RBT
Brazilian Transplantation Registry
Official report of Brazilian Organ Transplantation Society

XXI YEAR Nº 4

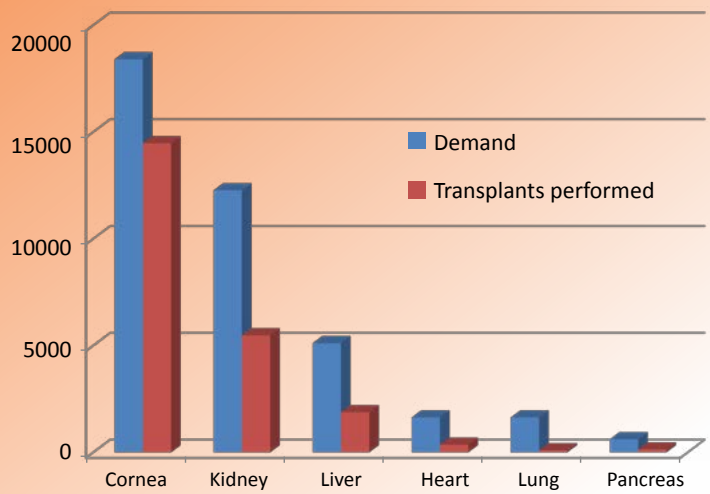
2016

Organ Transplantation in Brazil

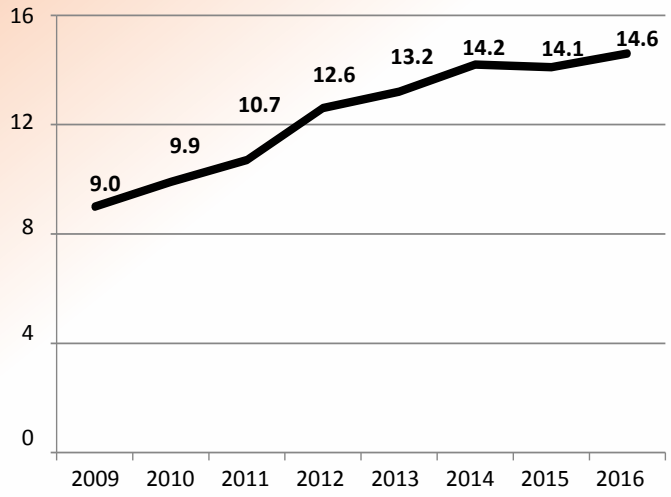
(2009-2016)

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 professional 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



Associação Brasileira de Transplante de Órgãos

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Transplant Coordination: Joel de Andrade

Expedients:
Editor: Valter Duro Garcia
Associate Editor: Lucio Pacheco

Thiago Quintas Camara (thiago@abto,org,br)
Data Management / Creation and Production

Headquarters:
Brazilian Organ Transplantation Society- ABTO
Av. Paulista. 2001 - 17º andar - cj 1704 / 1707
São Paulo - SP
CEP 01311-300
Phones: 55 11 3283-1753 / 3262-3353
Fax: 55 11 3289-3169
e-mail: abto@abto.org.br
www.abto.org.br

Year of difficulties, but some progress.

In Brazil, in the year of 2016 the number of effective donors increased by 3.5% reaching 14.6 donors per million population (pmp). This rate is however 3.4% lower than the established target for the year. Brazilian regions were again very asymmetrical in the donation rates. Southern Brazil reached 30.1 donors pmp, Southeast 15.5 pmp, Northeast 9.9 pmp, Central region 9.6 pmp and the North region reached only 3.5 donors pmp. Santa Catarina state reached 36.8 donors pmp and Parana state increased its rate by 42% within one year reaching 30.9 pmp. The goal for the year of 2017 in Brazil is to reach the rate of 16.6 effective donors pmp.

The notification rate of potential donors has increased slowly over the years reaching 49.7 pmp in 2016. Refusal of organ donation by Brazilian families remains quite elevated at 43%. In some states more than 75% of the families did not consent organ donation in 2016. Only 11% of the potential donors were seniors (65 years-older or more) indicating that aged donors are not being effectively achieved in the majority of Brazilian states.

In 2016 it was observed an increment in the number of lung transplants (24.3%), pancreas transplants (11.7%), liver transplants (4.1%) and heart transplants (1.1%). The total number of kidney transplants decreased by 1.7%. This decrease is attributed to a lower number of deceased donor transplants (-2.4%) in spite of the increment of almost 1% in the number of living donor transplants, reverting a trend observed in the last ten years. The decrement in the number of deceased donor kidney transplants occurred in spite of an increment in the rate in effective donation indicating an increment of discarded kidneys. Only three Brazilian states (SC, RS and SP) reached a rate superior to 45 kidney transplants pmp in the year.

The increase in the number of liver transplants occurred both, and in the same magnitude, in transplant with living and deceased donors. Three Brazilian states surpassed 20 liver transplants pmp (DF, SC and CE). Heart transplants were performed in eleven states and the number of heart donors was substantially higher in one state (DF 14.8 pmp). Lung transplants were performed in 6 centers and were kept in a low volume except for two centers. Only one state performed more than 2 transplants pmp (RS with a rate of 3.1 pmp). The increment in the small number of pancreas transplants reveals a possible recover, however the number of these transplants remains very low and one state (PR) performed 3.9 pancreas transplants pmp in 2016. No intestine transplants and only one multi visceral transplant was performed in 2016.

In December 2016 the number of patients in the kidney waiting list was 21.264 (104 patients pmp) reaching only about half of the expected estimated number, between 36.000 – 42.000 patients. The vast majority of the wait listed patients come from three states (SP, MG and PR) that have 36.6% of the Brazilian population and 71.4% of the patients in the waiting list. In the North region there are less than 35 patients pmp in the wainting list. 13.078 patients entered the kidney waiting list in 2016 (70 to 85% of the expected number) and the mortality in the list was 4.7% per year.

The liver transplant waiting list finished the year with 1331 patients (6.5 pmp). Three states have a higher percentage of listed patients (PR: 15.2 pmp; SP: 13.6 pmp and RS: 13.5 pmp). 3728 patients entered the list (18.2 pmp), around 73% of the expected number of 25 pmp. Liver waiting list mortality was 15% in the year. The number of patients entering the waiting lists for heart (3.1 pmp), pancreas-kidney (1.2 pmp) and lung transplants (0.6 pmp) remains very small and well bellow the anticipated needed number.

Therefore, we consider that, as important as increasing the number of effective donors and improve results is to promote access to the waiting list to all patients in the need of a transplant. Improvements of the waiting list access, donation and transplants rates remain as main objectives for 2017.

Bord of Directors
abto@abto.org.br

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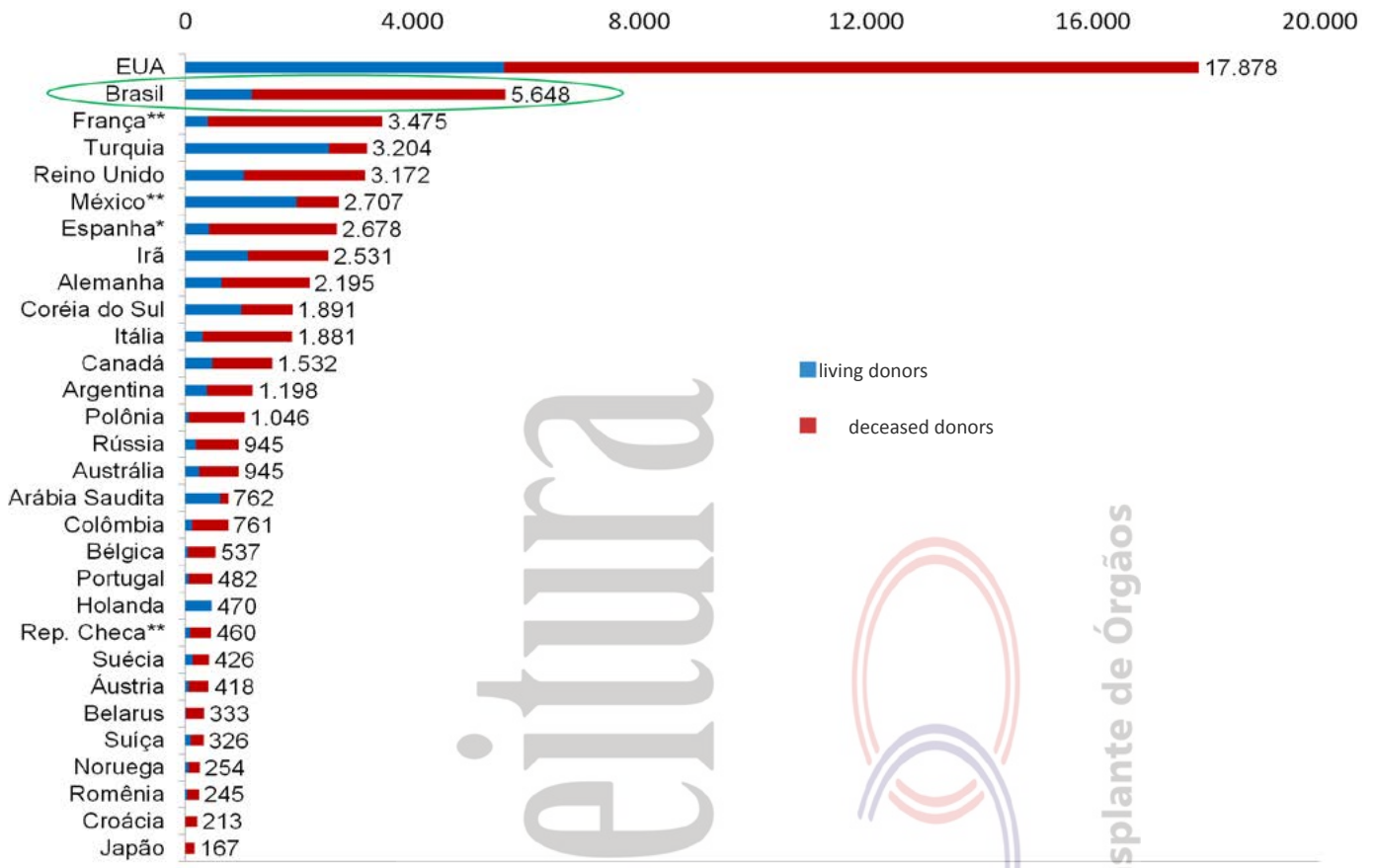
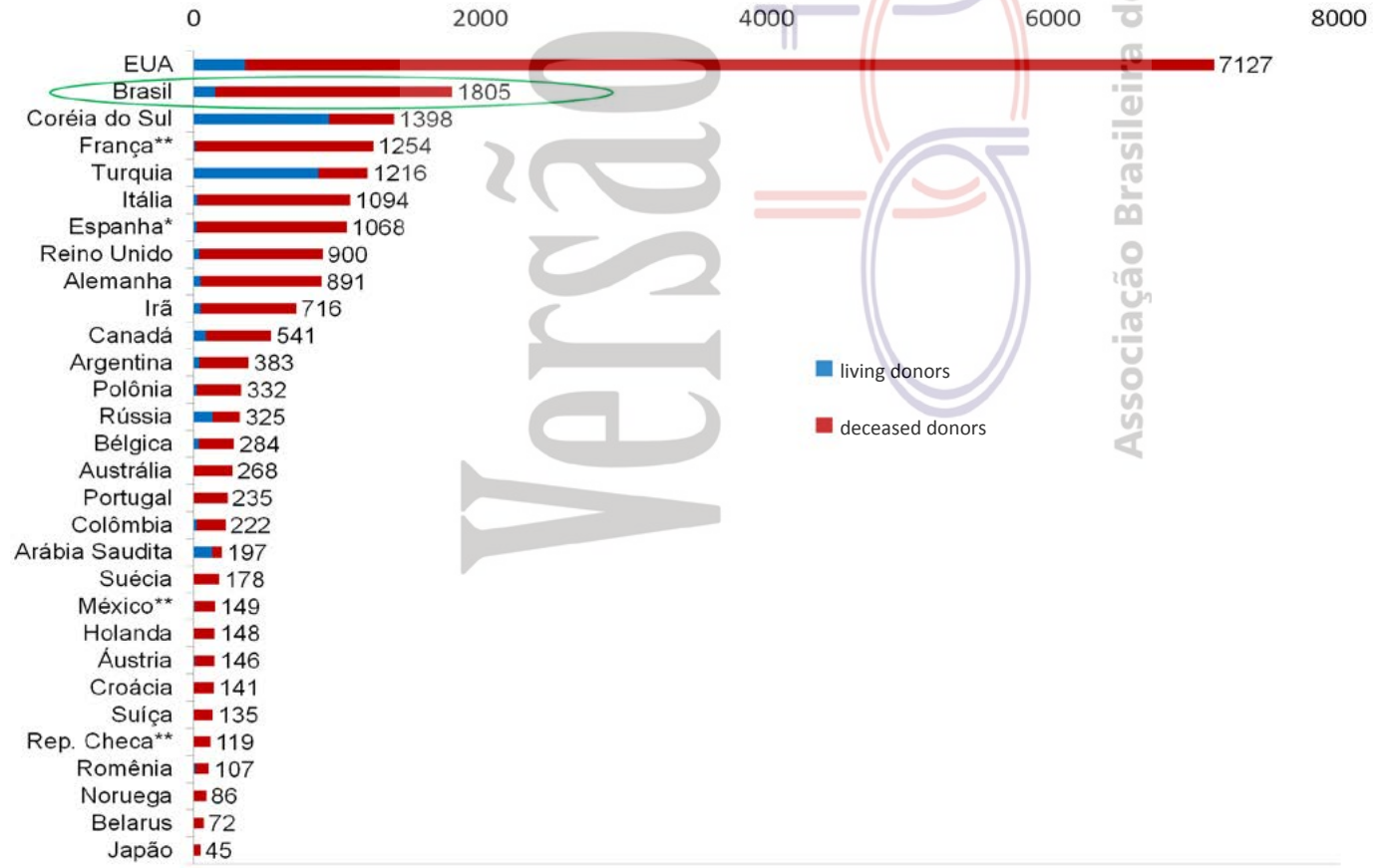
BRAZILIAN STANDING IN GLOBAL FIGURES

Sourcer: IRODAT 2015

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



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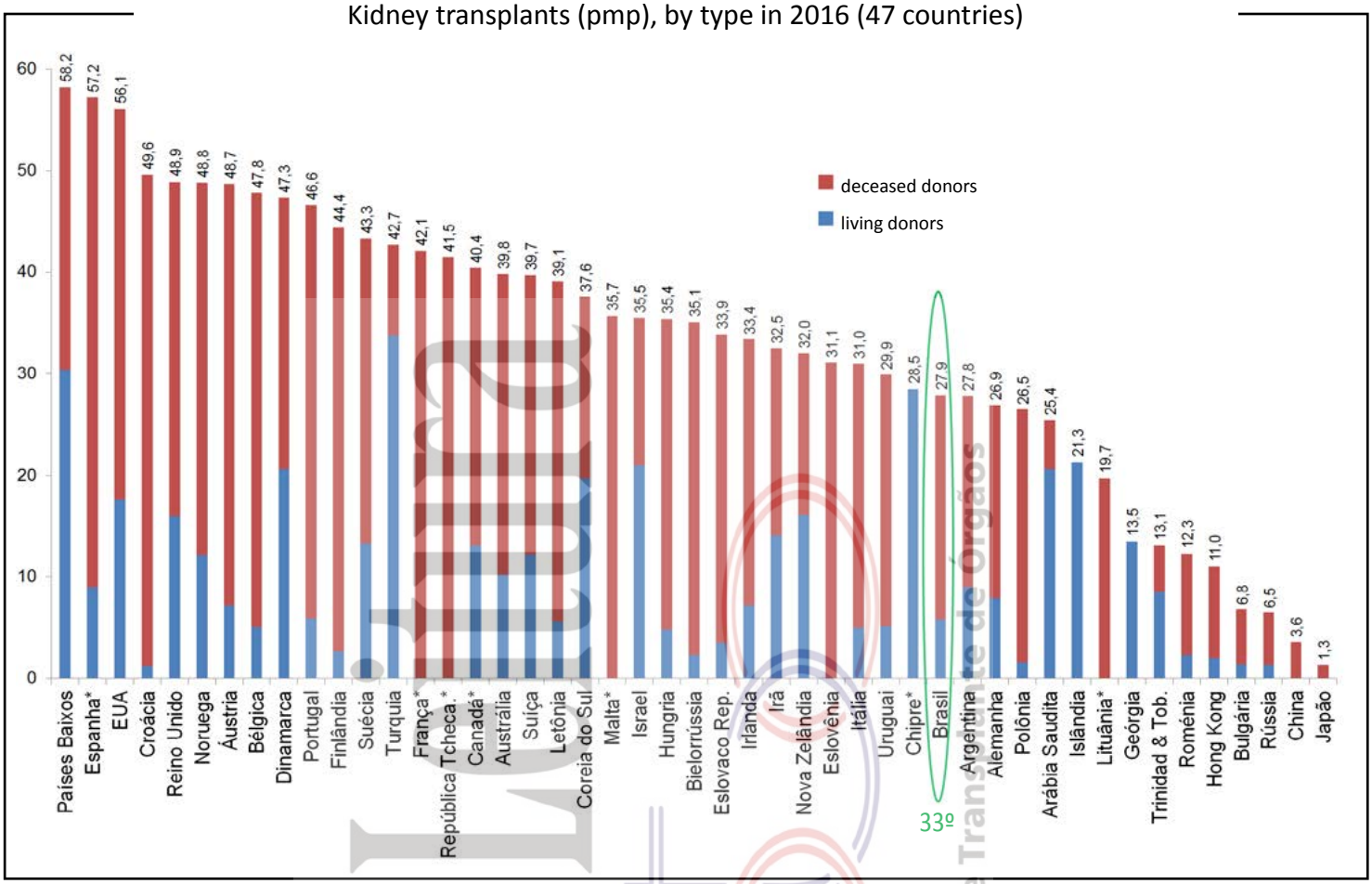
** - year 2013
* - year 2014

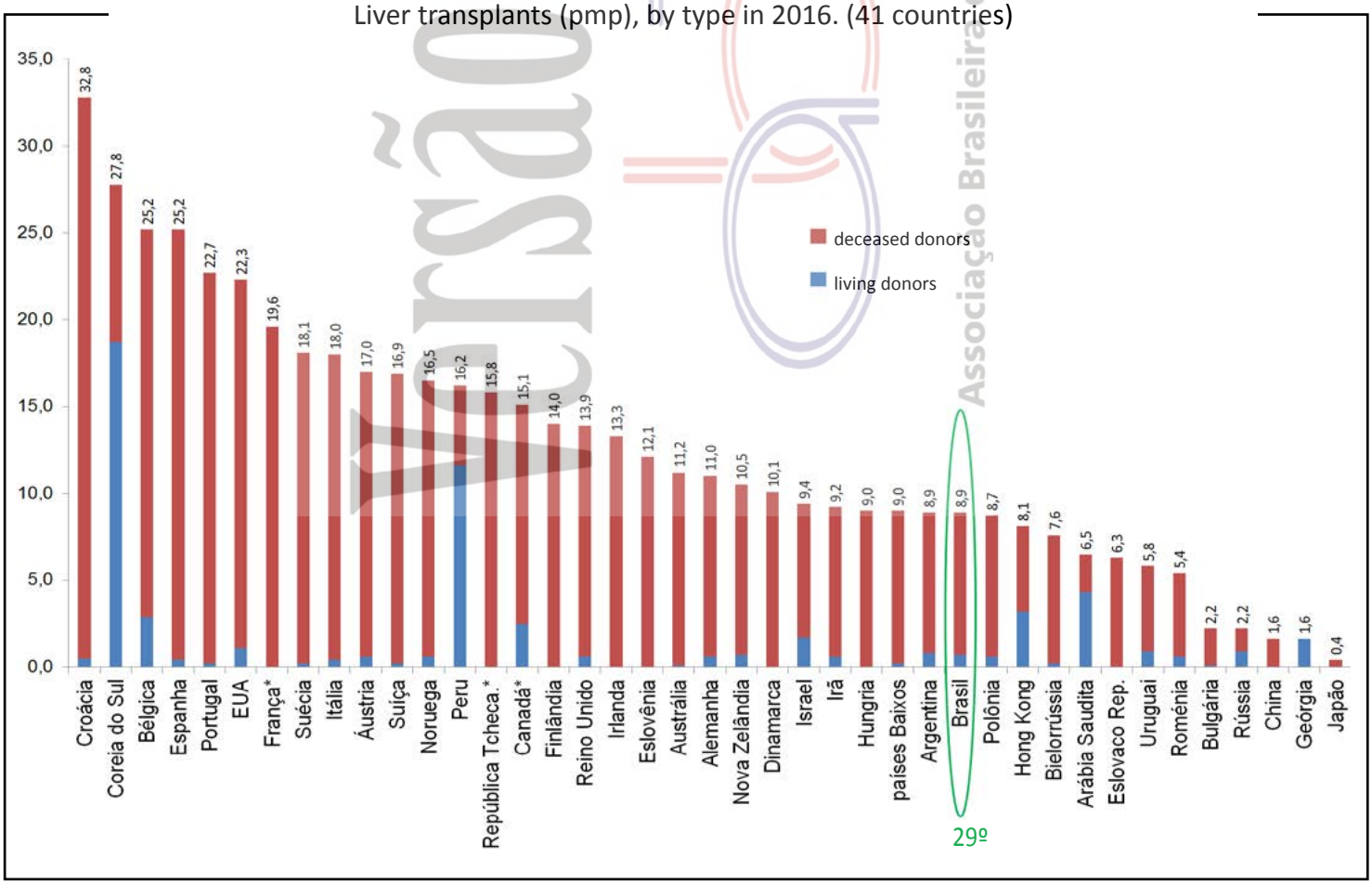
BRAZILIAN STANDING IN GLOBAL FIGURES

Sourcer: IRODAT 2015

Kidney transplants (pmp), by type in 2016 (47 countries)



Liver transplants (pmp), by type in 2016. (41 countries)



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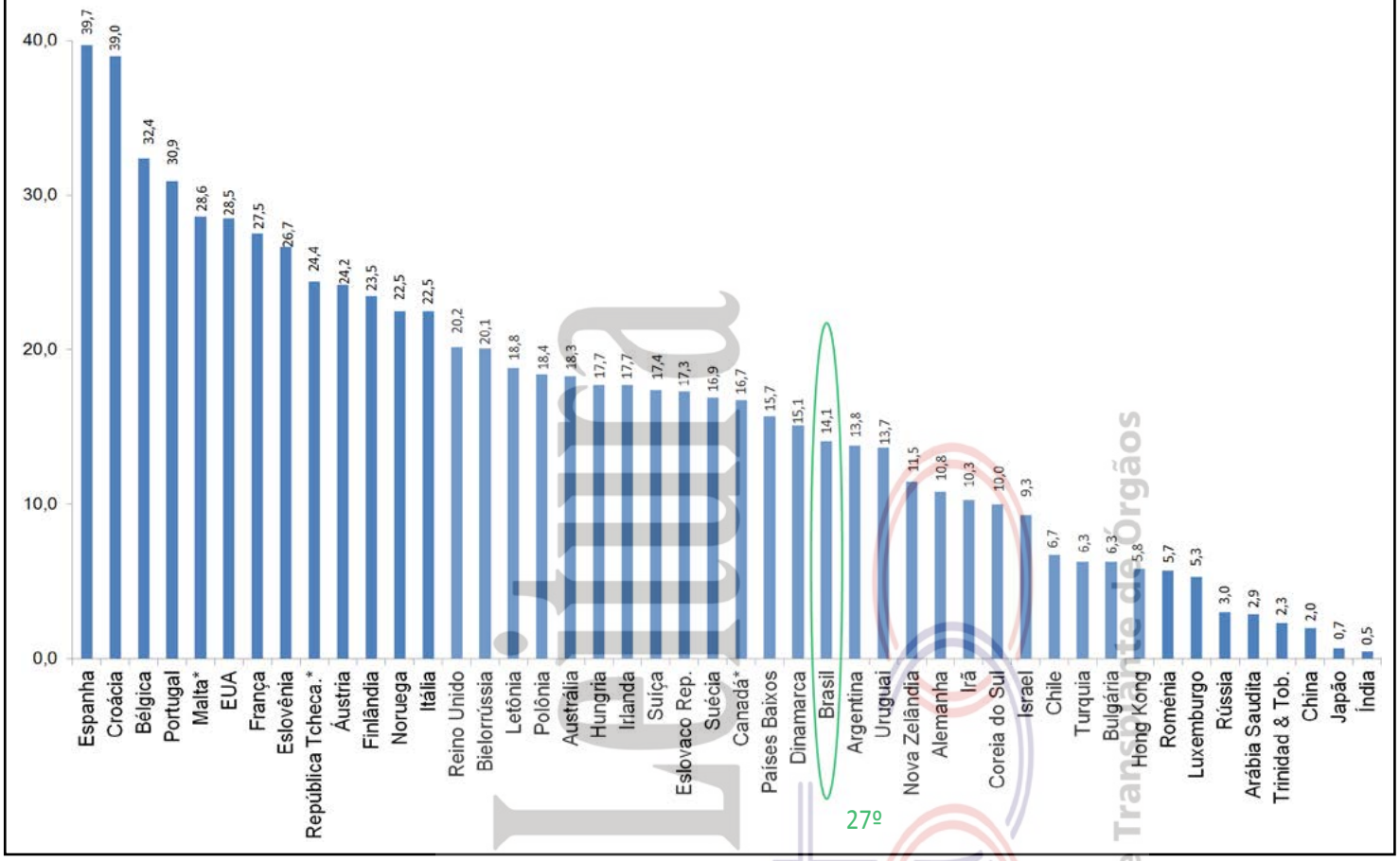
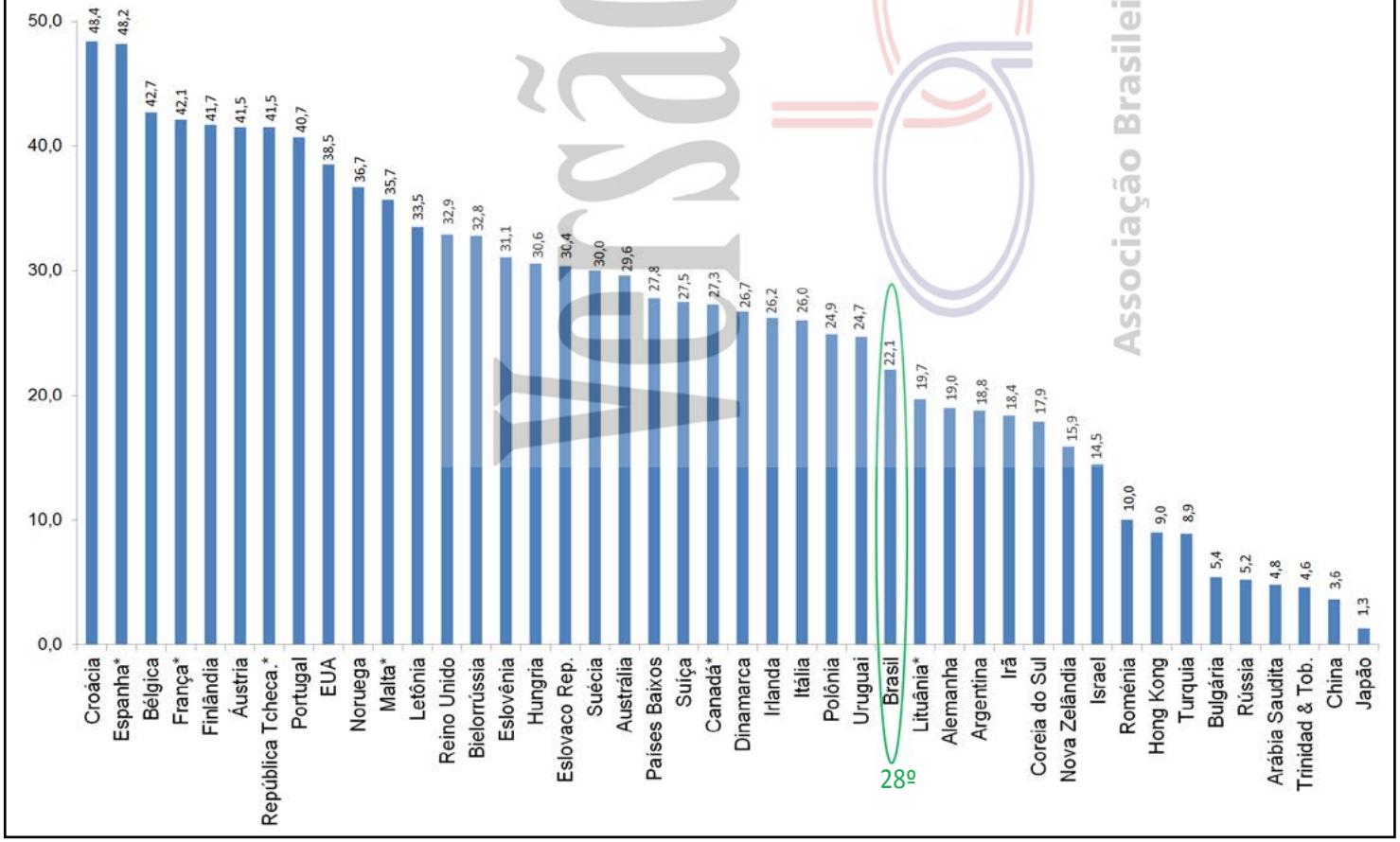
BRAZILIAN STANDING IN GLOBAL FIGURES

Sourcer: IRODAT 2015

Number of effective donors (pmp) in 2016 (46 countries)



Kidney transplants (pmp) from deceased donors in 2016. (44 countries)



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BRAZILIAN DATA

Population	204,450,649
Area(Km2)	8,514,876.60

Estimated annual need and number of transplants	CORNEA	KIDNEY	LIVER	HEART	LUNG
Estimated demand	18,401	12,267	5,111	1,636	1,636
Transplants performed	14,534	5,492	1,880	357	92

Mortality per year	2009	2010	2011	2012	2013	2014	2015	2016
All causes	1,103,088	1,136,947	1,170,498	1,181,166	1,220,678	1,227,039	Unavailable	Unavailable
External causes	138,697	143,256	145,842	152,013	151,683	156,942	Unavailable	Unavailable
Neurological causes	23,018	25,303	26,948	28,712	30,300	32,381	Unavailable	Unavailable
Population (IBGE census)	183,987,291	190,755,799	190,755,799	190,755,799	190,755,799	190,755,799	202,768,562	204,450,649

Hospital	
Total number	6.749
State capitals	*1.347*
Country side	*5.402*
Nº de beds	477.227
Nº of ICU beds	41.068
Hospitals over 80 beds	1.781
Teaching hospitals	154
Medical schools	278
Neurosurgery services	445
Number of CIHDOTTS	673
Number of OPOs	57

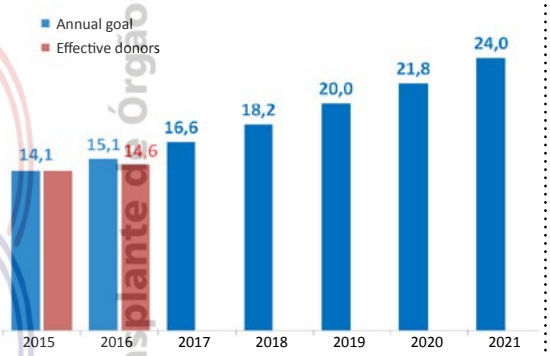
Sourcer: http://cnes.datasus.gov.br 18/01/2017
http://emec.mec.gov.br/

Facts :

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

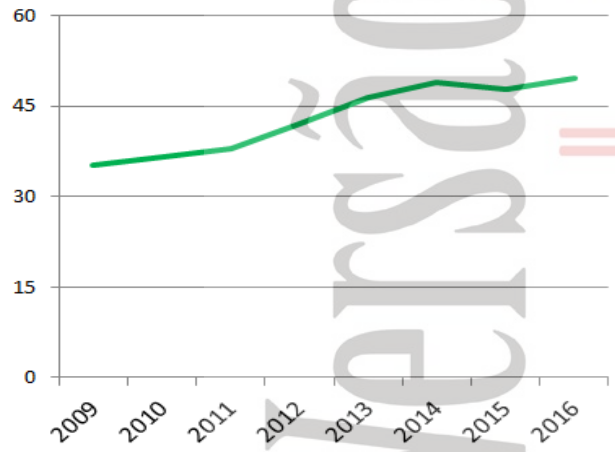
Negative:
- Slow increase in donation
- Elevated frequency of non-consenting family.
- Brain death notification bellow expected.
- Important disparities between states.
- Financial constraints for some programs.

Annual goal of effective donnors per million population

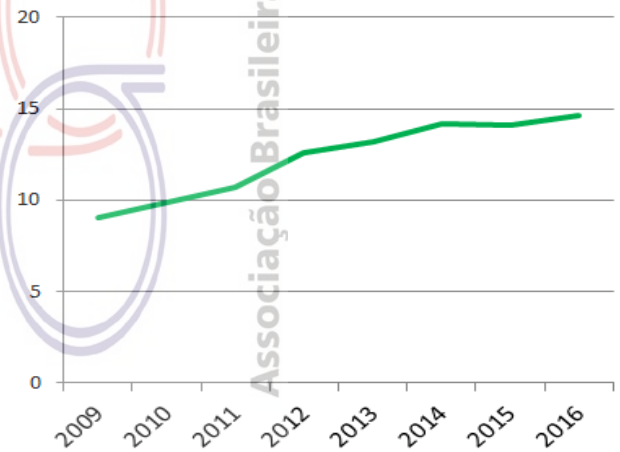


Organ Donation

Notified potential donors - pmp



Effective donors - pmp



	2009	2010	2011	2012	2013	2014	2015	2016
Number of effective donors	1,658	1,898	2,048	2,406	2,526	2,713	2,854	2,981
Number of effective donors (pmp)	9.0	9.9	10.7	12.6	13.2	14.2	14.1	14.6
Potential donors	6,490	6,979	7,238	8,025	8,871	9,351	9,698	10,158
Number of potential donors (pmp)	35.3	36.6	37.9	42.1	46.5	49.0	47.8	49.7
Non consenting families	1,390	1,800	1,937	2,315	2,622	2,610	2,613	2,571
Refusal at interviews (%)	Unavailable	Unavailable	Unavailable	41%	47%	46%	44%	43%
Cardiopulmonary arrest	1,350	1,279	1,205	1,188	1,292	1,156	1,164	1,136
Contraindicação médica	1,101	991	832	836	1,150	1,349	1,416	1,594
Others	991	1,011	1,216	1,280	1,281	1,523	1,651	1,876

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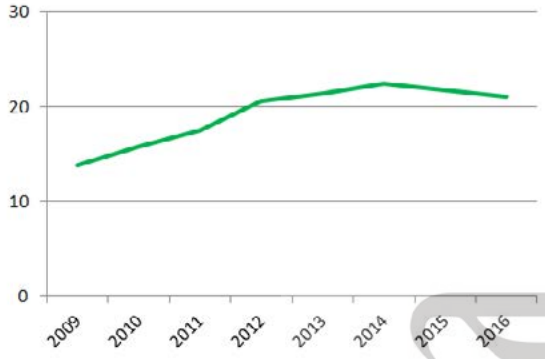
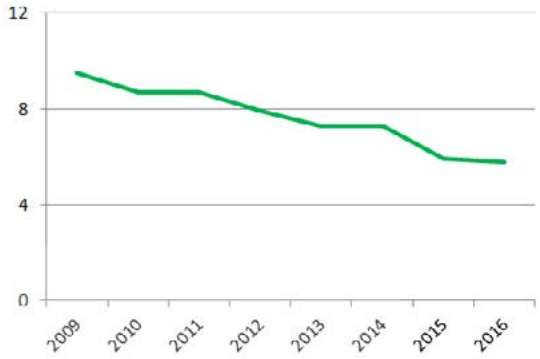
Organ Transplantation

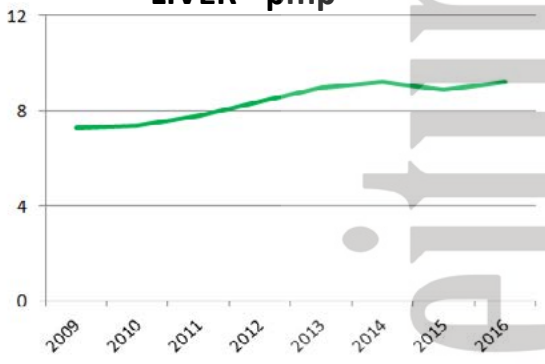
Kidney from deceased donors - pmp



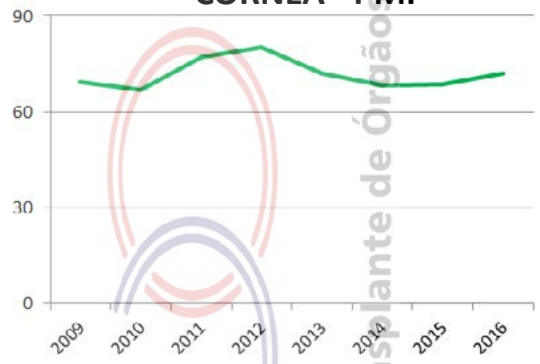
Kidney from living donors - pmp



LIVER - pmp



CORNEA - PMP



Number of teams performing transplantats during the year	2009	2010	2011	2012	2013	2014	2015	2016
CORNEA	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
KIDNEY	140	140	126	124	129	135	131	129
LIVER	51	55	57	59	60	64	62	62
Pancreas	21	21	26	19	21	15	16	16
HEART	33	26	27	27	33	31	33	31
LUNG	5	4	6	6	7	6	6	6

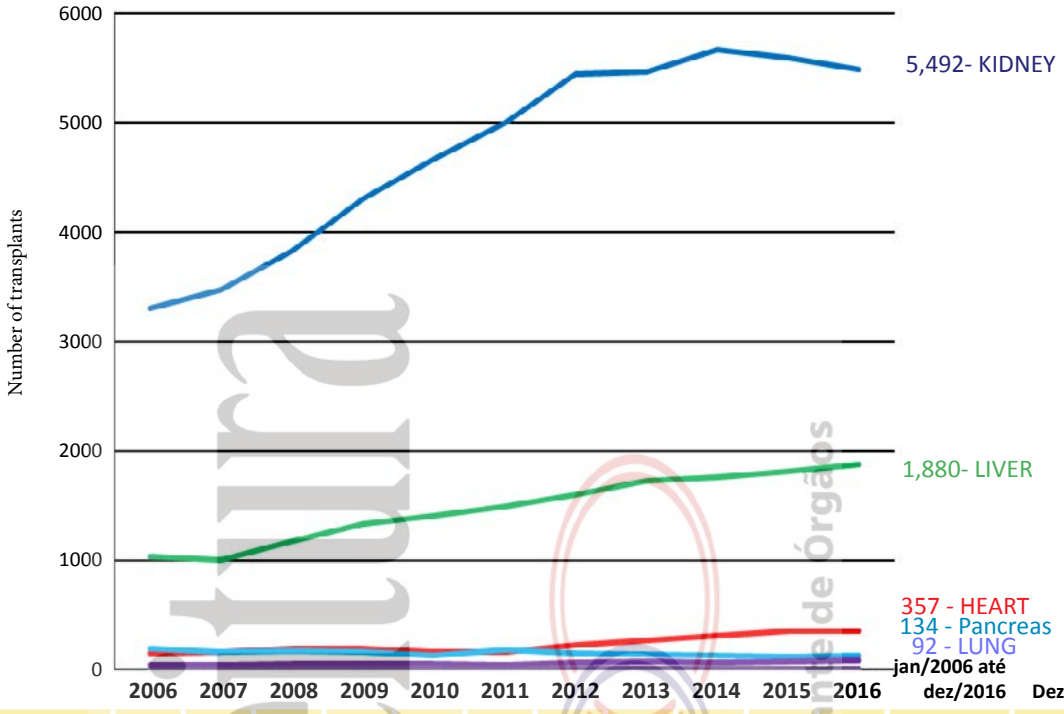
Absolute number of transplants	2009	2010	2011	2012	2013	2014	2015	2016
CORNEA	12,724	12,778	14,726	15,280	13,744	13,036	13,861	14,534
KIDNEY	4,298	4,662	4,993	5,435	5,464	5,657	5,588	5,492
living donors	*1,752*	*1,656*	*1,662*	*1,504*	*1,386*	*1,386*	*1,189*	*1,200*
deceased donors	*2,546*	*3,006*	*3,331*	*3,931*	*4,078*	*4,271*	*4,399*	*4,292*
LIVER	1,334	1,413	1,496	1,601	1,722	1,757	1,809	1,880
Pancreas	160	133	181	153	143	128	120	134
HEART	201	166	160	228	271	311	353	357
LUNG	59	61	49	69	80	67	74	92

Number of transplants pmp	2009	2010	2011	2012	2013	2014	2015	2016
CORNEA	69.2	67.0	77.2	80.1	72.1	68.3	68.4	71.1
KIDNEY	23.4	24.4	26.2	28.5	28.6	29.7	27.6	26.9
living donors	*9.5*	*8.7*	*8.7*	*7.9*	*7.3*	*7.3*	*5.9*	*5.9*
deceased donors	*13.8*	*15.8*	*17.5*	*20.6*	*21.4*	*22.4*	*21.7*	*21.0*
LIVER	7.3	7.4	7.8	8.4	9.0	9.2	8.9	9.2
Pancreas	0.9	0.7	0.9	0.8	0.7	0.7	0.6	0.7
HEART	1.1	0.9	0.8	1.2	1.4	1.6	1.7	1.7
LUNG	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4

Versão Teste
Associação Brasileira de Transplante de Órgãos

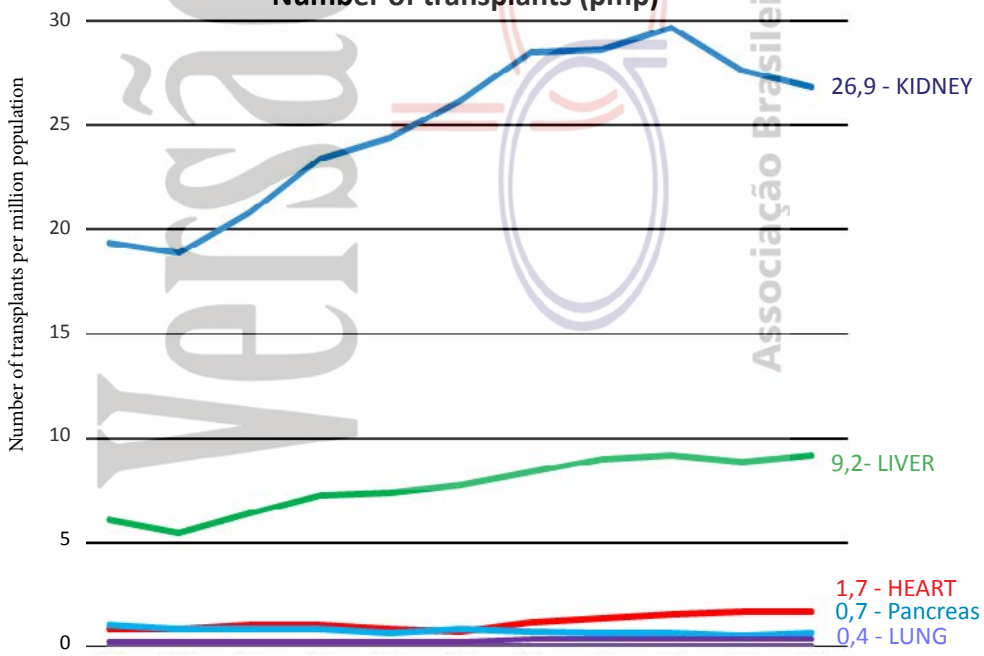
Annual number of transplants in Brazil between 2006 and 2016

Absolute number of transplants (annual)



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	jan/2006 até dez/2016	até Dez/2016
Heart	149	161	201	201	166	160	228	271	311	353	357	2,558	3,984
Liver	1,037	1,008	1,177	1,334	1,413	1,496	1,601	1,722	1,757	1,809	1,880	16,234	21,451
Intestine	1	0	0	0	0	0	0	0	0	1	0	2	5
Multivisceral	0	0	0	0	0	0	1	0	2	0	1	4	4
Pancreas	191	163	174	160	133	181	153	143	128	120	134	1,680	2,687
Lung	49	46	53	59	61	49	69	80	67	74	92	699	1,015
Kidney	3,299	3,475	3,823	4,298	4,662	4,993	5,435	5,464	5,657	5,590	5,492	52,188	80,894

Number of transplants (pmp)



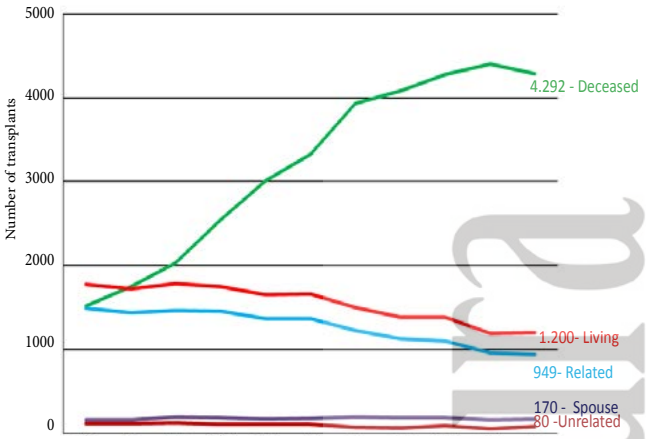
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Heart	0.9	0.9	1.1	1.1	0.9	0.8	1.2	1.4	1.6	1.7	1.7
Liver	6.1	5.5	6.4	7.3	7.4	7.8	8.4	9.0	9.2	8.9	9.2
Intestine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Multivisceral	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pancreas	1.1	0.9	0.9	0.9	0.7	0.9	0.8	0.7	0.7	0.6	0.7
Lung	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Kidney	19.4	18.9	20.8	23.4	24.4	26.2	28.5	28.6	29.7	27.6	26.9

Versão final
Associação Brasileira de Transplante de Órgãos

Annual number of transplants in Brazil between 2006 and 2016

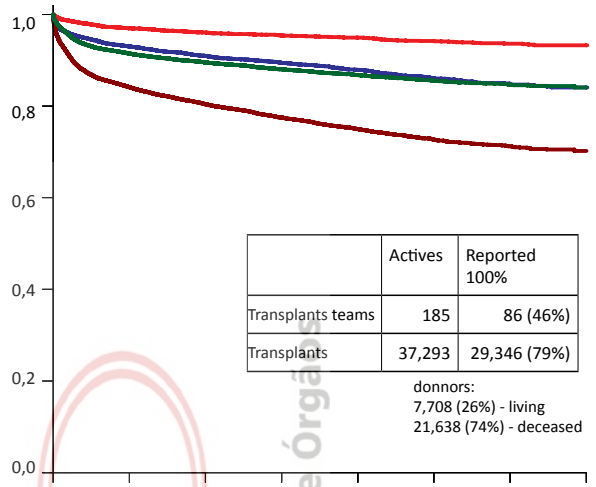
KIDNEY (22 states, with 129 active teams)

Annual number of transplants by donor type



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Deceased	1,523	1,751	2,035	2,546	3,006	3,331	3,931	4,078	4,271	4,401	4,292
Living	1,776	1,724	1,788	1,752	1,656	1,662	1,504	1,386	1,386	1,189	1,200
Related	1,493	1,439	1,463	1,455	1,371	1,364	1,230	1,133	1,103	964	949
Unrelated - spouse	161	165	199	188	175	185	196	186	187	166	171
Unrelated - Others	122	120	126	109	110	113	78	67	96	59	80
Total	3,299	3,475	3,823	4,298	4,662	4,993	5,435	5,464	5,657	5,590	5,492

Survival Curves: Prospective started in 2010



	Actives	Reported 100%
Transplants teams	185	86 (46%)
Transplants	37,293	29,346 (79%)

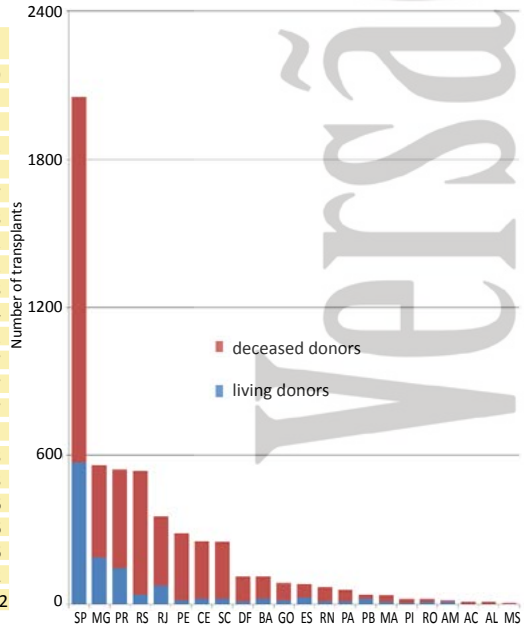
donnors:
7,708 (26%) - living
21,638 (74%) - deceased

	1º ano	2º ano	3º ano	4º ano	5º ano	6º ano	7º ano
Patient (LD)	97%	96%	95%	95%	94%	94%	93%
Graft (LD)	93%	91%	90%	88%	86%	85%	84%
Patient (DD)	92%	90%	88%	87%	86%	85%	84%
Graft (DD)	84%	80%	78%	75%	73%	71%	70%

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

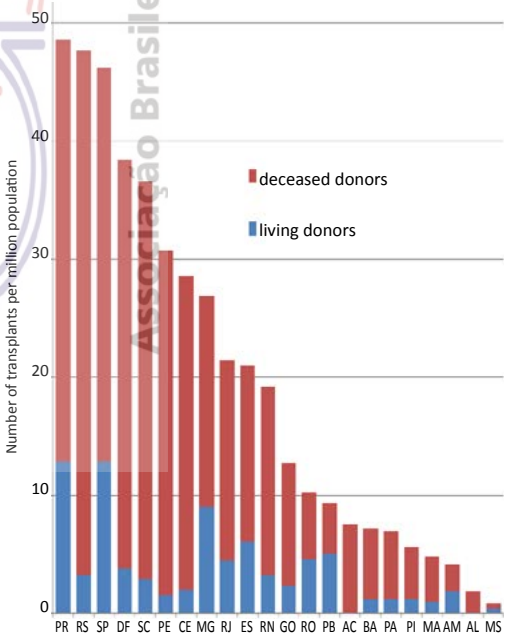
Number of transplants by state during the year 2016

UF	Living	Deceased	Total
SP	573	1476	2049
MG	187	376	563
PR	143	400	543
RS	36	506	542
RJ	72	281	353
PE	15	272	287
CE	19	239	258
SC	20	231	251
DF	11	101	112
BA	18	90	108
GO	15	69	84
ES	24	58	82
RN	11	56	67
PA	10	47	57
PB	20	17	37
MA	6	27	33
PI	4	14	18
RO	8	10	18
AM	7	9	16
AC	0	6	6
AL	0	6	6
MS	1	1	2
Brazil	1,200	4,292	5,492



Number of transplants per million population by state during the year 2016

UF	Living	Deceased	Total
PR	12.8	35.8	48.6
RS	3.2	45.0	48.2
SP	12.9	33.2	46.2
DF	3.8	34.6	38.4
SC	2.9	33.9	36.8
PE	1.6	29.1	30.7
CE	2.1	26.8	29.0
MG	9.0	18.0	27.0
RJ	4.4	17.0	21.3
ES	6.1	14.8	20.9
RN	3.2	16.3	19.5
GO	2.3	10.4	12.7
RO	4.5	5.7	10.2
PB	5.0	4.3	9.3
AC	0.0	7.5	7.5
BA	1.2	5.9	7.1
PA	1.2	5.7	7.0
PI	1.2	4.4	5.6
MA	0.9	3.9	4.8
AM	1.8	2.3	4.1
AL	0.0	1.8	1.8
MS	0.4	0.4	0.8
Brazil	5.9	21.0	26.9

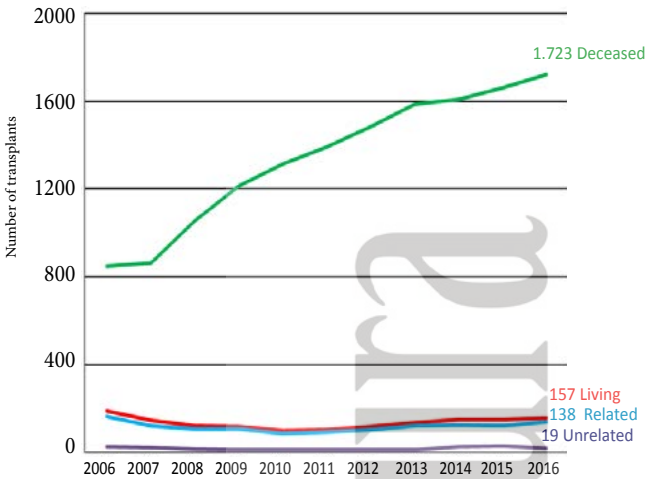


Versão Leitura
Associação Brasileira de Transplante de Órgãos

Annual number of transplants in Brazil between 2006 and 2016

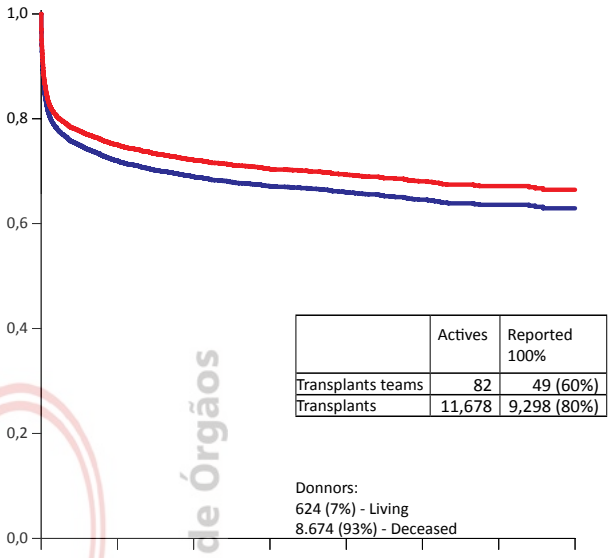
LIVER - (in 13 states, with 62 active teams)

Annual number of transplants by donor type



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Deceased	847	862	1,055	1,214	1,313	1,392	1,484	1,586	1,607	1,659	1,723
Living	190	146	122	120	100	104	117	136	150	150	157
Related	163	123	107	108	88	93	106	123	125	121	138
Unrelated	27	23	15	12	12	11	11	13	25	29	19
Total	1,037	1,008	1,177	1,334	1,413	1,496	1,601	1,722	1,757	1,809	1,880

Survival Curves: Prospective started in 2010



	Actives	Reported 100%
Transplants teams	82	49 (60%)
Transplants	11,678	9,298 (80%)

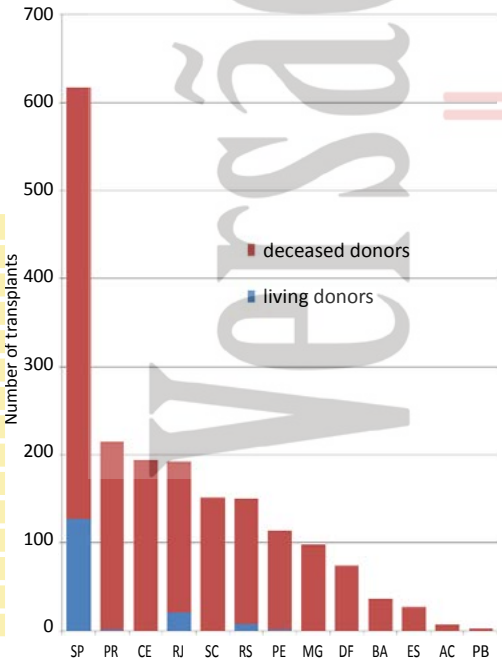
Donnors:
624 (7%) - Living
8.674 (93%) - Deceased

	1º ano	2º ano	3º ano	4º ano	5º ano	6º ano	7º ano
Patient	75%	72%	70%	69%	68%	67%	67%
Graft	72%	69%	67%	66%	65%	64%	63%

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

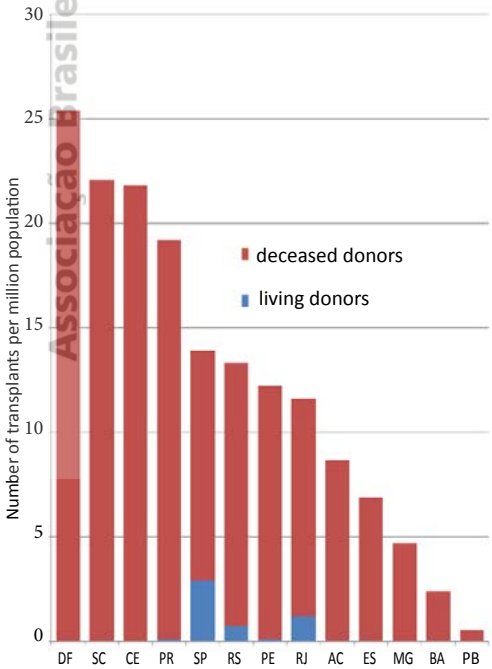
Number of transplants by state during the year 2016

state	Living	Deceased	total
SP	127	489	616
PR	1	213	214
CE	0	195	195
RJ	20	172	192
SC	0	150	150
RS	8	142	150
PE	1	113	114
MG	0	99	99
DF	0	76	76
BA	0	38	38
ES	0	27	27
AC	0	7	7
PB	0	2	2
Brazil	157	1.723	1.880



Number of transplants per million population by state during the year 2016

state	Living	Deceased	Total
DF	0.0	26.1	26.1
SC	0.0	22.1	22.1
CE	0.0	21.9	21.9
PR	0.1	19.1	19.2
SP	2.9	11.0	13.9
RS	0.7	12.6	13.3
PE	0.1	12.1	12.2
RJ	1.2	10.4	11.6
AC	0.0	8.7	8.7
ES	0.0	6.9	6.9
MG	0.0	4.7	4.7
BA	0.0	2.5	2.5
PB	0.0	0.5	0.5
Brazil	0.8	8.4	9.2

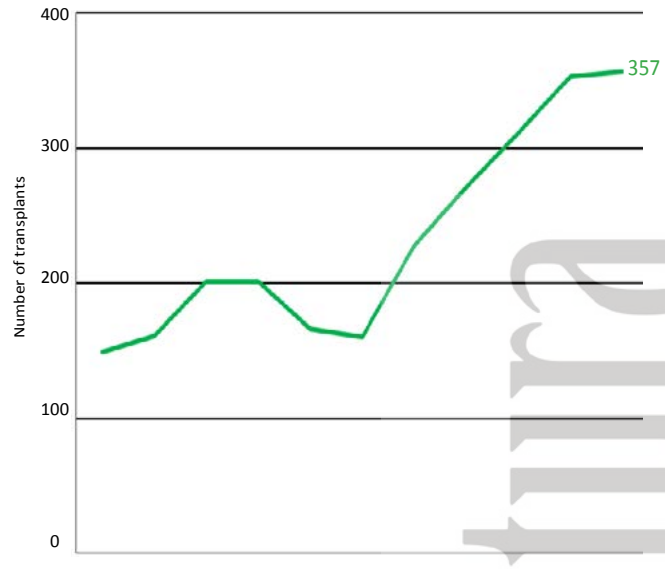


Versão Leitura
Associação Brasileira de Transplante de Órgãos

Annual number of transplants in Brazil between 2006 and 2016

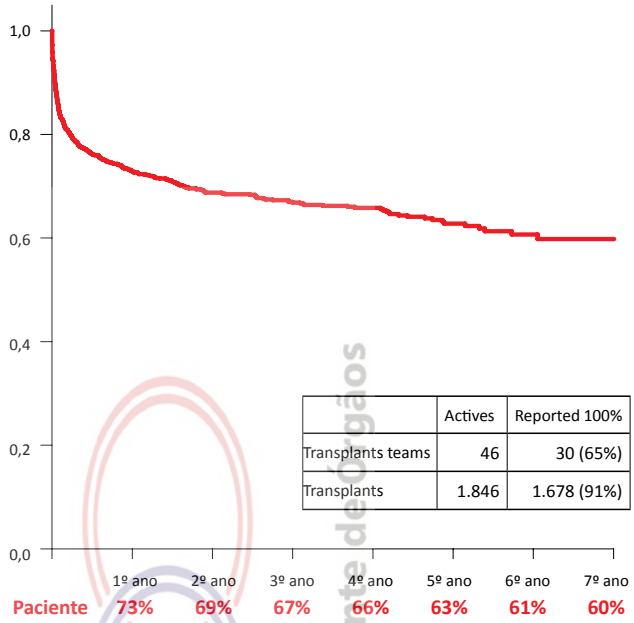
HEART - (in 12 states, with 31 active teams)

Annual number



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
HEART	149	161	201	201	166	160	228	271	311	353	357

Survival Curves: Prospective started in 2010



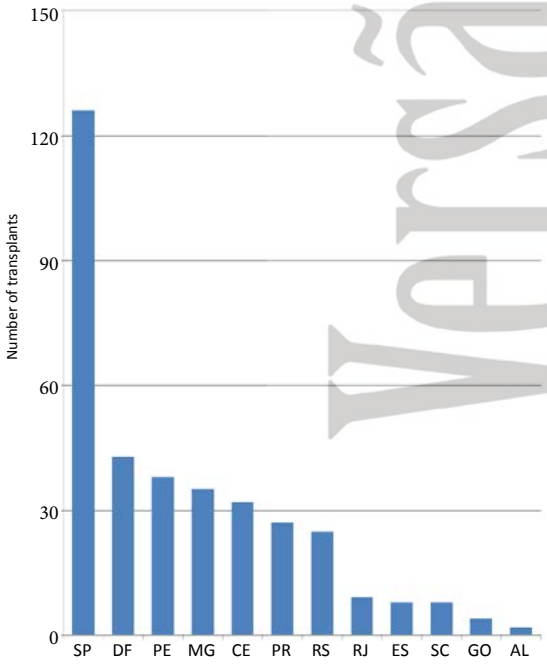
	Actives	Reported 100%
Transplants teams	46	30 (65%)
Transplants	1.846	1.678 (91%)

	1º ano	2º ano	3º ano	4º ano	5º ano	6º ano	7º ano
Paciente	73%	69%	67%	66%	63%	61%	60%

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

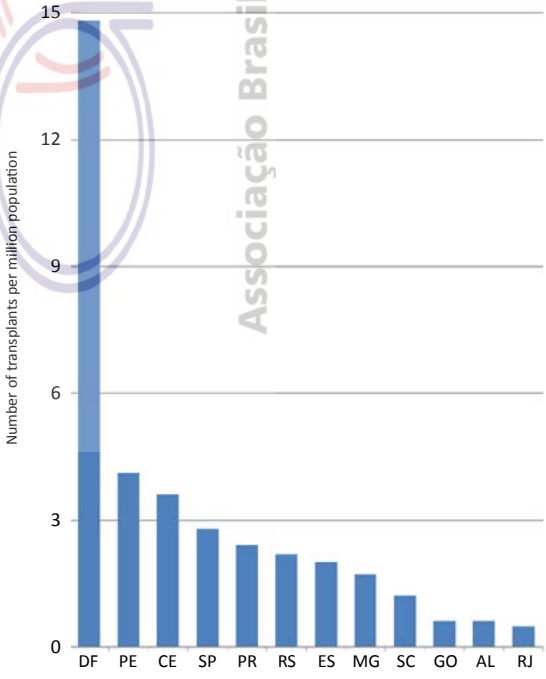
Number of transplants by state during the year 2016

State	Total
SP	126
DF	43
PE	38
MG	35
CE	32
PR	27
RS	25
RJ	9
ES	8
SC	8
GO	4
AL	2
Brazil	357



Number of transplants per million population by state during the year 2016

State	Total
DF	14.8
PE	4.1
CE	3.6
SP	2.8
PR	2.4
RS	2.2
ES	2.0
MG	1.7
SC	1.2
GO	0.6
AL	0.6
RJ	0.5
Brazil	1.7

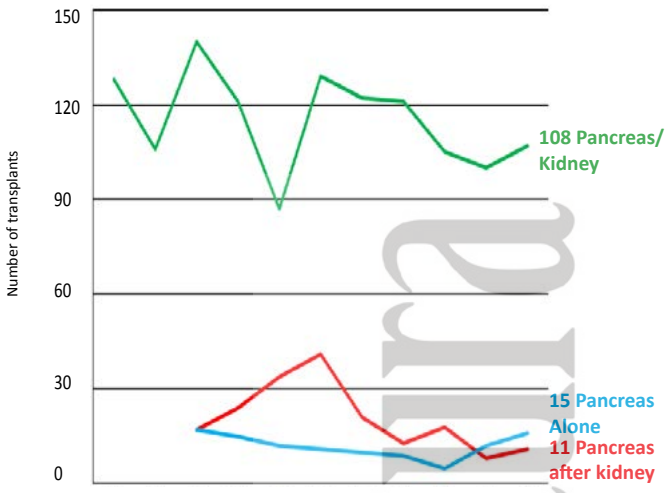


Versão Leitura
Associação Brasileira de Transplante de Órgãos

Annual number of transplants in Brazil between 2006 and 2016

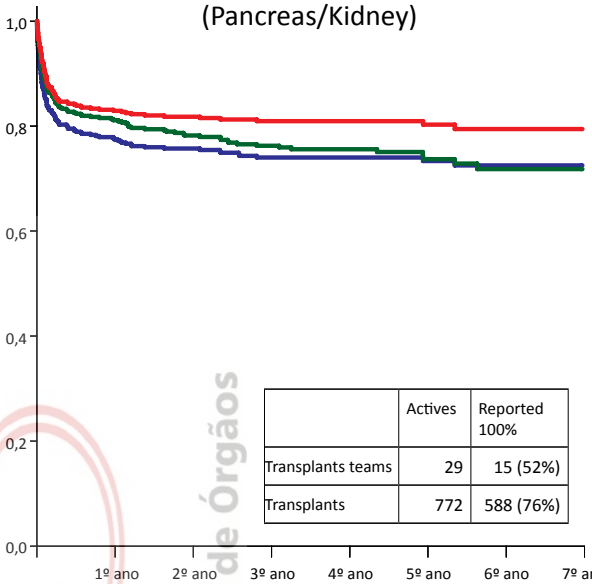
Pancreas - (in 6 states, with 16 active teams)

Annual number



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Pancreas/Kidney	128	106	140	121	87	129	122	121	105	100	108
Panc. after Kidney			17	24	34	41	21	13	18	8	11
Pancreas Alone			17	15	12	11	10	9	5	12	15
Total	191	163	174	160	133	181	153	143	128	120	134

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

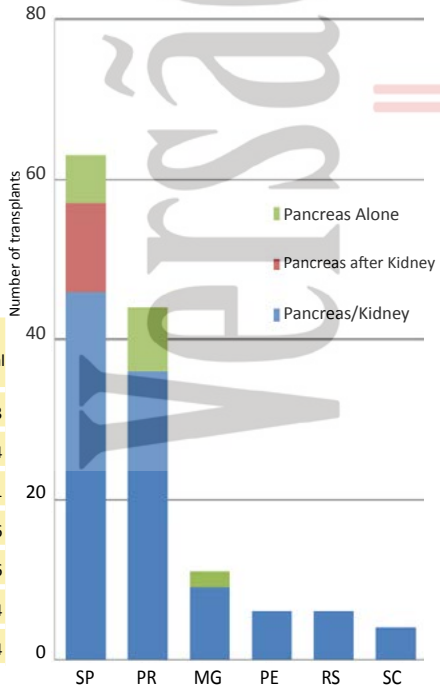


	Actives	Reported 100%
Transplants teams	29	15 (52%)
Transplants	772	588 (76%)

	1º ano	2º ano	3º ano	4º ano	5º ano	6º ano	7º ano
Patient	83%	82%	81%	81%	80%	79%	79%
Kidney	81%	78%	76%	76%	74%	72%	72%
Pancreas	78%	76%	74%	74%	73%	73%	73%

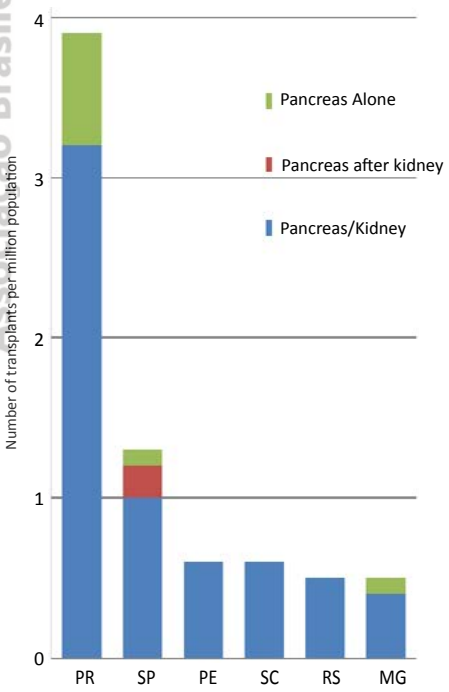
Cumulative survival include data from transplant teams who reported 100% of their results during the period

Number of transplants by state during the year 2016



State	Panc/ Kidney	Pancreas after Kidney	Pancreas Alone	Total
SP	47	11	5	63
PR	36	0	8	44
MG	9	0	2	11
PE	6	0	0	6
RS	6	0	0	6
SC	4	0	0	4
Brazil	108	11	15	134

Number of transplants per million population by state during the year 2016



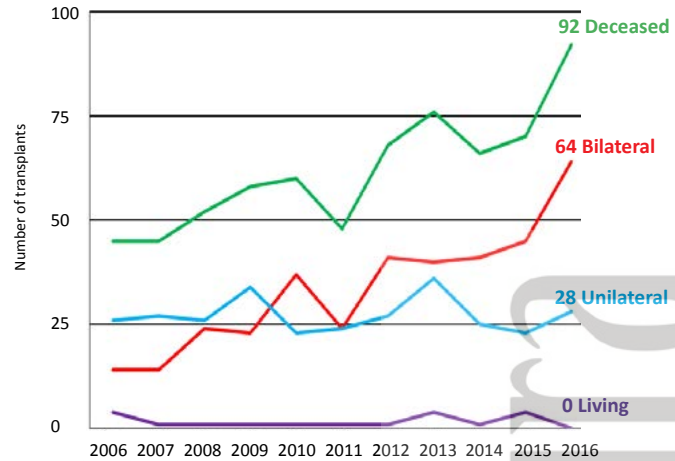
State	Panc/ Kidney	Pancreas after Kidney	Pancreas Alone	Total
PR	3.2	0.0	0.7	3.9
SP	1.1	0.2	0.1	1.4
PE	0.6	0.0	0.0	0.6
SC	0.6	0.0	0.0	0.6
RS	0.5	0.0	0.0	0.5
MG	0.4	0.0	0.1	0.5
Brazil	0.5	0.1	0.1	0.7

Versão Teste
Associação Brasileira de Transplante de Órgãos

Annual number of transplants in Brazil between 2006 and 2016

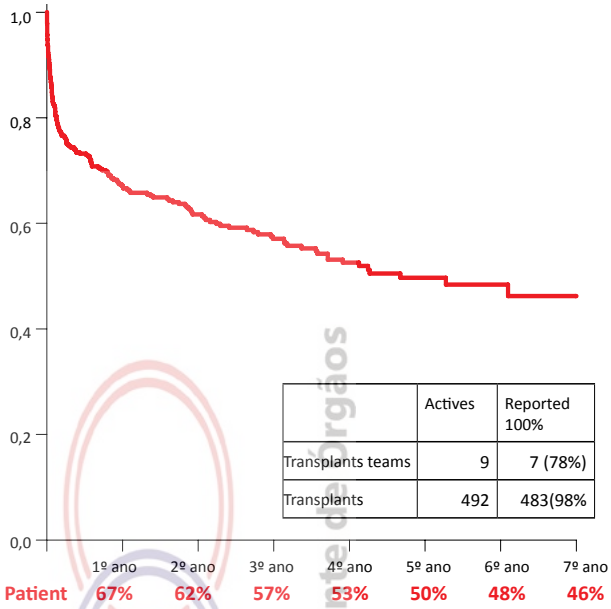
LUNG - (in 3 state, with 6 active teams)

Annual number



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Deceased	45	45	52	58	60	48	68	76	66	70	92
Bilateral	14	14	24	23	37	24	41	40	41	45	64
Unilateral	26	27	26	34	23	24	27	36	25	23	28
Living	4	1	1	1	1	1	1	4	1	4	0
Total	49	46	53	59	61	49	69	80	67	74	92

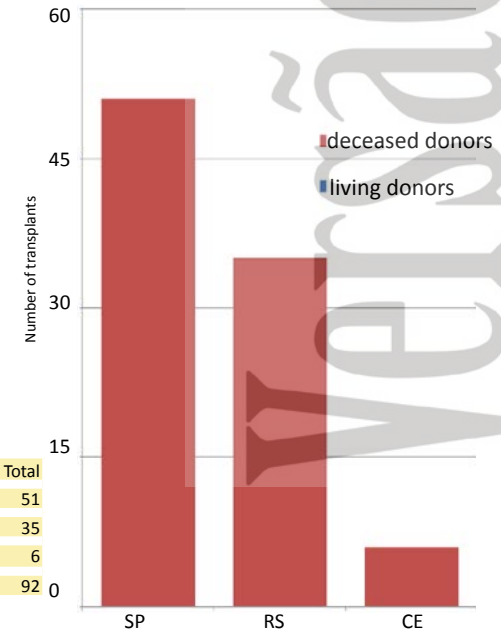
Survival Curves: Prospective started in 2010



	Actives	Reported 100%
Transplants teams	9	7 (78%)
Transplants	492	483(98%

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

Number of transplants of state, during year 2016



UF	Living	Deceased	Total
SP	0	51	51
RS	0	35	35
CE	0	6	6
Brazil	0	92	92

Number of transplants per million population by state during the year 2016

UF	Living	Deceased	Total
RS	0.0	3.1	3.1
SP	0.0	1.1	1.1
CE	0.0	0.7	0.7
Brazil	0.0	0.5	0.5

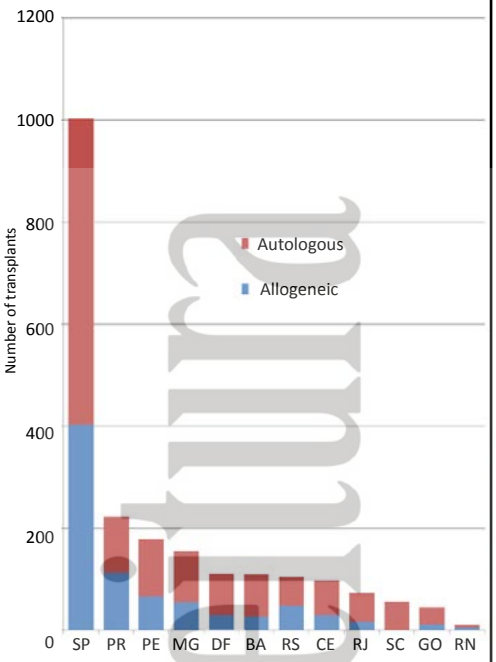
Versão Teste
Associação Brasileira de Transplante de Órgãos

Annual number of transplants in Brazil between 2006 and 2016

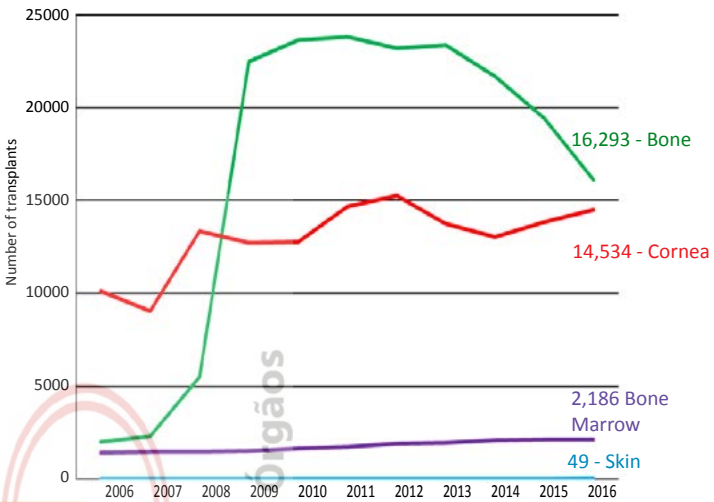
Bone Marrow - (in 12 states, with 61 active teams)

Number of bone marrow transplants by state during the year 2016

State	Allogeneic	Autologous	Total
SP	406	602	1,008
PR	112	110	222
PE	70	117	187
MG	53	102	155
DF	29	82	111
BA	25	84	109
RS	48	55	103
CE	30	67	97
RJ	14	57	71
SC	0	69	69
GO	11	34	45
RN	4	6	10
Brazil	802	1,385	2,187



Annual number of tissue and Bone Marrow transplants

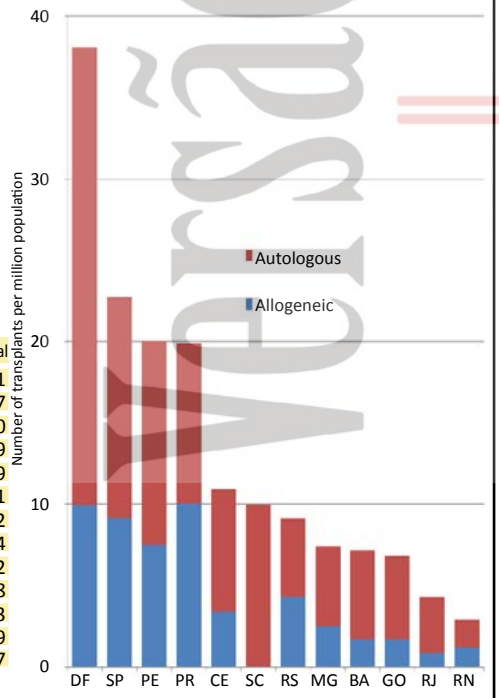


	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Bone	1,996	2,340	5,521	22,503	23,647	23,815	23,211	23,348	21,681	19,408	16,293
Cornea	10,124	9,040	13,341	12,724	12,778	14,726	15,280	13,744	13,056	13,861	14,534
Bone Marrow	1,420	1,459	1,494	1,543	1,667	1,760	1,904	1,968	2,106	2,137	2,187
skin**	0	1	0	17	26	21	30	23	28	28	49

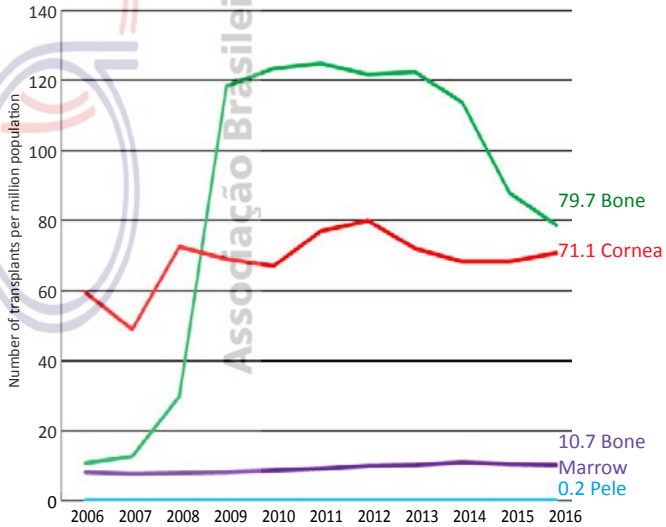
** number of deceaseds donors of skin 44

Number of bone marrow transplants per million population by state during the year 2016

State	Allogeneic	Autologous	Total
DF	9.9	28.1	38.1
SP	9.1	13.6	22.7
PE	7.5	12.5	20.0
PR	10.0	9.9	19.9
CE	3.4	7.5	10.9
SC	0.0	10.1	10.1
RS	4.3	4.9	9.2
MG	2.5	4.9	7.4
BA	1.6	5.5	7.2
GO	1.7	5.1	6.8
RJ	0.8	3.4	4.3
RN	1.2	1.7	2.9
Brazil	3.9	6.8	10.7



Tissue and bone marrow transplants per million population



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Bone	10.8	12.7	30.0	118.5	123.3	124.8	121.7	122.4	113.7	87.9	79.7
Cornea	59.6	49.1	72.5	69.2	67.0	77.2	80.1	72.1	68.4	68.4	71.1
Bone Marrow	8.4	7.9	8.1	8.4	8.7	9.2	10.0	10.3	11.0	10.5	10.7
Skin**	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2

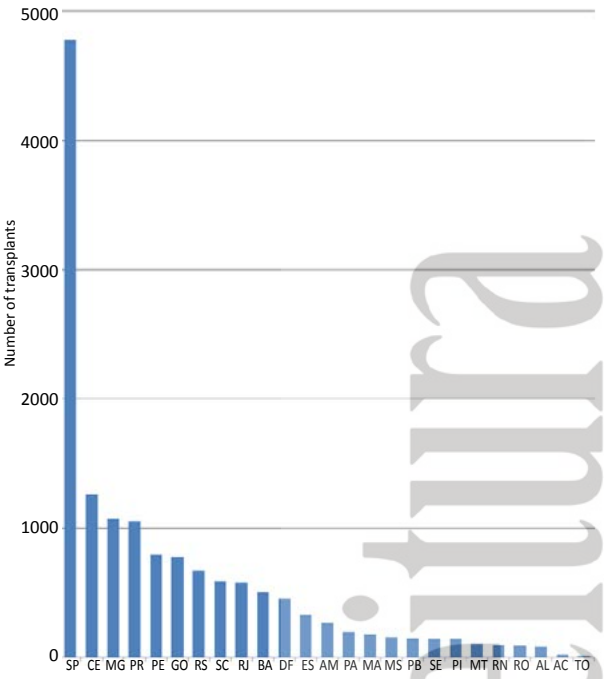
Versão Legenda
Associação Brasileira de Transplantes de Órgãos

Annual number of transplants in Brazil between 2006 and 2016

Cornea - (in 25 states)

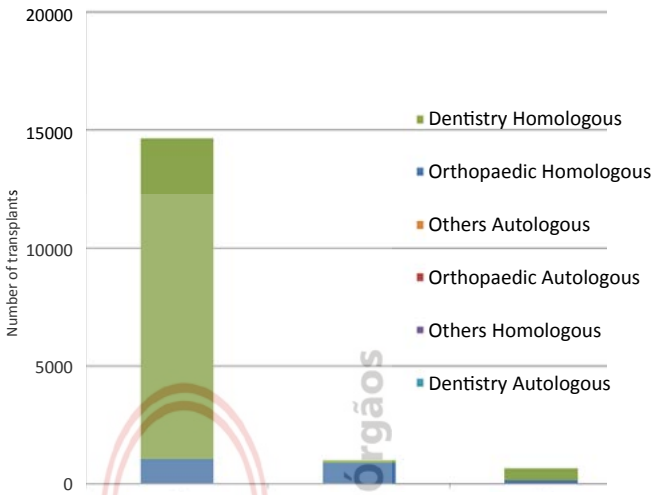
Number of corneal transplants by state during the year 2016

State	Total
SP	4,776
CE	1,267
MG	1,076
PR	1,057
PE	827
GO	777
RS	669
SC	600
RJ	575
BA	504
DF	453
ES	327
AM	266
PA	195
MA	178
MS	155
PB	145
SE	141
PI	139
MT	106
RN	104
RO	83
AL	82
AC	20
TO	12
Brazil	14,534



Bone - (in 3 states)

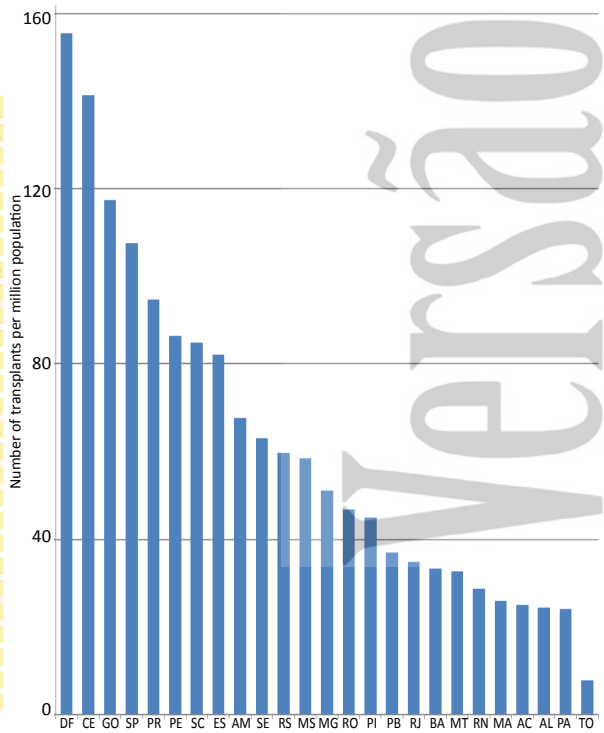
Bone transplants data available from five tissue banks in three states, during the year 2016



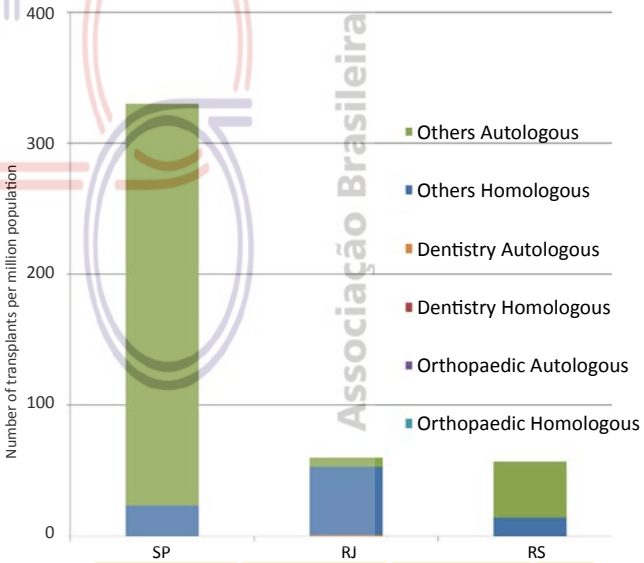
	Orthopaedic		Dentistry		Others		
	Homologous	Autologous	Homologous	Autologous	Homologous	Autologous	Total
SP	1.023	0	13.629	0	0	1	14.653
RJ	858	7	112	0	0	16	993
RS	163	0	484	0	0	0	647
Brazil	2.044	7	14.225	0	0	17	16.293

Number of corneal transplants per million population during the year 2016

State	Total
DF	155.4
CE	142.3
GO	117.5
SP	107.6
PR	94.7
PE	88.5
SC	88.0
ES	83.2
AM	67.5
SE	62.9
RS	59.5
MS	58.5
MG	51.6
RO	46.9
PI	43.4
PB	36.5
RJ	34.7
BA	33.1
MT	32.5
RN	30.2
MA	25.8
AC	24.9
AL	24.5
PA	23.9
TO	7.9
Brazil	71.1



Bone transplants per million population data available from five tissue banks in three states, during the year 2016



	Orthopaedic		Dentistry		Others		
	Homologous	Autologous	Homologous	Autologous	Homologous	Autologous	Total
SP	23.0	0.0	307.0	0.0	0.0	0.0	330.1
RJ	51.8	0.4	6.8	0.0	0.0	1.0	60.0
RS	14.5	0.0	43.0	0.0	0.0	0.0	57.5
Brazil	10.0	0.0	69.6	0.0	0.0	0.1	79.7

Versão preliminar
Associação Brasileira de Transplante de Órgãos

EDITORIAL

Pediatric Transplants in Brazil in 2016

Brazilian pediatric population is approximately 53 million according to IBGE institute. In 2016, 705 children entered the solid organ transplant waiting list, 527 (75%) received a transplant and 78 expired while waiting. In Brazil the number of pediatric solid organ transplants has remained stable, with some variation, in recent years. In 2014, it was 13.3% higher than in 2013. In 2015, it fell by 5% compared to 2014. In 2016, 310 pediatric kidney transplants (5.8 pmpp) were performed, a small decrease of 2% as compared to 2015. The majority of these transplants (285; 92%), were performed with deceased donor organs. We argue whether this is enough since 380 new patients with end stage renal disease were listed (7.2 pmpp) and among then 310 (81.5%) received a kidney graft, while 3% died whilst on the list. Nine Brazilian states that performed more than 10 transplants per year. The number of transplants increased by 50%, or more in Ceará, Bahia and the Federal District. Congratulations to those states! São Paulo, Rio Grande do Sul and Paraná kept their numbers stable while Minas Gerais, Rio de Janeiro and Pernambuco, dropped their number of kidney transplants. In Rio de Janeiro and Pernambuco, only 13 and 8 children entered the waiting list, respectively. The reasons for such must be clarified in order to assure that these children have appropriate access to treatment.

Pediatric liver transplants presented a minimal increment; 177 were performed in 2015 and 180 in 2016 (3.4 pmpp). Interestingly, in recent years, there has been a progressive increase in the number of transplants with living donors, in fact in the last four years have pediatric living donor liver transplants have outnumbered transplants with deceased donors, which now correspond to 30% of the total.

Rates of heart (0.6 pmpp) and lung transplantation (0.1 pmpp) remained stable; however, the numbers are very small. In 2016, 69 children were placed on the waiting list, 32 (46%) were transplanted and, unfortunately, 19 (34%) died while waiting.

What stands out from the 2016 data as compared to previous years is that 74% of the children who are on the waiting list were transplanted.

Again, there is a need to work on facilitating access for children with vital organ failure to reach transplant centers and there still exists a need to promote education about organ donation in order to increase the numbers of transplants.

Let´s remain optimistic for 2017, the year of the ABTO Congress, when we can raise awareness of the population and the health services, facilitating children's access to transplantation.

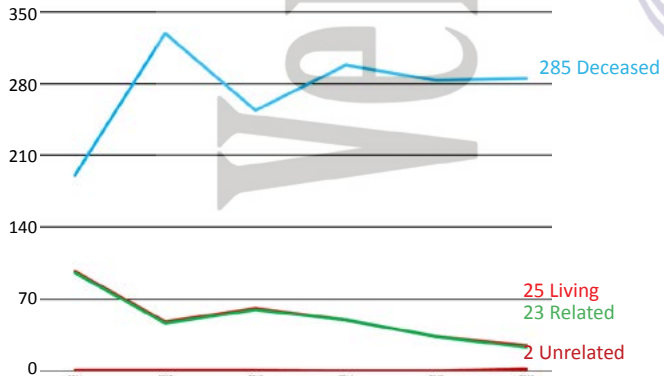
Clotilde Druck Garcia

Number of pediatric transplants, during 2016

Organ	Living	Deceased	Total	PMPP*	Nº Teams
HEART	0	32	32	0,6	10
LIVER	119	61	180	3,4	22
LUNG	0	5	5	0,1	3
KIDNEY	25	285	310	5,8	45
Total	**144**	**383**	**527**		**80**

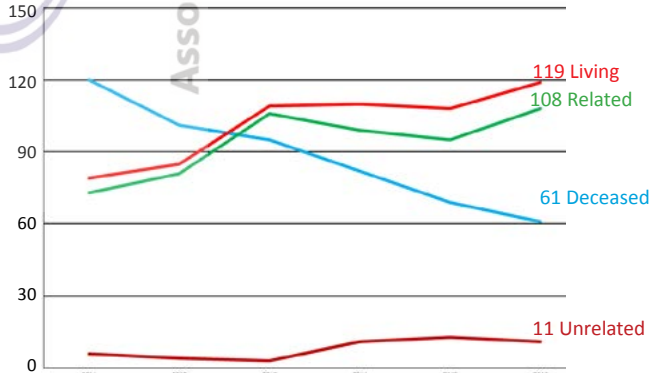
PMPP*- per million population pediatric

Annual number of pediatric kidney transplants



	2011	2012	2013	2014	2015	2016
Deceased	191	329	254	298	283	285
Living	97	48	61	50	34	25
Related	96	47	60	50	34	23
Unrelated	1	1	1	0	0	2
Total	288	377	315	348	317	310

Annual number of pediatric Liver transplants



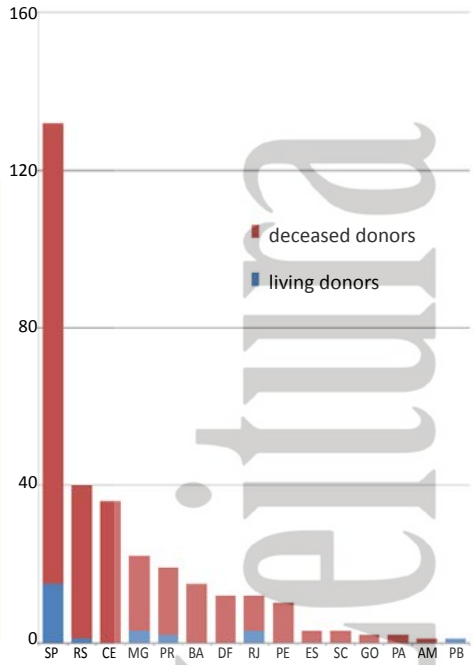
	2011	2012	2013	2014	2015	2016
Deceased	120	101	95	82	69	61
Living	79	85	109	110	108	119
Related	73	81	106	99	95	108
Unrelated	6	4	3	11	13	11
Total	199	186	204	192	177	180

PEDIATRIC TRANSPLANTATION

KIDNEY

Number of transplants per state during the year 2016

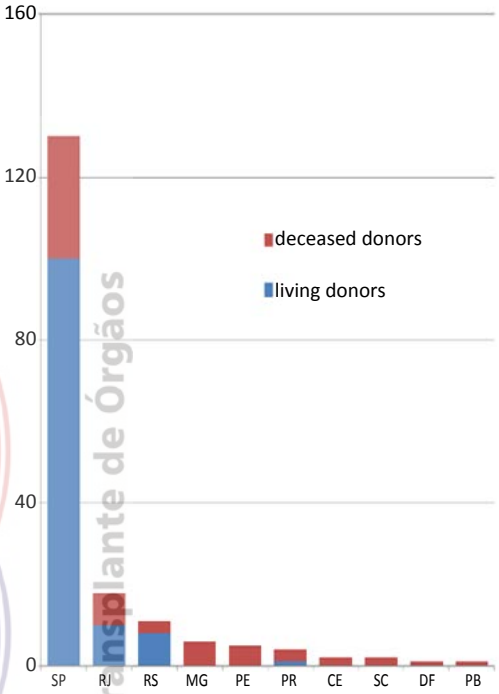
State	Living	Deceased	Total
SP	15	117	132
RS	1	39	40
CE	0	36	36
MG	3	19	22
PR	2	17	19
BA	0	15	15
DF	0	12	12
RJ	3	9	12
PE	0	10	10
ES	0	3	3
SC	0	3	3
GO	0	2	2
PA	0	2	2
AM	0	1	1
PB	1	0	1
Brazil	25	285	310



LIVER

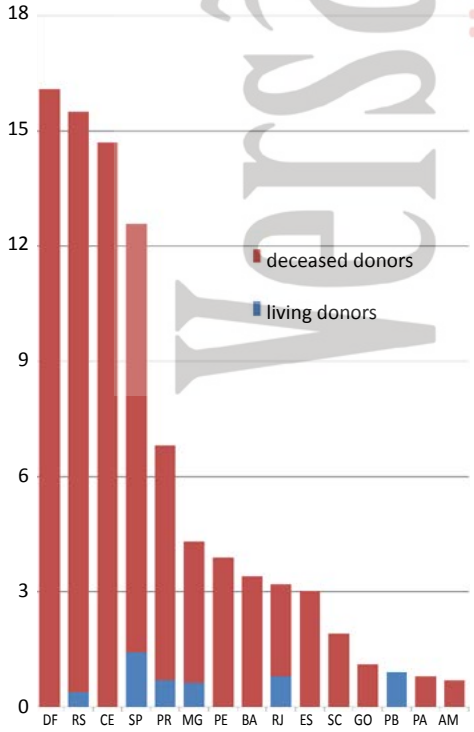
Number of transplants per state during the year 2016

State	Living	Deceased	Total
SP	100	30	130
RJ	10	8	18
RS	8	3	11
MG	0	6	6
PE	0	5	5
PR	1	3	4
CE	0	2	2
SC	0	2	2
DF	0	1	1
PB	0	1	1
Brazil	119	61	180



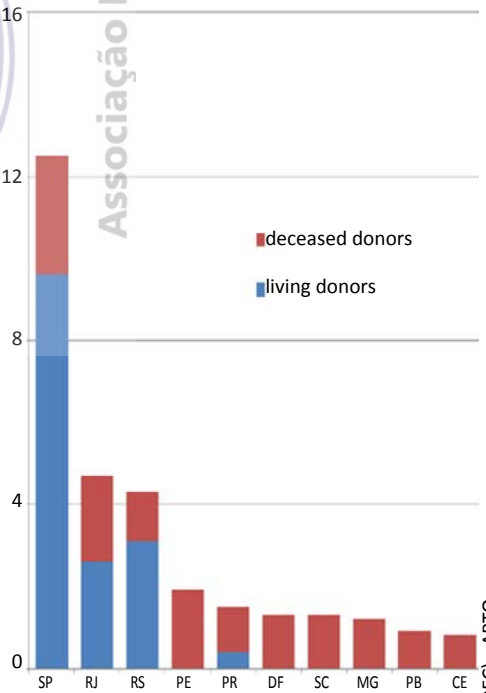
Transplants pmp per state in 2016

State	Living	Deceased	Total
DF	0.0	16.1	16.1
RS	0.4	15.1	15.5
CE	0.0	14.7	14.7
SP	1.4	11.2	12.6
PR	0.7	6.1	6.9
MG	0.6	3.7	4.3
PE	0.0	3.9	3.9
BA	0.0	3.4	3.4
RJ	0.8	2.4	3.1
ES	0.0	3.0	3.0
SC	0.0	1.9	1.9
GO	0.0	1.1	1.1
PB	0.9	0.0	0.9
PA	0.0	0.8	0.8
AM	0.0	0.7	0.7
Brazil	0.5	5.3	5.8



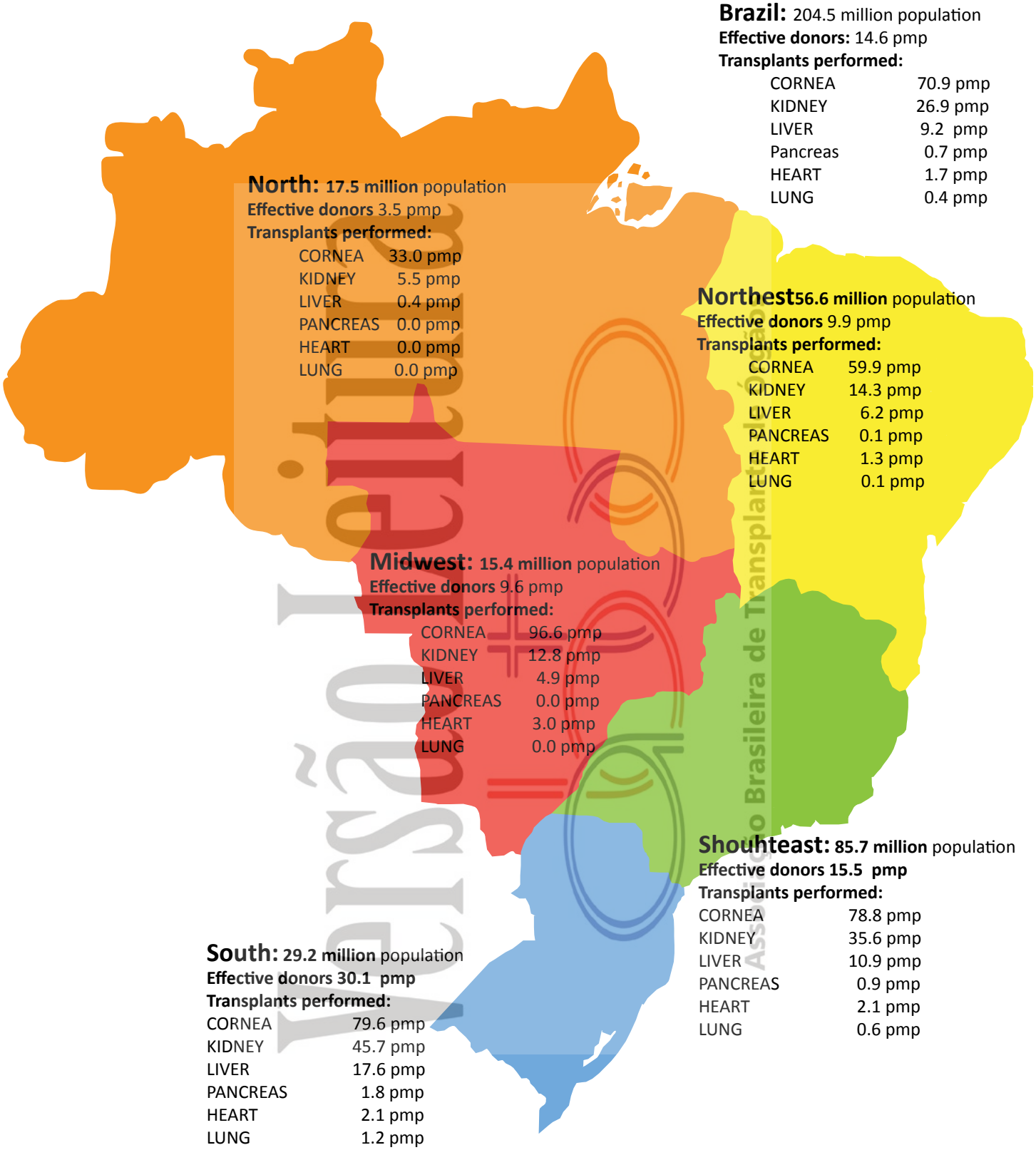
Transplants pmp per state in 2016

Estado	Living	Deceased	Total
SP	9.6	2.9	12.5
RJ	2.6	2.1	4.7
RS	3.1	1.2	4.3
PE	0.0	1.9	1.9
PR	0.4	1.1	1.4
DF	0.0	1.3	1.3
SC	0.0	1.3	1.3
MG	0.0	1.2	1.2
PB	0.0	0.9	0.9
CE	0.0	0.8	0.8
Brazil	2.2	1.1	3.4



Versão Preliminar
Associação Brasileira de Transplante de Órgãos

DATA FROM BRAZILIAN REGIONS



Brazil: 204.5 million population
Effective donors: 14.6 pmp
Transplants performed:

CORNEA	70.9 pmp
KIDNEY	26.9 pmp
LIVER	9.2 pmp
Pancreas	0.7 pmp
HEART	1.7 pmp
LUNG	0.4 pmp

North: 17.5 million population
Effective donors 3.5 pmp
Transplants performed:

CORNEA	33.0 pmp
KIDNEY	5.5 pmp
LIVER	0.4 pmp
PANCREAS	0.0 pmp
HEART	0.0 pmp
LUNG	0.0 pmp

Northest56.6 million population
Effective donors 9.9 pmp
Transplants performed:

CORNEA	59.9 pmp
KIDNEY	14.3 pmp
LIVER	6.2 pmp
PANCREAS	0.1 pmp
HEART	1.3 pmp
LUNG	0.1 pmp

Midwest: 15.4 million population
Effective donors 9.6 pmp
Transplants performed:

CORNEA	96.6 pmp
KIDNEY	12.8 pmp
LIVER	4.9 pmp
PANCREAS	0.0 pmp
HEART	3.0 pmp
LUNG	0.0 pmp

Shouhteast: 85.7 million population
Effective donors 15.5 pmp
Transplants performed:

CORNEA	78.8 pmp
KIDNEY	35.6 pmp
LIVER	10.9 pmp
PANCREAS	0.9 pmp
HEART	2.1 pmp
LUNG	0.6 pmp

South: 29.2 million population
Effective donors 30.1 pmp
Transplants performed:

CORNEA	79.6 pmp
KIDNEY	45.7 pmp
LIVER	17.6 pmp
PANCREAS	1.8 pmp
HEART	2.1 pmp
LUNG	1.2 pmp

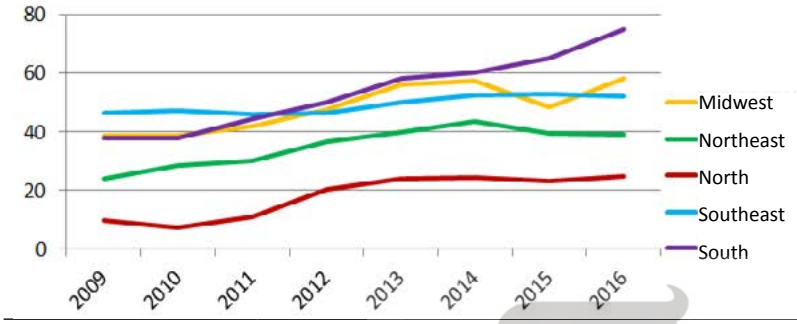
Versão Final
Associação Brasileira de Transplantes de Órgãos

POPULATION	2009	2010	2011	2012	2013	2014	2015	2016
Midwest	13,222,854	14,058,094	14,058,094	14,058,094	14,058,094	14,058,094	15,219,608	15,442,232
Northeast	51,534,406	53,081,950	53,081,950	53,081,950	53,081,950	53,081,950	56,186,190	56,560,081
North	14,623,316	15,864,454	15,864,454	15,864,454	15,864,454	15,864,454	17,231,027	17,472,636
Southeast	77,873,120	80,364,410	80,364,410	80,364,410	80,364,410	80,364,410	85,115,623	85,745,520
South	26,733,595	27,386,891	27,386,891	27,386,891	27,386,891	27,386,891	29,016,114	29,230,180

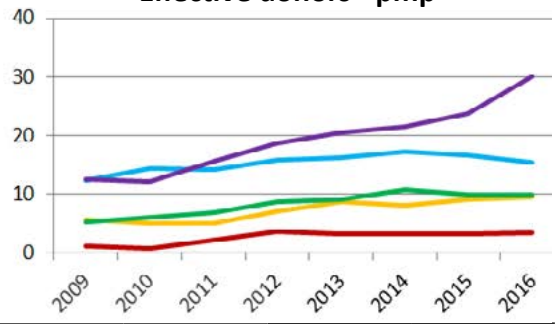
DATA FROM BRAZILIAN REGIONS

ORGAN DONATION

Notified donors - pmp



Effective donors - pmp



Number of potential donors by year

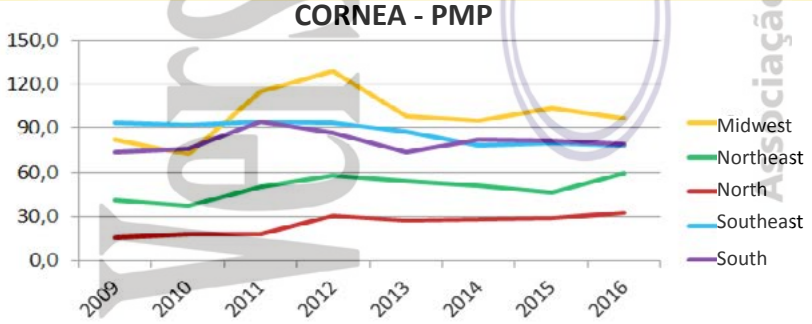
Absolute number	2009	2010	2011	2012	2013	2014	2015	2016
Midwest	508	544	589	671	789	807	734	897
Northeast	1,241	1,509	1,589	1,948	2,102	2,298	2,208	2,205
North	143	112	175	319	378	384	401	432
Southeast	3,593	3,781	3,673	3,718	4,010	4,219	4,474	4,433
South	1,005	1,033	1,212	1,369	1,592	1,643	1,881	2,190
Number pmp	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**
Midwest	38.4	38.7	41.9	47.7	56.1	57.4	48.2	58.1
Northeast	24.1	28.4	29.9	36.7	39.6	43.3	39.3	39.0
North	9.8	7.1	11.0	20.1	23.8	24.2	23.3	24.7
Southeast	46.1	47.0	45.7	46.3	49.9	52.5	52.6	51.7
South	37.6	37.7	44.3	50.0	58.1	60.0	64.8	74.9

Number of effective donors por ano

Absolute number	2009	2010	2011	2012	2013	2014	2015	2016
Midwest	75	72	72	98	124	115	139	148
Northeast	269	321	367	466	489	569	555	561
North	16	11	37	58	53	53	57	62
Southeast	961	1,159	1,143	1,274	1,298	1,387	1,414	1,330
South	337	335	429	510	562	589	689	880
Number pmp	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**
Midwest	5.7	5.1	5.1	7.0	8.8	8.2	9.1	9.6
Northeast	5.2	6.0	6.9	8.8	9.2	10.7	9.9	9.9
North	1.1	0.7	2.3	3.7	3.3	3.3	3.3	3.5
Southeast	12.3	14.4	14.2	15.9	16.2	17.3	16.6	15.5
South	12.6	12.2	15.7	18.6	20.5	21.5	23.7	30.1

Tissue Transplantation

CORNEA - PMP

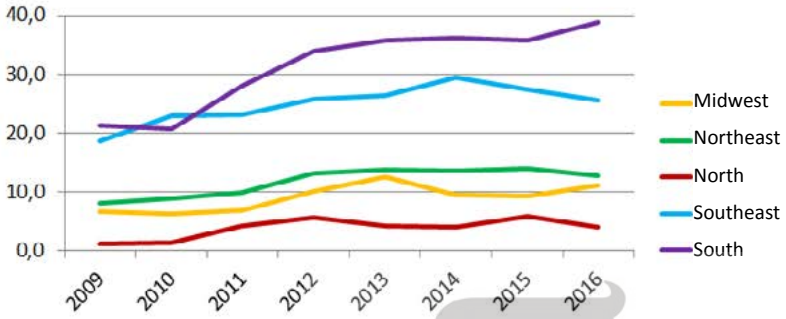


CORNEA	2009	2010	2011	2012	2013	2014	2015	2016
Absolute number	12,724	12,778	14,726	15,280	13,744	13,056	13,861	14,534
Midwest	1,091	1,018	1,620	1,811	1,377	1,341	1,579	1,491
Northeast	2,114	1,977	2,651	3,087	2,883	2,697	2,625	3,387
North	231	294	317	480	438	447	499	576
Southeast	7,320	7,398	7,557	7,534	7,022	6,321	6,784	6,754
South	1,968	2,091	2,581	2,368	2,024	2,250	2,374	2,326
Number pmp	69.2	67.0	77.2	80.1	72.1	68.4	68.4	71.1
Midwest	82.5	72.4	115.2	128.8	98.0	95.4	103.7	96.6
Northeast	41.0	37.2	49.9	58.2	54.3	50.8	46.7	59.9
North	15.8	18.5	20.0	30.3	27.6	28.2	29.0	33.0
Southeast	94.0	92.1	94.0	93.7	87.4	78.7	79.7	78.8
South	73.6	76.4	94.2	86.5	73.9	82.2	81.8	79.6

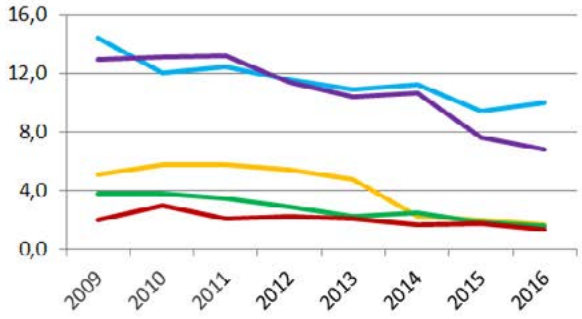
DATA FROM BRAZILIAN REGIONS

Organ Transplantation

Kidney from deceased donors - pmp



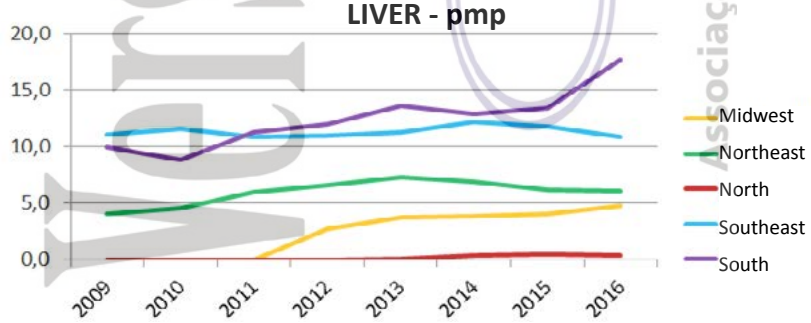
Kidney from living donors - pmp



kidney (living donors)	2009	2010	2011	2012	2013	2014	2015	2016
Absolute number	1,752	1,656	1,662	1,504	1,386	1,386	1,189	1,200
Midwest	67	81	81	76	68	33	31	27
Northeast	194	203	187	153	124	132	107	93
North	29	47	33	37	33	27	31	25
Southeast	1,118	967	1,000	926	876	904	800	856
South	344	358	361	312	285	290	220	199
Number pmp	9.5	8.7	8.7	7.9	7.3	7.3	5.9	5.9
Midwest	5.1	5.8	5.8	5.4	4.8	2.3	2.0	1.7
Northeast	3.8	3.8	3.5	2.9	2.3	2.5	1.9	1.6
North	2.0	3.0	2.1	2.3	2.1	1.7	1.8	1.4
Southeast	14.4	12.0	12.4	11.5	10.9	11.2	9.4	10.0
South	12.9	13.1	13.2	11.4	10.4	10.6	7.6	6.8

kidney (deceased donors)	2009	2010	2011	2012	2013	2014	2015	2016
Absolute number	2,546	3,006	3,331	3,931	4,078	4,271	4,401	4,292
Midwest	89	88	97	143	177	134	141	171
Northeast	417	479	532	698	731	715	793	721
North	18	24	68	91	69	64	100	72
Southeast	1,449	1,846	1,868	2,071	2,120	2,368	2,332	2,191
South	573	569	766	928	981	990	1,035	1,137
Number pmp	13.8	15.8	17.5	20.6	21.4	22.4	21.7	21.0
Midwest	6.7	6.3	6.9	10.2	12.6	9.5	9.3	11.1
Northeast	8.1	9.0	10.0	13.1	13.8	13.5	14.1	12.7
North	1.2	1.5	4.3	5.7	4.3	4.0	5.8	4.1
Southeast	18.6	23.0	23.2	25.8	26.4	29.5	27.4	25.6
South	21.4	20.8	28.0	33.9	35.8	36.1	35.7	38.9

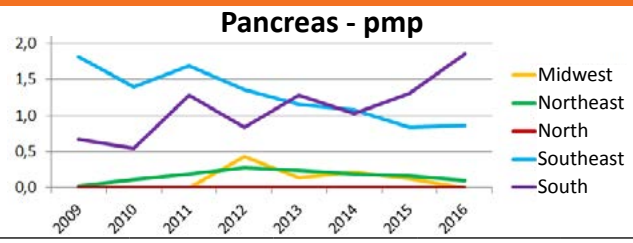
LIVER - pmp



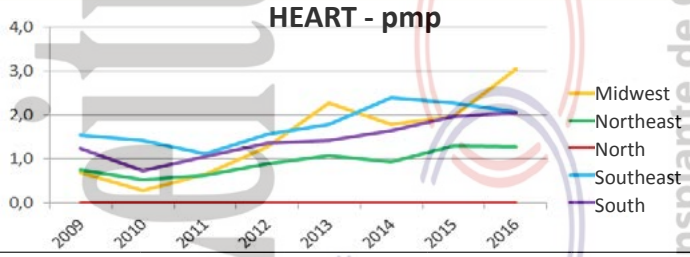
LIVER	2009	2010	2011	2012	2013	2014	2015	2016
Absolute number	1,334	1,413	1,496	1,601	1,722	1,757	1,809	1,880
Midwest	0	0	0	39	53	54	62	76
Northeast	208	244	316	351	387	366	350	349
North	0	0	0	0	1	7	9	7
Southeast	859	926	872	882	909	976	1,000	934
South	267	243	308	329	372	354	388	514
Number pmp	7.3	7.4	7.8	8.4	9.0	9.2	8.9	9.2
Midwest	0.0	0.0	0.0	2.8	3.8	3.8	4.1	4.9
Northeast	4.0	4.6	6.0	6.6	7.3	6.9	6.2	6.2
North	0.0	0.0	0.0	0.0	0.1	0.4	0.5	0.4
Southeast	11.0	11.5	10.9	11.0	11.3	12.1	11.7	10.9
South	10.0	8.9	11.2	12.0	13.6	12.9	13.4	17.6

Versão Final
Associação Brasileira de Transplante de Órgãos

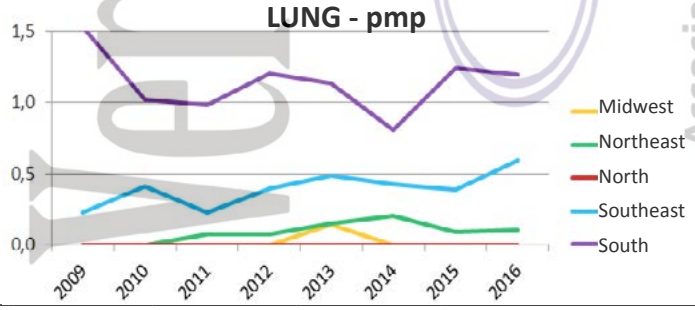
DATA FROM BRAZILIAN REGIONS



Pancreas	2009	2010	2011	2012	2013	2014	2015	2016
Absolute number	160	133	181	153	143	128	120	134
Midwest	0	0	0	6	2	3	2	0
Northeast	1	6	10	15	13	10	9	6
North	0	0	0	0	0	0	0	0
Southeast	141	112	136	109	93	87	71	74
South	18	15	35	23	35	28	38	54
Number pmp	0.9	0.7	0.9	0.8	0.7	0.7	0.6	0.7
Midwest	0.0	0.0	0.0	0.4	0.1	0.2	0.1	0.0
Northeast	0.0	0.1	0.2	0.3	0.2	0.2	0.2	0.1
North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Southeast	1.8	1.4	1.7	1.4	1.2	1.1	0.8	0.9
South	0.7	0.5	1.3	0.8	1.3	1.0	1.3	1.8



HEART	2009	2010	2011	2012	2013	2014	2015	2016
Absolute number	201	166	160	228	271	311	353	357
Midwest	9	4	9	18	32	25	30	47
Northeast	39	28	33	47	57	49	73	72
North	0	0	0	0	0	0	0	0
Southeast	120	114	89	126	143	192	193	178
South	33	20	29	37	39	45	57	60
Number pmp	1.1	0.9	0.8	1.2	1.4	1.6	1.7	1.7
Midwest	0.7	0.3	0.6	1.3	2.3	1.8	2.0	3.0
Northeast	0.8	0.5	0.6	0.9	1.1	0.9	1.3	1.3
North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Southeast	1.5	1.4	1.1	1.6	1.8	2.4	2.3	2.1
South	1.2	0.7	1.1	1.4	1.4	1.6	2.0	2.1



LUNG	2009	2010	2011	2012	2013	2014	2015	2016
Absolute number	59	61	49	69	80	67	74	92
Midwest	0	0	0	0	2	0	0	0
Northeast	0	0	4	4	8	11	5	6
North	0	0	0	0	0	0	0	0
Southeast	18	33	18	32	39	34	33	51
South	41	28	27	33	31	22	36	35
Number pmp	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Midwest	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Northeast	0.0	0.0	0.1	0.1	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	0.2	0.4	0.2	0.4	0.5	0.4	0.4	0.6
South	1.5	1.0	1.0	1.2	1.1	0.8	1.2	1.2

Associação Brasileira de Transplante de Órgãos

WAITING LIST

Patients active on the waiting list (December 2016)

STATE	KIDNEY	LIVER	HEART	LUNG	Pancreas	PANCREAS KIDNEY	CORNEA	TOTAL
Total - Brazil	**21.264**	**1.331**	**282**	**172**	**31**	**539**	**10.923**	**34.542**
Acre	15	6	0	0	0	0	6	**27**
Alagoas	162	0	1	0	0	0	162	**325**
Amazonas	4	0	0	0	0	0	58	**62**
Bahia	778	22	0	0	0	0	1.101	**1.901**
Ceará	487	133	13	4	1	9	33	**680**
Distrito Federal	215	10	5	0	0	0	61	**291**
Espírito Santo	862	50	7	0	0	0	70	**989**
Goiás	260	0	3	0	0	1	513	**777**
Maranhão	165	0	0	0	0	0	760	**925**
Mato Grosso	0	0	0	0	0	0	226	**226**
Mato Grosso do Sul	21	0	0	0	0	0	70	**91**
Minas Gerais	2.297	47	27	0	1	52	687	**3.111**
Pará	109	0	0	0	0	0	1.086	**1.195**
Paraíba	169	4	0	0	0	0	316	**489**
Paraná	2.228	170	50	0	6	28	52	**2.534**
Pernambuco	566	45	11	0	0	2	73	**697**
Piauí	243	0	0	0	0	0	386	**629**
Rio de Janeiro	927	72	11	0	0	0	1.310	**2.320**
Rio Grande do Norte	109	0	0	0	0	0	148	**257**
Rio Grande do Sul	857	152	20	74	4	19	23	**1.149**
Rondonia	57	0	0	0	0	0	117	**174**
Santa Catarina	294	18	1	0	0	12	37	**362**
São Paulo	10.439	602	132	94	19	416	3.427	**15.129**
Sergipe	0	0	1	0	0	0	199	**200**
Tocantins	0	0	0	0	0	0	2	**2**

Pediatric patients active on the waiting list (December 2016)

Estado	KIDNEY	LIVER	HEART	LUNG	Pancreas	PANCREAS KIDNEY	CORNEA	TOTAL
Total - Brazil	**340**	**53**	**37**	**12**	**0**	**0**	**474**	**916**
Acre	0	0	0	0	0	0	0	**0**
Alagoas	0	0	0	0	0	0	0	**0**
Amazonas	0	0	0	0	0	0	4	**4**
Bahia	12	0	0	0	0	0	10	**22**
Ceará	3	0	5	0	0	0	0	**8**
Distrito Federal	1	0	0	0	0	0	7	**8**
Espírito Santo	10	0	0	0	0	0	1	**11**
Goiás	0	0	0	0	0	0	34	**34**
Maranhão	4	0	0	0	0	0	0	**4**
Mato Grosso	0	0	0	0	0	0	19	**19**
Mato Grosso do Sul	1	0	0	0	0	0	5	**6**
Minas Gerais	18	0	0	0	0	0	47	**65**
Pará	12	0	0	0	0	0	69	**81**
Paraíba	0	0	0	0	0	0	7	**7**
Paraná	17	0	0	0	0	0	1	**18**
Pernambuco	1	0	2	0	0	0	6	**9**
Piauí	0	0	0	0	0	0	26	**26**
Rio de Janeiro	11	15	0	0	0	0	70	**96**
Rio Grande do Norte	0	0	0	0	0	0	6	**6**
Rio Grande do Sul	21	1	7	3	0	0	1	**33**
Rondonia	0	0	0	0	0	0	0	**0**
Santa Catarina	2	0	0	0	0	0	1	**3**
São Paulo	227	37	23	9	0	0	147	**443**
Sergipe	0	0	0	0	0	0	13	**13**
Tocantins	0	0	0	0	0	0	0	**0**

Versão Preliminar
Associação Brasileira de Transplante de Órgãos

WAITING LIST

Number of patients and mortality by State

		KIDNEY		LIVER		HEART		LUNG		Pancreas		Pancreas/ Kidney		CORNEA		TOTAL	
		Total	*Pediatrics*	Total	*Pediatrics*	Total	*Pediatrics*	Total	*Pediatrics*	Total	*Pediatrics*	Total	*Pediatrics*	Total	*Pediatrics*	Total	*Pediatrics*
Total - Brazil	**Entering**	**13,094**	**392**	**3,733**	**247**	**631**	**69**	**127**	**10**	**28**	**0**	**251**	**0**	**21,192**	**913**	**39,056**	**1,631**
	Mortality	**1,003**	**16**	**723**	**43**	**145**	**19**	**43**	**3**	**1**	**0**	**33**	**0**	**65**	**1**	**2,013**	**82**
Acre	Entering	25	*0*	20	*0*	0	*0*	0	*0*	0	*0*	0	*0*	12	*0*	**57**	***0***
	Mortality	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	**0**	***0***
Alagoas	Entering	291	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	145	*0*	**436**	***0***
	Mortality	28	*0*	0	*0*	2	*0*	0	*0*	0	*0*	0	*0*	0	*0*	**30**	***0***
Amazonas	Entering	33	*3*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	170	*15*	**203**	***18***
	Mortality	7	*1*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	1	*0*	**8**	***1***
Bahia	Entering	775	*25*	122	*0*	0	*0*	1	*0*	0	*0*	0	*0*	1,185	*4*	**2,083**	***29***
	Mortality	74	*2*	25	*0*	0	*0*	0	*0*	0	*0*	0	*0*	12	*0*	**111**	***2***
Ceará	Entering	374	*32*	367	*3*	46	*12*	10	*0*	1	*0*	6	*0*	1,400	*32*	**2,204**	***79***
	Mortality	9	*0*	53	*1*	8	*3*	3	*0*	0	*0*	1	*0*	1	*0*	**75**	***4***
Distrito Federal	Entering	189	*2*	95	*0*	54	*2*	0	*0*	0	*0*	0	*0*	503	*13*	**841**	***17***
	Mortality	4	*0*	12	*0*	16	*2*	0	*0*	0	*0*	0	*0*	0	*0*	**32**	***2***
Espírito Santo	Entering	758	*0*	149	*1*	24	*0*	0	*0*	0	*0*	0	*0*	902	*0*	**1,833**	***1***
	Mortality	161	*0*	24	*1*	16	*0*	0	*0*	0	*0*	0	*0*	0	*0*	**201**	***1***
Goiás	Entering	88	*0*	0	*0*	8	*0*	0	*0*	0	*0*	0	*0*	1,051	*72*	**1,147**	***72***
	Mortality	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	1	*0*	**1**	***0***
Maranhão	Entering	107	*4*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	295	*23*	**402**	***27***
	Mortality	1	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	6	*0*	**7**	***0***
Mato Grosso	Entering	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	167	*8*	**167**	***8***
	Mortality	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	1	*0*	**1**	***0***
Mato Grosso do Sul	Entering	6	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	190	*10*	**196**	***10***
	Mortality	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	**0**	***0***
Minas Gerais	Entering	787	*32*	125	*6*	41	*0*	0	*0*	2	*0*	23	*0*	1,820	*117*	**2,798**	***155***
	Mortality	173	*1*	29	*0*	14	*0*	3	*0*	0	*0*	3	*0*	7	*0*	**229**	***1***
Pará	Entering	119	*3*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	154	*9*	**273**	***12***
	Mortality	6	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	3	*0*	**9**	***0***
Paraíba	Entering	193	*4*	5	*2*	0	*0*	0	*0*	0	*0*	0	*0*	359	*13*	**557**	***19***
	Mortality	21	*3*	1	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	**22**	***3***
Paraná	Entering	2,114	*21*	907	*4*	142	*12*	0	*0*	12	*0*	107	*0*	3,289	*128*	**6,571**	***165***
	Mortality	28	*0*	109	*3*	37	*5*	0	*0*	0	*0*	7	*0*	0	*0*	**181**	***8***
Pernambuco	Entering	1,105	*13*	285	*4*	57	*5*	0	*0*	0	*0*	9	*0*	1,095	*60*	**2,551**	***82***
	Mortality	49	*1*	33	*1*	6	*2*	0	*0*	0	*0*	1	*0*	12	*0*	**101**	***4***
Piauí	Entering	64	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	230	*17*	**294**	***17***
	Mortality	20	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	6	*0*	**26**	***0***
Rio de Janeiro	Entering	592	*8*	274	*15*	18	*0*	0	*0*	0	*0*	0	*0*	1,027	*11*	**1,911**	***34***
	Mortality	3	*0*	52	*1*	6	*0*	0	*0*	0	*0*	0	*0*	15	*0*	**76**	***1***
Rio Grande do Norte	Entering	116	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	70	*5*	**186**	***5***
	Mortality	1	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	**1**	***0***
Rio Grande do Sul	Entering	615	*46*	155	*12*	32	*5*	63	*0*	2	*0*	11	*0*	546	*28*	**1,424**	***91***
	Mortality	58	*1*	68	*0*	10	*2*	25	*2*	0	*0*	4	*0*	0	*0*	**165**	***5***
Rondônia	Entering	10	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	70	*0*	**80**	***0***
	Mortality	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	**0**	***0***
Santa Catarina	Entering	161	*5*	112	*2*	3	*0*	0	*0*	0	*0*	4	*0*	307	*18*	**587**	***25***
	Mortality	4	*0*	6	*0*	0	*0*	0	*0*	0	*0*	2	*0*	0	*0*	**12**	***0***
São Paulo	Entering	4,572	*194*	1,117	*198*	205	*33*	53	*10*	11	*0*	91	*0*	5,982	*328*	**12,031**	***763***
	Mortality	356	*7*	311	*36*	30	*5*	12	*1*	1	*0*	15	*0*	0	*0*	**725**	***49***
Sergipe	Entering	0	*0*	0	*0*	1	*0*	0	*0*	0	*0*	0	*0*	210	*2*	**211**	***2***
	Mortality	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*1*	**0**	***1***
Tocantins	Entering	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	13	*0*	**13**	***0***
	Mortality	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	0	*0*	**0**	***0***

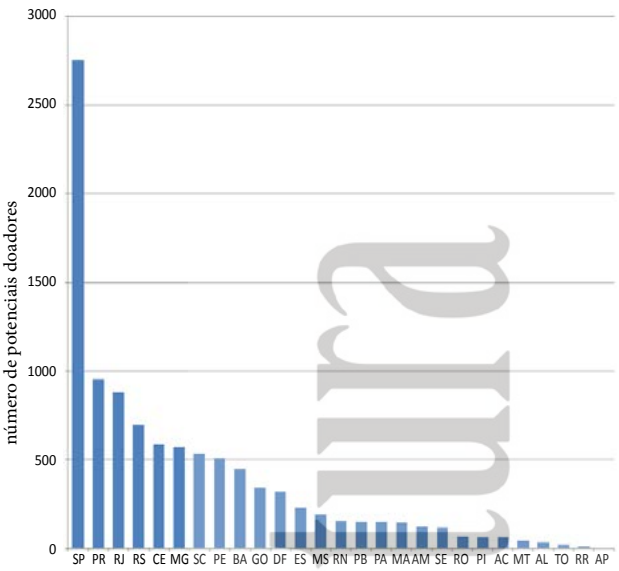
Versão Final
Associação Brasileira de Transplante de Órgãos

DATA FROM BRAZILIAN STATES

ORGAN DONATION x TRANSPLANTS DURING YEAR 2016

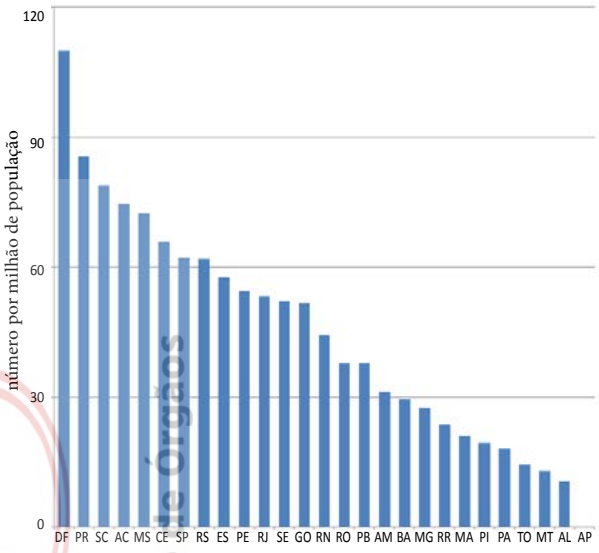
State	Total
SP	2,757
PR	956
RJ	878
RS	697
CE	587
MG	571
SC	537
PE	509
BA	448
GO	342
DF	321
ES	227
MS	192
RN	152
PB	150
PA	148
MA	146
AM	123
SE	117
RO	67
PI	62
AC	60
MT	42
AL	35
TO	22
RR	12
AP	0
Brazil	10,158

Number of notifications of potential donors, by state



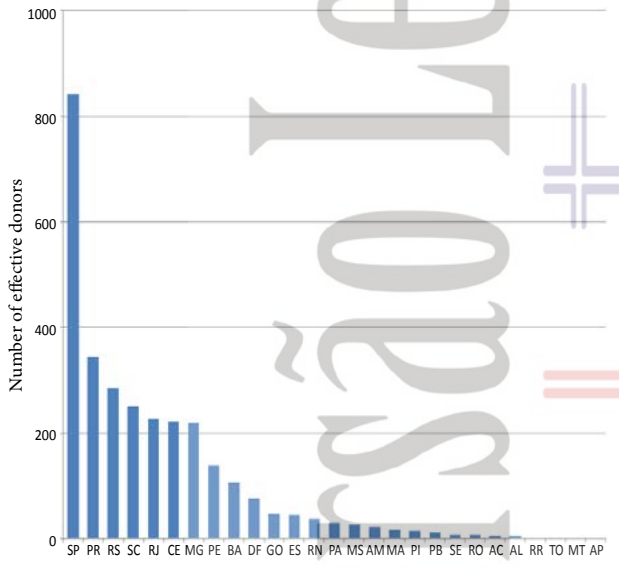
State	Total
DF	110.1
PR	85.6
SC	78.8
AC	74.6
MS	72.4
CE	65.9
SP	62.1
RS	62.0
ES	57.8
PE	54.5
RJ	53.1
SE	52.2
GO	51.7
RN	44.2
RO	37.9
PB	37.8
AM	31.2
BA	29.5
MG	27.4
RR	23.7
MA	21.1
PI	19.4
PA	18.1
TO	14.5
MT	12.9
AL	10.5
AP	0.0
Brazil	49.7

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



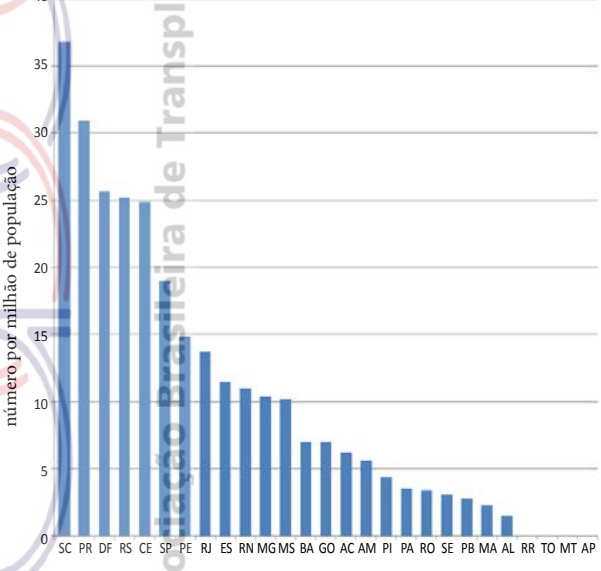
State	Total
SP	842
PR	345
RS	284
SC	251
RJ	226
CE	222
MG	217
PE	140
BA	107
DF	75
GO	46
ES	45
RN	39
PA	29
MS	27
AM	22
MA	16
PI	14
PB	11
SE	7
RO	6
AC	5
AL	5
RR	0
TO	0
MT	0
AP	0
Brazil	2,981

Number of effective donors by state



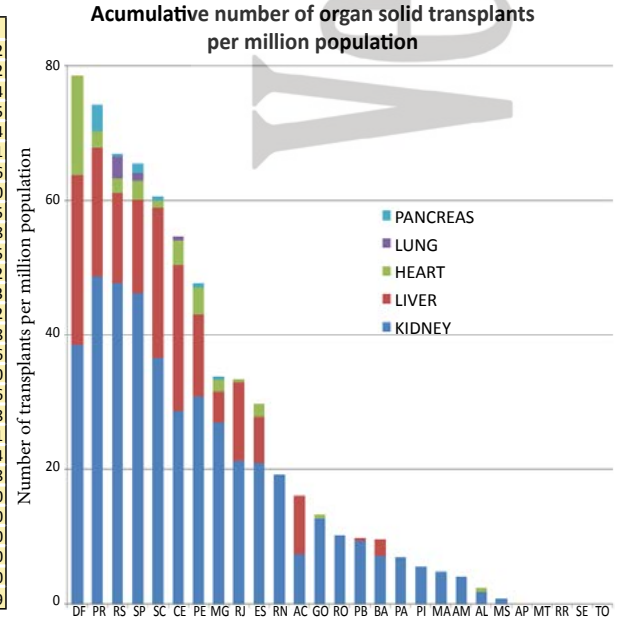
State	Total
SC	36.8
PR	30.9
DF	25.7
RS	25.2
CE	24.9
SP	19.0
PE	15.0
RJ	13.7
ES	11.5
RN	11.3
MG	10.4
MS	10.2
BA	7.0
GO	7.0
AC	6.2
AM	5.6
PI	4.4
PA	3.5
RO	3.4
SE	3.1
PB	2.8
MA	2.3
AL	1.5
RR	0.0
TO	0.0
MT	0.0
AP	0.0
Brazil	14.6

Number of effective donors, per million population



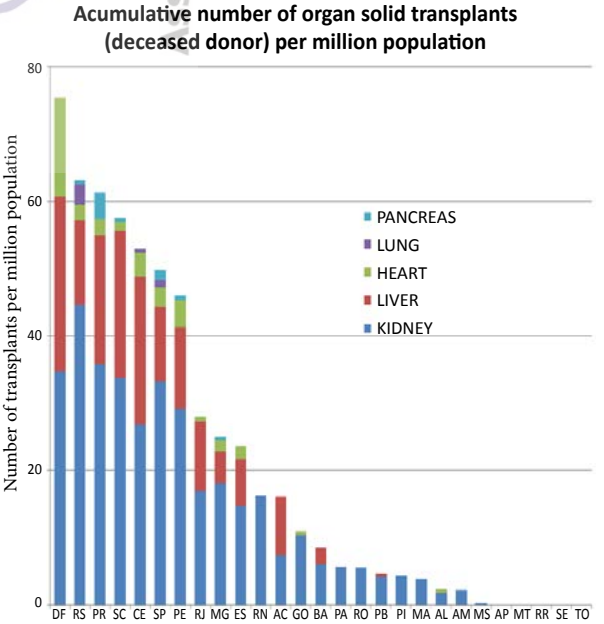
State	Total
DF	79.2
PR	74.2
RS	67.4
SP	65.5
SC	60.4
CE	55.1
PE	47.6
MG	34.0
RJ	33.5
ES	29.8
RN	19.5
AC	16.2
GO	13.3
RO	10.2
PB	9.8
BA	9.6
PA	7.0
PI	5.6
MA	4.8
AM	4.1
AL	2.4
MS	0.8
AP	0.0
MT	0.0
RR	0.0
SE	0.0
T0	0.0
Brazil	38.9

Acumulative number of organ solid transplants per million population



State	Total
DF	75.5
RS	63.5
PR	61.3
SC	57.5
CE	53.0
SP	49.8
PE	46.0
RJ	27.9
MG	25.0
ES	23.7
RN	16.3
AC	16.2
GO	11.0
BA	8.5
PA	5.7
RO	5.7
PB	4.8
PI	4.4
MA	3.9
AL	2.4
AM	2.3
MS	0.4
AP	0.0
MT	0.0
RR	0.0
SE	0.0
TO	0.0
Brazil	32.3

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



Versão Teste
Associação Brasileira de Transplantes de Órgãos

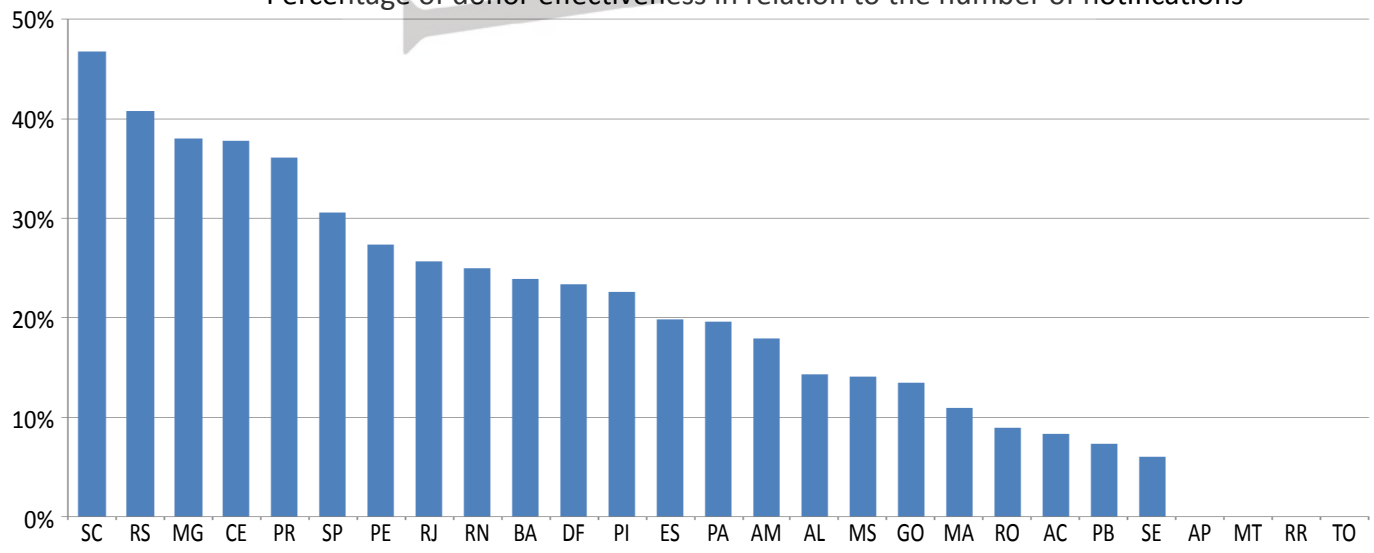
DATA FROM BRAZILIAN STATES

Notifications of potential donors, effective donors and donors whose organs were transplanted by state during the year 2016

State	Notifications (potential donors)		Refused Donors		Elegible donors		Effective donors		Donors with organs transplanted		Mutiple organ donors	
	number	pmp/ year	number	%	number	pmp/ year	number	pmp/ year	number	pmp/year	number	%
Total - Brazil	**10,158**	**49.7**	**7,177**	**(71%)**	**5,402**	**33.8**	**2,981**	**14.6**	**2,699**	**13.2**	**1,805**	**(67%)**
Acre	60	74.6	55	(92%)	45	56.0	5	6.2	5	6.2	5	(100%)
Alagoas	35	10.5	30	(86%)	24	7.2	5	1.5	5	1.5	2	(40%)
Amapá	0	0.0	0	(0%)	0	0.0	0	0.0	0	0.0	0	(0%)
Amazonas	123	31.2	101	(82%)	64	16.3	22	5.6	22	5.6	1	(5%)
Bahia	448	29.5	341	(76%)	300	19.7	107	7.0	85	5.6	60	(71%)
Ceará	587	65.9	365	(62%)	469	52.7	222	24.9	206	23.1	139	(67%)
Distrito Federal	321	110.1	246	(77%)	254	87.1	75	25.7	67	23.0	45	(67%)
Espírito Santo	227	57.8	182	(80%)	157	39.9	45	11.5	41	10.4	28	(68%)
Goiás	342	51.7	296	(87%)	214	32.4	46	7.0	42	6.4	18	(43%)
Maranhão	146	21.1	130	(89%)	85	12.3	16	2.3	10	1.4	2	(20%)
Mato Grosso	42	12.9	42	(100%)	10	3.1	0	0.0	0	0.0	0	(0%)
Mato Grosso do Sul	192	72.4	165	(86%)	152	57.3	27	10.2	25	9.4	12	(48%)
Minas Gerais	571	27.4	354	(62%)	343	16.4	217	10.4	211	10.1	197	(93%)
Pará	148	18.1	119	(80%)	103	12.6	29	3.5	25	3.1	17	(68%)
Paraíba	150	37.8	139	(93%)	57	14.4	11	2.8	10	2.5	7	(70%)
Paraná	956	85.6	611	(64%)	666	59.7	345	30.9	302	27.1	212	(70%)
Pernambuco	509	54.5	369	(72%)	438	46.9	140	15.0	128	13.7	101	(79%)
Piauí	62	19.4	48	(77%)	40	12.5	14	4.4	11	3.4	7	(64%)
Rio de Janeiro	878	53.1	652	(74%)	770	46.5	226	13.7	177	10.7	133	(75%)
Rio Grande do Norte	152	44.2	113	(74%)	136	39.5	39	11.3	37	10.7	28	(76%)
Rio Grande do Sul	697	62.0	413	(59%)	594	52.8	284	25.2	224	19.9	154	(69%)
Rondonia	67	37.9	61	(91%)	33	18.7	6	3.4	4	2.3	0	(0%)
Roraima	12	23.7	12	(100%)	0	0.0	0	0.0	0	0.0	0	(0%)
Santa Catarina	537	78.8	286	(53%)	384	56.3	251	36.8	215	31.5	183	(85%)
São Paulo	2757	62.1	1915	(69%)			842	19.0	841	18.9	450	(54%)
Sergipe	117	52.2	110	(94%)	54	24.1	7	3.1	6	2.7	4	(67%)
Tocantins	22	14.5	22	(100%)	10	6.6	0	0.0	0	0.0	0	(0%)

O número por milhão de população dos doadores elegiveis nacionais (33,8*), foi calculado sem a população de São Paulo que não enviou os dados.

Percentage of donor effectiveness in relation to the number of notifications



RBT 2016 (JAN/DEC) - ABTO

DATA FROM BRAZILIAN STATES

Reasons for non-fulfillment of organ donation by notified potential donors during the year 2016

STATE	Potential Donors	Family Enterview			Exclusion Reasons					
					Medical Reasons		Cardiopulmonary arrest		Others	
	number	Performed	nonconsent	%	number	%	number	%	number	%
Brazil	**10,158**	**5,939**	**2,571**	**(43%)**	**1,594**	**(16%)**	**1,136**	**(11%)**	**1,876**	**(18%)**
Acre	60	27	22	(81%)	24	(40%)	0	(0%)	9	(15%)
Alagoas	35	17	12	(71%)	0	(0%)	4	(11%)	14	(40%)
Amapá	0	0	0	(0%)	0	(0%)	0	(0%)	0	(0%)
Amazonas	123	45	20	(44%)	18	(15%)	2	(2%)	61	(50%)
Bahia	448	297	185	(62%)	61	(14%)	16	(4%)	79	(18%)
Ceará	587	375	149	(40%)	118	(20%)	69	(12%)	29	(5%)
Distrito Federal	321	159	58	(36%)	165	(51%)	9	(3%)	14	(4%)
Espírito Santo	227	115	63	(55%)	42	(19%)	11	(5%)	66	(29%)
Goiás	342	180	119	(66%)	66	(19%)	5	(1%)	106	(31%)
Maranhão	146	51	32	(63%)	32	(22%)	1	(1%)	65	(45%)
Mato Grosso	42	1	0	(0%)	2	(5%)	6	(14%)	34	(81%)
Mato Grosso do Sul	192	90	57	(63%)	56	(29%)	40	(21%)	12	(6%)
Minas Gerais	571	306	139	(45%)	25	(4%)	43	(8%)	147	(26%)
Pará	148	87	49	(56%)	25	(17%)	24	(16%)	21	(14%)
Paraíba	150	39	21	(54%)	18	(12%)	1	(1%)	99	(66%)
Paraná	956	561	187	(33%)	258	(27%)	96	(10%)	70	(7%)
Pernambuco	509	271	131	(48%)	162	(32%)	6	(1%)	70	(14%)
Piauí	62	41	23	(56%)	21	(34%)	2	(3%)	2	(3%)
Rio de Janeiro	878	428	198	(46%)	216	(25%)	170	(19%)	68	(8%)
Rio G. do Norte	152	101	53	(52%)	22	(14%)	10	(7%)	28	(18%)
Rio G. do Sul	697	521	211	(40%)	85	(12%)	108	(15%)	9	(1%)
Rondonia	67	29	22	(76%)	0	(0%)	0	(0%)	39	(58%)
Roraima	12	0	0	(0%)	0	(0%)	0	(0%)	12	(100%)
Santa Catarina	537	380	139	(37%)	70	(13%)	46	(9%)	31	(6%)
São Paulo	2757	1780	656	(37%)	84	(3%)	466	(17%)	709	(26%)
Sergipe	117	34	22	(65%)	23	(20%)	1	(1%)	64	(55%)
Tocatins	22	4	3	(75%)	1	(5%)	0	(0%)	18	(82%)

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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
Brazil	1717	1221	1037	1494	407	51	39	137	718	738	924	331	1076	85	303	1474
Percent	58%	42%	35%	51%	14%	2%	1%	5%	24%	25%	31%	11%	37%	3%	10%	50%
Acre	4	1	2	3	0	0	0	0	2	2	1	0	3	0	0	2
Alagoas	2	3	2	2	1	1	0	1	1	2	0	0	4	0	0	1
Amapa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amazonas	9	13	10	9	3	0	2	3	8	3	6	0	6	0	1	15
Bahia	64	43	30	58	19	2	3	5	30	31	28	8	29	3	15	60
Ceará	142	80	109	103	10	6	4	20	59	54	54	25	77	4	19	122
Distrito Federal	48	27	30	35	10	1	1	8	26	27	11	1	21	2	10	42
Espírito Santo	23	22	16	18	11	1	1	4	7	14	18	0	20	1	6	18
Goiás	31	15	19	19	8	1	0	1	17	10	13	4	18	0	3	25
Maranhão	10	6	6	6	4	0	0	1	4	5	6	0	4	1	0	11
Mato Grosso	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mato Grosso do Sul	17	10	8	0	19	0	0	1	8	5	11	2	10	0	4	13
Minas Gerais	101	116	85	113	19	8	3	5	59	58	75	9	86	7	15	109
Pará	25	4	23	1	5	1	1	3	14	6	3	1	8	0	1	20
Paraíba	7	4	6	2	3	0	1	1	2	3	4	0	5	0	2	4
Paraná *	184	118	90	113	99	7	1	10	50	69	98	67	114	8	35	145
Pernambuco	91	49	61	62	17	3	3	10	46	44	30	4	55	4	20	61
Piauí	10	4	6	7	1	1	0	0	5	3	5	0	6	0	2	6
Rio de Janeiro	137	89	77	114	35	3	1	11	53	44	73	41	84	9	22	111
Rio Grande do Norte	25	14	14	18	7	1	2	1	15	5	10	5	17	0	8	14
Rio Grande do Sul	165	119	89	165	30	1	5	9	68	46	103	52	117	16	16	135
Rondonia	5	1	3	2	1	1	0	0	3	0	2	0	2	0	1	3
Roraima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Catarina	155	96	89	139	23	4	5	11	48	63	82	38	98	5	29	119
São Paulo	457	385	257	504	81	9	6	32	190	240	291	74	286	25	94	437
Sergipe	5	2	5	1	1	0	0	0	3	4	0	0	6	0	0	1
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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National and State Procurement and Coordination Transplant organization

Sistema Nacional de Transplantes (SNT)
Rosana Nothen
Fone: (61) 3315-9212 e-mail: snt@saude.gov.br

Central Nacional de Transplantes (CNT)
Fernanda Bordalo / Edilamar Rodrigues
Fone(61) 3315-6299 / 6294 e-mail: cnncdo@saude.gov.br

Acre
Regiane Clélia Ferrari
Fone/Fax: (68) 3227-6399 / (68) 99985-2061
E-Mail: cncdoacre@ac.gov.br e cncdoacre@gmail.com

OPO Acre
Rosely Barreiros Matheus da Cruz
Fone: (68) 3223-3080
E-mail: opoacre@gmail.com

Alagoas
Carmen Alice de A. Dantas
Fone/Fax: (82) 3376-8186 / (82) 3315-7440
E-Mail: doevida@saude.al.gov.br

OPO HGE
Drº Osvaldo Brandão Vielela
Fone: (82) 3315-7440
E-mail: opoalagoas@gmail.com

Amapá
Eduardo Monteiro Cardoso
Fone: (96) 99177-9328 / 98110-0536
E-Mail: cncdo@saude.ap.gov.br

Amazonas
Leny Nascimento da Motta Passos
Fone/ Fax: (92) 3664-2616 / (92) 98802-6801
E-Mail: cncdo.am@saude.gov.br

OPO AM
Helen Cristine Albuquerque Figueiredo
Fone: (92) 3249-9410
E-mail: opoalpha@saude.am.gov.br

Bahia
Coordenação Estadual de Transplantes
Rita de Cassia Martins Pinto Pedrosa
Email: sesab.transplante@saude.ba.gov.br

Central de Notificação Captação e Doação de òrgãos - CNCDO
América Carolina Melo Sodré
Fone: (71) 3356-6776 / 3117-0130 / 99956-0527
E-Mail: transplantes.ba@gmail.com

OPO-HGE
Ricardo Gouveia
Fone:(71) 3117-5838
E-Mail: gadhgebahia@hotmail.com

OPO-HGRS
Barbara Kraychet
Fone:(71) 3387-4572

OPO HOSPITAL GERAL ERNESTO SIMÕES FILHO
América Carolina Melo Sodré
Fone: (71) 3117-1730 / 1785

OPO EXTREMO SUL
Michel Auad
Fone: (73) 3112-2867
E-Mail:: gadextremosul@gmail.com

OPO-FEIRA DE SANTANA
Andre Guimarães
Fone:(75) 3602-3300 / (75) 3602-3333
E-Mail: hgca.opo@saude.ba.gov.br

OPO SUL (Ilheus/ITABUNA)
Dr. Paulo Bicalio
Fone:(73) 3214-1600 / (73)2102-5107

OPO-VITÓRIA DA CONQUISTA
Dra Edney Matos
Fone:(77) 3427-4584

Ceará
Dra. Eliana Régia Barbosa de Almeida
Fone: (85) 3252-1886 / 3101-5238
E-Mail: cncdo@saude.ce.gov.br

OPO - IJF
Lisiane Furtado Paiva
Fone: (85) 3255-5155

OPO - HGF
Marcia Maria Vitorino Sampaio Passos
Fone: (85) 3265.6276

OPO - SOBRAL
Luiz Derwal Salles Júnior
Fone: (88) 3112-0418 / 0400

OPO - CARIRI
Gustavo Martins dos Santos
Fone: (88) 3566-3614

Distrito Federal
Dra. Daniela Ferreira Salomão
Fone: (61) 3315-1664
E-Mail: centraldetransplantedf@gmail.com

OPO DF
Viviane Marçal da Silva
Fone: (61) 3315-1677
E-mail: opodistritofederal@gmail.com

Espírito Santo
Raquel Duarte Corrêa Matiello
Fone: (27) 3347-5624
E-Mail: cncdo@saude.es.gov.br

Goiás
Fernando Castro
Fone/Fax: (62) 3201-6720 / 3201-6721 / 3201-6722 / 99614-7990
E-Mail: transplantesgo@saude.gov.br

Maranhão
Dra. Maria Inês Gomes de Oliveira
Fone: (98) 2109-1276 / 2109-1212
E-Mail: ctx@huufma.br

Mato Grosso
Fabiana Regina de Souza Molina
Fone: (65) 3324-0747 / 3623-9004 / 3623-9188 Fax: (65) 3623-9004
E-Mail: contran@ses.mt.gov.br

Mato Grosso do Sul
Claire Carmem Miozzo
Fone: (67) 3312-1456 / 3321-8877 / 3312-1400
E-Mail: cet@saude.ms.gov.br

National and State Coordination Transplant

OPO de Mato Grosso do Sul
Virgílio Gonçalves de Souza Junior
Fone: (67) 3378-2564
E-Mail: opo.hrms@funsau.ms.gov.br

Minas Gerais
Omar Lopes Cançado Jr.
Fone: (31) 3219-9200 / 0800 2837 183
E-Mail: mgtransplantes@saude.mg.gov.br

CNCDO Metropolitano - Belo Horizonte
Silvia Zenóbio Nascimento
Fone: (31) 3219 9200 / (31) 3219 9211
E-Mail: mgtransplantes@saude.mg.gov.br

CNCDO Leste - Governador Valadares
Fone: (33) 3271 1909 / 99954-1569 (plantão)
E-Mail: mgtx.gva@saude.mg.gov.br

CNCDO Oeste - Uberlândia
Fone/Fax: (34) 3214-4908 / 3214-4173 / 3229-7694
E-Mail: cncdooeste@saude.mg.gov.br

CNCDO Sul - Pouso Alegre
José Renato Melo
Fone/Fax: (35) 3422-0334 / 2345 R. 277
E-Mail: cncdosul@yahoo.com.br

CNCDO Norte/Nordeste - Montes Claros
Noasses Neiva Diamantino
Fone: (38) 3213-3676
E-Mail: cncdonone@ig.com.br

CNCDO Zona da Mata - Juiz de Fora
Dr. Joseph Fredric Whitaker
Fone: (32) 3229-2392
E-Mail: mgtxjf@hotmail.com

Pará
Dra. Ana Cristina Simões Beltrão
Fone/Fax: (91) 3244-9692 / 3223-8168
E-Mail: cncdo.transplantes@gmail.com

OPO TAPAJÓS
Antonio Carlos Alves da Silva
Fone:(93)2101-0700 - Ramal 718
E-Mail:

Paraíba
Dra. Gyanna Lys de Melo Moreira Montenegro
Fone/Fax: (83) 3244-6192 / 3225-6409 / 98845-3516
E-Mail: transplante@gmail.com

Paraná
Dra. Arlene Terezinha Cagol Garcia Badoch
Fone/Fax: (41) 3304-1900/ 1909
E-Mail: sesatran@sesa.pr.gov.br

OPO - Cascavel
Rosimeri Lima Tome
Fone: (45) 3321-5505 / 5506
E-Mail: opocascavel@sesa.pr.gov.br

OPO - Londrina
Ogle Beatriz Bacchi de Souza
Fone: (43) 3379-6078
E-Mail: opolondrina@sesa.pr.gov.br

OPO - Maringá
Gislaine Fusco Duarte
Fone/Fax: (44) 3227-3274 / 3249
E-Mail: opomaringa@sesa.pr.gov.br

Pernambuco
Noemy Gomes
Fone: (81) 3181-6207 / 6206
E-Mail: transplantespe@saude.gov.br

Instituto de Medicina Integral de Pernambuco - IMIP
Petrus Moura de Andrade Lima
Fone:(81) 2122-4110 / 98652-9134

Real Hospital Português De Beneficência Em Pernambuco
André Bezerra Pereira do Rêgo
Fone:(81) 3416-1878 / 99976-0147

Casa de Saúde Santa Efigênia
Albiégio Carlos Tavares
Fone:(81) 99927-6594

Hospital Dom Malam
Tatiana Cerqueira da Cunha Cavalcanti
Fone:(87) 3202-7000 / 98835-2136

Piauí
Dra. Maria de Lourdes de Freitas Veras
Fone/Fax: (86) 3221-7553 /3216-3553
E-Mail: cncdopi@saude.pi.gov.br

OPO HGV-PI
Ricardo Cronemberger Mangueira
Fone:(86) 3221-8109 / 99929-3397
E-mail: opo.hgv@hotmail.com

Rio de Janeiro
Rodrigo Alves Sarlo
Fone: (21) 2333-7535 / 7543 / 7550 / 7544 / 7545 / 7548 / 7552
E-Mail: transplantes@saude.rj.gov.br

OPO RJ - OPO SUL
Onofre Barros
Fone: (21)9602-7700 / 7575
onofrebarros@yahoo.com.br

OPO RJ – OPO NORTE
Graziela Denardin Lückemeyer
Fone: (21) 2238-0981 / 2571-6242
opo.hsfa@alsf.org.br

OPO RJ – OPO ITAPERUNA
Agostinho Boechat Neto
Fone: (22) 3824-9200 - Ramal 9334
opo@hjsa.com.br

OPO RJ – OPO BARRA MANSA
Gilvando Dias de Sousa Filho
Fone: (24) 3325-8300 Ramal 8418
opo.barramansa@scbm.org.br

Rio Grande do Norte
Raissa Medeiros Marques
Fone: (84) 3209-5326
E-Mail: cncdo@rn.gov.br

List of National and State Coordination Transplant

Rio Grande do Sul
Dr. Cristiano Augusto Franke
Fone/Fax: (51) 3353-3030
E-Mail: centraldetransplantes@saude.rs.gov.br

OPO I ISCMPA
Dra. Fernanda Bonow
Fone/Fax: (51) 3213-7320 / 7325
E-Mail: febonow@gmail.com

OPO II PUC
Dr. Mauricio Schuck
Fone/Fax: (51) 3320-3261
E-Mail: opo2@pucrs.br

OPO III POMPÉIA
Dr. Thiago Passarin
Fone/Fax: (54) 3220-8023 / 98422-9491
E-Mail: opo3@pompeia.org.br

OPO IV SÃO VICENTE PAULO
Dr. Cassiano Crusius
Fone/Fax: (54) 3316-4000 / (54) 3316-8374
E-Mail: opo4@hsvp.com.br

OPO V STA CASA RIO GRANDE
Dr. Newton Primo
Fone/Fax: (53) 3233-7100 / (53) 3233-7188
E-Mail: opo@santacasarg.com.br

OPO VI BRUNO BORN
Dr. Fábio Bonfin Fraga
Fone/Fax: (51) 3714-7500
E-Mail: opo6@hbb.com.br

OPO VII / CENTRAL DE PERFUSÃO HIPOTÉRMICA - INSTITUTO CARDIOLOGIA
Dr. Edison Moraes Rodrigues Filho
Fone:- (51) 3230-3684/ 98585-0934
E-Mail: opocirurgica@gmail.com

Rondônia
Suely Araújo Lima
Fone: (69) 3216-5738 / 3216-5747
E-Mail: gcetro@gmail.com

Roraima
Dr. Douglas Henrique Teixeira
Fone: (95) 3624-4049
E-Mail: transplantesrr@gmail.com

Santa Catarina
Dr. Joel de Andrade
Fone: (48) 3664-7290 / 3664-7298 / 0800-6437474
E-Mail: getra@saude.sc.gov.br / cncdoinfo@saude.sc.gov.br

Sergipe
Benito Oliveira Fernandez
Fone: (79) 3259-2899 / 3216-2870
E-Mail: transplante@saude.se.gov.br

Hospital de Urgência de Sergipe
Yhokenn Karlo Nunes Beserra
Tel.: (79) 3216-2837
Email: opo@fhs.saude.se.gov.br

São Paulo

Sistema Estadual de Transplantes
Dr. Agenor Spallini Ferraz
Fone: (11) 3066-8845 / 3066 8403 / 3064-1649 / 3088-5094
E-Mail: ctrans@saude.sp.gov.br / cncdosp-plantao@saude.sp.gov.br

OPO / HC - Hospital das Clínicas da Faculdade de Medicina da USP
Dr. Leonardo Borges de Barros e Silva
Fone/Fax: (11) 2661-8004 / 2661-6543
E-Mail: spot.ichc@hc.fm.usp.br

OPO / Santa Casa de São Paulo
Dr. Reginaldo Carlos Boni
Fone: (11) 2176-7185/7391/5185
E-Mail: opo@santacasasp.org.br

OPO / Dante Pazzanese
Dr. André Feldman
Fone: (11) 3554-1405
E-Mail: opo@idpc.org.br

OPO - EPM - Hospital São Paulo da Escola Paulista de Medicina da UNIFESP
Suelen B. Stopa Martins
Fone/Fax: (11) 5572-8749 / 5081-2183
E-Mail: opoepm@hrim.com.br

Central de Transplantes Regional
Fone/Fax: (16) 3607-4262 / 4261
E-mail: centralregional@saude.sp.gov.br

OPO / Hospital das Clínicas da UNICAMP
Dr. Luis Antonio Costa Sardinha
Fone: (19) 3521-8000
E-Mail: captacao@hc.unicamp.br

OPO / Hospital Universitário de São José do Rio Preto
Dr. João Fernando Picollo de Oliveira
Fone: (17) 3227-7030
E-Mail: captacaodeorgaos@hospitaldebase.com.br

OPO - Hospital das Clínicas de Botucatu
Dr. Laércio Martins de Stefano
Fone: (14) 3811-6386 / 3813-3344
E-Mail: opobotucatu@hcfmb.unesp.br

OPO - Santa Casa de Itu
Dr. Jorge Luiz Arcêncio
Fone: (11) 4013-8013 / 99489-5060
E-Mail: ituopo@gmail.com

OPO - Hospital das Clínicas de Ribeirão Preto
Dr. Jeová Nina Rocha
Fone: (16) 3602-2777
E-Mail: oporibeirao@yahoo.com.br

OPO - Hospital das Clínicas de Marília
Dr. Paulo Roberto Teixeira Michelone
Fone: (14) 3402-1748 / 1744 R: 1005
E-Mail: spotmarilia@famema.br

Tocantins
Donilda Moreira Rodrigues
Fone: (63) 98107-3855 / 3218-3230
E-Mail: transplantesto@yahoo.com.br

Associação Brasileira de Transplante de Órgãos

Associação Brazileira de Organ Transplantation
Av. Paulista, 2001 - 17º andar - cj. 1704 / 1707
São Paulo - SP
CEP 01311-030
Fone 11 3283-1753 / 3262-3353
E-mail: abto@abto.org.br

www.abto.org.br