

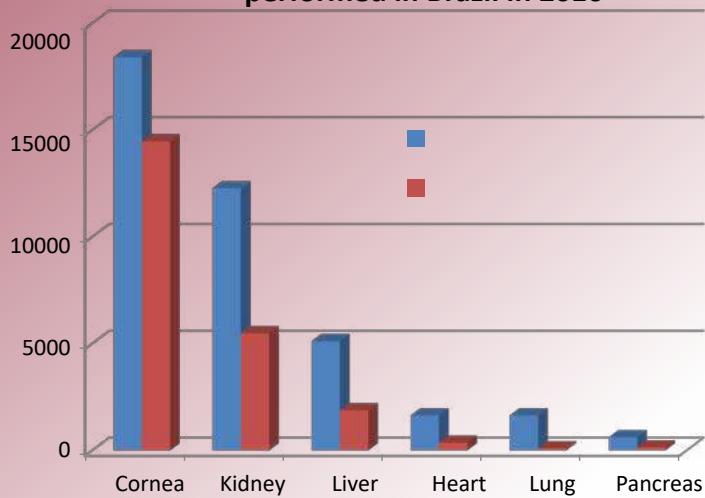
2017

Organ Transplantation in Brazil

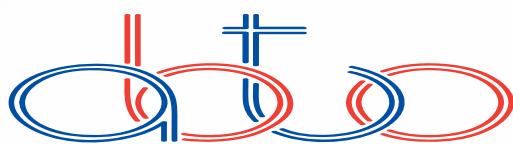
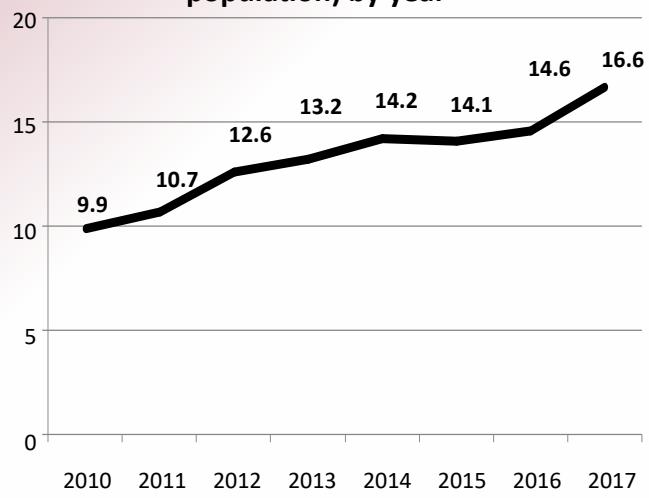
(2010-2017)

In absolute numbers Brazil holds the second largest kidney and liver transplant programs in the world. However, organ donation and the allocation systems still have to improve and there are regional disparities to be solved. The population trust in organ donation and fairness of the system, along with government and medical societies support, as much as the dedication of health care professionals, are of utmost importance for the success of the Brazilian Transplantation Program.

Estimated demand and number of transplants performed in Brazil in 2016



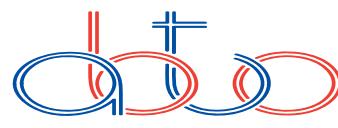
Effective donors in Brazil - pmp (per million population) by year



RBT

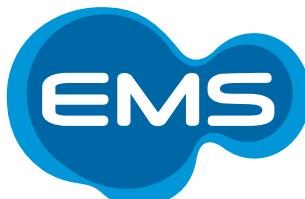
Brazilian Transplantation Registry

Official report of Brazilian Organ Transplantation Society



Associação Brasileira de Transplante de Órgãos

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In Brazil, during 2017, the number of effective donors reached 16.6 PMP with an annual increment of 14%. The number of notifications of potential donors increased 3.8% to 51.6 PMP and the number of donors whose organs were transplanted increased from 13.6% to 15.0 PMP. Interestingly, between 2010 and 2017, the number of effective donors increased 69% while the notification rate of potential donors increased 41% and the effectiveness of donation increased 21%, in the same period. This year the number of four solid organ transplants increased: lung (21.7%), liver (12.1%), kidney (7.5%) and heart (6.4%), while the number of pancreas transplants decreased 17%. The ten years rates were incremental for heart (100%), liver (85%), kidney (71%) and lung (67%) while the number of pancreas transplants dropped 45%.

Kidney transplants were performed in 20 states and in the Federal District. Programs were initiated in three states and another three states did not have active kidney transplant programs. The number of deceased donor transplants keeps on increasing (11.6%) while the continuous decrement in the number of living donor kidney transplants was again observed (-6.8%). The annual rate of living donor kidney transplants was 5.5 PMP approximately half of the rate observed in the past. The reasons for that drop are not entirely clear but concerns of donor chronic renal disease in the long term probably play a role. Seventy percent of the effective donors had kidneys transplanted and the number of deceased donor transplants could increase by around 700 if the effectiveness of organ utilization increases to 80%.

Liver transplants were performed in 12 states and in the Federal District. The number of transplants with living donors increased 15.9% and 11.8% with deceased donors. 1927 transplants were performed with deceased donors and 56% of the effective donors resulted in actual liver transplants. The number of deceased donor transplants could increase by around 650 if the effectiveness of organ utilization increases to 75%.

Heart transplants were performed in 12 states and in the Federal District. The very low utilization rate (11.1%) of hearts from effective donors reflects that much has to be done to improve the care of potential donors, the logistics of organ allocation and to the transplant teams acceptance criteria to increase substantially the numbers of heart transplants in Brazil.

Lung transplants were performed in only 4 Brazilian states. The very low utilization rate of 3.2%, much below the expected 20%, reflects the same aspects referred to heart transplants and, importantly, the very low number of lung transplant teams in the country.

Pancreatic transplants were performed in 7 Brazilian states reaching only 1.5 transplants PMP. Lack of adequate funding, the high cost and the complexity of such transplants are among the reasons why the number of pancreatic transplants is so low.

In association with the Brazilian Society of Bone Marrow Transplantation we report for the first time the survival of autologous and allogeneic bone marrow transplants in Brazil. It is of utmost importance that the bone marrow teams keep on reporting their results in order to have an accurate evaluation of the results of these transplants.

After a few years of stagnation, in 2017, the transplant activity resumed its increment in Brazil. It is however important to increase our endeavours to reach higher transplant rates in 2018. To achieve this goal it's paramount that many transplant related procedures and tests, post transplant complications and pancreatic transplants have their financing updated.

Valter Duro Garcia
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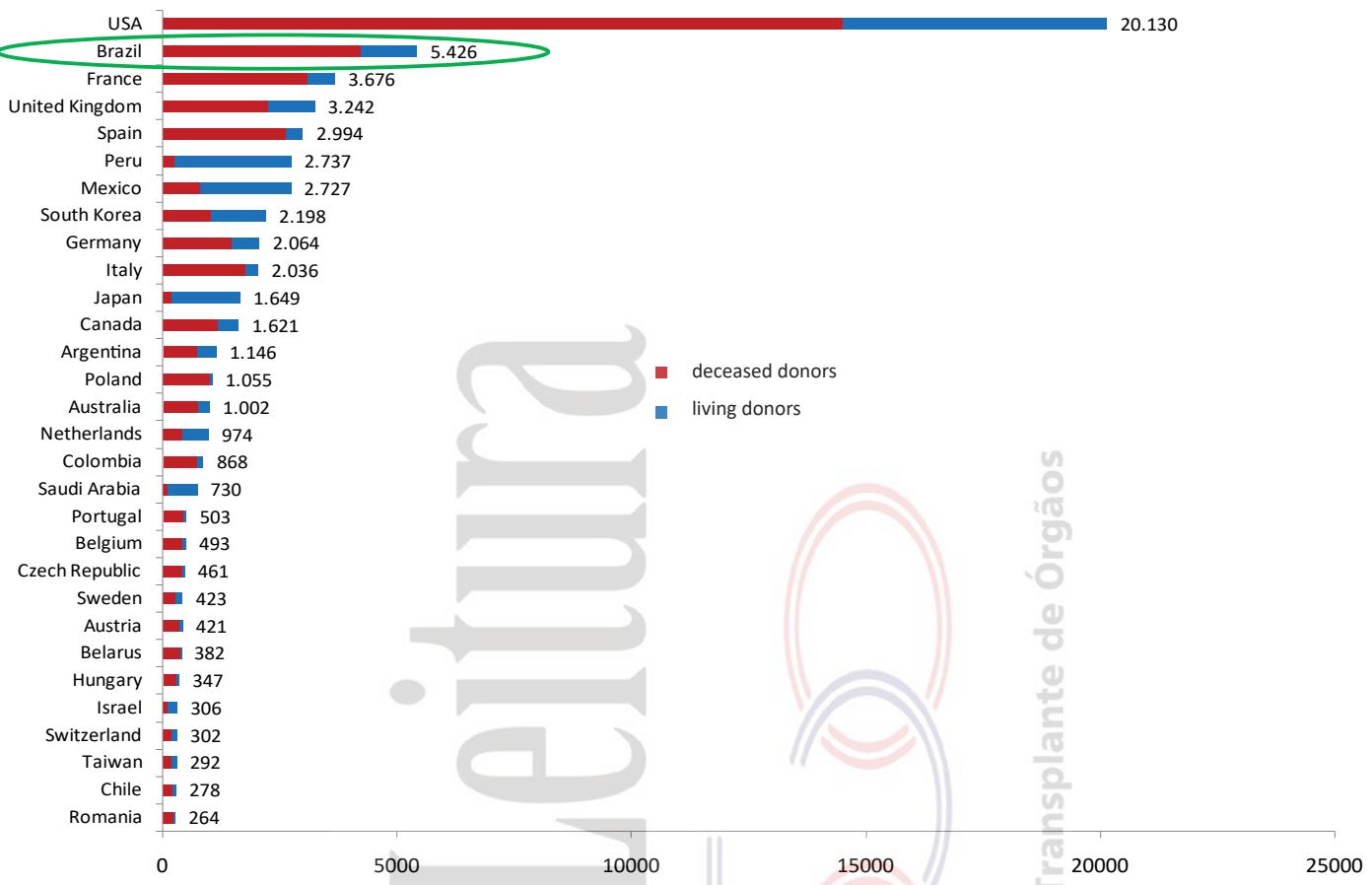
Index

BRAZIL'S STANDING IN GLOBAL FIGURES	3
BRAZILIAN DATA	6
Annual number of transplants in Brazil between 2007 and 2017	8
KIDNEY	9
LIVER	10
HEART	11
Pancreas	12
LUNG	13
Bone Marrow, Tissue and Cell	14
CORNEA	15
Bone	15
PEDIATRIC TRANSPLANTATION	16
DATA FROM BRAZILIAN REGIONS	18
General data	18
Organ Donation	19
Tissue transplants	19
Organ transplants	20
WAITING LIST	22
Patients actives on waiting list (december 2017)	22
Pediatric Patients actives on waiting list (december 2017)	22
Número de pacientes que ingressaram na WAITING LIST e mortalidade, durante o ano de 2017, por estado.	23
DATA FROM INDIVIDUAL STATES	24
Organ Donation for 2017	24
Number of Notifications of potential donors, effective donors and donors whose organs were transplanted by State during the year 2017	25
Causes of non-fulfillment of organ donation of notified potential donors during the year 2017	26
Profile: age, gender, cause of death and blood group of the organ donors	27
Transplantation center data	82
HEART	82
LIVER	83
Pancreas	85
MULTIVISCERAL	85
KIDNEY	86
LUNG	90
CORNEA	90
Bone Marrow	92
Skin	94
Valva	94
Bone	95
Immunology laboratories	97
List of National and State Coordination Transplant	98

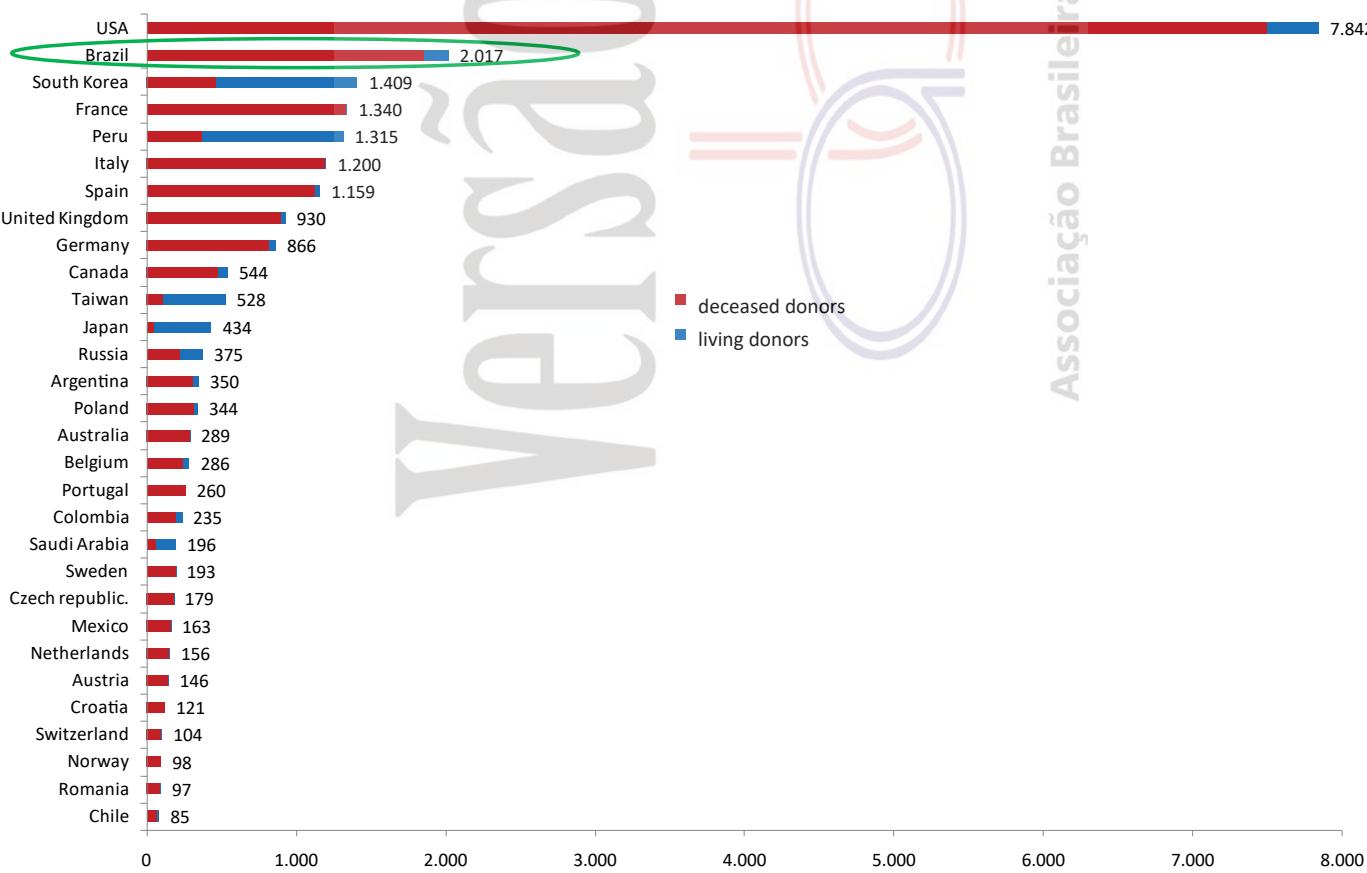
BRAZILIAN STANDING IN GLOBAL FIGURES

Source: IRODAT 2016

Brazil is ranked second in absolute number of kidney transplants (from 30 countries) - Year 2016



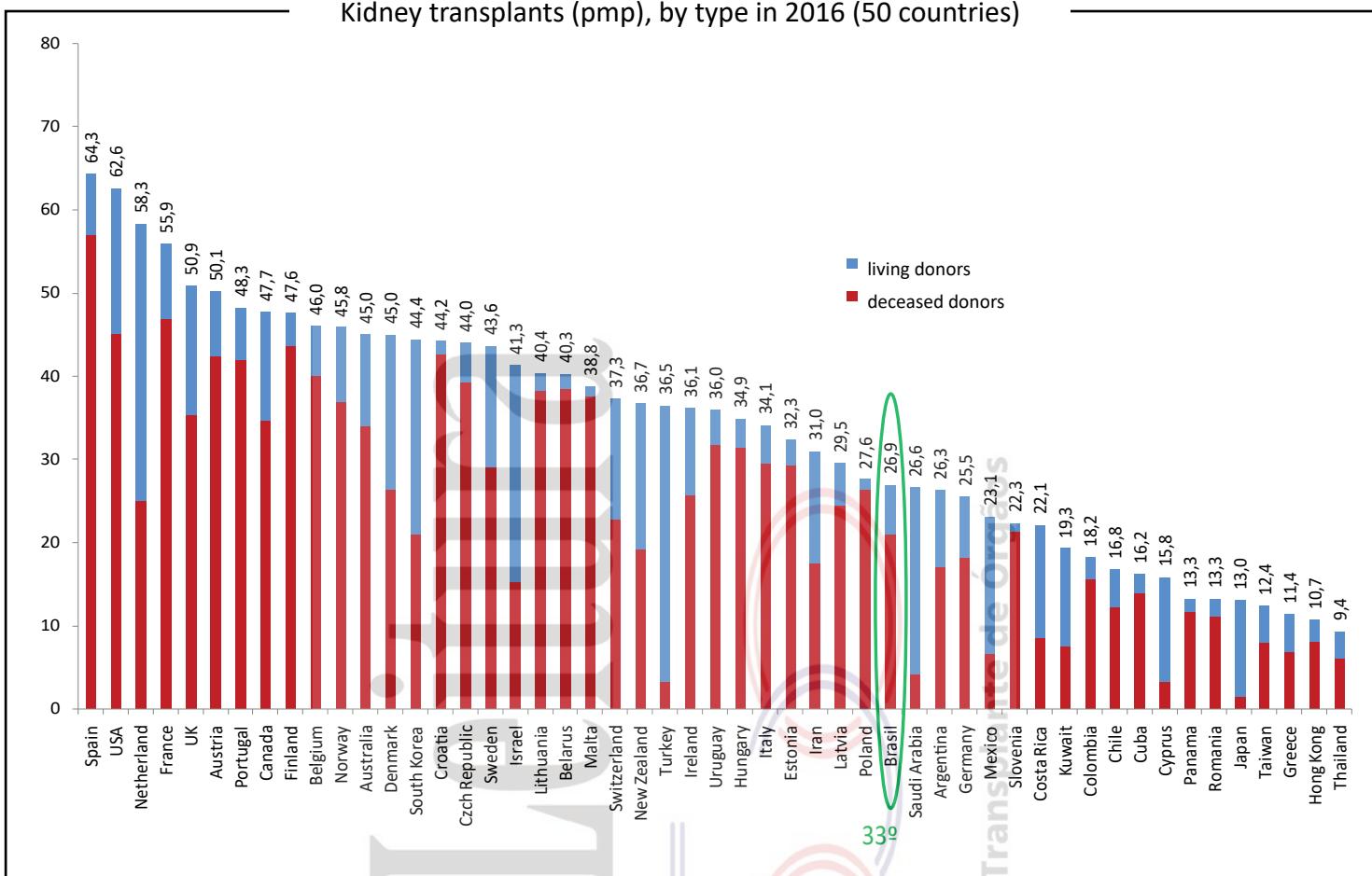
Brazil is ranked second in absolute number of liver transplants (from 30 countries) - Year 2016



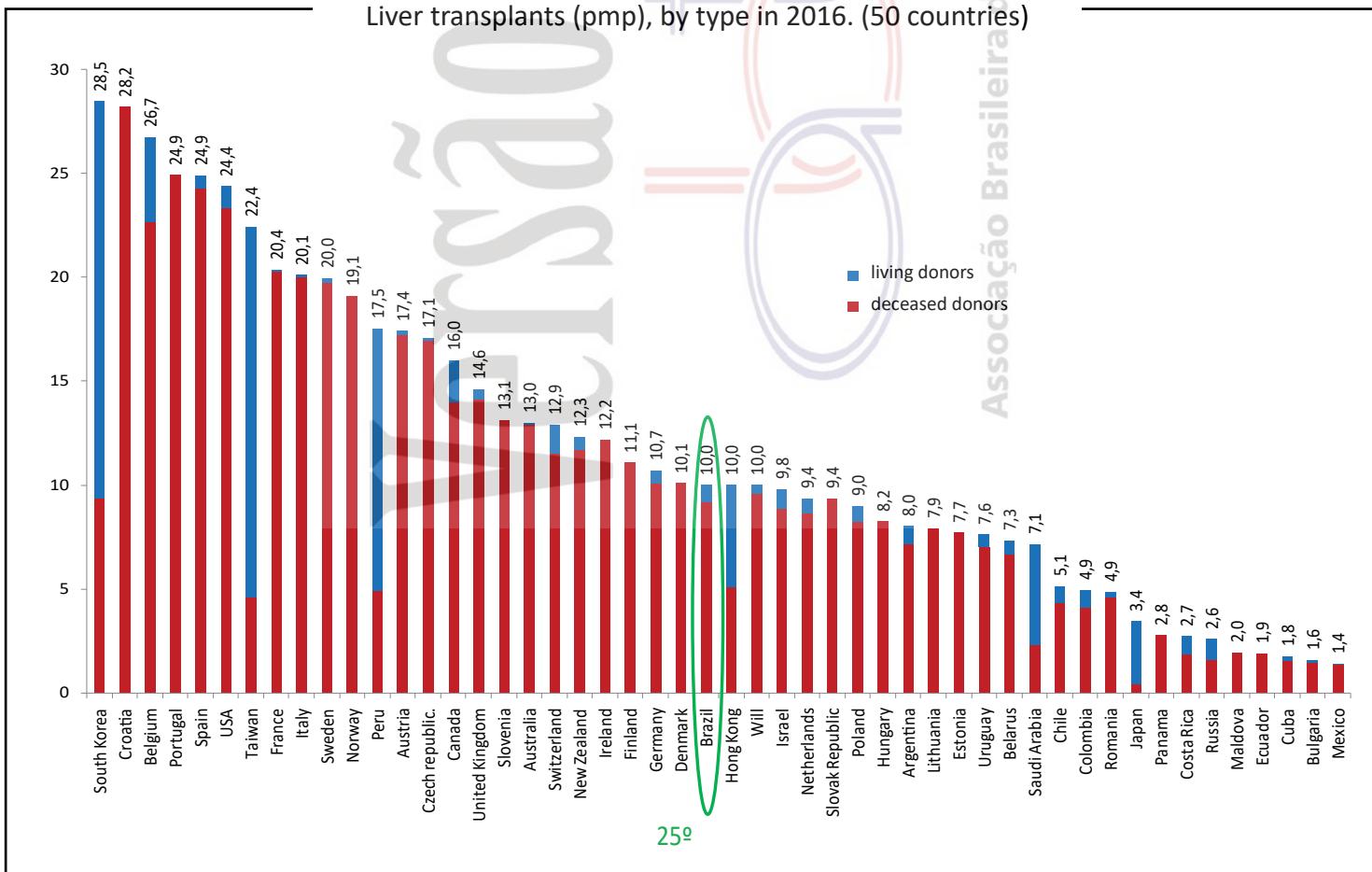
BRAZILIAN STANDING IN GLOBAL FIGURES

Source: IRODAT 2016

Kidney transplants (pmp), by type in 2016 (50 countries)

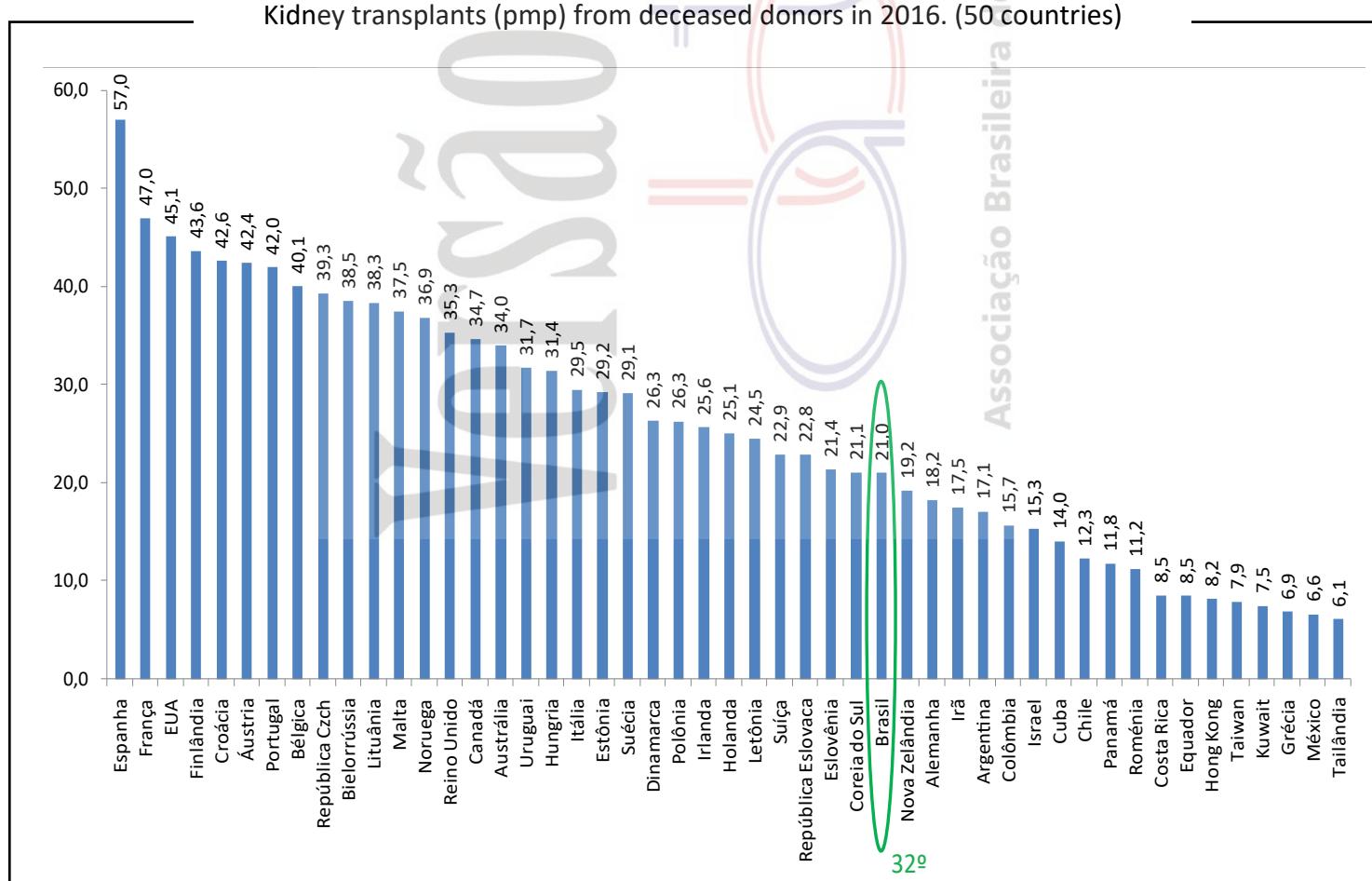
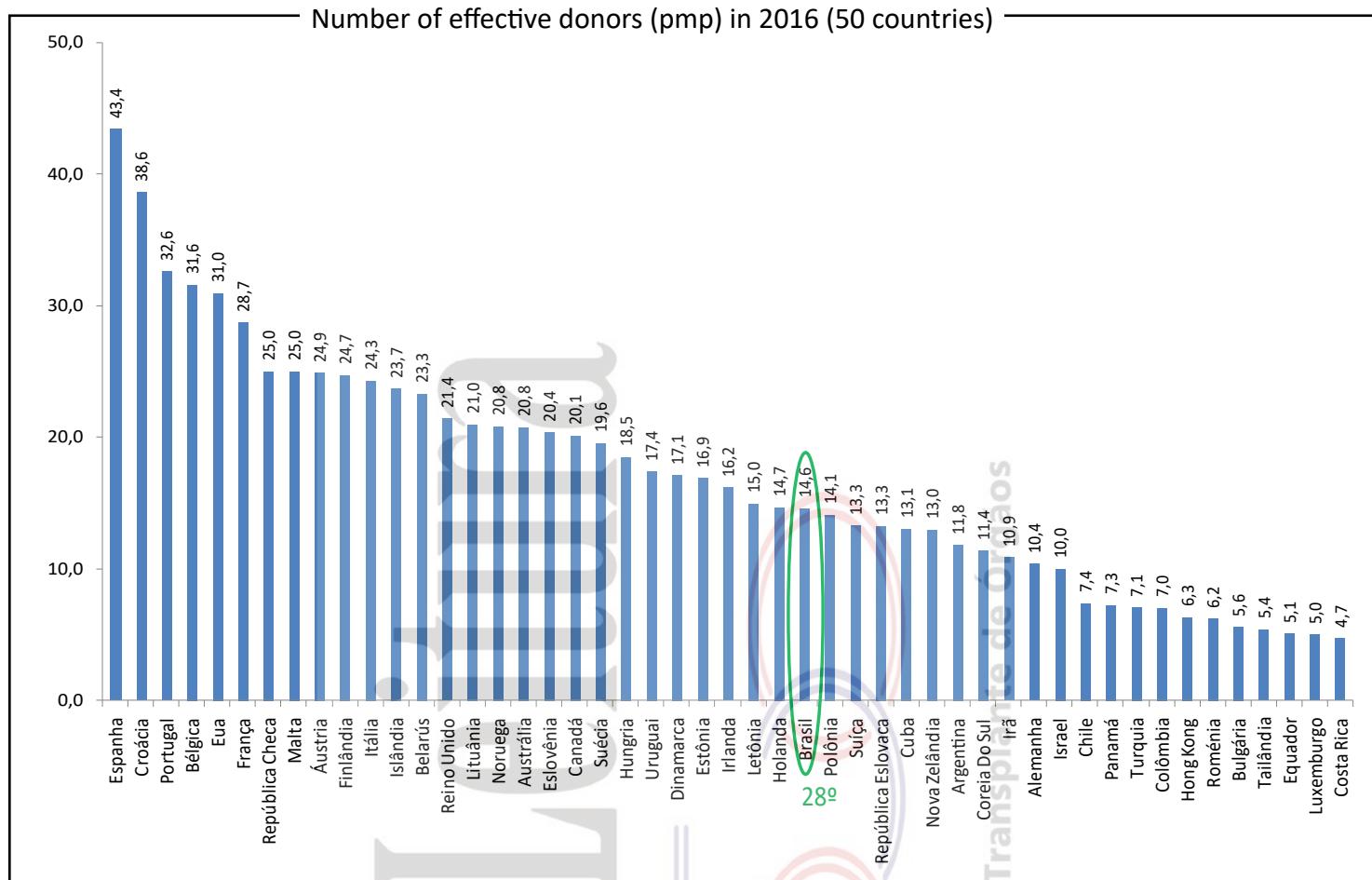


Liver transplants (pmp), by type in 2016. (50 countries)



BRAZILIAN STANDING IN GLOBAL FIGURES

Source: IRODAT 2016



BRAZILIAN DATA

Population	206,081,432	Estimated annual need and number of transplants		Cornea	Kidney	Liver	Heart	Lung
		Estimated demand		18,547	12,365	5,152	1,649	1,649
		Transplants performed		15,212	5,929	2,109	380	112
Mortality per year	2010	2011	2012	2013	2014	2015	2016	2017
All causes	1,136,947	1,170,498	1,181,166	1,220,678	1,227,039	1,264,175	Indisponível	Indisponível
External causes	143,256	145,842	152,013	151,683	156,942	152,136	Indisponível	Indisponível
Neurological causes	25,303	26,948	28,712	30,300	32,381	34,721	Indisponível	Indisponível
Population (IBGE census)	190,755,799	190,755,799	190,755,799	190,755,799	190,755,799	202,768,562	204,450,649	206,081,432

Hospital

Total number	6,154
State capitals	1,323
Countryside	4,830
Nº de beds	467,480
Nº de ICU beds	40,281
Hospitals over 80 beds	1,766
Teaching hospitals	149
Medical schools	373
Neurosurgery services	427
Number of CIHDOTTS	527
Number of OPOs	57

Source: <http://cnes.datasus.gov.br> 20/12/2017

Facts :

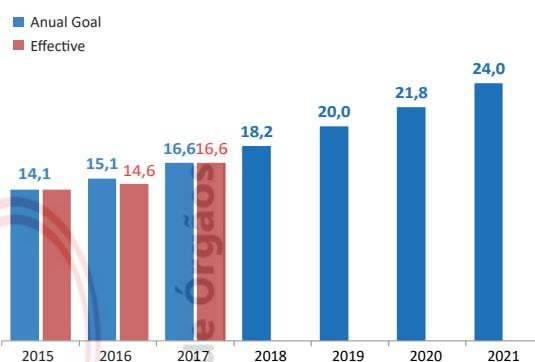
Positive:

- Well-established and consolidated transplant system.
- Program support by public governments.
- Better results being achieved overtime.

Negative:

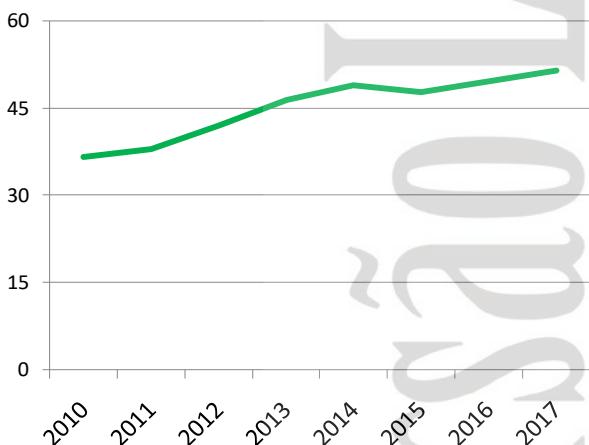
- Slow increase in donation
- Elevated frequency of non-consenting family.
- Brain death notification bellow expected.
- Important disparities between states.
- Financial constraints for some programs.

Annual goal of effective donors per million population

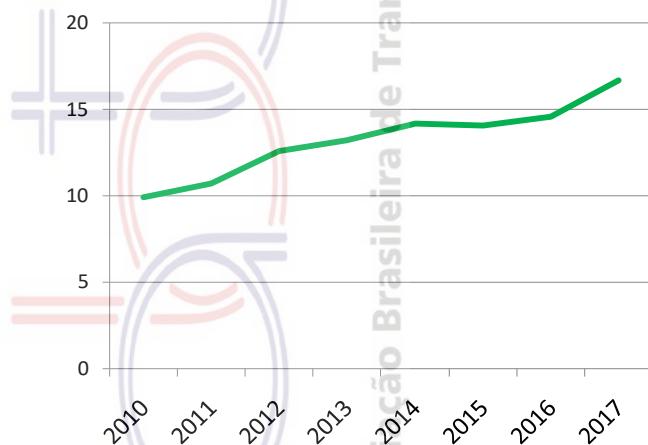


Organ Donation

Notified potential donors - pmp



Effective donors - pmp

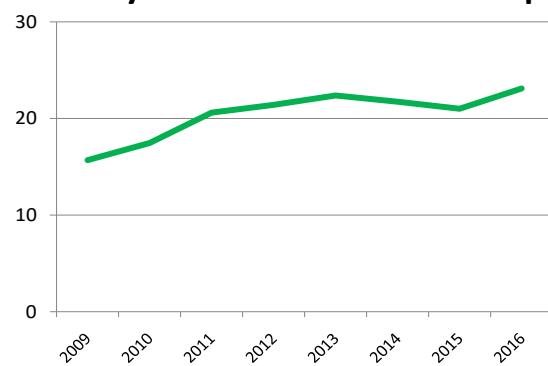


	2010	2011	2012	2013	2014	2015	2016	2017
Number of effective donors	1,898	2,048	2,406	2,526	2,713	2,854	2,981	3,415
Number of effective donors (pmp)	9,9	10,7	12,6	13,2	14,2	14,1	14,6	16,6
Potential donors	6,979	7,238	8,025	8,871	9,351	9,698	10,158	10,629
Number of potential donors (pmp)	36,6	37,9	42,1	46,5	49,0	47,8	49,7	51,6
Non consenting families	1,800	1,937	2,315	2,622	2,610	2,613	2,571	2,740
Refusal at interviews (%)	Unavailable	Unavailable	41%	47%	46%	44%	43%	42%
Cardiopulmonary arrest	1,279	1,205	1,188	1,292	1,156	1,164	1,136	1,232
Contraindicação médica	991	832	836	1,150	1,349	1,416	1,594	1,559
Others	1,011	1,216	1,280	1,281	1,523	1,651	1,876	1,1e683

BRAZILIAN DATA

Organ Transplantation

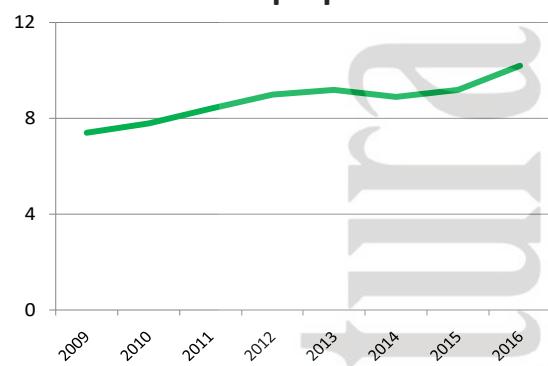
Kidney from deceased donors - pmp



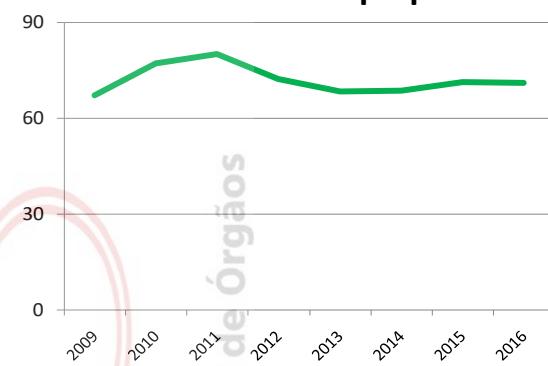
Kidney from living donors - pmp



Liver - pmp



Cornea- pmp



Number of teams performing transplants during the year

	2010	2011	2012	2013	2014	2015	2016	2017
Cornea	Indisponível							
Kidney	140	126	124	129	135	131	129	131
Liver	55	57	59	60	64	62	62	69
Pancreas	21	26	19	21	15	16	16	16
Heart	26	27	27	33	31	33	31	36
Lung	4	6	6	7	6	6	6	7

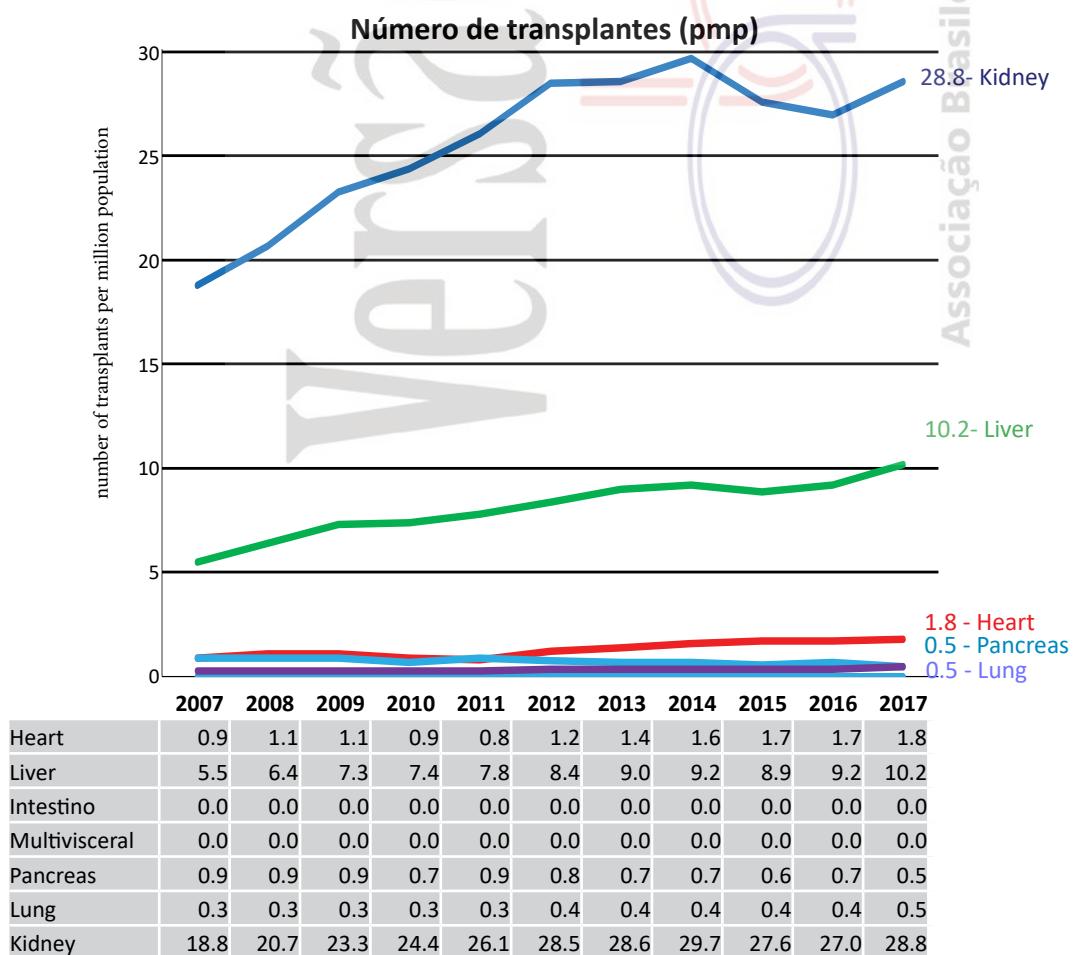
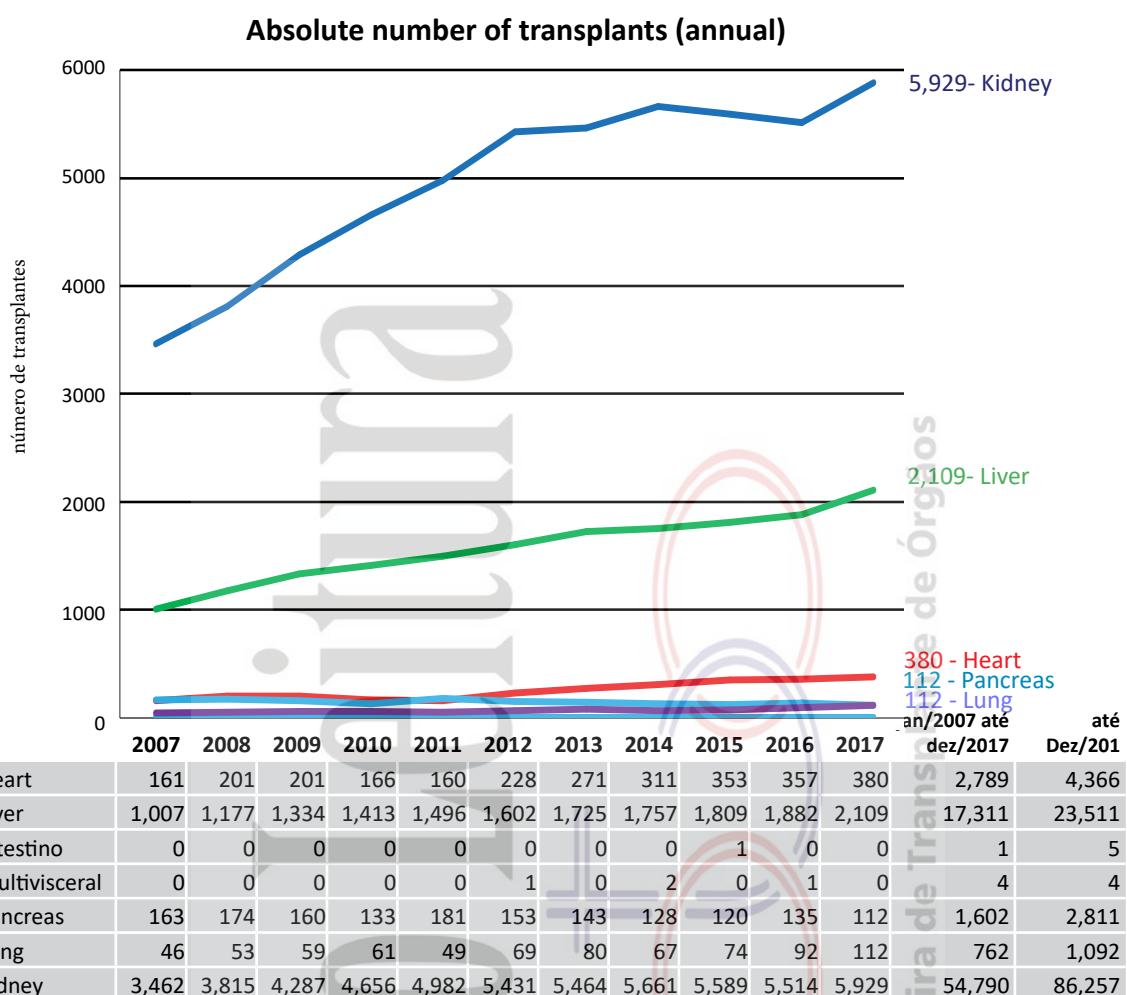
Absolute number of transplants

	2010	2011	2012	2013	2014	2015	2016	2017
Cornea	12,778	14,726	15,280	13,744	13,065	13,830	14,534	15,242
Kidney	4,656	4,982	5,431	5,464	5,661	5,589	5,514	5,929
living donors	1,655	1,652	1,501	1,386	1,385	1,189	1,217	1,136
deceased donors	3,001	3,330	3,930	4,078	4,276	4,400	4,297	4,793
Liver	1,413	1,496	1,602	1,725	1,757	1,809	1,882	2,109
Pancreas	133	181	153	143	128	120	135	112
Heart	166	160	228	271	311	353	357	380
Lung	61	49	69	80	67	74	92	112

Number of transplants pmp

	2010	2011	2012	2013	2014	2015	2016	2017
Cornea	67.0	77.2	80.1	72.1	68.5	68.2	71.1	74.0
Kidney	24.4	26.1	28.5	28.6	29.7	27.6	27.0	28.8
living donors	8.7	8.7	7.9	7.3	7.3	5.9	6.0	5.5
deceased donors	15.7	17.5	20.6	21.4	22.4	21.7	21.0	23.3
Liver	7.4	7.8	8.4	9.0	9.2	8.9	9.2	10.2
Pancreas	0.7	0.9	0.8	0.7	0.7	0.6	0.7	0.5
Heart	0.9	0.8	1.2	1.4	1.6	1.7	1.7	1.8
Lung	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5

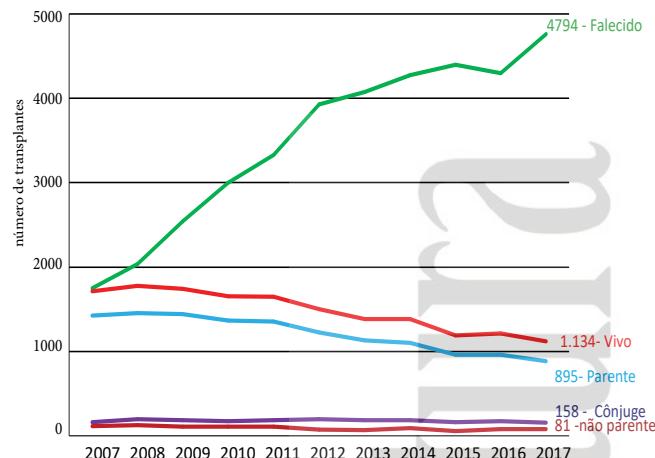
Annual number of transplants in Brazil between 2007 and 2017



Annual number of transplants in Brazil between 2007 and 2017

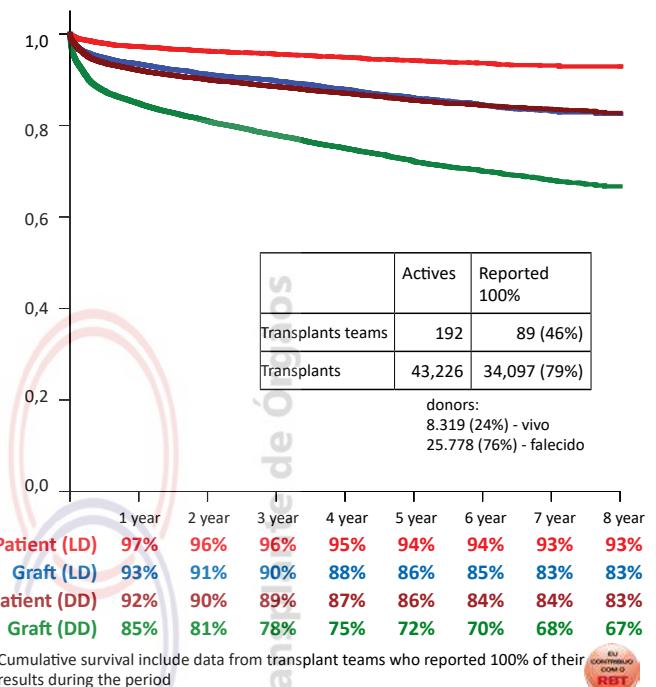
Kidney (21 states, with 131 teams)

Annual number of transplants by donor type

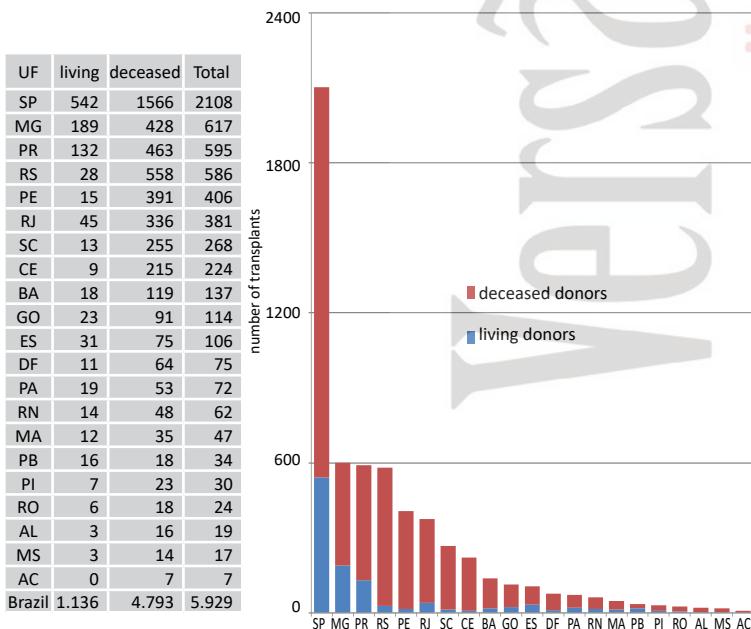


	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Deceased	1,749	2,035	2,544	3,001	3,330	3,930	4,078	4,276	4,400	4,297	4,793
Living	1,713	1,780	1,743	1,655	1,652	1,501	1,386	1,385	1,189	1,217	1,136
Related	1,429	1,457	1,447	1,370	1,354	1,229	1,133	1,102	964	960	897
Unrelated - spouse	165	197	187	175	185	196	186	187	166	173	158
Unrelated - Others	119	126	109	110	113	76	67	96	59	84	81
Total	3,462	3,815	4,287	4,656	4,982	5,431	5,464	5,661	5,589	5,514	5,929

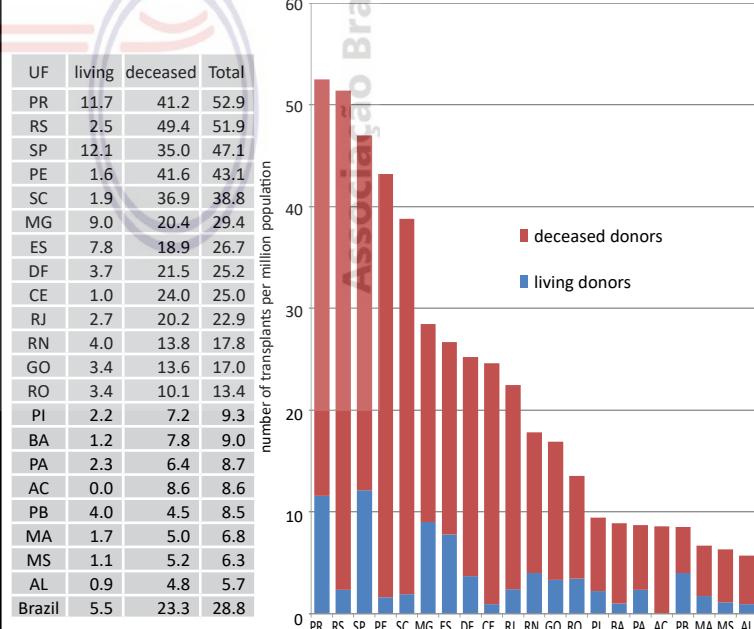
Survival Curves: Prospective started in 2010



Number of transplants by state during the year 2017



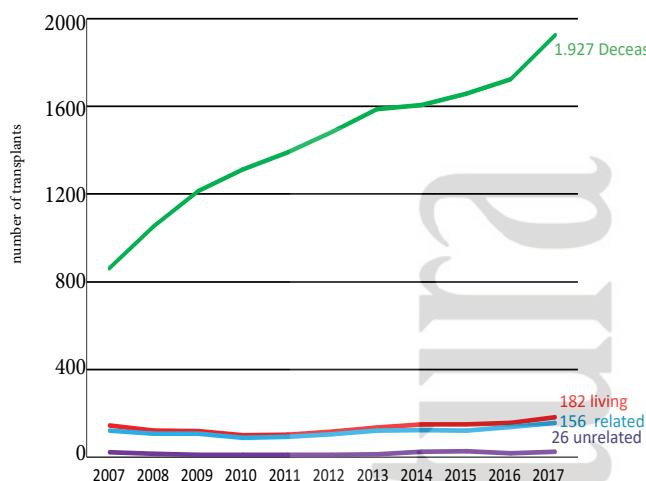
Number of transplants per million population by state during the year 2017



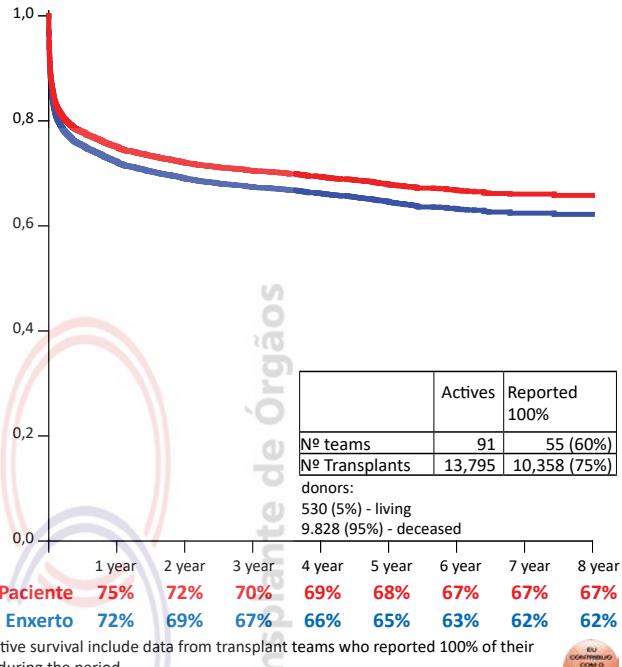
Annual number of transplants in Brazil between 2007 and 2017

Liver - (13 states, with 69 teams)

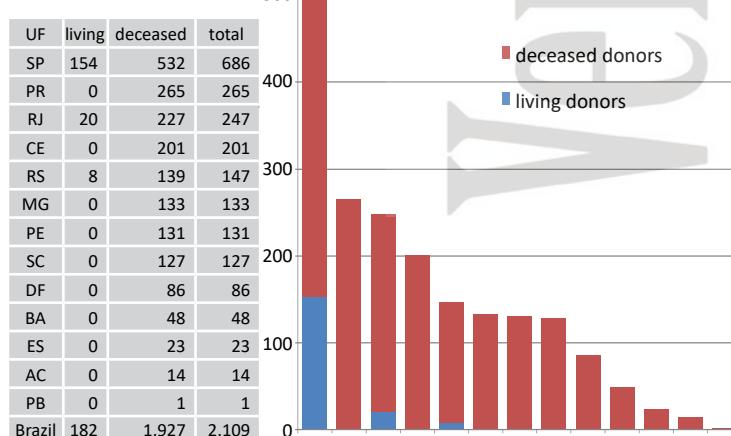
Anual number by donor type



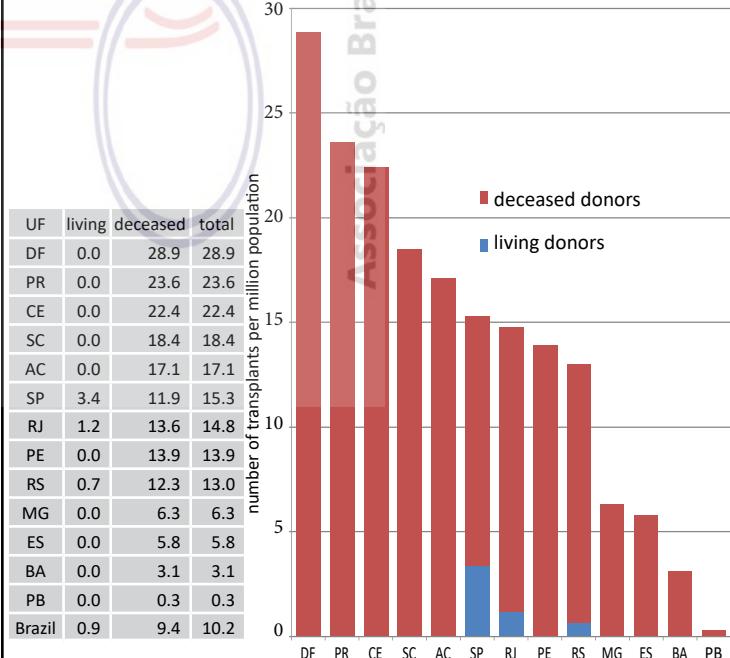
Survival Curves: Prospective started in 2010



Number of transplants by state during the year 2017



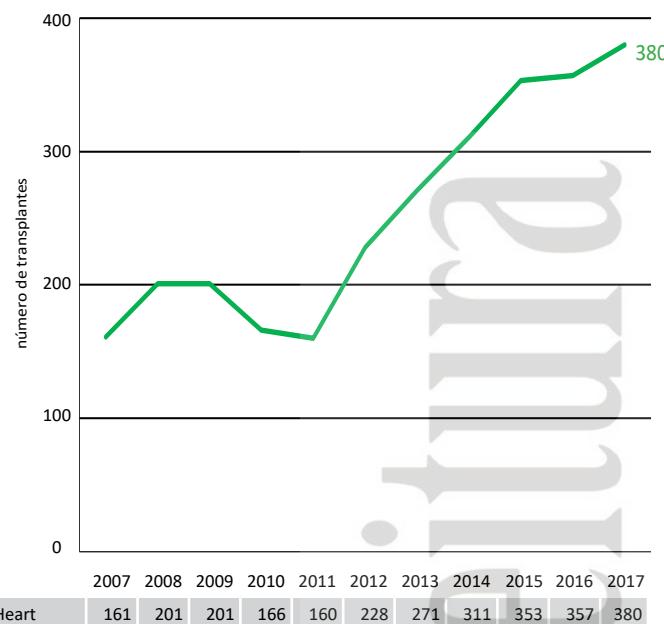
Number of transplants per million population by state during the year 2017



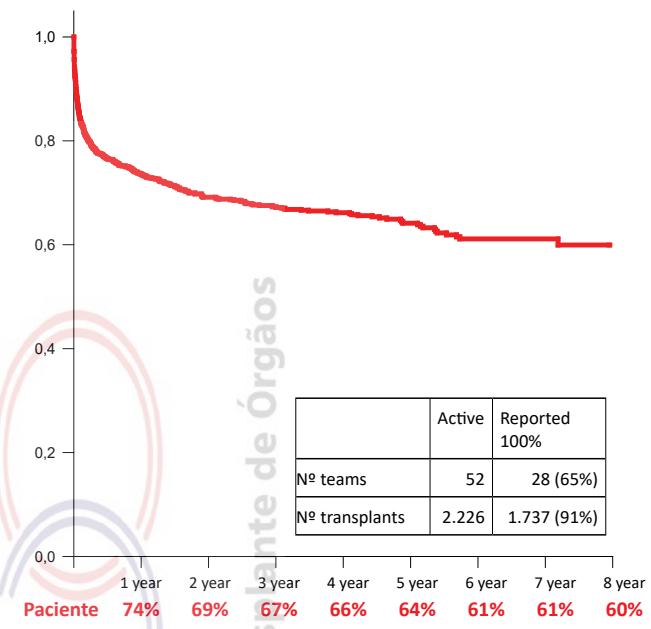
Annual number of transplants in Brazil between 2007 and 2017

Heart - (13 states, with 36 teams)

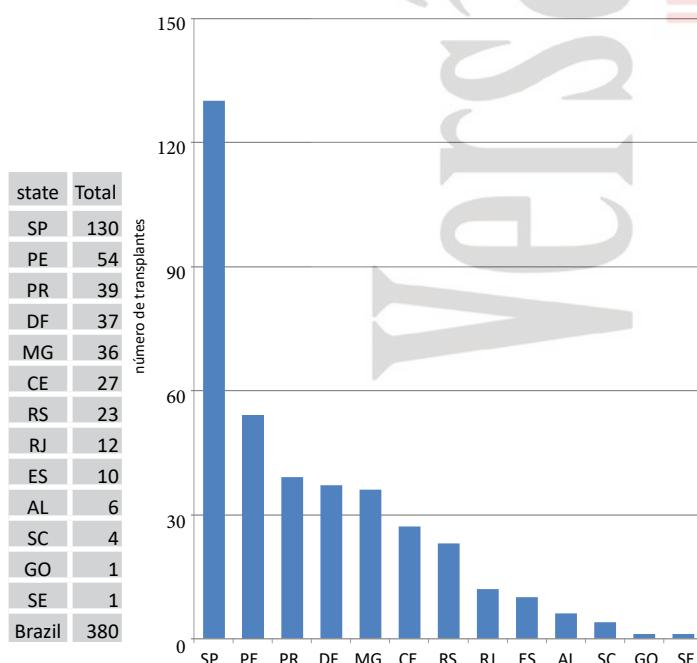
Anual number



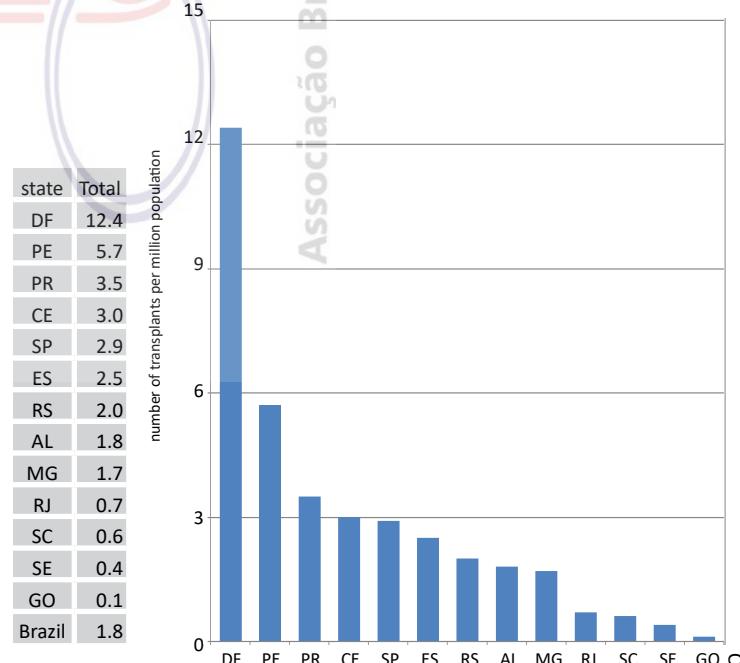
Survival Curves: Prospective started in 2010



Anual number by states in 2017



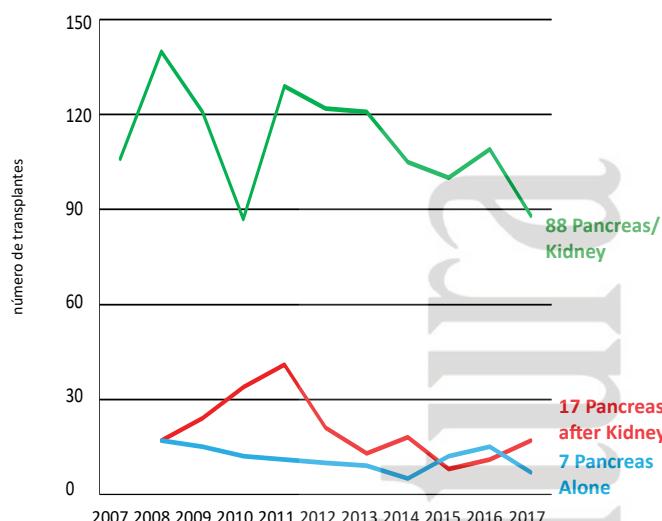
Number of transplants per million population by state during the year 2017



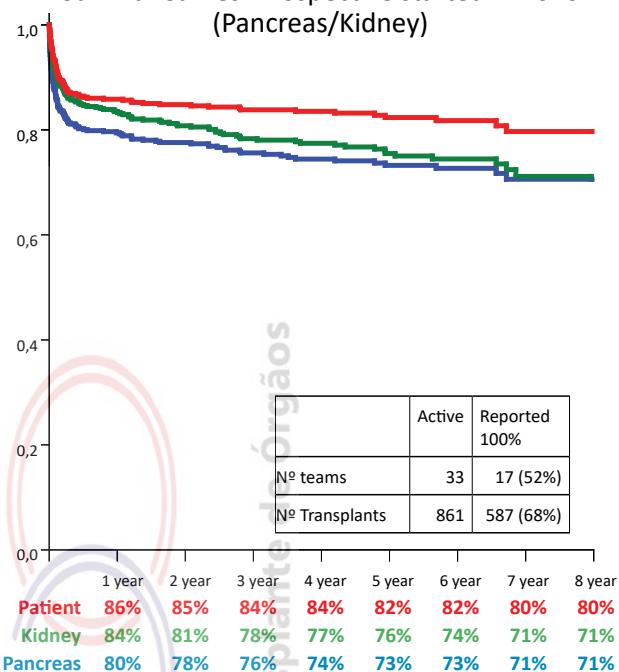
Annual number of transplants in Brazil between 2007 and 2017

PANCREAS - (6 states, with 16 teams)

Anual number

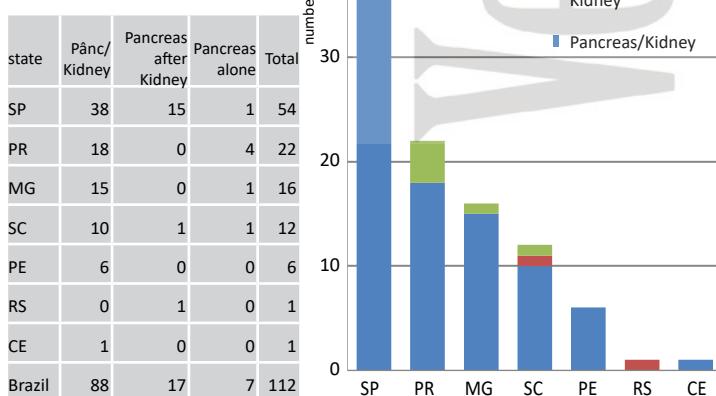


Survival Curves: Prospective started in 2010
(Pancreas/Kidney)

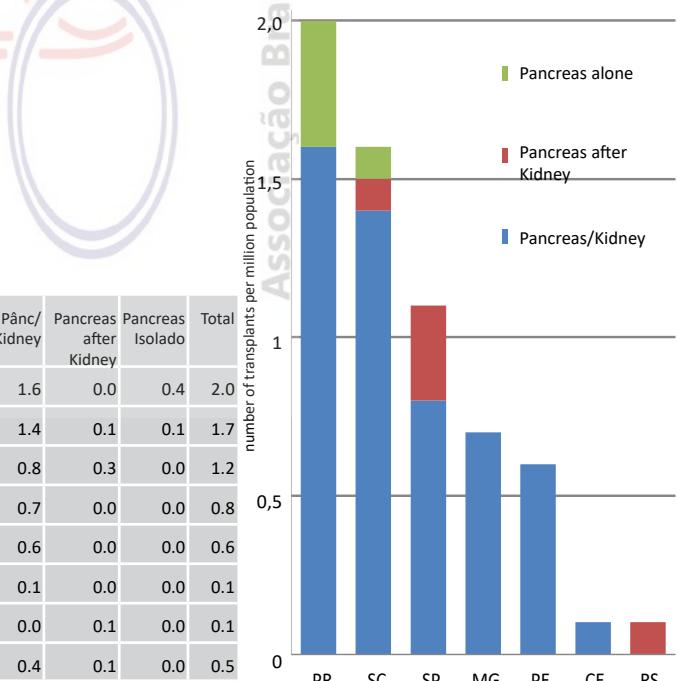


Cumulative survival include data from transplant teams who reported 100% of their results during the period

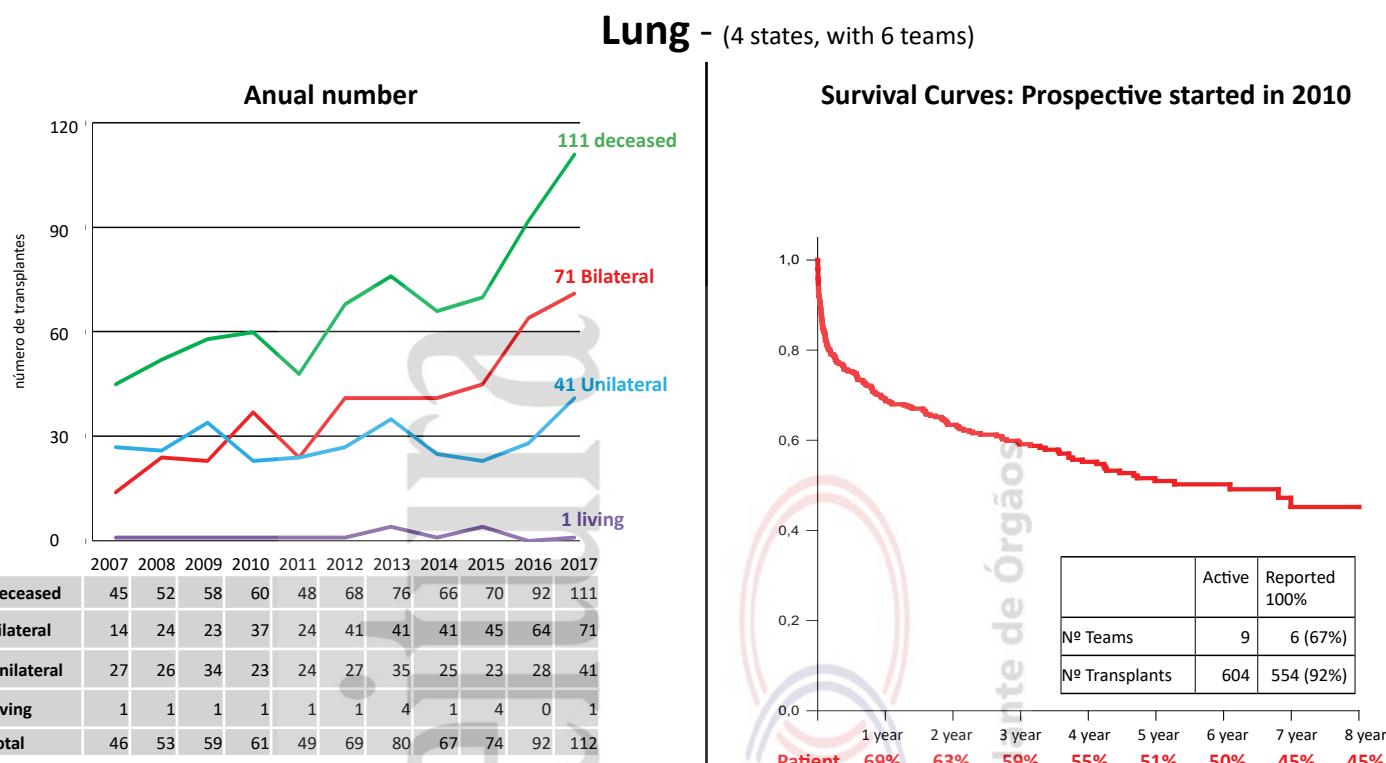
Number of transplants by state during the year 2017



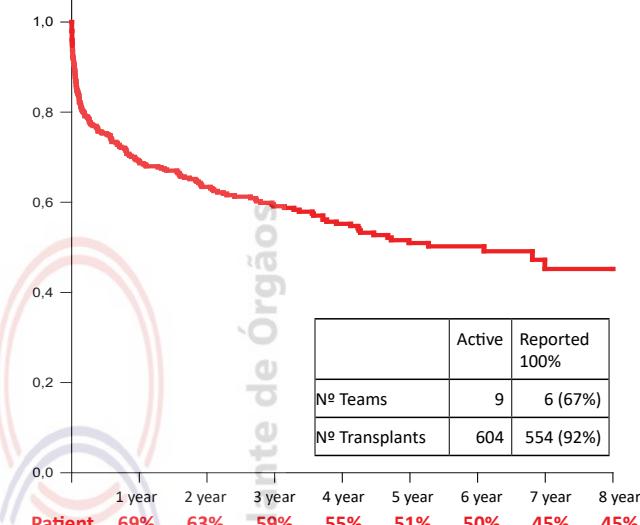
Number of transplants per million population by state during the year 2017



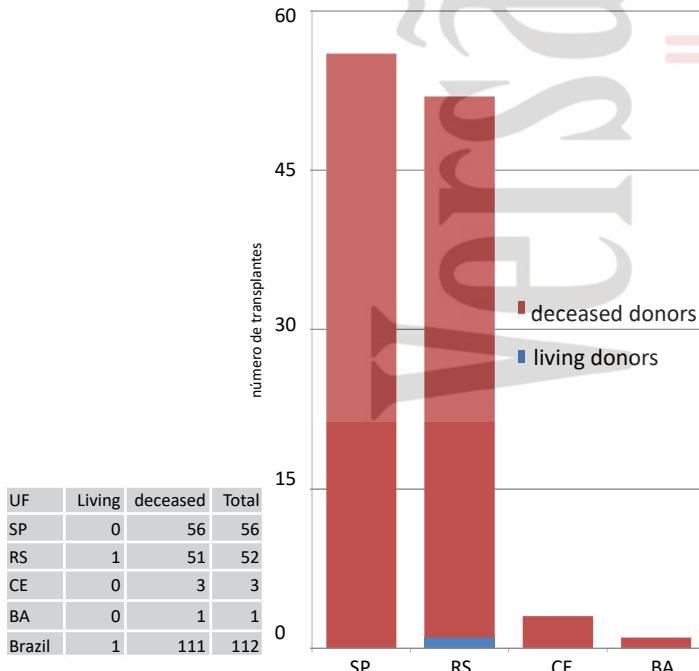
Annual number of transplants in Brazil between 2007 and 2017



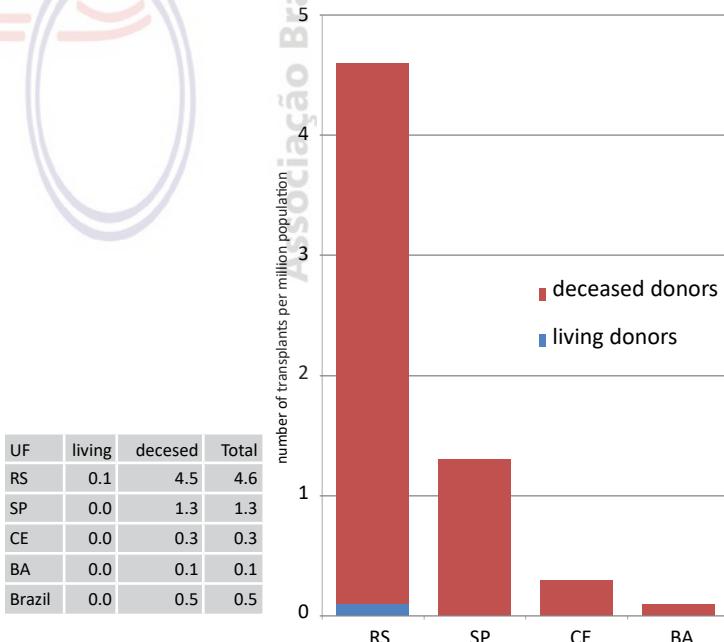
Survival Curves: Prospective started in 2010



Number of transplants, by state, in 2017



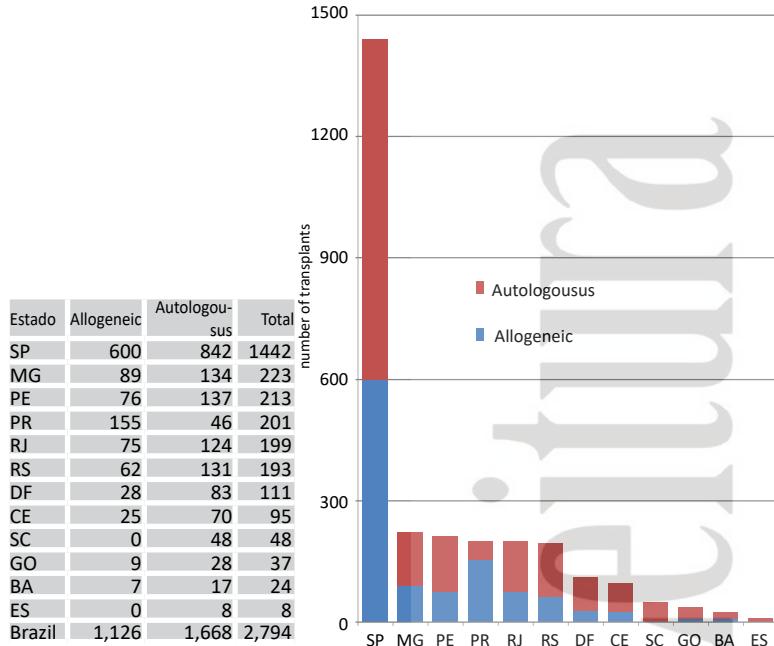
Number of transplants per million population by state during the year 2017



Annual number of transplants in Brazil between 2007 and 2017

Bone Marrow - (12 states, with 67 teams)

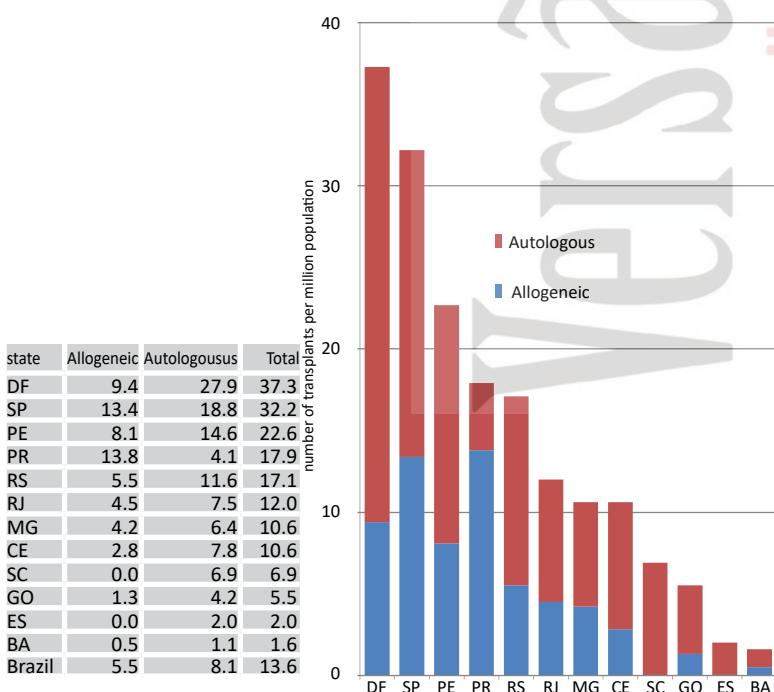
Number of bone marrow transplants by state during the year 2017



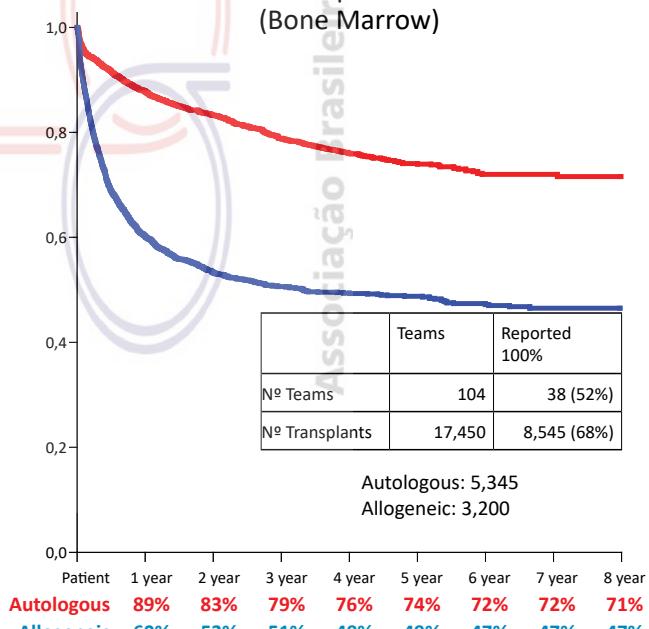
Annual number of tissue and Bone Marrow transplants



Number of bone marrow transplants per million population by state during the year 2017



Survival Curves: Prospective started in 2010 (Bone Marrow)



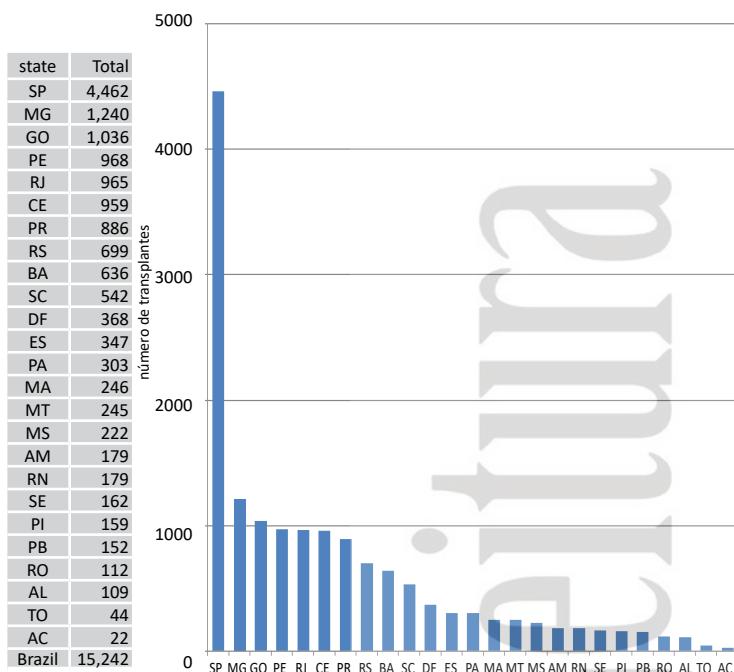
Cumulative survival include data from transplant teams who reported 100% of their results during the period



Annual number of transplants in Brazil between 2007 and 2017

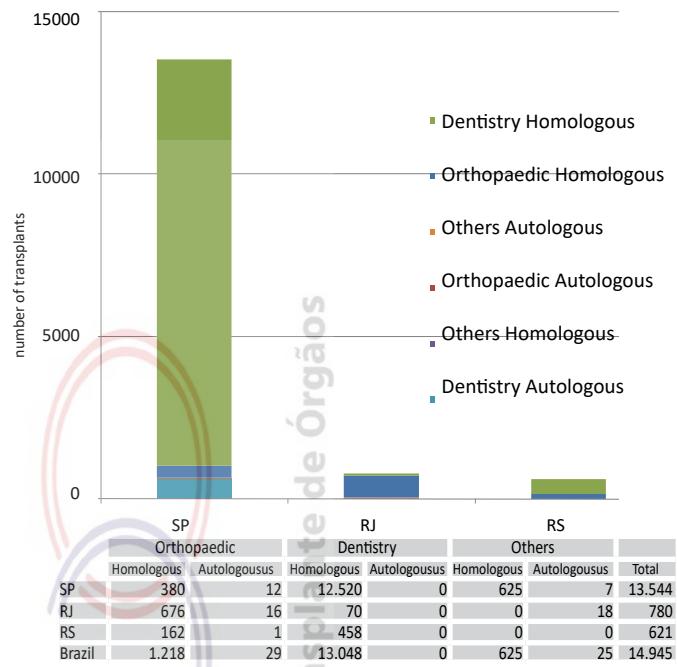
Cornea - (in 25 states)

Number of corneal transplants by state during the year 2017

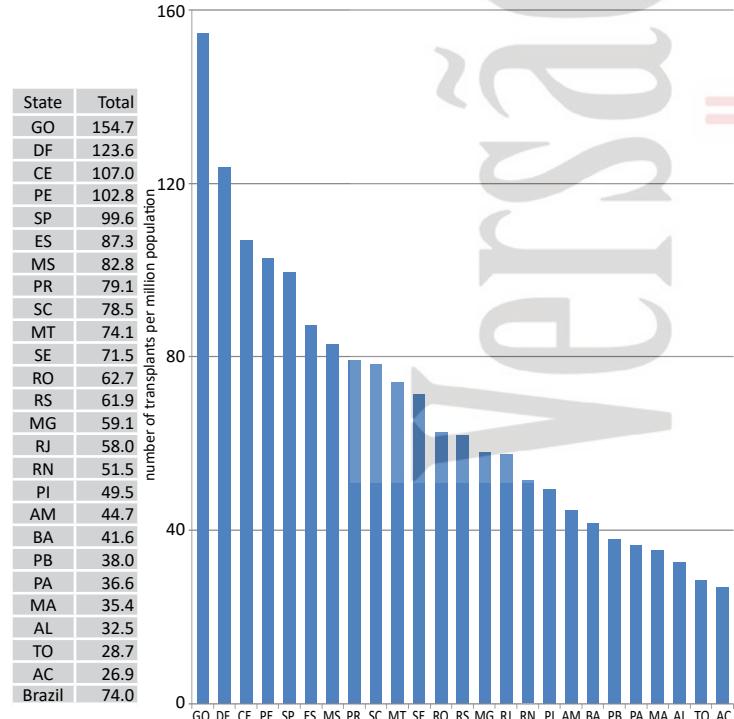


Bone- (in 3 states)

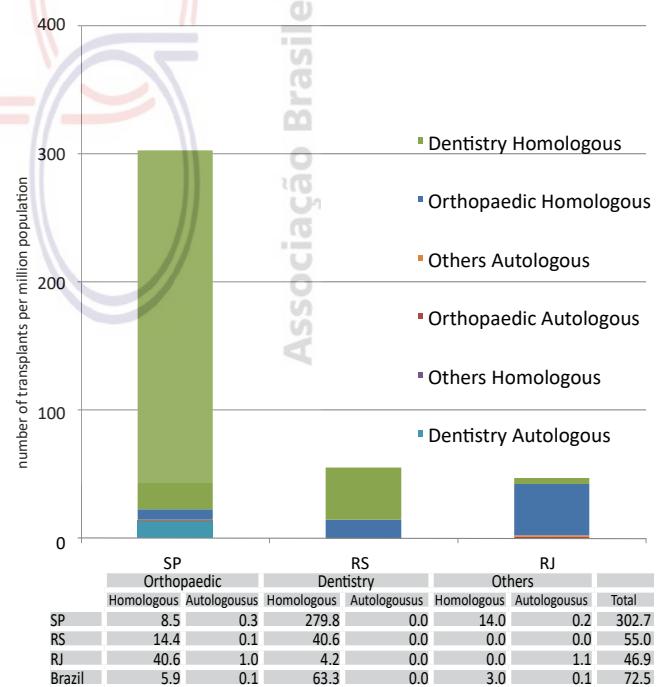
Bone transplants data available from five tissue banks in three states, during the year 2017



Number of corneal transplants per million population during the year 2017



Bone transplants per million population data available from five tissue banks in three states, during the year 2017



PEDIATRIC TRANSPLANTATION

EDITORIAL

Pediatric transplants in Brazil - 2017

The pediatric population in Brazil is approximately 64.3 million (IBGE data).

In 2017, 1184 children were (or have been) on the waiting list for a solid organ transplant, 565 (48%) were transplanted. 35 children (3.3%) died on the waiting list.

The number of pediatric renal transplants in 2017, were 319 (5pmpp), 52% of the children in waiting list. There was an increase in transplants of 1.4% with deceased donor and 12% with living donor, comparing with 2016. Seven Brazilian states have performed 90% of all pediatric renal transplants, in numerical order they are: São Paulo, Rio Grande do Sul, Ceará, Paraná, Pernambuco, Minas Gerais and Bahia. The numbers of transplants performed and their relation with the pediatric population by Brazilian regions are: Southeast 153 (6.2 pmpp), Northeast 80 (4.7 pmpp), South 71 (8.4 pmpp), North 12 (1.4 pmpp), and Midwest 3 (0.6 pmpp),

The number of pediatric hepatic transplants performed in 2017 were 206 (3.2 pmpp). In the last years there were progressive increase in the number of transplants due to the use of living donors, which for five consecutive years have outnumbered transplants with deceased donors. Eight states perform pediatric liver transplant, but the use of living donor is restricted to the states of São Paulo, Rio de Janeiro and Rio Grande do Sul.

Pediatric heart transplantation (0.6ppmp), and lung transplantation (<0.1 pmpp) rates, remained very low.

The 2017 registry shows that 48% of the children in waiting list for solid organ were transplanted. It's necessary to work on increasing donation and better use of donated organs.

In December 2017, 671 children were waiting an organ for transplantation: 418 were expecting a kidney, 191 a liver, 41 a heart and 21 a lung. We hope to be able to transplant all of them and that more children could be able to reach a transplantation center.

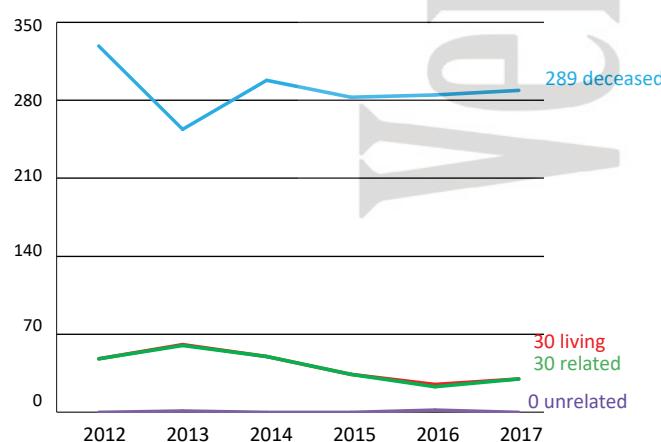
Clotilde Druck Garcia

Number of pediatric transplants in 2017

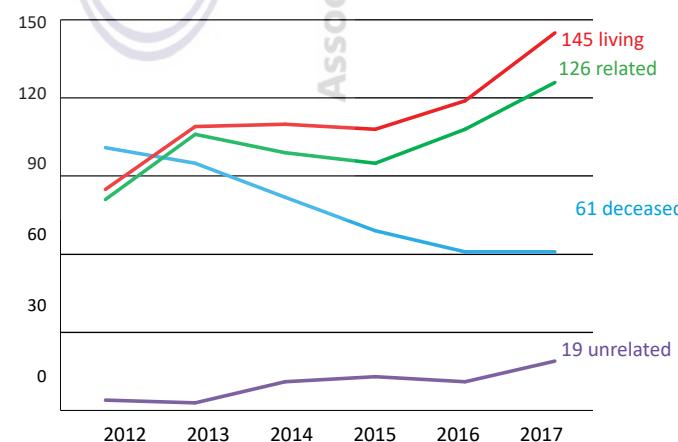
Organ	Living	Deceased	Total	PMPP*	Nº teams
Heart	0	38	38	0.6	11
Liver	145	61	206	3.2	21
Lung	1	1	2	0.0	2
Kidney	30	289	319	5.0	46
Total	176	389	565		80

PMPP*- per million of pediatric population

Annual number of pediatric Kidney transplants



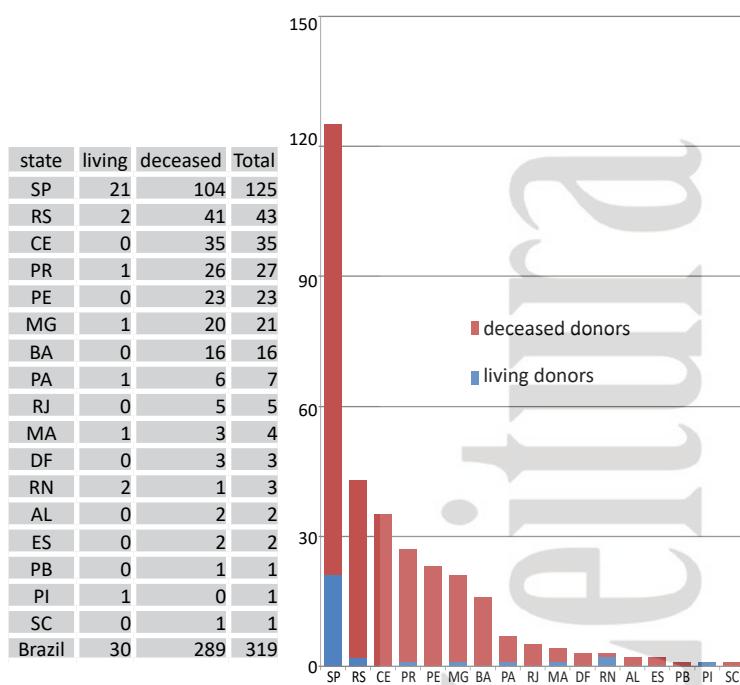
Annual number of pediatric Liver transplants



PEDIATRIC TRANSPLANTATION

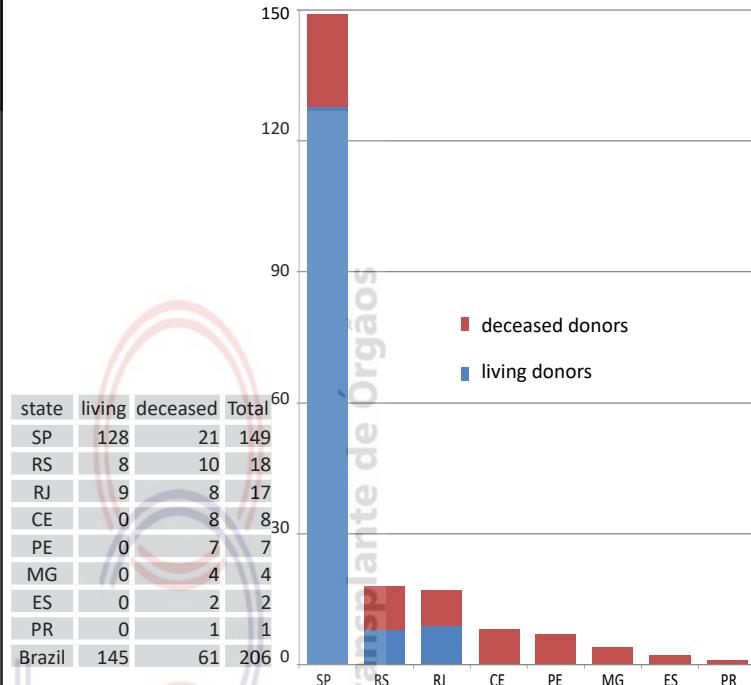
Kidney

Number of transplants, by state, in 2017

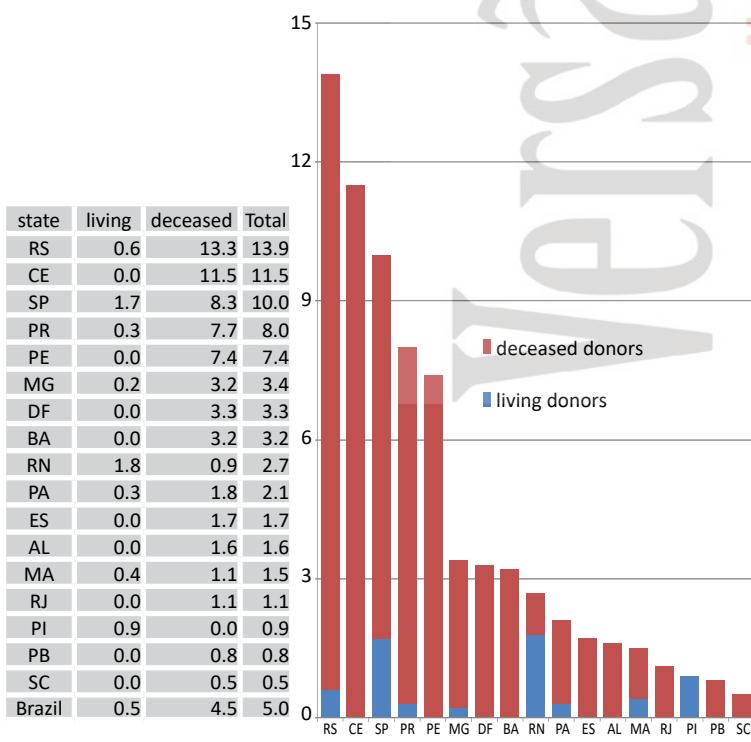


Liver

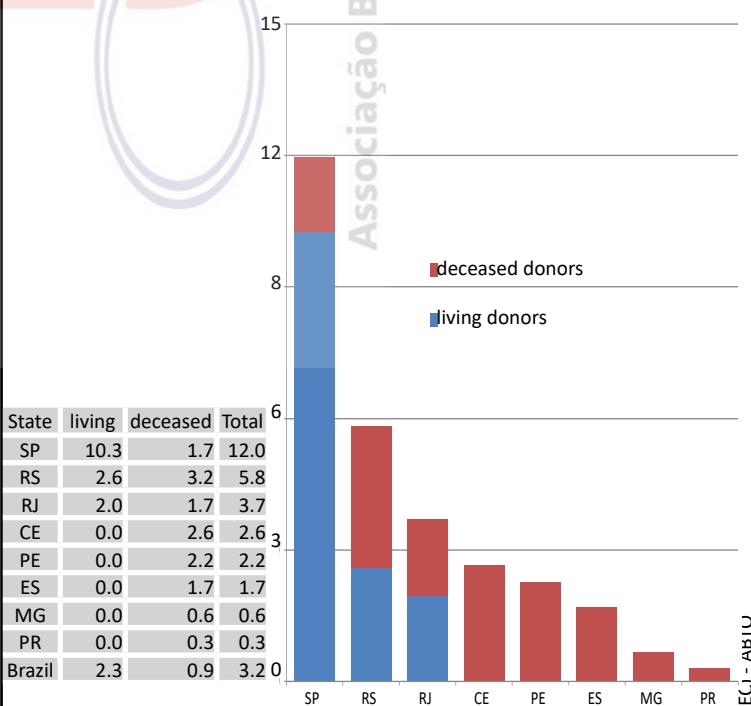
Number of transplants, by state, in 2017



Transplants pmp pediatrics by state, 2017



Transplants pmp pediatrics by state, 2017

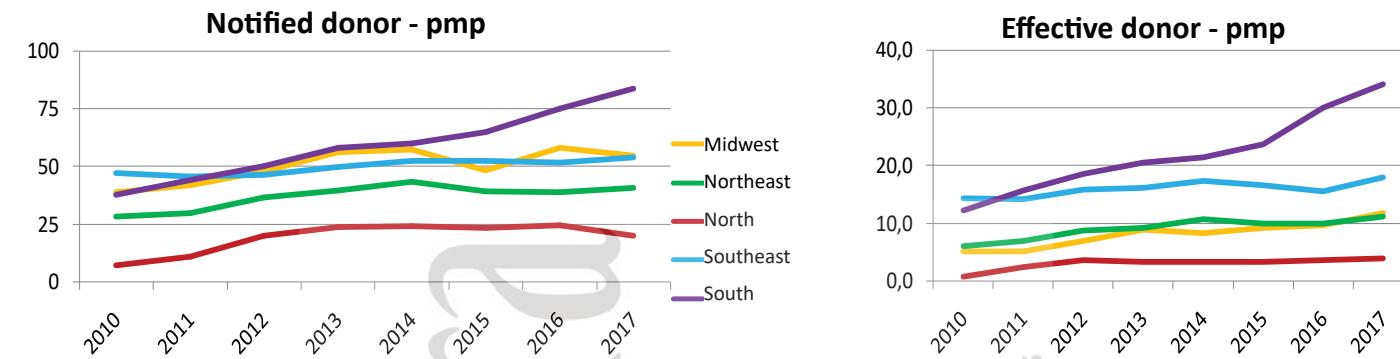


DATA FROM BRAZILIAN REGIONS



DATA FROM BRAZILIAN REGIONS

ORGAN DONATION

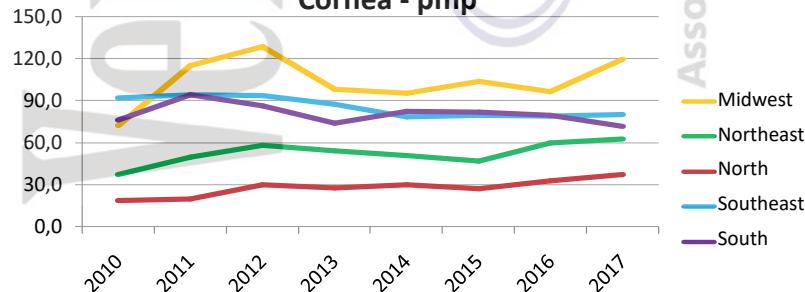


Number of potential donors by year								
Absolute Number	2010	2011	2012	2013	2014	2015	2016	2017
MIDWEST	544	589	671	789	807	734	897	856
NORTHEAST	1,509	1,589	1,948	2,102	2,298	2,208	2,205	2,305
NORTH	112	175	319	378	384	401	432	357
SOUTHEAST	3,781	3,673	3,718	4,010	4,219	4,474	4,433	4,643
SOUTH	1,033	1,212	1,369	1,592	1,643	1,881	2,190	2,467
Number pmp	2010	2011	2012	2013	2014	2015	2016	2017
MIDWEST	38.7	41.9	47.7	56.1	57.4	48.2	58.1	54.7
NORTHEAST	28.4	29.9	36.7	39.6	43.3	39.3	39.0	40.5
NORTH	7.1	11.0	20.1	23.8	24.2	23.3	24.7	20.2
SOUTHEAST	47.0	45.7	46.3	49.9	52.5	52.6	51.7	53.8
SOUTH	37.7	44.3	50.0	58.1	60.0	64.8	74.9	83.8

Number of effective donors por ano								
Absolute Number	2010	2011	2012	2013	2014	2015	2016	2017
MIDWEST	72	72	98	124	115	139	148	183
NORTHEAST	321	367	466	489	569	555	561	613
NORTH	11	37	58	53	53	57	62	69
SOUTHEAST	1,159	1,143	1,274	1,298	1,387	1,414	1,330	1,546
SOUTH	335	429	510	562	589	689	880	1,004
Number pmp	2010	2011	2012	2013	2014	2015	2016	2017
MIDWEST	5.1	5.1	7.0	8.8	8.2	9.1	9.6	11.7
NORTHEAST	6.0	6.9	8.8	9.2	10.7	9.9	9.9	10.8
NORTH	0.7	2.3	3.7	3.3	3.3	3.3	3.5	3.9
SOUTHEAST	14.4	14.2	15.9	16.2	17.3	16.6	15.5	17.9
SOUTH	12.2	15.7	18.6	20.5	21.5	23.7	30.1	34.1

Tissue Transplantation

Cornea - pmp

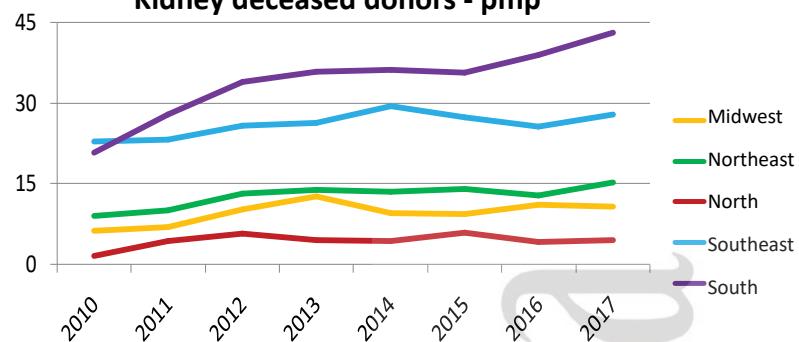


Cornea	2010	2011	2012	2013	2014	2015	2016	2017
Absolute Number	12,778	14,726	15,280	13,744	13,085	13,830	14,534	15,242
MIDWEST	1,018	1,620	1,811	1,377	1,341	1,579	1,491	1,871
NORTHEAST	1,977	2,651	3,087	2,883	2,697	2,625	3,387	3,570
NORTH	294	317	480	438	476	468	576	660
SOUTHEAST	7,398	7,557	7,534	7,022	6,321	6,784	6,754	7,014
SOUTH	2,091	2,581	2,368	2,024	2,250	2,374	2,326	2,127
Number pmp	67.0	77.2	80.1	72.1	68.6	68.2	71.1	73.8
MIDWEST	72.4	115.2	128.8	98.0	95.4	103.7	96.6	119.5
NORTHEAST	37.2	49.9	58.2	54.3	50.8	46.7	59.9	62.7
NORTH	18.5	20.0	30.3	27.6	30.0	27.2	33.0	37.3
SOUTHEAST	92.1	94.0	93.7	87.4	78.7	79.7	78.8	81.22
SOUTH	76.4	94.2	86.5	73.9	82.2	81.8	79.6	72.3

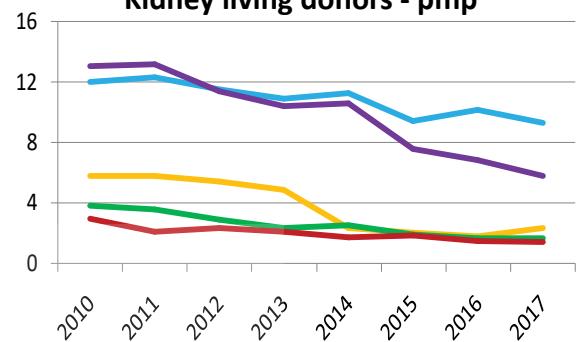
DATA FROM BRAZILIAN REGIONS

Organ Transplantation

Kidney deceased donors - pmp

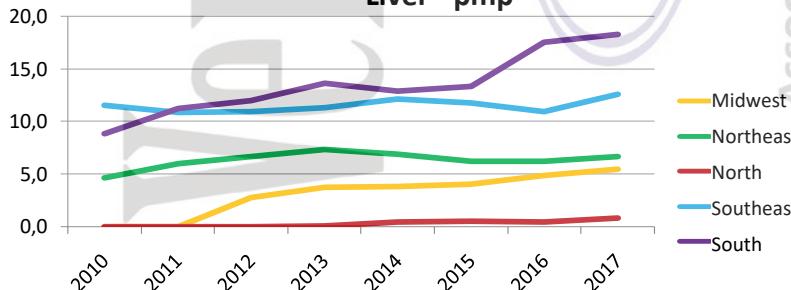


Kidney living donors - pmp



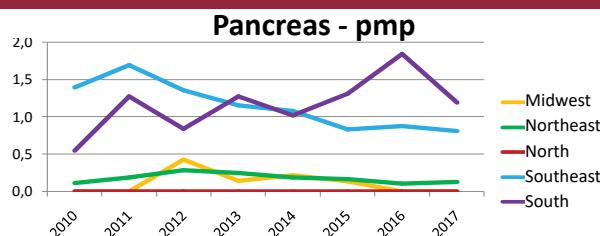
Kidney (living donors)		2010	2011	2012	2013	2014	2015	2016	2017
Absolute Number		1,655	1,652	1,501	1,386	1,385	1,189	1,217	1,134
MIDWEST		81	81	76	68	33	31	27	37
NORTHEAST		203	187	153	124	132	107	93	94
NORTH		47	33	37	33	27	31	25	25
SOUTHEAST		966	991	923	876	903	800	872	807
SOUTH		358	360	312	285	290	220	200	173
Number pmp		8.7	8.7	7.9	7.3	7.3	5.9	6.0	5.5
MIDWEST		5.8	5.8	5.4	4.8	2.3	2.0	1.7	2.4
NORTHEAST		3.8	3.5	2.9	2.3	2.5	1.9	1.6	1.7
NORTH		3.0	2.1	2.3	2.1	1.7	1.8	1.4	1.4
SOUTHEAST		12.0	12.3	11.5	10.9	11.2	9.4	10.2	9.3
SOUTH		13.1	13.1	11.4	10.4	10.6	7.6	6.8	5.9
Kidney (deceased donors)		2010	2011	2012	2013	2014	2015	2016	2017
Absolute Number		3,001	3,330	3,930	4,078	4,276	4,400	4,297	4,793
MIDWEST		88	97	143	177	134	141	172	169
NORTHEAST		479	532	698	731	715	791	721	865
NORTH		24	68	91	70	68	101	73	78
SOUTHEAST		1,841	1,867	2,070	2,119	2,369	2,332	2,194	2,405
SOUTH		569	766	928	981	990	1,035	1,137	1,276
Number pmp		15.7	17.5	20.6	21.4	22.4	21.7	21.0	23.3
MIDWEST		6.3	6.9	10.2	12.6	9.5	9.3	11.1	10.8
NORTHEAST		9.0	10.0	13.1	13.8	13.5	14.1	12.7	15.2
NORTH		1.5	4.3	5.7	4.4	4.3	5.9	4.2	4.4
SOUTHEAST		22.9	23.2	25.8	26.4	29.5	27.4	25.6	27.8
SOUTH		20.8	28.0	33.9	35.8	36.1	35.7	38.9	43.3

Liver - pmp

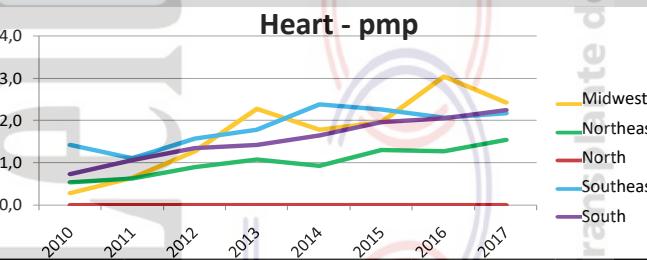


Liver		2010	2011	2012	2013	2014	2015	2016	2017
Absolute Number		1,413	1,496	1,602	1,727	1,757	1,809	1,882	2,109
MIDWEST		0	0	39	53	54	62	76	86
NORTHEAST		244	316	353	390	366	350	350	381
NORTH		0	0	0	1	7	9	7	14
SOUTHEAST		926	872	881	909	976	1,000	935	1,089
SOUTH		243	308	329	374	354	388	514	539
Number pmp		7.4	7.8	8.4	9.1	9.2	8.9	9.2	10.2
MIDWEST		0.0	0.0	2.8	3.8	3.8	4.1	4.9	5.5
NORTHEAST		4.6	6.0	6.7	7.3	6.9	6.2	6.2	6.7
NORTH		0.0	0.0	0.0	0.1	0.4	0.5	0.4	0.8
SOUTHEAST		11.5	10.9	11.0	11.3	12.1	11.7	10.9	12.6
SOUTH		8.9	11.2	12.0	13.7	12.9	13.4	17.6	18.3

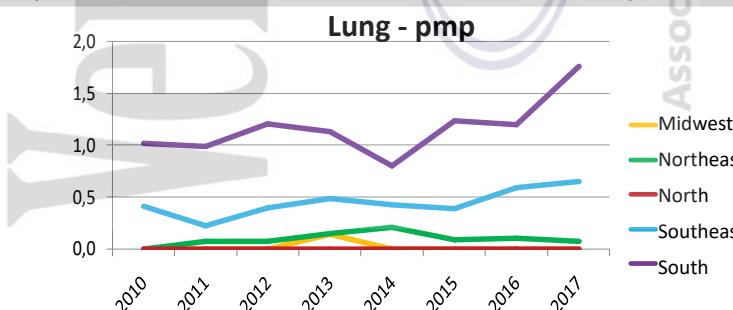
DATA FROM BRAZILIAN REGIONS



Pancreas	2010	2011	2012	2013	2014	2015	2016	2017
Absolute number	133	181	153	143	128	120	135	112
MIDWEST	0	0	6	2	3	2	0	0
NORTHEAST	6	10	15	13	10	9	6	7
NORTH	0	0	0	0	0	0	0	0
SOUTHEAST	112	136	109	93	87	71	75	70
SOUTH	15	35	23	35	28	38	54	35
Number pmp	0.7	0.9	0.8	0.7	0.7	0.6	0.7	0.5
MIDWEST	0.0	0.0	0.4	0.1	0.2	0.1	0.0	0.0
NORTHEAST	0.1	0.2	0.3	0.2	0.2	0.2	0.1	0.1
NORTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SOUTHEAST	1.4	1.7	1.4	1.2	1.1	0.8	0.9	0.8
SOUTH	0.5	1.3	0.8	1.3	1.0	1.3	1.8	1.2



Heart	2010	2011	2012	2013	2014	2015	2016	2017
Absolute number	166	160	228	271	311	353	357	380
MIDWEST	4	9	18	32	25	30	47	38
NORTHEAST	28	33	47	57	49	73	72	88
NORTH	0	0	0	0	0	0	0	0
SOUTHEAST	114	89	126	143	192	193	178	188
SOUTH	20	29	37	39	45	57	60	66
Number pmp	0.9	0.8	1.2	1.4	1.6	1.7	1.7	1.8
MIDWEST	0.3	0.6	1.3	2.3	1.8	2.0	3.0	2.4
NORTHEAST	0.5	0.6	0.9	1.1	0.9	1.3	1.3	1.5
NORTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SOUTHEAST	1.4	1.1	1.6	1.8	2.4	2.3	2.1	2.2
SOUTH	0.7	1.1	1.4	1.4	1.6	2.0	2.1	2.2



Lung	2010	2011	2012	2013	2014	2015	2016	2017
Absolute number	61	49	69	80	67	74	92	112
MIDWEST	0	0	0	2	0	0	0	0
NORTHEAST	0	4	4	8	11	5	6	4
NORTH	0	0	0	0	0	0	0	0
SOUTHEAST	33	18	32	39	34	33	51	56
SOUTH	28	27	33	31	22	36	35	52
Number pmp	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5
MIDWEST	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
NORTHEAST	0.0	0.1	0.1	0.2	0.2	0.1	0.1	0.1
NORTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SOUTHEAST	0.4	0.2	0.4	0.5	0.4	0.4	0.6	0.6
SOUTH	1.0	1.0	1.2	1.1	0.8	1.2	1.2	1.8

Waiting List

Patients active on the waiting list (December 2017)

State	Kidney	Liver	Heart	Lung	Pancreas	Pancreas/ Kidney	Cornea	TOTAL
Total - Brazil	21.059	1.101	255	180	30	511	9.266	32.402
Acre	18	11	0	0	0	0	12	41
Alagoas	280	0	0	0	0	0	169	449
Amazonas	0	0	0	0	0	0	33	33
Bahia	838	5	0	4	0	0	766	1.613
Ceará	621	0	14	3	1	10	6	655
Distrito Federal	279	14	19	0	0	0	199	511
Espírito Santo	927	19	4	0	0	0	65	1.015
Goiás	199	0	1	0	0	0	82	282
Maranhão	112	0	0	0	0	0	560	672
Mato Grosso	0	0	0	0	0	0	224	224
Mato Grosso do Sul	40	0	0	0	0	0	47	87
Minas Gerais	2.347	47	24	0	2	64	944	3.428
Pará	73	0	0	0	0	0	986	1.059
Paraíba	240	5	0	0	0	0	328	573
Paraná	1.134	156	18	0	1	17	2	1.328
Pernambuco	530	56	8	0	0	0	3	597
Piauí	152	0	0	0	0	0	389	541
Rio de Janeiro	1.016	45	15	0	0	0	842	1.918
Rio Grande do Norte	189	0	0	0	0	0	171	360
Rio Grande do Sul	938	146	22	93	5	9	11	1.224
Rondonia	57	0	0	0	0	0	117	174
Santa Catarina	302	14	4	0	1	13	61	395
São Paulo	10.767	583	125	80	20	398	3.048	15.021
Sergipe	0	0	1	0	0	0	178	179
Tocantins	0	0	0	0	0	0	23	23

Pediatric patients active on the waiting list (December 2017)

State	Kidney	Liver	Heart	Lung	Pancreas	Pancreas/ Kidney	Cornea	TOTAL
Total - Brazil	418	191	41	21	1	0	367	1.039
Acre	0	0	0	0	0	0	0	0
Alagoas	3	0	0	0	0	0	46	49
Amazonas	0	0	0	0	0	0	1	1
Bahia	0	0	0	0	0	0	0	0
Ceará	1	143	3	0	0	0	0	147
Distrito Federal	1	0	0	0	0	0	7	8
Espírito Santo	6	0	0	0	0	0	3	9
Goiás	1	0	0	0	0	0	15	16
Maranhão	0	0	0	0	0	0	0	0
Mato Grosso	0	0	0	0	0	0	17	17
Mato Grosso do Sul	1	0	0	0	0	0	5	6
Minas Gerais	66	0	0	0	0	0	44	110
Pará	7	0	0	0	0	0	11	18
Paraíba	2	0	0	0	0	0	17	19
Paraná	18	0	0	0	0	0	2	20
Pernambuco	8	0	1	0	0	0	0	9
Piauí	3	0	0	0	0	0	6	9
Rio de Janeiro	24	8	2	0	0	0	36	70
Rio Grande do Norte	1	0	0	0	0	0	0	1
Rio Grande do Sul	20	4	5	6	0	0	0	35
Rondonia	0	0	0	0	0	0	0	0
Santa Catarina	2	0	0	0	1	0	0	3
São Paulo	254	36	30	15	0	0	147	482
Sergipe	0	0	0	0	0	0	10	10
Tocantins	0	0	0	0	0	0	0	0

Waiting List

Number of patients and mortality by State

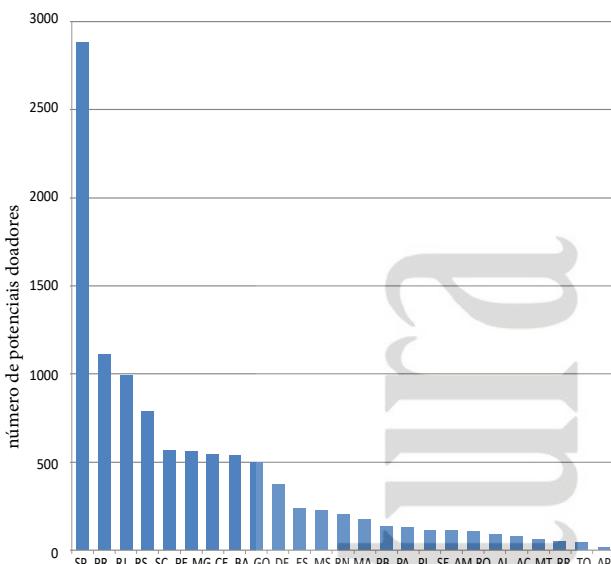
	Kidney		Liver		Heart		Lung		Pancreas		Pancreas/ Kidney		Cornea		TOTAL		
	Total	Pediatric	Total	Pediatric	Total	Pediatric	Total	Pediatric	Total	Pediatric	Total	Pediatric	Total	Pediatric	Total	Pediatric	
Total - Brazil	Entering	10.565	278	2.829	298	443	56	166	10	58	0	151	0	16.552	506	30.764	1.148
	Mortality	1.176	4	539	28	86	2	31	1	0	0	6	0	57	0	1.895	35
Acre	Entering	16	0	49	0	0	0	0	0	0	0	0	0	34	0	99	0
	Mortality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alagoas	Entering	136	0	0	0	2	0	0	0	0	0	0	0	101	0	239	0
	Mortality	8	0	0	0	0	0	0	0	0	0	0	0	2	0	10	0
Amazonas	Entering	3	0	0	0	0	0	0	0	0	0	0	0	119	4	122	4
	Mortality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bahia	Entering	1131	0	115	0	3	0	13	0	0	0	0	0	1855	0	3117	0
	Mortality	66	0	19	0	0	0	0	0	0	0	0	0	17	0	102	0
Ceará	Entering	326	15	293	107	28	21	4	0	1	0	2	0	572	16	1226	159
	Mortality	8	0	44	0	4	0	1	0	0	0	0	0	0	0	57	0
Distrito Federal	Entering	210	4	119	0	61	4	0	0	0	0	0	0	499	7	889	15
	Mortality	4	0	9	0	10	0	0	0	0	0	0	0	1	0	24	0
Espírito Santo	Entering	906	0	200	0	30	0	0	0	0	0	0	0	962	2	2098	2
	Mortality	239	0	66	0	9	0	0	0	0	0	0	0	0	0	314	0
Goiás	Entering	106	1	0	0	5	0	0	0	0	0	0	0	991	46	1102	47
	Mortality	22	0	0	0	0	0	0	0	0	0	0	0	4	0	26	0
Maranhão	Entering	30	4	0	0	0	0	0	0	0	0	0	0	259	1	289	5
	Mortality	5	0	0	0	0	0	0	0	0	0	0	0	9	0	14	0
Mato Grosso	Entering	0	0	0	0	0	0	0	0	0	0	0	0	176	12	176	12
	Mortality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mato Grosso do Sul	Entering	26	0	0	0	0	0	0	0	0	0	0	0	226	12	252	12
	Mortality	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Minas Gerais	Entering	366	9	33	1	15	0	0	0	2	0	10	0	396	20	822	30
	Mortality	30	0	7	0	6	0	0	0	0	0	0	0	0	0	43	0
Pará	Entering	170	8	0	0	0	0	0	0	0	0	0	0	426	25	596	33
	Mortality	12	0	0	0	0	0	0	0	0	0	0	0	6	0	18	0
Paraíba	Entering	472	5	19	0	0	0	0	0	0	0	0	0	607	23	1098	28
	Mortality	7	0	0	0	0	0	0	0	0	0	0	0	2	0	9	0
Paraná	Entering	566	15	273	1	39	0	0	0	2	0	12	0	696	25	1588	41
	Mortality	80	0	12	0	8	0	0	0	0	0	1	0	0	0	101	0
Pernambuco	Entering	494	12	220	12	57	3	0	0	0	0	4	0	981	34	1756	61
	Mortality	84	0	53	3	6	0	0	0	0	0	4	0	0	0	147	3
Piauí	Entering	240	3	0	0	0	0	0	0	0	0	0	0	211	7	451	10
	Mortality	21	0	0	0	0	0	0	0	0	0	0	0	2	0	23	0
Rio de Janeiro	Entering	776	0	274	0	25	0	0	0	0	0	0	0	1411	0	2486	0
	Mortality	15	0	23	0	6	0	0	0	0	0	0	0	10	0	54	0
Rio Grande do Norte	Entering	90	1	0	0	0	0	0	0	0	0	0	0	234	0	324	1
	Mortality	7	0	0	0	0	0	0	0	0	0	0	0	2	0	9	0
Rio Grande do Sul	Entering	796	40	216	25	36	7	95	4	0	0	1	0	979	43	2123	119
	Mortality	45	1	43	1	6	1	18	0	0	0	0	0	0	0	112	3
Rondônia	Entering	22	0	0	0	0	0	0	0	0	0	0	0	92	0	114	0
	Mortality	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Santa Catarina	Entering	329	4	159	0	9	0	0	0	1	0	10	0	440	8	948	12
	Mortality	10	0	22	0	6	0	0	0	0	1	0	0	0	0	39	0
São Paulo	Entering	3354	157	859	152	131	21	54	6	52	0	112	0	4070	216	8632	552
	Mortality	505	3	241	24	24	1	12	1	0	0	0	0	1	0	783	29
Sergipe	Entering	0	0	0	0	2	0	0	0	0	0	0	0	194	5	196	5
	Mortality	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2	0
Tocantins	Entering	0	0	0	0	0	0	0	0	0	0	0	0	21	0	21	0
	Mortality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATA FROM BRAZILIAN STATES

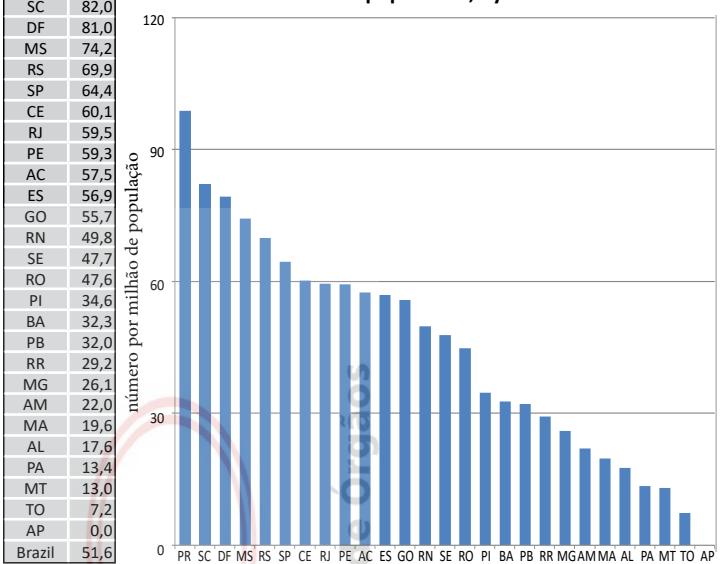
ORGAN DONATION x TRANSPLANTS DURING YEAR 2017

State	Total
SP	2.880
PR	1.111
RJ	990
RS	789
SC	567
PE	558
MG	548
CE	539
BA	493
GO	373
DF	241
ES	226
MS	199
RN	173
MA	136
PB	128
PA	111
PI	111
SE	108
AM	88
RO	85
AL	59
AC	47
MT	43
RR	15
TO	11
AP	0
Brazil	10.629

Number of notifications of potential donors, by state

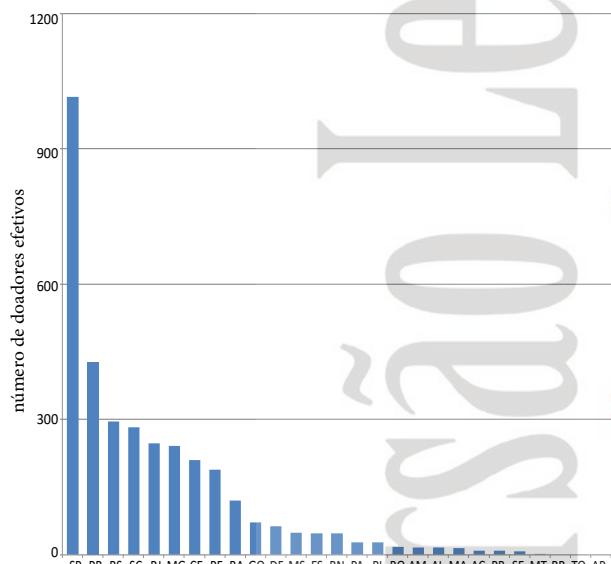


Number of notifications of potential donors, per million population, by state

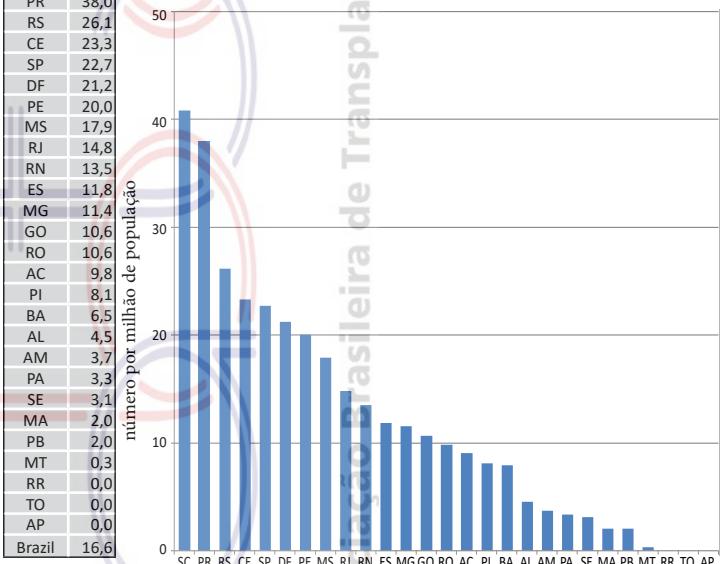


State	Total
SP	1.014
PR	427
RS	295
SC	282
RJ	246
MG	239
CE	209
PE	188
BA	99
GO	71
DF	63
MS	48
ES	47
RN	47
PA	27
PI	26
RO	19
AM	15
AL	15
MA	14
AC	8
PB	8
SE	7
MT	1
RR	0
TO	0
AP	0
Brazil	3.415

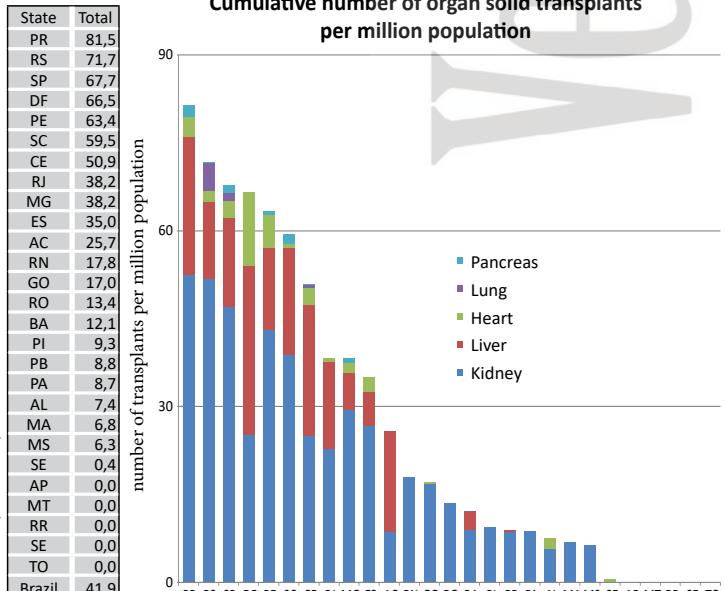
Number of effective donors by state



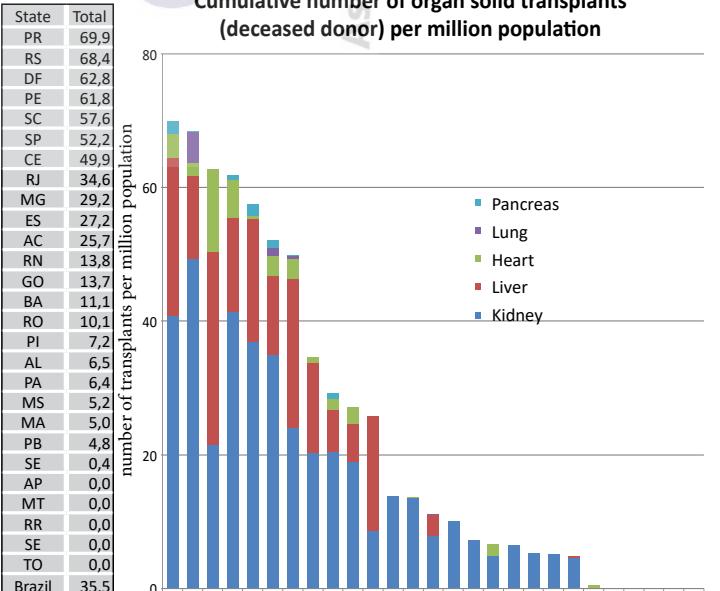
Number of effective donors, per million population



Cumulative number of organ solid transplants per million population



Cumulative number of organ solid transplants (deceased donor) per million population



DATA FROM BRAZILIAN STATES

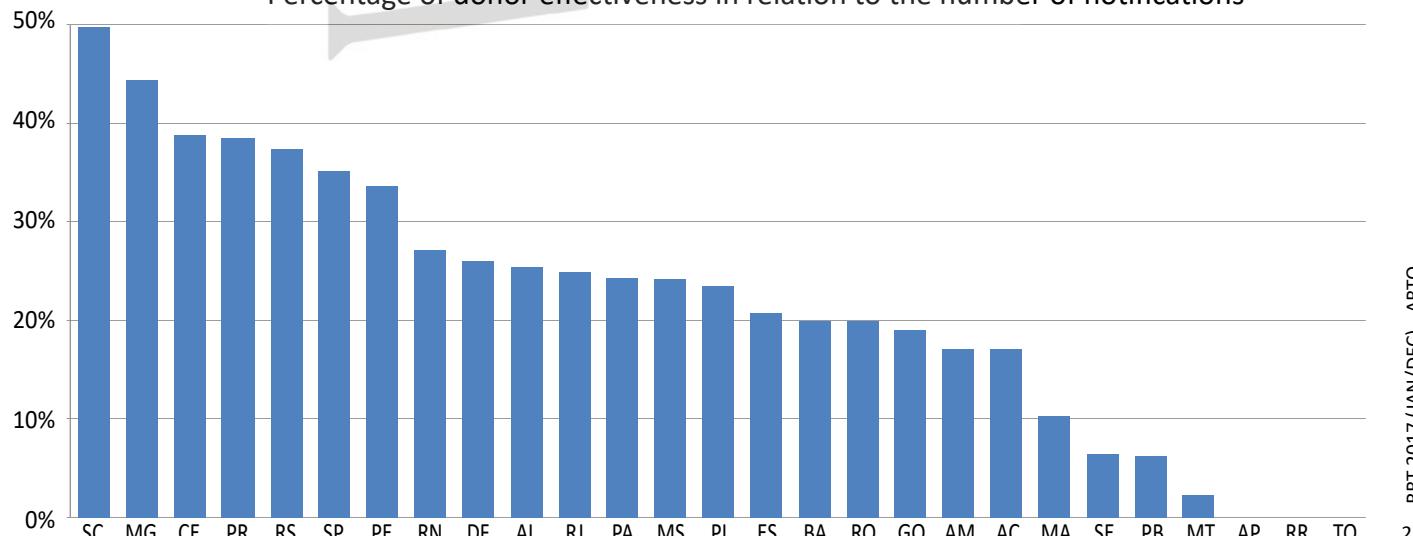
Notifications of potential donors, effective donors and donors whose organs were transplanted by state during the year 2017.

State	Notifications (potential donors)		Refused Donors		Elegible donors		Effective donors		Donors with organs transplanted		Mutiple organ donors	
	Nº	pmp/year	Nº	%	Nº	pmp/ano	Nº	pmp/ano	Nº	pmp/ano	Nº	%
Total - Brazil	10.629	51,6	7.214	(68%)	5.917	36,7	3.415	16,6	3.100	15,0	2.001	(65%)
Acre	47	57,5	39	(83%)	33	40,4	8	9,8	6	7,3	2	(33%)
Alagoas	59	17,6	44	(75%)	34	10,1	15	4,5	15	4,5	15	(100%)
Amapá	0	0,0	0	(0%)	0	0,0	0	0,0	0	0,0	0	(0%)
Amazonas	88	22,0	73	(83%)	52	13,0	15	3,7	11	2,7	4	(36%)
Bahia	493	32,3	394	(80%)	324	21,2	99	6,5	87	5,7	78	(90%)
Ceará	539	60,1	330	(61%)	451	50,3	209	23,3	194	21,6	143	(74%)
Distrito Federal	241	81,0	178	(74%)	154	51,7	63	21,2	55	18,5	34	(62%)
Espírito Santo	226	56,9	179	(79%)	162	40,8	47	11,8	46	11,6	30	(65%)
Goiás	373	55,7	302	(81%)	280	41,8	71	10,6	65	9,7	43	(66%)
Maranhão	136	19,6	122	(90%)	86	12,4	14	2,0	12	1,7	1	(8%)
Mato Grosso	43	13,0	42	(98%)	8	2,4	1	0,3	1	0,3	1	(100%)
Mato Grosso do Sul	199	74,2	151	(76%)	171	63,8	48	17,9	45	16,8	30	(67%)
Minas Gerais	548	26,1	309	(56%)	326	15,5	239	11,4	231	11,0	221	(96%)
Pará	111	13,4	84	(76%)	79	9,5	27	3,3	27	3,3	11	(41%)
Paraíba	128	32,0	120	(94%)	74	18,5	8	2,0	5	1,3	5	(100%)
Paraná	1111	98,8	684	(62%)	852	75,8	427	38,0	386	34,3	273	(71%)
Pernambuco	558	59,3	370	(66%)	491	52,2	188	20,0	183	19,4	131	(72%)
Piauí	111	34,6	85	(77%)	66	20,5	26	8,1	20	6,2	12	(60%)
Rio de Janeiro	990	59,5	744	(75%)	912	54,8	246	14,8	215	12,9	150	(70%)
Rio Grande do Norte	173	49,8	126	(73%)	149	42,9	47	13,5	46	13,2	36	(78%)
Rio Grande do Sul	789	69,9	494	(63%)	647	57,3	295	26,1	230	20,4	127	(55%)
Rondonia	85	47,6	66	(78%)	51	28,5	19	10,6	13	7,3	2	(15%)
Roraima	15	29,2	15	(100%)	1	1,9	0	0,0	0	0,0	0	(0%)
Santa Catarina	567	82,0	285	(50%)	457	66,1	282	40,8	217	31,4	172	(79%)
São Paulo	2880	64,4	1866	(65%)			1014	22,7	983	22,0	475	(48%)
Sergipe	108	47,7	101	(94%)	56	24,7	7	3,1	7	3,1	5	(71%)
Tocantins	11	7,2	11	(0%)	1	0,7	0	0,0	0	0,0	0	(0%)

Excluding São Paulo state data.

source: State Transplants Centrals

Percentage of donor effectiveness in relation to the number of notifications



DATA FROM BRAZILIAN STATES

Reasons for non-fulfillment of organ donation by notified potential donors during the year 2017.

State	Potential Donors number	Family Interview			Exclusion Reasons							
		Performed	nonconsent	%	Medical Reasons Nº	Cardiopulmonary arrest		unconfirmed brain death		Others Nº		
						%	Nº	%	Nº			
Total - Brazil	10.629	6.526	2.740 (42%)		1.559 (15%)	1.232(12%)	615 (6%)	1.068 (10%)				
Acre	47	22	11	(50%)	12	(26%)	0	(0%)	13	(28%)	3	(6%)
Alagoas	59	32	14	(44%)	3	(5%)	2	(3%)	25	(42%)	0	(0%)
Amapá	0	0	0	(0%)	0	(0%)	0	(0%)	0	(0%)	0	(0%)
Amazonas	88	34	19	(56%)	13	(15%)	0	(0%)	36	(41%)	5	(6%)
Bahia	493	316	196	(62%)	76	(15%)	84	(17%)	0	(0%)	38	(8%)
Ceará	539	333	128	(38%)	90	(17%)	74	(14%)	19	(4%)	19	(4%)
Distrito Federal	241	116	37	(32%)	122	(51%)	3	(1%)	13	(5%)	3	(1%)
Espírito Santo	226	116	63	(54%)	42	(19%)	3	(1%)	61	(27%)	10	(4%)
Goiás	373	225	139	(62%)	74	(20%)	3	(1%)	22	(6%)	64	(17%)
Maranhão	136	44	28	(64%)	36	(26%)	40	(29%)	1	(1%)	17	(13%)
Mato Grosso	43	5	4	(80%)	2	(5%)	0	(0%)	34	(79%)	2	(5%)
Mato Grosso do Sul	199	133	75	(56%)	31	(16%)	21	(11%)	15	(8%)	9	(5%)
Minas Gerais	548	289	105	(36%)	12	(2%)	70	(13%)	14	(3%)	108	(20%)
Pará	111	67	35	(52%)	14	(13%)	6	(5%)	27	(24%)	2	(2%)
Paraíba	128	46	28	(61%)	25	(20%)	12	(9%)	27	(21%)	28	(22%)
Paraná	1111	726	231	(32%)	237	(21%)	120	(11%)	27	(2%)	69	(6%)
Pernambuco	558	341	150	(44%)	148	(27%)	6	(1%)	59	(11%)	7	(1%)
Piauí	111	70	37	(53%)	35	(32%)	8	(7%)	4	(4%)	1	(1%)
Rio de Janeiro	990	514	234	(46%)	266	(27%)	197	(20%)	44	(4%)	3	(0%)
Rio Grande do Norte	173	125	66	(53%)	22	(13%)	7	(4%)	24	(14%)	7	(4%)
Rio Grande do Sul	789	544	235	(43%)	102	(13%)	97	(12%)	57	(7%)	3	(0%)
Rondonia	85	49	28	(57%)	8	(9%)	1	(1%)	28	(33%)	1	(1%)
Roraima	15	0	0	(0%)	0	(0%)	0	(0%)	6	(40%)	9	(60%)
Santa Catarina	567	453	150	(33%)	75	(13%)	14	(2%)	7	(1%)	39	(7%)
São Paulo	2880	1891	702	(37%)	88	(3%)	464	(16%)	0	(0%)	612	(21%)
Sergipe	108	34	25	(74%)	26	(24%)	0	(0%)	48	(44%)	2	(2%)
Tocatins	11	1	0	(0%)	0	(0%)	0	(0%)	4	(0%)	7	(0%)

Source: States Transplants Centrals

DATA FROM BRAZILIAN STATES

Profile: age, gender, cause of death and blood group of the organ donors

State	Gender		Causes of death			Age						Blood group				
	Male	Fem	BT*	CVA**	Others	≤5	6-10	11-17	18-34	35-49	50-64	≥65	A	AB	B	O
TOTAL - Brazil	1967	1448	1091	1818	506	68	32	153	702	987	1088	385	1253	129	351	1682
Percentual	58%	42%	32%	53%	15%	2%	1%	4%	21%	29%	32%	11%	37%	4%	10%	49%
Acre	7	1	4	4	0	0	0	0	3	3	1	1	2	0	2	4
Alagoas	9	6	7	7	1	0	1	3	3	3	5	0	5	0	1	9
Amapá	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amazonas	7	8	4	8	3	0	0	2	3	6	3	1	4	0	0	11
Bahia	59	40	31	47	21	0	4	0	30	35	20	10	32	4	6	57
Ceará	137	72	109	87	13	5	2	18	59	54	47	24	83	8	21	97
Distrito Federal	38	25	16	35	12	3	3	5	11	27	13	1	22	3	8	30
Espírito Santo	30	17	20	22	5	0	0	4	12	15	13	3	16	2	9	20
Goiás	48	23	38	24	9	1	0	6	22	18	20	4	23	1	8	39
Maranhão	9	5	4	7	3	0	0	3	1	7	3	0	2	2	0	10
Mato Grosso	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	1
Mato Grosso do Sul	24	24	16	5	27	0	0	5	5	18	17	3	14	1	2	31
Minas Gerais	128	111	75	139	25	8	2	15	47	74	80	13	98	4	28	109
Pará	21	6	20	4	3	0	0	3	13	9	2	0	5	1	6	15
Paraíba	3	5	2	3	3	0	0	2	3	1	2	0	2	0	2	4
Paraná *	229	198	114	219	94	11	5	10	80	104	150	67	181	20	34	192
Pernambuco	137	51	89	85	14	2	1	10	66	60	42	7	64	5	21	98
Piauí	16	10	8	17	1	0	0	0	5	14	3	4	6	1	3	16
Rio de Janeiro	150	96	66	136	44	5	1	9	52	62	87	30	66	4	31	145
Rio Grande do Norte	30	17	19	18	10	2	0	4	7	13	16	5	15	4	5	23
Rio Grande do Sul	157	138	84	176	35	9	3	14	54	69	85	61	117	18	22	138
Rondonia	11	8	9	6	4	0	0	2	3	7	5	2	6	1	4	8
Roraima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Catarina	167	115	77	154	51	6	2	8	45	75	96	50	120	14	18	130
São Paulo	547	467	274	613	127	16	8	30	174	311	377	98	369	36	119	490
Sergipe	3	4	4	2	1	0	0	0	3	2	1	1	1	0	1	5
Tocantins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BT* Brain Trauma

**CVA - Cerebro vascular accident

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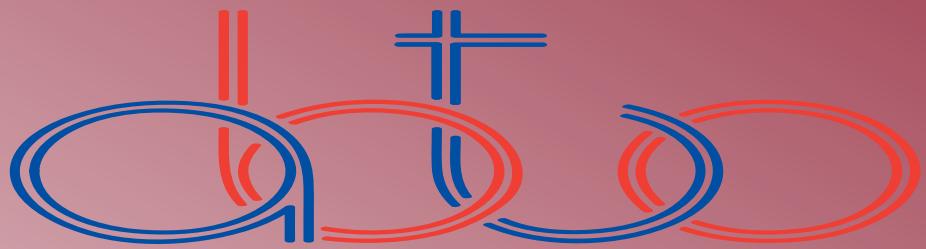
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