

# RBT

Brazilian Transplantation Registry  
Official report of Brazilian Organ Transplantation Society

XVII YEAR Nº 4



**Associação Brasileira de Transplante de Órgãos**

Organ procurement and transplantation 2011 data report

**JANUARY / DECEMBER - 2011**

# RBT

Brazilian Transplantation Registry

Official report of Brazilian Organ Transplantation Society



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

# TRANSPLANTATIONS 2011

This issue of the Brazilian Transplantation Registry confirms the steady annual increase in the overall number of solid organ transplants observed since 2006. From 2001 to 2011 the accumulated increase reached 73%. This growth was predominantly observed in kidney (n=4939, 25.9 transplants p.m.p.) and liver (n=1496, 7.8 transplants p.m.p) and was primarily due to government funded investments in organ procurement, which has increased substantially during the last 5 years. This is confirmed by the progressive increase in the number of transplants with deceased donor organs, a trend that contrasts with the world scenario where strategies are under development to increase the number of transplants with living donors.

We thank and acknowledge all the transplant centers for their voluntary contribution to this registry reminding that updates have to be done according to the schedule shown in page 5.

Ten-year data for each organ (kidney, liver, heart, pancreas, lung, bone marrow and other tissues) are shown in absolute number, corrected by population and stratified by state, including cumulative patient and graft survivals.

At the end of this report you will find a list of transplant centers with their respective performances in each state. Finally, contact information of all transplant coordination units throughout the country is also provided. This report, which was released during the conference with the Ministry of Health in February 2<sup>nd</sup>, 2012, is available at the Brazilian Organ Transplantation Society website ([www.abto.org.br](http://www.abto.org.br)). During this conference the importance and relevance of the national program and measures to increase funding and reduce regional discrepancies in performance were discussed. It was recognized the need to adjust the current reimbursements for hospital readmissions to treat posttransplant complications.

Other items discussed in the conference:

1. While the national donation rate in Brazil reached 11 donors p.m.p., the state of Santa Catarina reached 25 effective donors p.m.p., which is the best result ever achieved by a Brazilian state. This result was a consequence of the involvement and the fomentation of local public sectors, including the state government, to reduce obstacles in the logistic process of organ donation. Besides, harmonious relationship between this multidisciplinary team and a high committed and motivated coordination, as exemplified by Dr. Joel de Andrade (Transplant Coordination of the state of Santa Catarina). Similar growth was also observed in the states of Paraíba and Rio Grande do Norte.

2. The profile of the deceased donor has been changing over the last 10 years. The mean age increased to over 40 years and the main cause of death is now cerebrovascular accident.

3. The number of kidney and liver transplants increased more than 5% compared to 2010 while the number of heart, pancreas and lung transplants remained stable. The geographic disparities are well exemplified by the kidney transplantation performance. While three states perform more than 40 transplants p.m.p. other 8 states perform less than 10 transplants p.m.p.

4. Tissue transplantation is also growing. More than 23,000 bone tissue transplants, provided by 5 banks in São Paulo, Paraná and Rio de Janeiro, were performed in 2011. Skin transplants were performed in 21 patients. Also, more than 14,000 corneal transplants were performed reducing drastically or even abolishing wait lists in some states, as recently reported in Rio Grande do Norte. Only state of Rondonia, Roraima, Amapá and Tocantins did not perform any corneal transplant in 2011.

The challenges ahead are enormous but our enthusiasm surpasses it!

Diretors and Advisory Council

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## Number of Solid Organ and Tissues Transplants during 2011

<b>Organ</b>					
<b>Organ</b>	<b>Living Donor</b>	<b>Deceased Donor</b>	<b>Total</b>	<b>PMP</b>	<b>Nº of transplant team</b>
heart	0	160	160	0.8	27
liver	104	1,388	1,492	7.8	57
intestine	0	0	0	0.0	0
Pancreas / Kidney	0	129	129	0.7	26
pancreas alone	0	52	52	0.3	
lung	1	48	49	0.3	6
kidney	1,643	3,314	4,957	26.0	126
<b>Total</b>	<b>1,748</b>	<b>5,091</b>	<b>6,839</b>	<b>----</b>	<b>242</b>

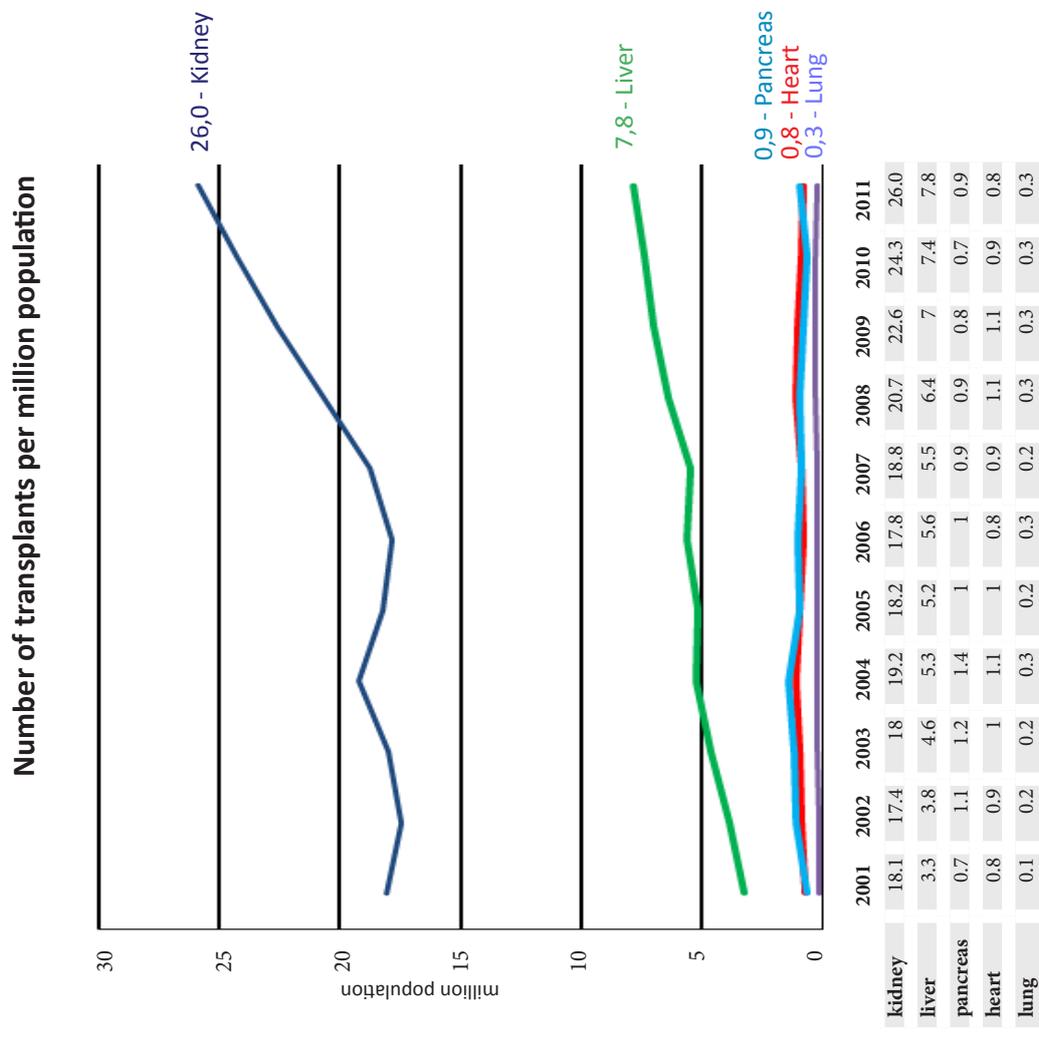
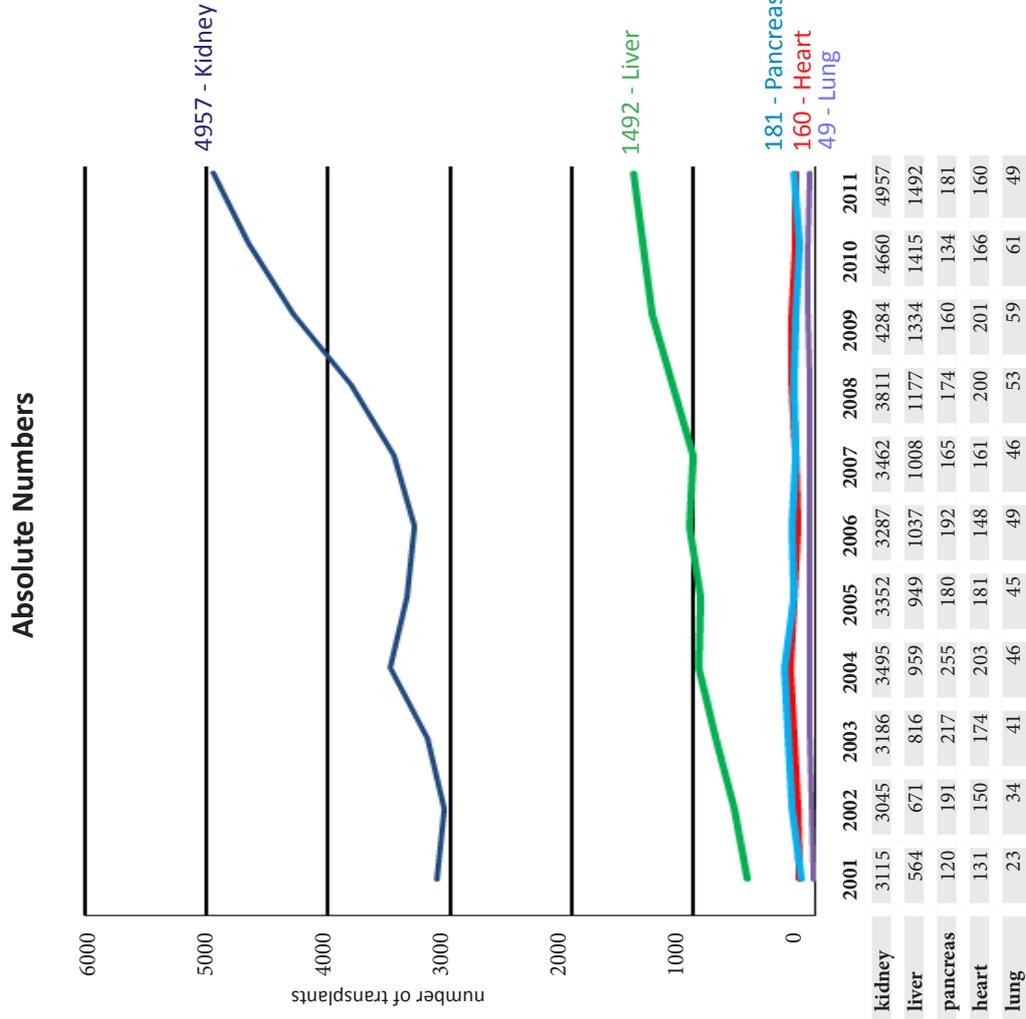
<b>Tissue</b>			
<b>Tissue</b>	<b>Total</b>	<b>PMP</b>	<b>Nº of transplant team</b>
cornea	14,696	77.0	186
bone	23,815	124.8	5 Bancos
skin	21	0.1	10
<b>total</b>	<b>38,532</b>	<b>---</b>	<b>---</b>

<b>Bone Marrow</b>					
<b>Cells</b>	<b>Autologous</b>	<b>Allogeneic</b>	<b>Total</b>	<b>PMP</b>	<b>Nº of transplant team</b>
Bone Marrow	1,029	708	1,737	9.1	46

### Schedule for data collection to the Brazilian Transplantation Registry during 2012

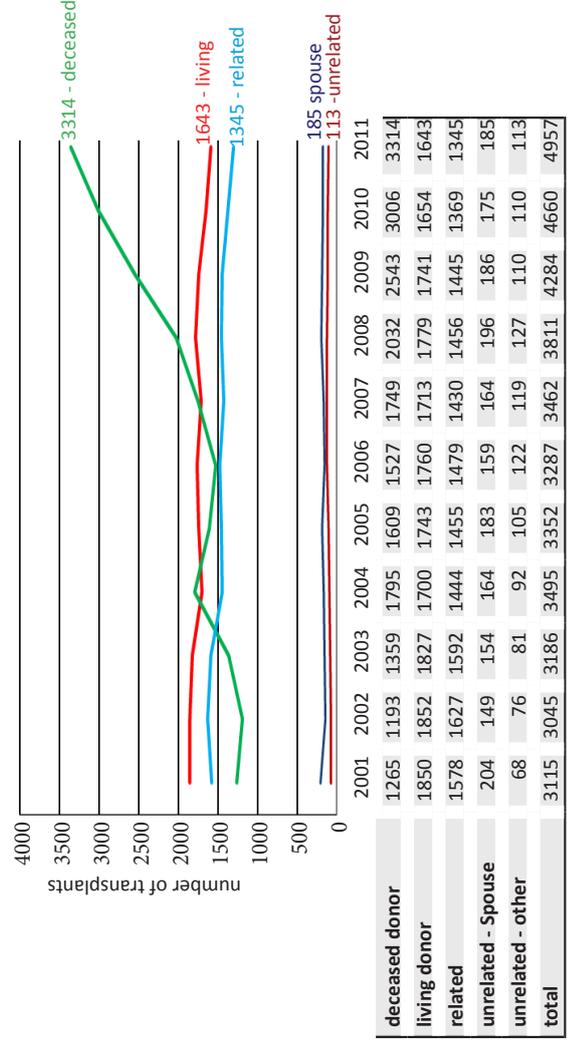
<b>deadline</b>	<b>Period</b>	<b>deadline</b>	<b>Period</b>
02/08/2012	January	5/9/12	April
03/09/2012	February	6/8/12	May
04/09/2012	March	7/9/12	June
<b>27/04/2012</b>	<b>RBT 1st quarter 2012 (Digital)</b>	<b>7/27/12</b>	<b>RBT 1st Semester 2012 (Digital)</b>
<b>deadline</b>	<b>Period</b>	<b>deadline</b>	<b>Period</b>
8/8/12	July	11/7/12	October
9/10/12	August	12/10/12	November
10/8/12	September	1/9/13	December
<b>10/26/12</b>	<b>RBT 3rd quarter 2012 (Digital)</b>	<b>1/28/13</b>	<b>RBT Annual 2012 (Digital and printed)</b>

# Organ: Annual number of transplants in Brazil between 2001 and 2011

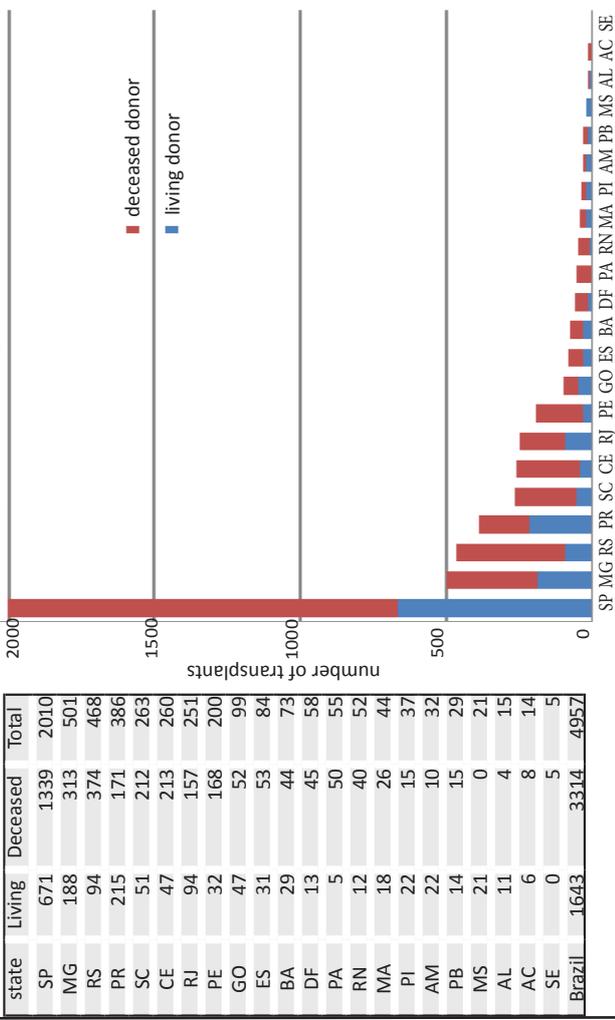


# Kidney: Annual number of transplants between 2001 and 2011

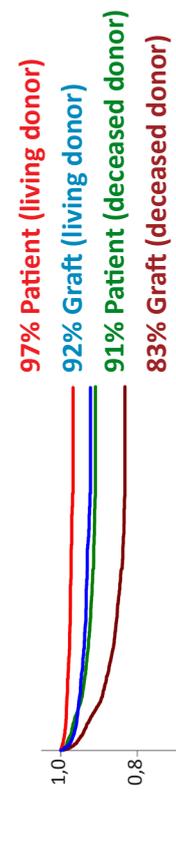
Annual Number of Transplants by donor type



Number of transplants by state during year 2011



Cumulative Survival: Registry started in 2010-01-01



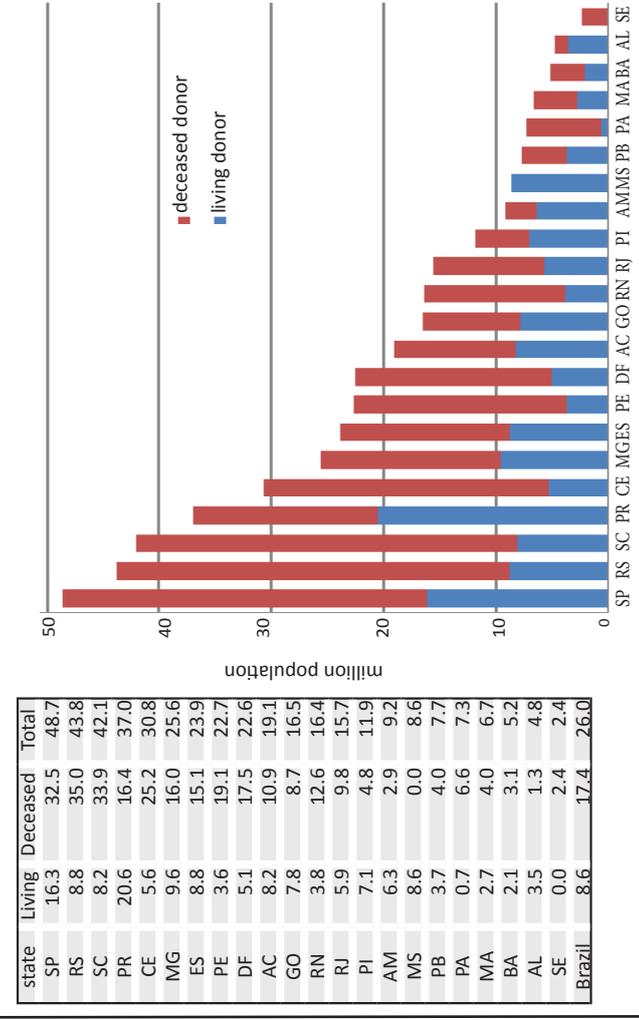
	Actives	Reported 100%
Nº of transplant Team	147	82 (56%)
Nº of Transplants	9617	7753 (81%)

Donors:  
 2612 (34%) - living  
 5141 (66%) - deceased



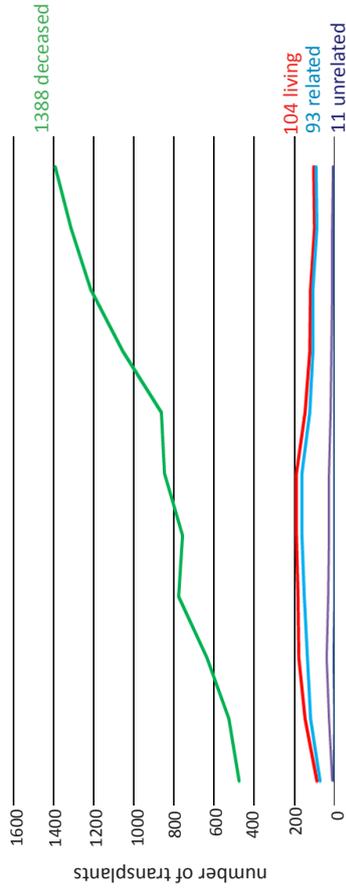
Cumulative survival include data from transplant teams that reported 100% of transplants during the period

Number of transplants per million population by state during year 2011

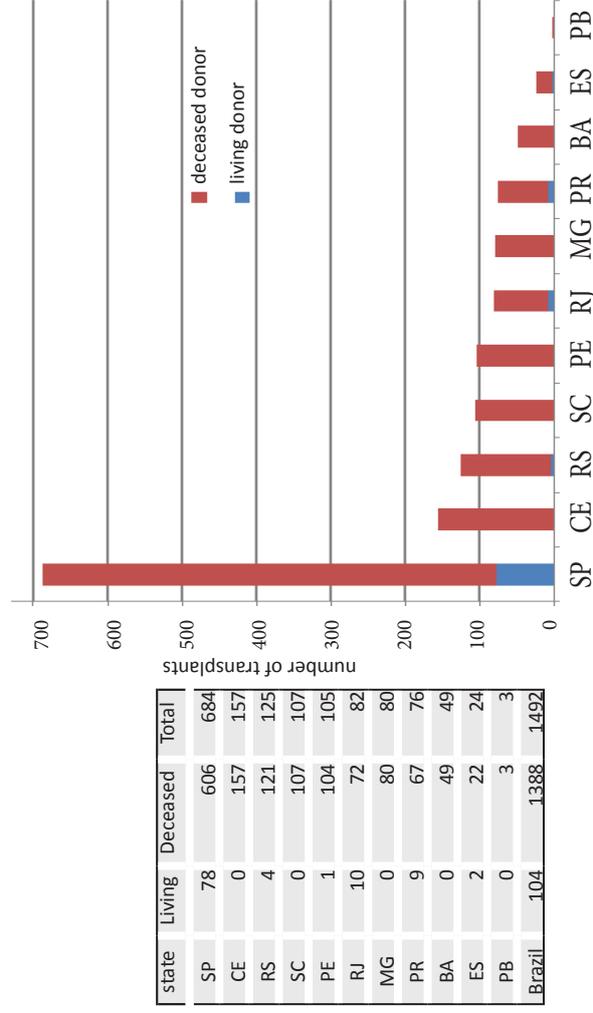


# Liver: Annual number of transplants between 2001 and 2011

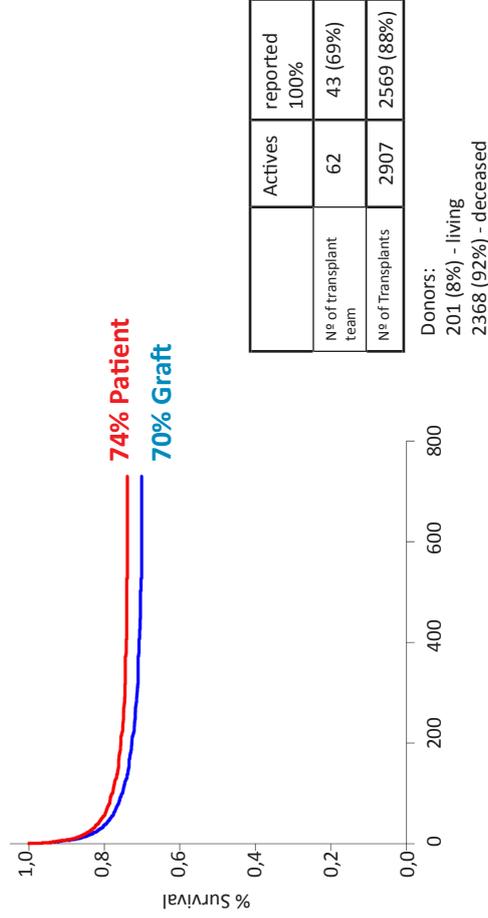
Annual Number of Transplants by donor type



Number of transplants by state during year 2011



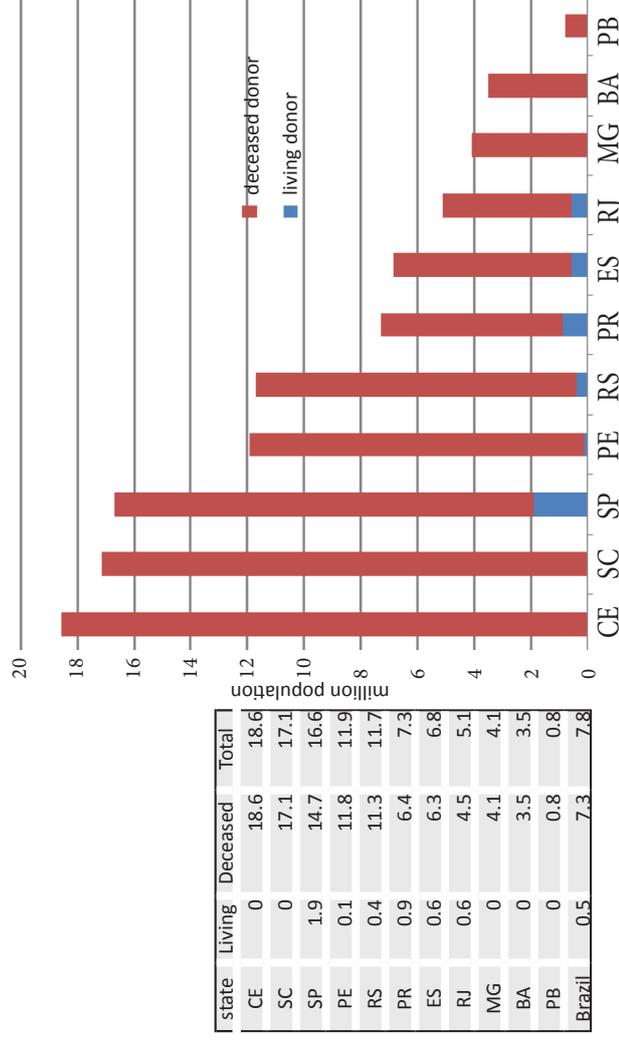
Cumulative Survival: Registry started in 2010-01-01



Cumulative survival include data from transplant teams that reported 100% of transplants during the period

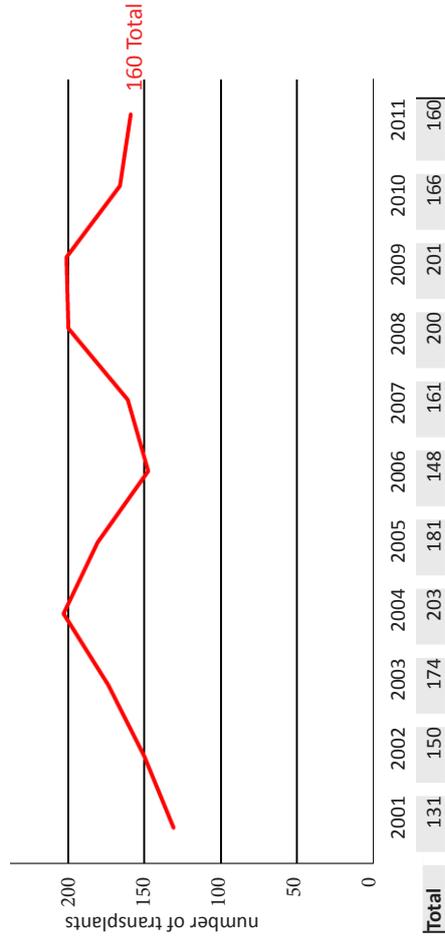


Number of transplants per million population by state during year 2011

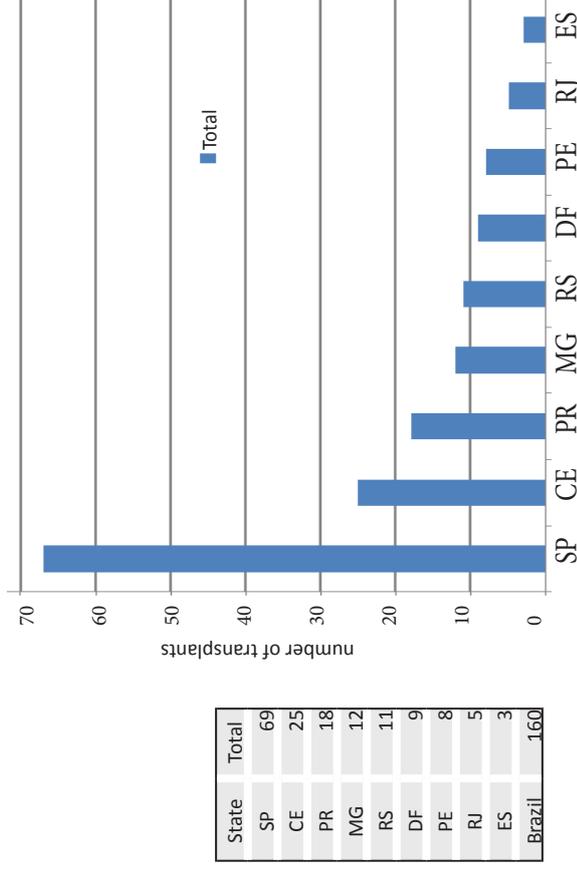


# Heart: Annual number of transplants between 2001 and 2011

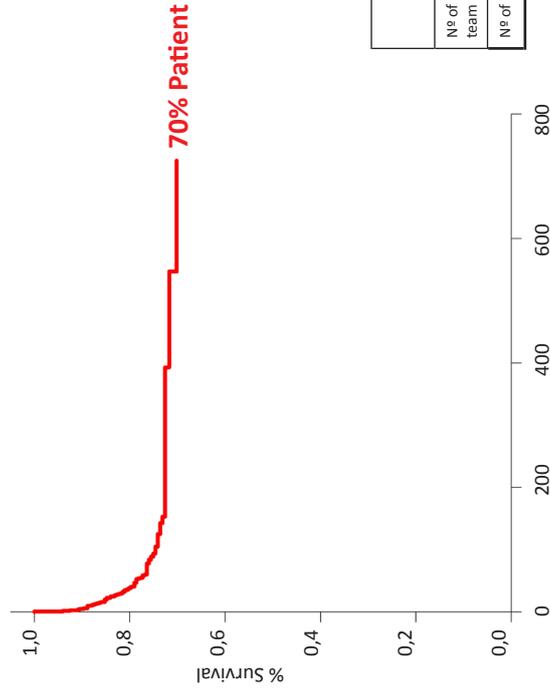
Annual Number of transplants



Number of transplants by state during year 2011



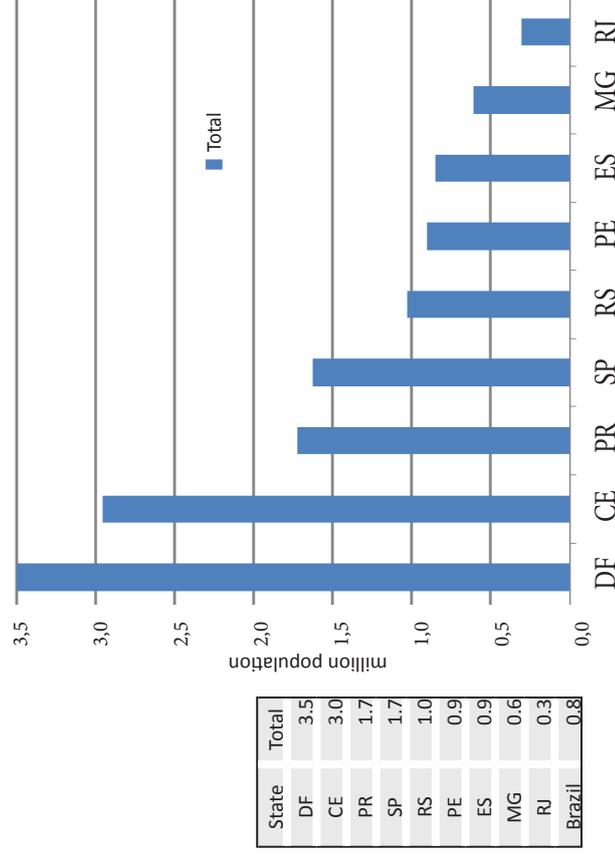
## Cumulative Survival: Registry started in 2010-01-01



Cumulative survival include data from transplant teams that reported 100% of transplants during the period

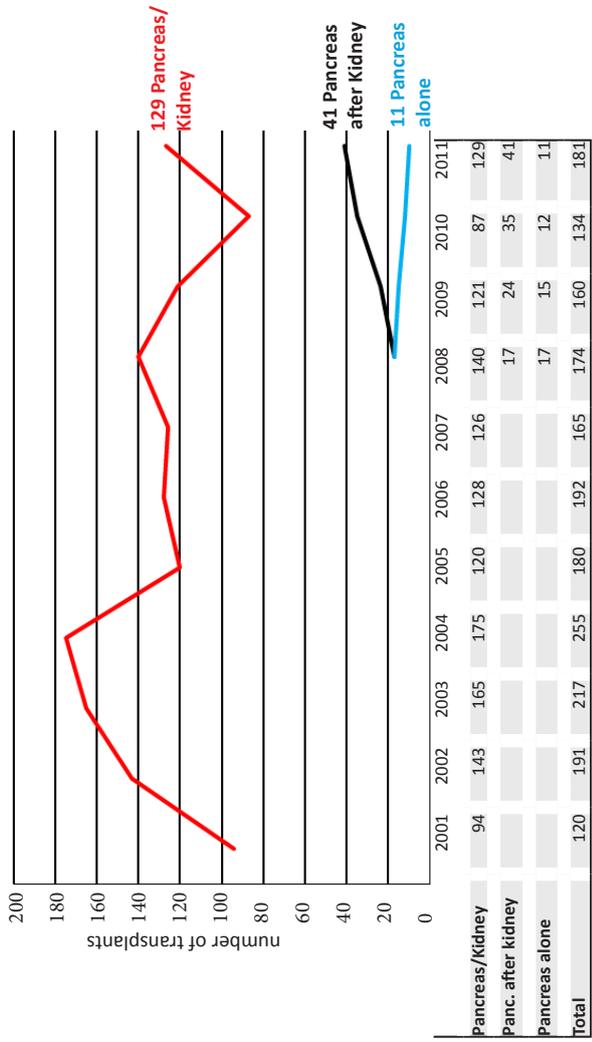


## Number of transplants per million population by state during year 2011



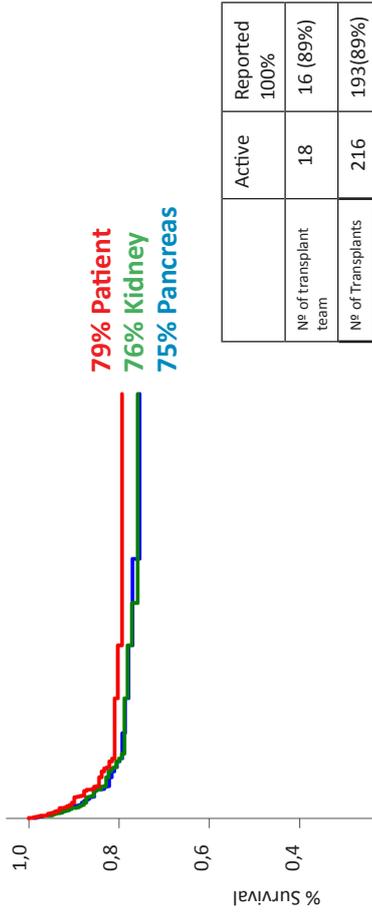
# Pancreas: Annual number of transplants between 2001 and 2011

Annual Number of transplants



Miss information about 360 transplants between 2001 and 2007.

## Cumulative Survival: Registry started in 2010-01-01 Pancreas/Kidney

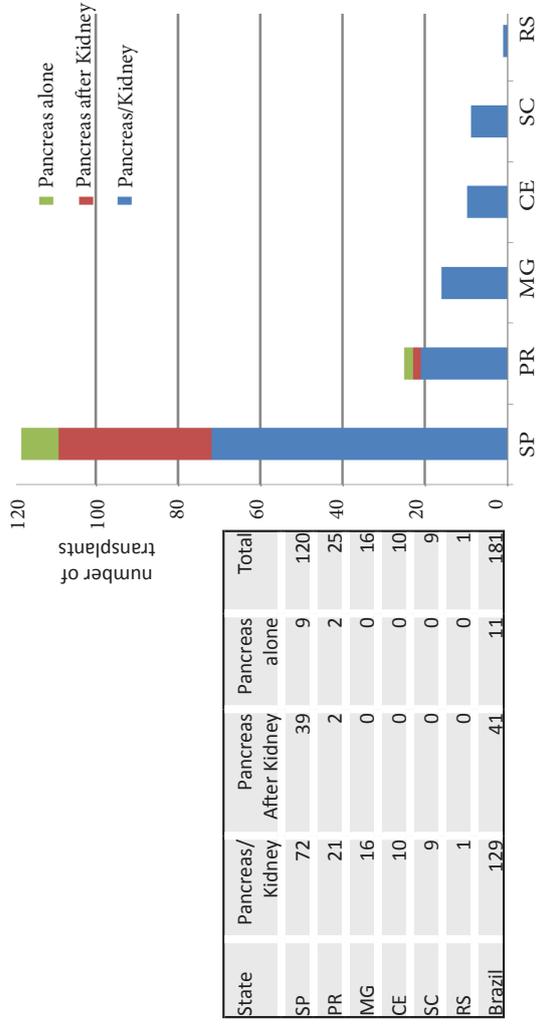


Cumulative survival include data from transplant teams that reported 100% of transplants during the period

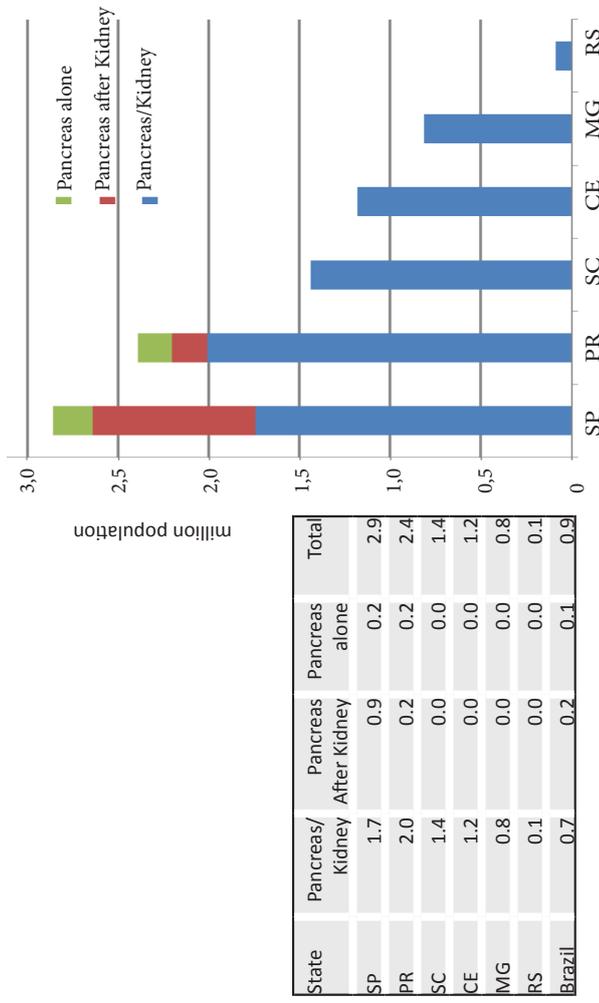
Isolated Pancreas: Patient Survival 85% Graft Survival 65% (23 transplants reported by 4 transplant teams)  
Pancreas após rim: Sobrevida Paciente- 97% Sobrevida Enxerto 90% (74 transplants reported by 9 transplantteams)  
Corresponding Graphs are available at home-page [www.abto.org.br](http://www.abto.org.br)



Number of transplants by state during year 2011

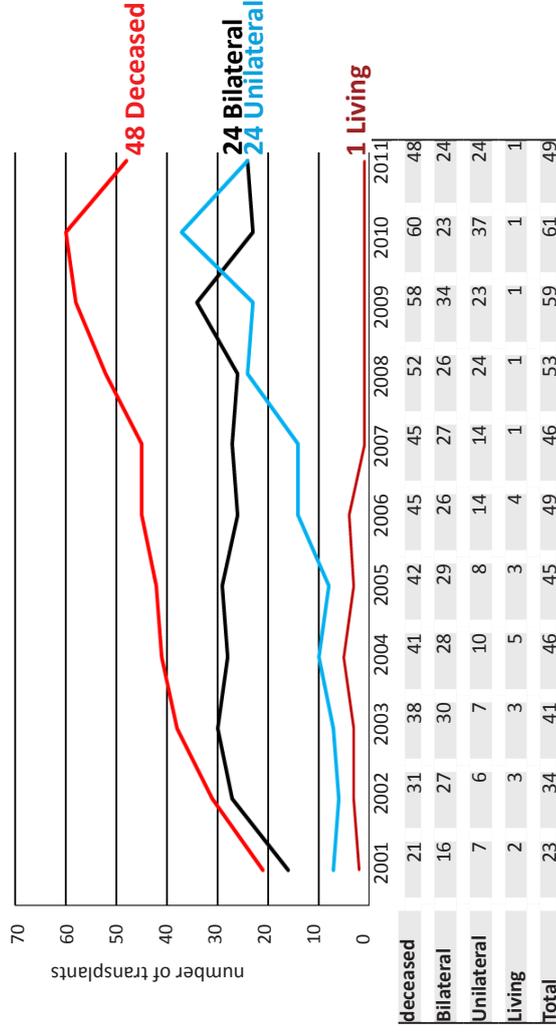


Transplants number per million population by state during year 2011

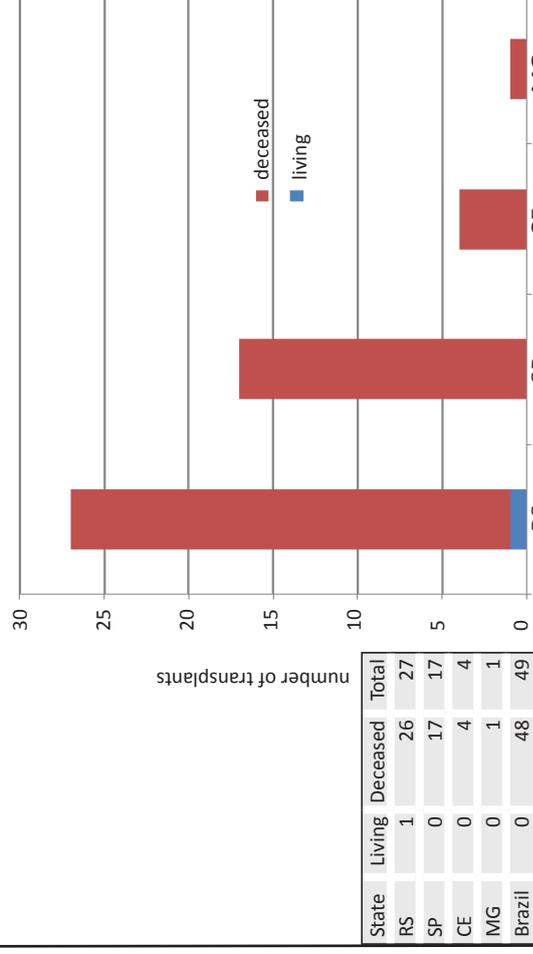


# Lung: Annual number of transplants between 2001 and 2011

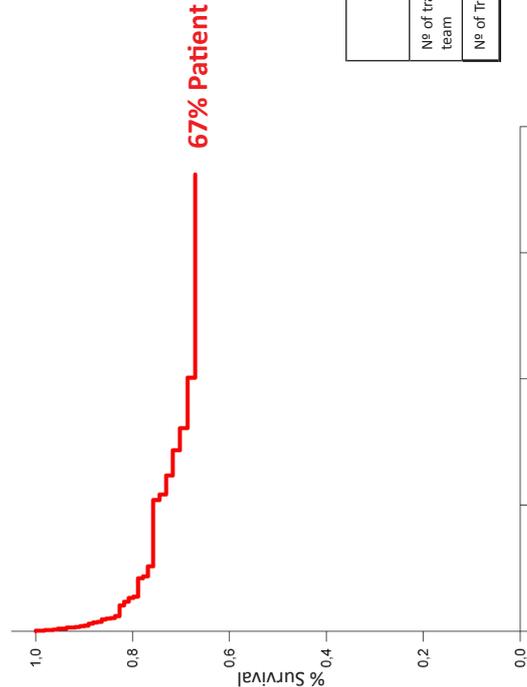
Annual Number of transplants



Number of transplants by state during year 2011



Cumulative Survival: Registry started in 2010-01-01

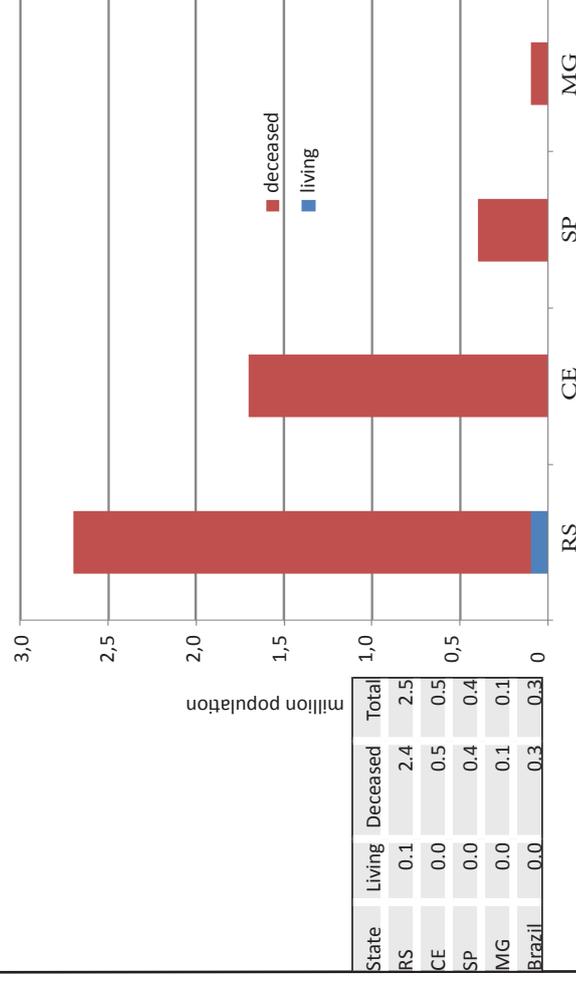


	Active	Reported 100%
Nº of transplant team	6	6 (100%)
Nº of Transplants	110	110(100%)



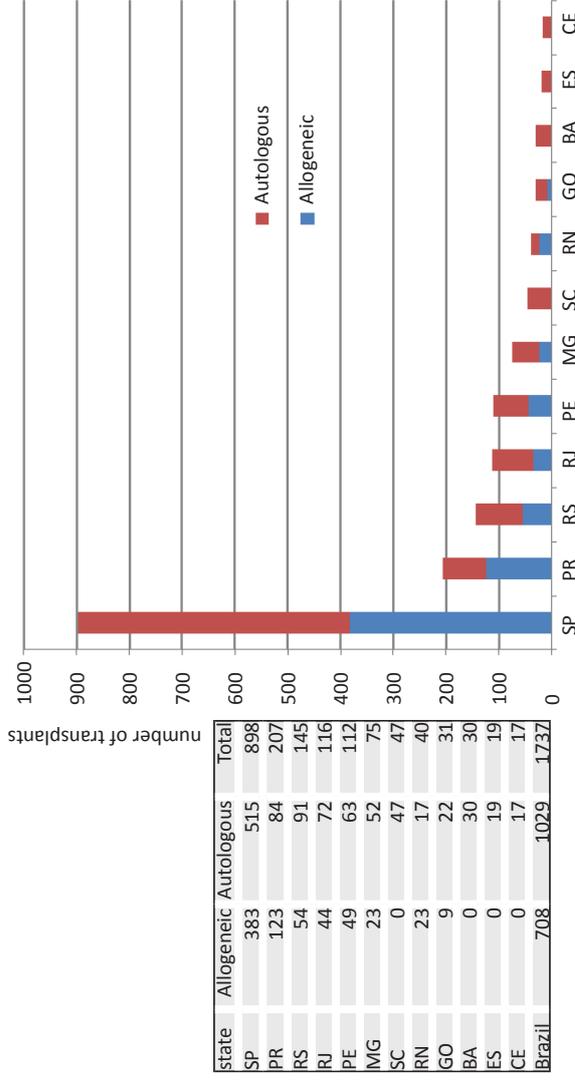
Cumulative survival include data from transplant teams that reported 100% of transplants during the period

Number of transplants per million population by state during year 2011



# Bone Marrow and Tissue: Annual number of transplants between 2001 and 2011

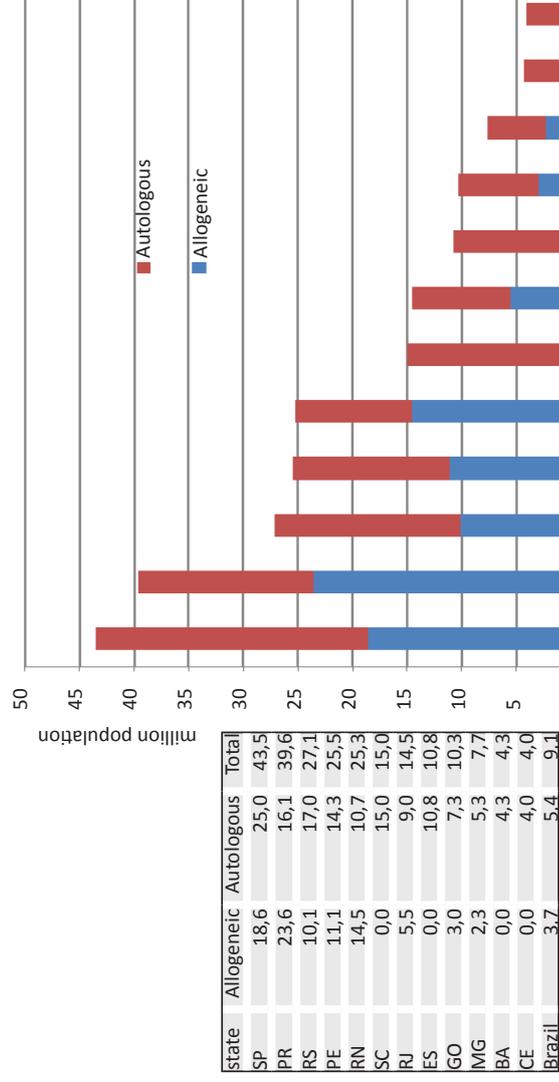
## Number of Bone Marrow transplants by state during the year 2011



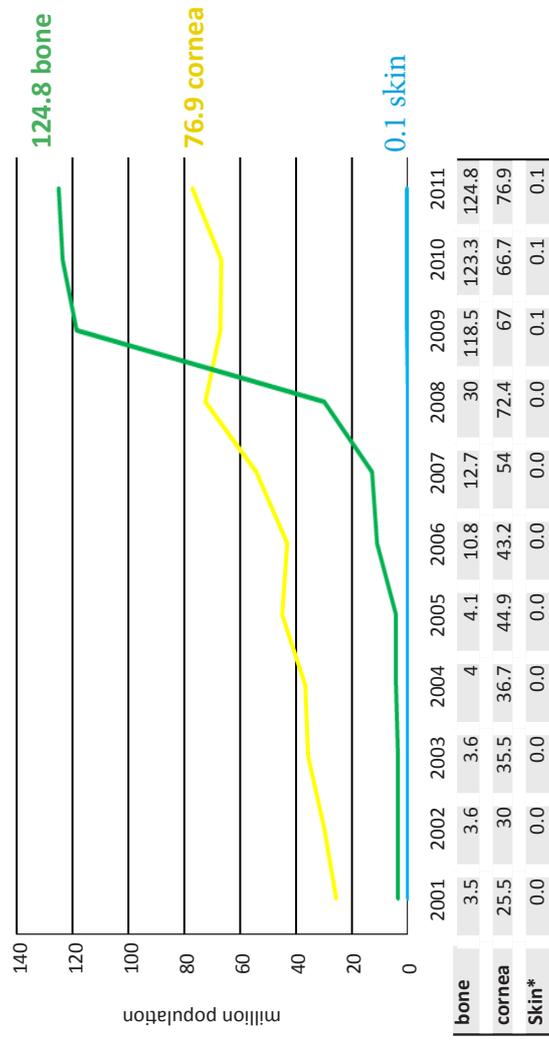
## Annual number of tissue transplants



## Number of Bone Marrow Transplants per million population by state during year 2011

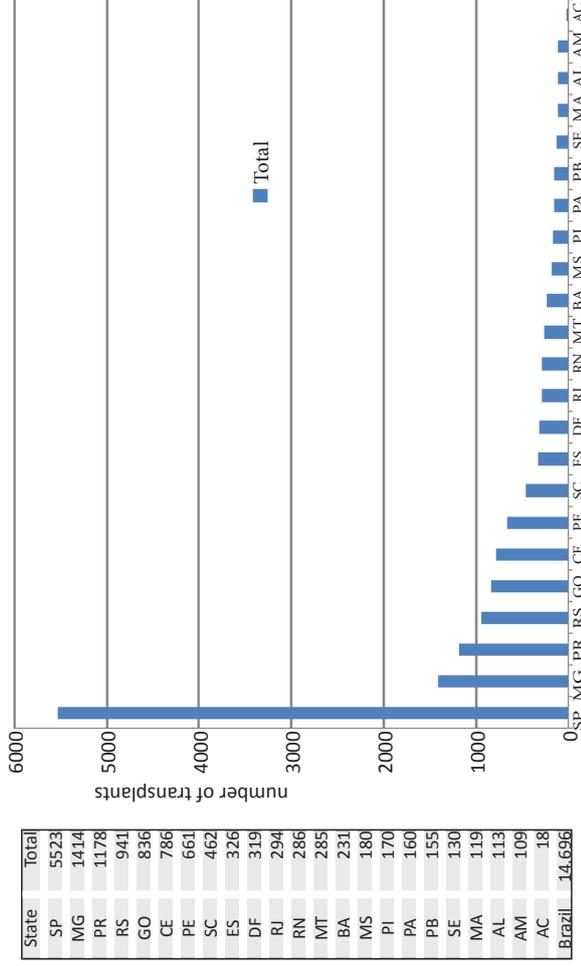


## Tissue transplants per million of population

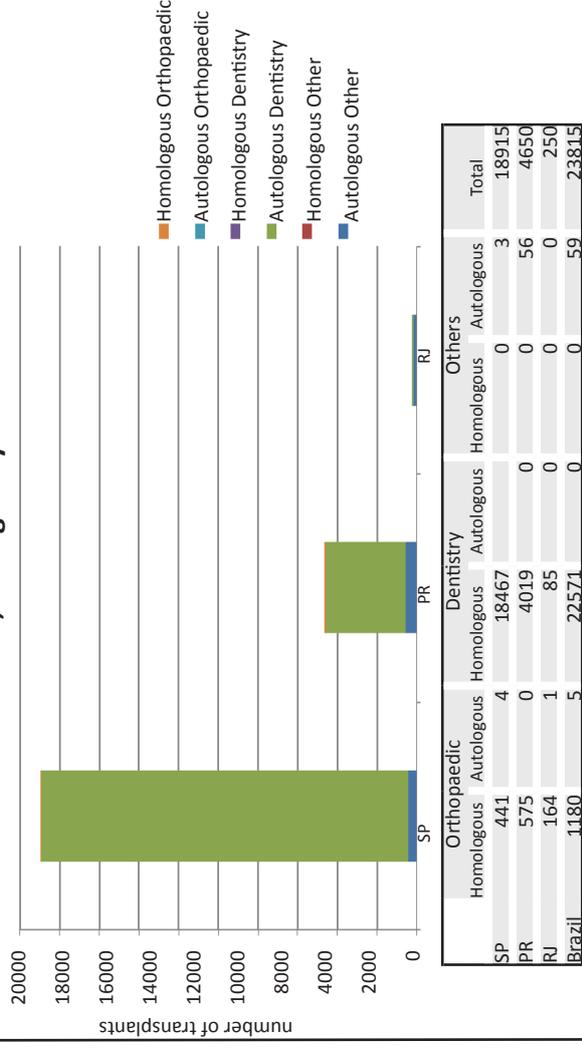


# Tissue: Annual number of transplants

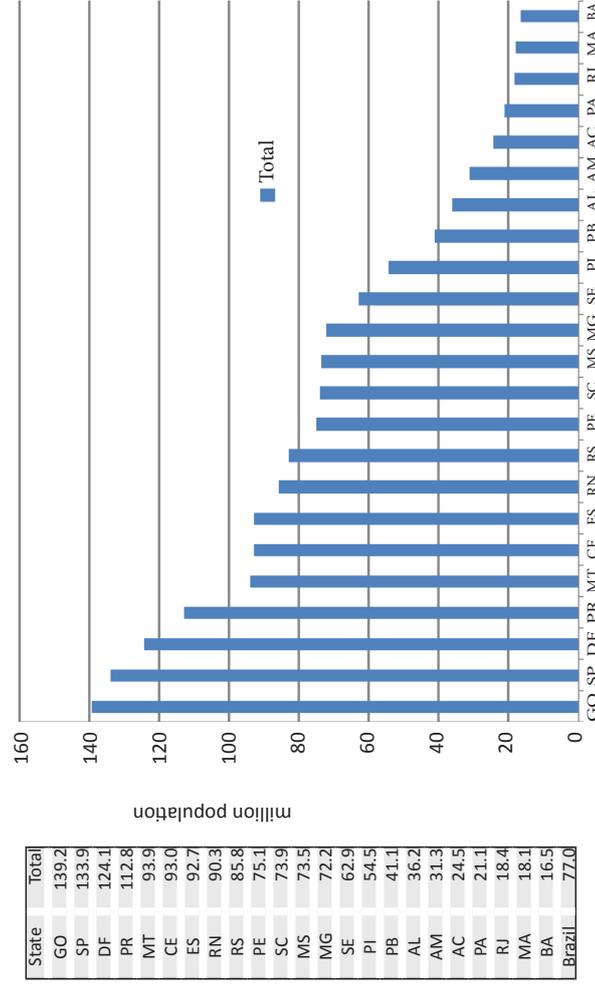
Number of corneal transplants by state during the year 2011



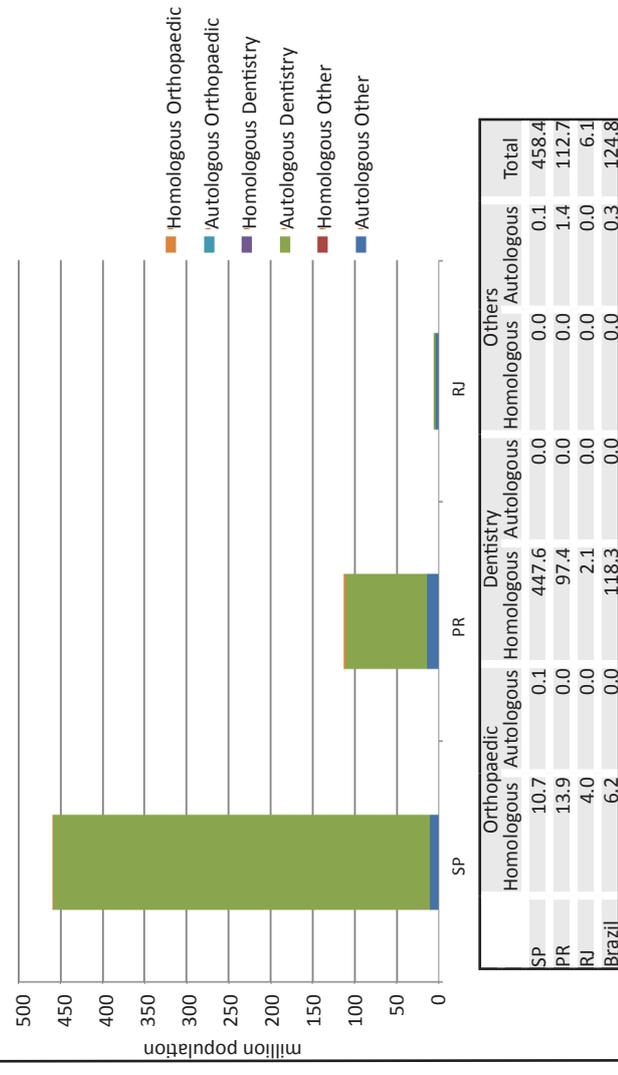
Number of bone transplants data available from five tissue bank in three states, during the year 2011



Number of corneal transplants per million of population during the year 2011



Bone Transplants per million of population data available from five tissue bank in three states, during the year 2011



## Number of Notifications of potential donors, effective donors and donors whose organs were transplanted by State during the year 2011

State	Notifications (potential donors) Nº pmp/year	Effective donors Nº pmp/year	Donors whose organs were transplanted Nº pmp/year	Multiple Organ Donors Nº	Refused Donor Nº	%
<b>Total - Brazil</b>	<b>7.238</b>	<b>2.048</b>	<b>10,7</b>	<b>2.019</b>	<b>10,6</b>	<b>73</b>
Acre (AC)	11	4	5,4	4	5,4	50
Alagoas (AL)	12	3	1,0	3	1,0	67
Amazonas (AM)	21	5	1,4	5	1,4	20
Bahia (BA)	374	69	4,9	69	4,9	99
Ceará (CE)	373	148	17,5	140	16,6	89
Distr.Federal (DF)	207	29	11,3	28	10,9	68
Espírito Santo (ES)	153	36	10,2	36	10,2	94
Goias (GO)	201	26	4,3	25	4,2	36
Maranhão (MA)	92	4	0,6	4	0,6	0
Mato Grosso (MT)	66	6	2,0	6	2,0	67
M.Grosso Sul (MS)	115	11	4,5	11	4,5	64
Minas Gerais (MG)	469	193	9,8	193	9,8	56
Pará (PA)	117	26	3,4	26	3,4	58
Paraíba (PB)	119	9	2,4	9	2,4	67
Paraná(PR)	401	112	10,7	112	10,7	95
Pernambuco (PE)	359	70	8,0	67	7,6	75
Piauí(PI)	73	7	2,2	7	2,2	100
Rio de Janeiro (RJ)	556	121	7,6	112	7,0	55
Rio G.do Norte (RN)	143	53	16,7	52	16,4	90
Rio G.do Sul (RS)	427	158	14,4	154	14,0	75
Rondonia (RO)	26	2	1,3	2	1,3	0
Sta.Catarina (SC)	384	159	25,4	157	25,1	75
São Paulo (SP)	2.495	793	19,2	793	19,2	71
Sergipe (SE)	44	4	1,9	4	1,9	0
				<b>1</b>	<b>40</b>	<b>91</b>

# Causes of non-fulfillment of organ donation of notified potential donors during the year 2011

State	Potential Donors	Family Interview		M.C.		C.A.		B.D.N.C.		I.I.		others	
		№ accomplished	nonconsent %	№	%	№	%	№	%	№	%	№	%
<b>Total - Brazil</b>	<b>7.238</b>	<b>1.915</b>	<b>1.937</b>	<b>832</b>	<b>11</b>	<b>1.205</b>	<b>17</b>	<b>464</b>	<b>6</b>	<b>34</b>	<b>0</b>	<b>718</b>	<b>10</b>
Acre (AC)	11	7	3 43	1	0	0	0	3	0	0	0	0	0
Alagoas (AL)	12	X	0	1	8	0	0	5	42	1	8	2	17
Amazonas (AM)	21	16	9 56	2	10	2	10	3	14	0	0	0	0
Bahia (BA)	374	205	132 64	32	9	8	2	129	34	1	0	3	1
Ceará (CE)	373	257	102 40	31	8	87	23	4	1	0	0	1	0
Distr.Federal (DF)	207	X	29	90	44	9	4	42	20	0	0	8	4
Espírito Santo (ES)	153	99	47 48	20	13	14	9	27	18	5	3	4	3
Goiás (GO)	201	66	41 62	30	15	97	48	0	0	4	2	3	2
Maranhão (MA)	92	38	33 87	13	14	2	2	38	41	0	0	2	2
Mato Grosso (MT)	66	44	11 25	6	9	37	56	3	5	0	0	3	5
M.Grosso Sul (MS)	115	X	19	66	57	14	12	3	3	0	0	2	2
Minas Gerais (MG)	469	X	89	75	16	73	16	20	4	0	0	19	4
Pará (PA)	117	X	51	20	17	15	13	2	2	0	0	3	3
Paraíba (PB)	119	52	25 48	31	26	16	13	32	27	1	1	5	4
Paraná (PR)	401	268	122 46	52	13	59	15	0	0	22	5	34	8
Pernambuco (PE)	359	160	86 54	61	17	29	8	101	28	0	0	12	3,3
Piauí (PI)	73	X	13	25	34	17	23	0	0	0	0	11	15
Rio de Janeiro (RJ)	556	275	153 56	72	13	174	31	27	5	0	0	9	2
Rio G.do Norte (RN)	143	133	53 40	7	5	20	14	5	3	0	0	5	3
Rio G.do Sul (RS)	427	X	133	36	8	94	22	2	1	0	0	4	1
Rondonia (RO)	26	7	3 43	0	0	2	8	10	39	0	0	9	35
Sta.Catarina (SC)	384	264	94 36	74	19	53	14	1	0	0	0	3	1
São Paulo (SP)	2.495	X	674	80	3	374	15	0	0	0	0	574	23
Sergipe (SE)	44	24	15 63	7	16	9	20	7	16	0	0	2	5

M.C - Medical Contraindication;

C.A - Cardiopulmonary Arrest;

B.D.N.C - Brain Death Not Confirmed;

I.I - Inadequate infrastructure

X - no information

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

State	Gender		Cause of death			Age						Blood group			
	Masc	Fem	CET	CVA	Outros	0-5	6-11	12-17	18-40	41-60	+60	A	AB	B	O
<b>TOTAL - Brazil</b>	<b>1261</b>	<b>839</b>	<b>846</b>	<b>944</b>	<b>265</b>	<b>40</b>	<b>39</b>	<b>117</b>	<b>769</b>	<b>870</b>	<b>265</b>	<b>676</b>	<b>78</b>	<b>215</b>	<b>923</b>
<b>Percentual</b>	<b>60%</b>	<b>40%</b>	<b>41%</b>	<b>46%</b>	<b>13%</b>	<b>2%</b>	<b>2%</b>	<b>6%</b>	<b>37%</b>	<b>41%</b>	<b>13%</b>	<b>36%</b>	<b>4%</b>	<b>11%</b>	<b>49%</b>
Acre	2	2	2	1	1	0	0	1	3	0	0	0	1	0	3
Alagoas	1	2	1	2	0	2	0	0	0	0	1	2	0	1	0
Amazonas	4	1	3	2	0	0	0	1	4	0	0	3	0	0	2
Bahia	47	22	33	28	8	0	0	3	30	30	6	21	1	6	41
Ceará	96	52	77	68	3	0	2	12	66	45	23	55	5	17	71
Distr. Federal	16	13	12	7	10	1	3	5	14	4	2	11	1	5	12
Espírito Santo	22	15	14	13	10	3	3	4	9	14	4	13	0	0	22
Goiás ***	18	7	14	11	0	0	1	4	11	9	0	5	0	3	17
Maranhão	3	1	2	2	0	0	0	0	1	2	1	2	0	0	2
Mato Grosso	3	3	5	1	0	1	1	2	1	0	1	2	1	0	3
M Grosso Sul	6	5	6	5	0	0	0	0	4	7	0	6	0	2	3
Minas Gerais	98	95	80	89	24	2	2	5	80	87	17	63	10	22	98
Pará	20	6	15	10	1	0	1	4	11	10	0	6	1	2	17
Paraíba	7	2	6	2	1	0	0	2	4	2	1	3	0	0	6
Paraná	76	36	65	26	21	0	0	6	54	46	6	43	7	10	52
Pernambuco	45	25	29	24	17	2	2	4	33	25	4	26	5	9	30
Piauí	4	3	5	2	0	0	1	0	4	2	0	2	0	0	5
Rio de Janeiro	71	50	36	47	38	2	0	4	35	67	13	43	2	20	56
Rio G do Norte	32	21	19	28	6	1	0	0	19	22	11	12	2	12	27
Rondonia	1	1	1	1	0	0	0	0	1	1	0	0	0	0	2
Rio G do Sul**	91	67	38	61	14	4	3	7	45	78	21	75	3	12	68
Santa Catarina	105	54	70	78	11	6	2	6	59	72	14	70	9	9	71
São Paulo *	490	355	311	435	99	16	18	46	279	346	140	212	30	85	312
Sergipe	3	1	2	1	1	0	0	1	2	1	0	1	0	0	3

\* Did not send the information about the blood group of the 1st quarter

\*\* Did not send the complete information of the kind of death of the third quarter

\*\*\* Sent the profile only with transplanted organ donor(s)

Note Sao Paulo accounts for 52 donors sent from other states in the donor profile

CET - Cranioencephalic trauma

CVA - Cerebrovascular accident

# List of National and State Coordinations of Transplants

## Transplant National System (SNT)

Heder Murabi Borba

Phone: 55(61) 3306-8212

e-mail: snt@saude.gov.br

## Transplant National Central (CNT)

Evelyn Heinzen

Phone(61) 3345-8465 / 3363-1314

e-mail: cncndo@saude.gov.br

## National Central Chamber (CTN):

### CTN of Heart

- Heder Murari Borba
- Pablo M. A. Pomerantzeff
- Ben-Hur Ferraz Neto
- Alfredo Inácio Fiorelli
- Jarbas Jakson Dinkhuysen
- Juan Alberto Mejia
- Gilberto Venosse Barbosa
- Ivo Abraão Nesralla
- Marcelo Biscegli Jatene

### Alternate:

- Maria da Conceição V. Moreira
- Fernando Antibas Atik
- Carlos Roberto R. de Moraes

### CTN of Liver:

- Luiz Carneiro
- Marcelo Augusto Scheidementel Nogara
- José Huygenes Parente Garcia
- Agnaldo Soares Lima
- Mário Reis
- Tércio Genzini
- Paulo Massarollo
- Ilka Boin
- Paulo Lisboa Bittencourt
- Ben-Hur Ferraz Neto

### Alternate

- Claudio Lacerda
- Cacilda Pedrosa
- Guido Pio Gracco Cantisani

### CTN of Pancreas

- Jose Maria Gross Figueiró
- Claudio Melaragno
- Santo Paschoal Vitola
- Marcelo Perosa
- Vincenzo Pugliese

### Alternate

- Luis Claudio Francalacci
- Ronaldo de Matos Esmeraldo
- Salvador Gullo Neto

### CTN of Lung:

- Amarilio Vieira de Macedo Neto
- Fabio Jatene
- José de Jesus Peixoto
- Silvio Paulo Pereira

### Alternate

- Marlova Luzzi Caramori
- Spencer Marcantônio
- Mauricio Guidi Saueressig

### CTN of kidney:

- José Osmar Medina Pestana
- Maria Cristina Ribero de Castro
- Marilda Mazzali
- Ronaldo de Matos Esmeraldo
- Sandra Simone Vilaça
- Valter Duro Garcia

### Alternate

- Deise Rosa de Boni Monteiro de Carvalho
- Luciene Mônica Deboni
- Roberto Ceratti Manfro

### CTN of bank tissue eye

- Denise de Freitas
- Germano Leitão de Andrade
- Luciene Barbosa de Souza
- Marcia Regina Issa Salomão
- Patrícia Peres Barroca
- Paulo Lener Peixoto Araujo Filho
- Élcio Sato

### Alternate

- Diane Ruschel Marinho
- Marco Antônio Rey Faria

### CTN of Caption and donation organ

- Ben-Hur Ferraz Neto
- Eliana Régia Barbosa de Almeida
- Joel Andrade
- Camilo Vieira dos Santos
- Reginaldo Boni

### CTN of Histocompatibility

- Danielli Muniz de Oliveira
- Fernando Antônio Vinhal dos Santos
- Margareth A. Torres
- Maria Gerbase de Lima
- Noemi Farah Pereira
- Cristina Von Glen

### Alternate

- Alexandre José Amada
- Maria Elisa Hue de Moraes
- Semiramis Jamil Hadad do Monte

### CTN of Transplant and Tissue bank

- André Oliveira Paggiaro
- Eduardo Chem
- Luiz Augusto Ubirajara Santos
- Marise Teresinha Brenner Affonso da Costa
- Rafael A. Dantas prinz
- Suplentes
- Junia Guimarães Mourão Cioffi
- Rodrigo Guimarães

### CTN of Intestine

- João Gilberto Maksoud Filho
- Maria Lúcia Zanotelli
- Mauricio Iasi
- Renato Ferreira da Silva
- Wangles Vasconcellos Soler
- André Ibraim David
- Dan Linetzky Waitzberg
- André Dong Won Lee

### CTN of Bone Marrow

- Ângelo Maiolino
- Eurípedes Ferreira
- José Zanis Net
- Lúcia Mariano da Rocha Silla
- Luis Fernando da Silva Bouzas
- Vergílio Antônio Renzi Colturato

## Acre

Regiane Clélia Ferrari

Hospital das Clínicas

Phone: 55(68) 3227-6399 / (68) 9982-1262

E-Mail: cncdoacre@ac.gov.br / cncdoacre@gmail.com

## Alagoas

Carlos Alexandre F. de Oliveira

Hospital Dr. José Carneiro

Phone: 55(82) 3376-8186 / (82) 3315-7440

E-Mail: doevida@saude.al.gov.br

## Amapá

Antônio Pinheiro Teles

Phone: 55(96) 3212-6281 / 3212-6282

E-Mail: cncdo@saude.ap.gov.br

## Amazonas

Leny Nascimento da Motta Passos

Fundação Hospital Adriano Jorge - bloco B

Phone/ Fax: (92) 3664-2616 / (92) 8802-6801

E-Mail: cncdo.am@saude.gov.br

## Bahia

Eraldo Salustiano de Moura

Phone: 55(71) 3117-0130 / Fax: (71) 3356-6776

E-Mail: transplantes.ba@hotmail.com

Ana Christina Lordelo S. Mascarenhas

Phone: 55(71) 3117-0130 / Fax: (71) 3356-6776

E-Mail: sesab.transplante@saude.ba.gov.br

## Ceará

Eliana Régia Barbosa de Almeida

Phone: 55(85) 3252-1886 / 3101-5238 / Fax: (85) 3252-1886

E-Mail: cncdo@saude.ce.gov.br

## Distrito Federal

Daniela Ferreira Salomão

HBDF Mezanino

Phone: 55(61) 3315-1755 / 3315-1677 / Fax: (61) 3315-1633

E-Mail: cncdodf@saude.df.gov.br

## Espírito Santo

Rosemery Gueis Nunes Erlacher

Phone: 55(27) 3235-1028 / Fax: (27) 3137-2411

E-Mail: cncdo@saude.es.gov.br

## Goiás

Luciano Leão Bernardino da Costa

Phone: 55(62) 3201-8320 / 3201-8319 / 9614-7990

E-Mail: centraltransplantes.go@saude.gov.br

## Maranhão

Silvana dos Santos Oliveira

Hospital Materno Infantil

Phone: 55(98) 2109-1276 / 2109-1212 / 2109-1212

E-Mail: ctx@huufma.br

## Mato Grosso

Fátima Aparecida de Melo Costa

Phone: 55(65) 3324-0747 / 3623-9004 / 3623-9188

E-Mail: contran@ses.mt.gov.br

## Mato Grosso do Sul

Claire Carmem Miozzo

Phone: 55(67) 3312-1456 / 3321-8877 / 3312-1400

E-Mail: cet@saude.ms.gov.br

## Minas Gerais

Charles Simão Filho

Hosp. João XXIII

Phone: 55(31) 3219-9200 / (31) 3219-9211

E-Mail: mgtransplantes@saude.mg.gov.br

## CNCDO Metropolitano - Belo Horizonte

Omar Lopes Cançado Júnior

Hosp. João XXIII

Phone: 55(31) 3219 9200 / (31) 3219 9211

E-Mail: mgtransplantes@saude.mg.gov.br

## CNCDO Leste - Governador Valadares

Célio Ferreira Magalhães

Phone: 55(33) 3271 1909

E-Mail: mgtx.gva@saude.mg.gov.br

# List of National and State Coordinations of Transplants

## **CNCDO Oeste - Uberlândia**

**Thonson Marques Palma**

Phone: 55(34) 3218-2323 / 3212-1780

E-Mail: cncdo.oeste@saude.mg.gov.br / mgtx@hc.ufu.br

## **CNCDO Sul - Pouso Alegre**

**Pablo Giardelli M. Mesquita**

Hospital Samoel Líbanio

Phone: 55(35) 3422-0334 / 2345 R. 277

E-Mail: cncdo.sul@saude.mg.gov.br

## **CNCDO Norte/Nordeste - Montes Claros**

**Sonia Rodrigues Cruz**

Phone: 55(38) 3229-2097 / (38) 3213-3676

E-Mail: cncdonone@ig.com.br

## **CNCDO Zona da Mata - Juiz de Fora**

**Joseph Fredric Whitaker**

Phone: 55(32) 3229-2392 / 9974-1291

E-Mail: cncdo.zmata@saude.mg.gov.br

## **Pará**

**André Luiz Santos Rodrigues**

Phone: 55(91) 4006-4284 / 4321 / 8115-2941

E-Mail: cncdo.transplantes@gmail.com

## **Paraíba**

**Dra. Gyanna Lys de Melo Moreira Montenegro**

Instituto de Previdência de Estado da Paraíba

Phone: 55(83) 3244-6192 / 3225-6409 / 8845-3516

E-Mail: transplante@gmail.com

## **Paraná**

**Arlene Terezinha Cagol Garcia Badoch**

Phone: 55(41) 3232-5740 / 3232-4384

E-Mail: sesatran@sesa.pr.gov.br

## **Cascavel - Paraná**

**Irene da Rocha Soares**

Phone: 55(45) 3321-5505 / 5506 / Fax: (45) 3226-7895

E-Mail: crt10rs@sesa.pr.gov.br

## **Londrina**

**Altair Jacob Mocelin**

Phone: 55(43) 3379-6078 / 3344-5339 / 9942-0196

E-Mail: utr17rs@sesa.pr.gov.br

## **Maringá**

**Cristina Yure Sekine Franca**

Phone: 55(44) 3227-3274

E-Mail: sesatmga@pr.gov.br

## **Pernambuco**

**Zilda Cavalcanti**

Prédio Sede do ISR

Phone: 55(81) 3184-4120/4122 / 08002812185

E-Mail: transplantespe@saude.gov.br / simone.lima@saude.gov.br

## **Piauí**

**Maria de Lourdes de Freitas Veras**

Phone: 55(86) 3221-7553 / 3216-3553

E-Mail: cncdopi@saude.pi.gov.br

## **Rio de Janeiro**

**Eduardo Rocha**

Phone: 55(21) 2333-7535/2333-7543/2333-7541

E-Mail: transplantes@saude.rj.gov.br

## **Rio Grande do Norte**

**Rodrigo de Vilar e Furtado**

Ed. Pronto Socorro Clovis Sarinho – B. Tirol

Phone: 55(84) 3232-7620 / 8839-8452 / 3232-7621

E-Mail: cncdo@rn.gov.br

## **Rio Grande do Sul**

**Rosana Reis Nothen**

Phone: 55(51) 3319-5544 / (51) 3319-4016

E-Mail: centraldetransplantes@saude.rs.gov.br

## **Rondônia**

**Alessandro Correa Prudente dos Santos**

Phone: 55(69) 3216-5738 / 3216-5747 / 3229-0753

E-Mail: gcetro@gmail.com / alessandro.prudente01@gmail.com

## **Santa Catarina**

**Joel de Andrade**

Phone: 55(48) 3212-1612 / 3212-1613 / 0800-6437474

E-Mail: getra@saude.sc.gov.br / cncdoinfo@saude.sc.gov.br

## **Sergipe**

**Benito Oliveira Fernandez**

Hospital João Alves Filho

Phone: 55(79) 3259-2899 / 3216-2870 / 3259-3491 / 8824-8132

E-Mail: transplantes@saude.se.gov.br

## **São Paulo**

**Luiz Augusto Pereira**

Phone: 55(11) 3064-1649 / 3088-5094 / (11) 3083-3942

E-Mail: ctrans@saude.sp.gov.br

## **CNCDO - Interior**

**Luiz Augusto Pereira**

Hospital das Clínicas FMRP – USP – UTR

Phone: 55(16) 3633-1570 / 3633-2189

E-Mail: cncdo2@fmrp.usp.br

## **SPOT / HC**

**Leonardo Borges de Barros e Silva**

Hosp das Clínicas da Fac. de Medicina de São Paulo - IC

Phone: 55(11) 3069-8004 / 3069-6543

E-Mail: opo\_hc@hcnet.usp.br

## **SPOT / Santa Casa de São Paulo**

**Reginaldo Carlos Boni**

Irmandade da Santa Casa de São Paulo

Phone: 55(11) 2176-7185/7391/5185

E-Mail: opo@santacasasp.org.br/caporgao@santacasa.sp.org.br

## **SPOT / Dante Pazzanese**

**Antonio Flavio de Almeida Sanchez**

Instituto Dante Pazzanese de Cardiologia

Phone: 55(11) 5085-6015 / 5571-8601

E-Mail: spot@dantepazzanese.org.br

## **SPOT / EPM**

**José Osmar Medina Pestana**

Hospital do Rim – Fundação Oswaldo Ramos

Phone: 55(11) 5572-8749 / 5081-2183

E-Mail: opoepm@hrim.com.br

## **SPOT / Campinas**

**Luis Antonio Costa Sardinha**

Central de Captação de Órgãos do HC da UNICAMP

Phone: 55(19) 3521-8000

E-Mail: captacao@hc.unicamp.br

## **SPOT / São José do Rio Preto**

**João Fernando Picollo de Oliveira**

Hosp de Base da Faculdade de Medicina de S. J. do R. Preto

Phone: 55(17) 3227-7030 / 3227-7033

E-Mail: captacaoodeorgaos@hospitaldebase.com.br

## **SPOT / Botucatu**

**Reginaldo Carlos Boni**

Hospital das Clínicas da UNESP – Botucatu - SP

Phone: 55(14) 3811-6386 / 3813-3344

E-Mail: spot.botucatu@fmb.unesp.br

## **SPOT / Sorocaba**

**Frederico Augusto Pinho Rocha**

Conjunto Hospitalar de Sorocaba

Phone: 55(15) 3232-4049

E-Mail: chs-opo-sorocaba@saude.sp.gov.br

## **SPOT / Ribeirão Preto**

**Jeová Nina Rocha**

Hosp das Clínicas da Fac. de Medicina de Ribeirão Preto

Phone: 55(16) 3602-2777 / 3633-5189

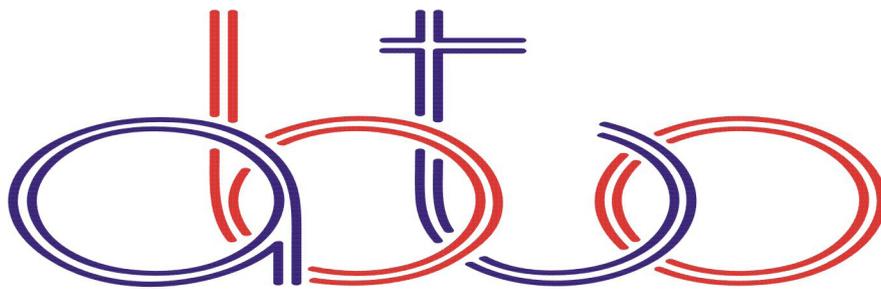
E-Mail: oporibeirao@yahoo.com.br

## **SPOT / Marília**

**José Cícero Guillem**

Phone: 55(14) 3402-1748 / 1744

E-Mail: oposmarilia@famema.br



## **Associação Brasileira de Transplante de Órgãos**

Brazilian Organ Transplantation Society  
Av. Paulista, 2001 - 17º andar - cj. 1704 / 1707  
São Paulo - SP  
CEP 01311-030  
Phone 11 3283-1753 / 3262-3353  
e-mail: [abto@abto.org.br](mailto:abto@abto.org.br)

[www.abto.org.br](http://www.abto.org.br)