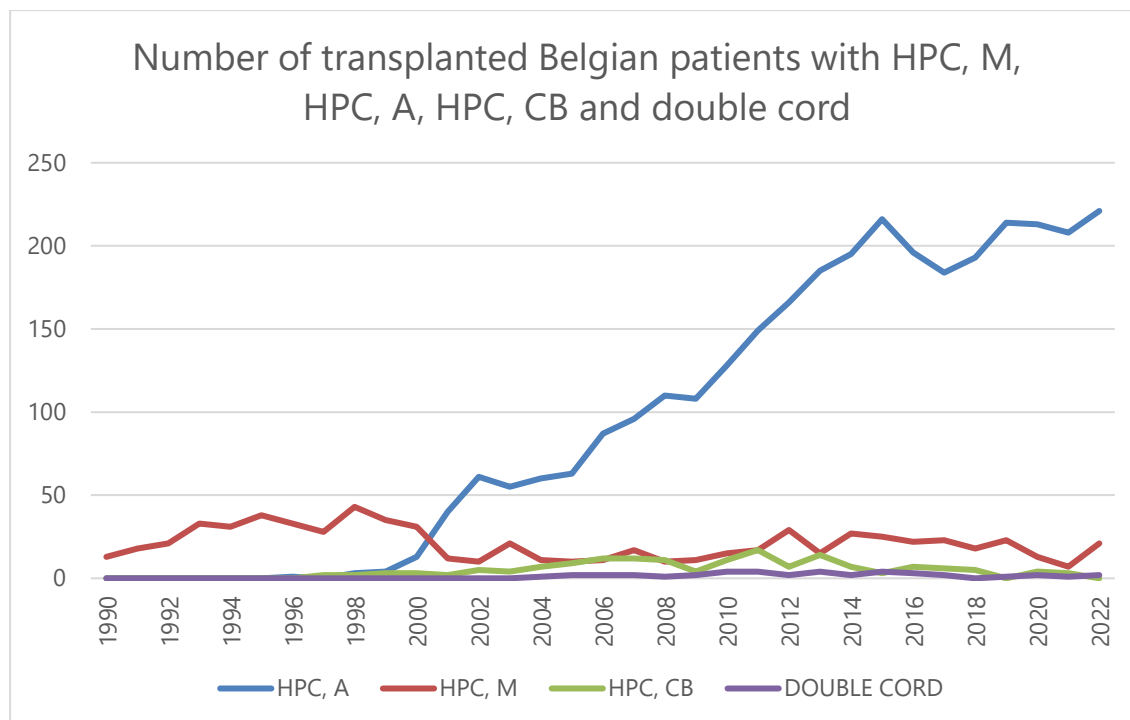
3.3 Number of transplanted Belgian patients (HPC, Apheresis, HPC, Marrow, HPC, Cord Blood and double CBU)

| 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 | 2022 |
|-----------------|------|------|------|------|------|------|------|
| HPC, A | 196 | 184 | 193 | 214 | 213 | 208 | 221 |
| HPC, M | 22 | 23 | 18 | 23 | 13 | 7 | 21 |
| HPC, CB | 7 | 6 | 5 | 0 | 4 | 3 | 0 |
| DOUBLE CBU | 3 | 2 | 0 | 1 | 2 | 1 | 2 |



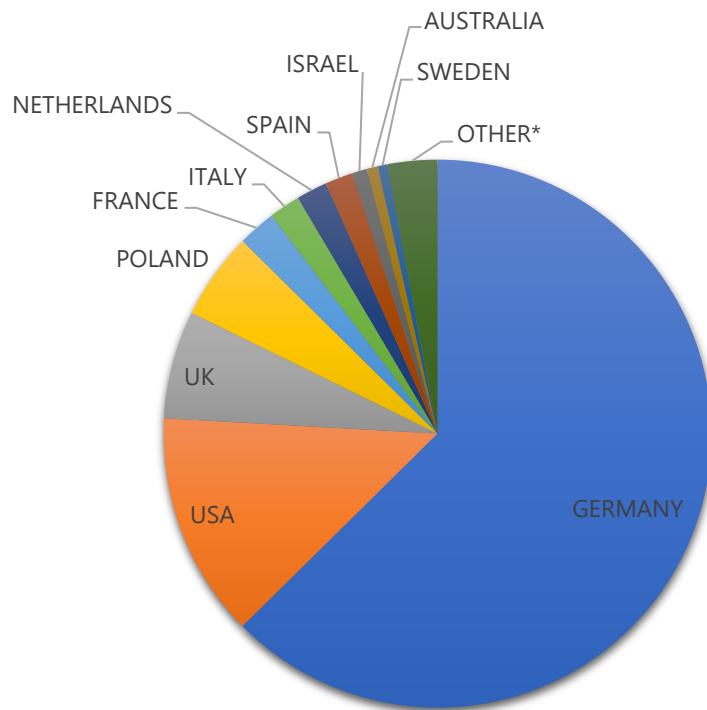
3.4 Origin of international donors (HPC, Marrow and HPC, Apheresis) and HPC, Cord Blood for Belgian patients (1996-2022)

1996-2022

| Country | HPC, M + HPC, A HPC, CB |
|-------------|----------------------------|
| GERMANY | 2.436 |
| USA | 517 |
| UK | 248 |
| POLAND | 200 |
| FRANCE | 87 |
| ITALY | 72 |
| NETHERLANDS | 71 |
| SPAIN | 64 |
| ISRAEL | 34 |
| AUSTRALIA | 26 |
| SWEDEN | 22 |
| OTHER* | 114 |

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

Origin of international donors (HPC, M + HPC, A) and HPC, CB for Belgian patients (1996-2022)



4. Transplant activity international patients

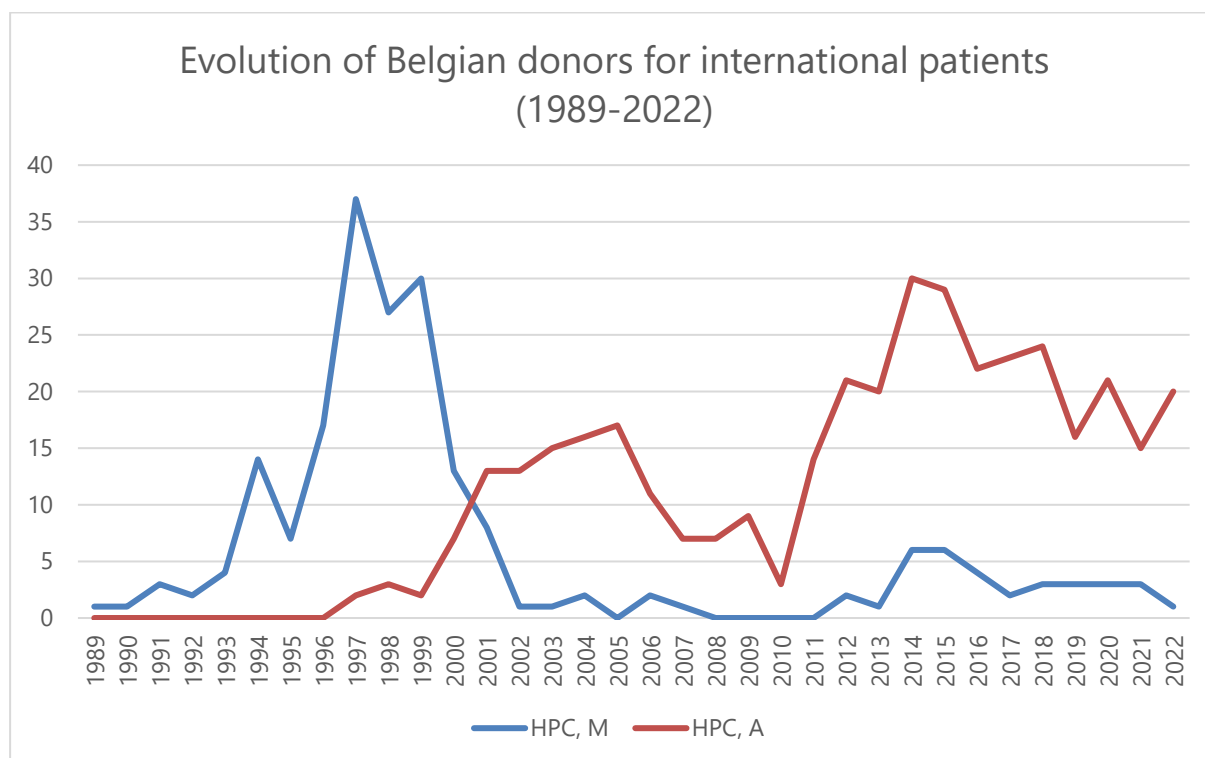
4.1 Evolution of Belgian donors (HPC, Marrow and HPC, Apheresis) for international patients (1989-2022)

| 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 |

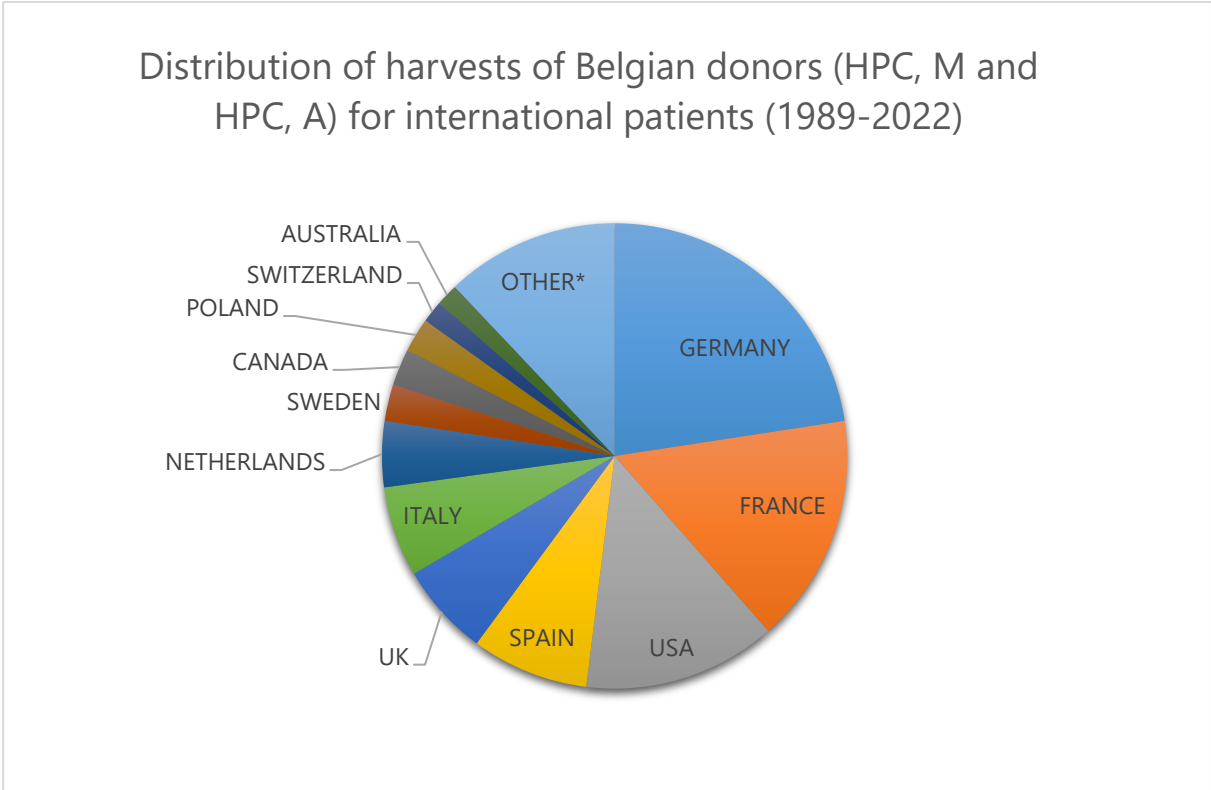
| Type of product | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|-----------------|------|------|------|------|------|------|------|
| HPC, M | 4 | 2 | 3 | 3 | 3 | 3 | 1 |
| HPC, A | 22 | 23 | 24 | 16 | 21 | 15 | 20 |



4.2 Distribution of harvests of Belgian donors (HPC, Marrow and HPC, Apher-esis) for international patients (1989-2022)

| 1989-2022 | |
|-------------|-----------------|
| Country | HPC, M + HPC, A |
| GERMANY | 133 |
| FRANCE | 94 |
| USA | 79 |
| SPAIN | 48 |
| UK | 38 |
| ITALY | 37 |
| NETHERLANDS | 27 |
| SWEDEN | 15 |
| CANADA | 15 |
| POLAND | 14 |
| SWITZERLAND | 9 |
| AUSTRALIA | 9 |
| OTHER* | 71 |

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



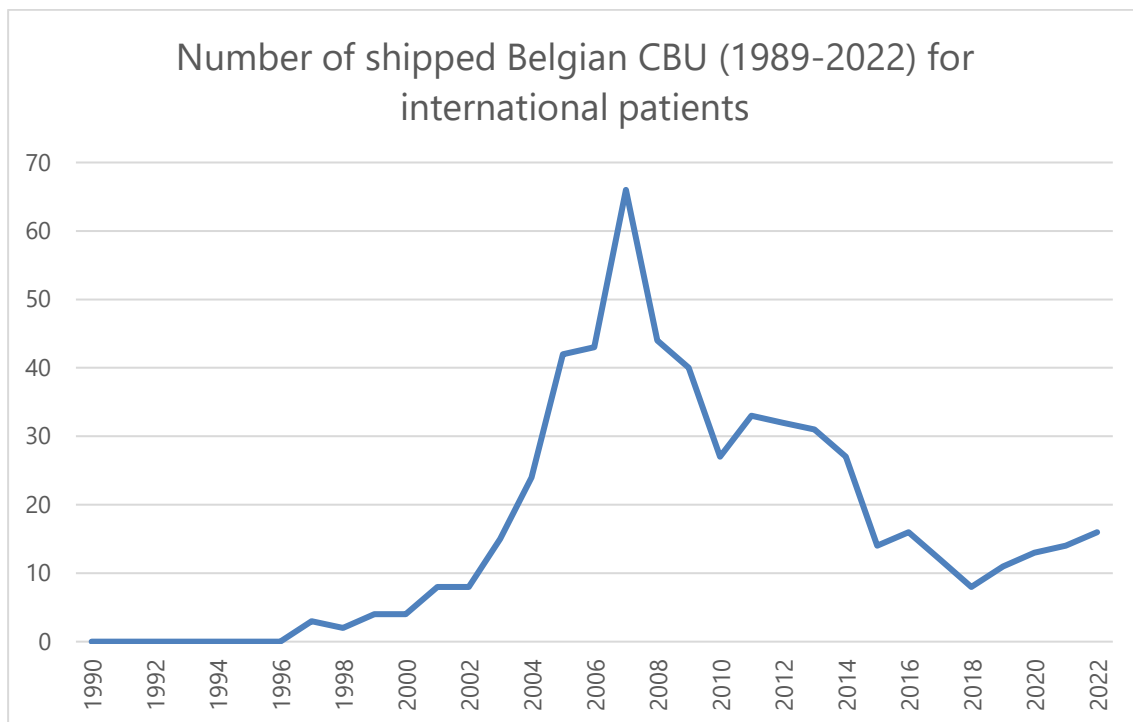
4.3 Number of shipped Belgian HPC, Cord Blood for international patients (1989-2022)

| 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 | 2022 |
|-----------------|------|------|------|------|------|------|------|
| HPC, C | 16 | 12 | 8 | 11 | 13 | 14 | 16 |

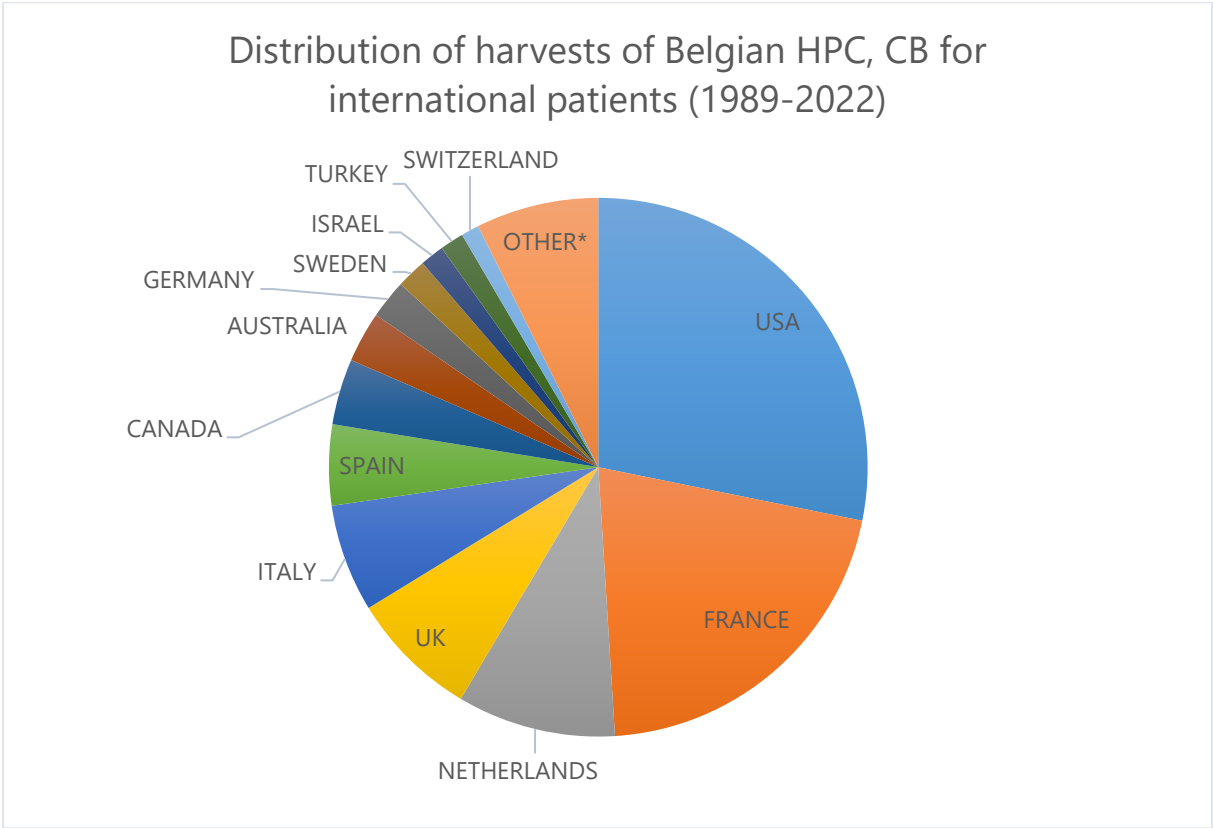


4.4 Distribution of Belgian HPC, Cord Blood for international patients (1989-2022)

1989-2022

| Country | HPC, CB |
|-------------|---------|
| USA | 157 |
| FRANCE | 116 |
| NETHERLANDS | 53 |
| UK | 43 |
| ITALY | 36 |
| SPAIN | 27 |
| CANADA | 22 |
| AUSTRALIA | 17 |
| GERMANY | 13 |
| SWEDEN | 10 |
| ISRAEL | 8 |
| TURKEY | 8 |
| SWITZERLAND | 6 |
| OTHER* | 41 |

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



5. Shipping rates HPC, Marrow, HPC, Apheresis and HPC, Cord Blood

5.1 Shipping rates 2022

| 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 | 0,04 | 0 | 1 | 2.659 | 80.573 |
| position stemcell registries | 48/86 | 48/86 | | | |
| HPC, Apheresis | 0,15 | 0,03 | 28 | 19.108 | 80.573 |
| position stemcell registries | 42/86 | 47/86 | | | |
| HPC, Cord | 0,65 | 0,07 | 16 | 2.450 | 22.195 |
| position stemcell registries | 19/53 | 21/53 | | | |

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