

**ANNUAL ORGAN TRANSPLANTATION ACTIVITY**  
*Newsletter Transplant of the Council of Europe*

**COUNTRY: Portugal**

**ORGANIZATION: Instituto Português do Sangue e da Transplantação, IP**

**ANNUAL ACTIVITY DATA CORRESPONDING TO YEAR: 2014**

1. How many transplant centres are officially registered?

Number of:

1.1 Kidney centres: 8

1.2 Liver centres: 3

1.3 Heart centres: 4

1.4 Lung centres: 1

1.5 Pancreas centres: 2

1.6 Small Bowel centres: 0

2. Number of actual deceased organ donors:

*Green columns: Whenever possible, please indicate the number of donors according to the following age categories: paediatric donors (**under 15 years old**); **15 - 59 years old**; and **≥ 60 years old**.*

	Total	(< 15 years old)	(15 – 59 years old)	(≥ 60 years old)
Number of actual deceased organ donors:	289	9	161	119
2.1 Number of actual donors after brain death (DBD) , i.e., actual deceased organ donors in whom death has been determined by neurological criteria:	289	9	161	119
2.2 Number of actual donors after circulatory death (DCD) , i.e, actual deceased organ donors in whom death has been determined by circulatory criteria:	0	0	0	0

**3. Number of multiorgan donors: 194**

**4. Number of utilized deceased organ donors:**

*Green columns: Whenever possible, please indicate the number of donors according to the following age categories: paediatric donors (under 15 years old); 15 - 59 years old; ≥ 60 years old.*

	Total	(< 15 years old)	(15 – 59 years old)	(≥ 60 years old)
Number of utilized deceased organ donors:	263	9	156	98
<b>4.1</b> Number of utilized donors after brain death (DBD), i.e. utilized deceased organ donors in whom death has been determined by neurological criteria:	263	9	156	98
<b>4.2</b> Number of utilized donors after circulatory death (DCD), i.e., utilized deceased organ donors in whom death has been determined by circulatory criteria:	0	0	0	0

**5. Number of organs procured from deceased donors within the country:**

	Total
<b>5.1</b> Kidneys ( <i>Kidneys are counted as individual organs: double procurement=2 and single procurement=1</i> )	483
<b>5.2</b> Livers ( <i>Count only if procured with the intention of transplanting a full organ, exclude if intended to procure hepatocytes. Liver should be counted as 1, even if split/reduced liver transplantation is subsequently performed</i> )	226
<b>5.3</b> Hearts ( <i>Count only if procured with the intention of transplanting a full organ. Exclude if intended to procure valves</i> )	50
<b>5.4</b> Lungs ( <i>Lungs are counted as individual organs: double procurement=2 and single procurement=1</i> )	40
<b>5.5</b> Pancreas ( <i>Count only if procured with the intention of transplanting a full organ. Exclude if intended to procure islets</i> )	30
<b>5.6</b> Small bowels	0

**6. TRANSPLANTATION ACTIVITY** (In this section please specify the number of transplants performed only within your country for each item)

Right green column: Whenever possible, please indicate the number of paediatric transplants (<15 years old).

**6.1 KIDNEY**

		<b>Number of transplants (including paediatric)</b>	<b>Number of paediatric transplants (&lt; 15 years old)</b>
From deceased persons	Total - all combinations from deceased persons (including kidney + any other organ, transplants from DBD and DCD, single and double kidney transplant):	394	5
	From DBD:	394	5
	From DCD:	0	0
	Single:	366	5
	Double:	28	0
From living donors	Total :	54	1
	Related donors:	54	1
	Unrelated donors:	0	0
<b>TOTAL (Total Deceased +Total Living):</b>		<b>448</b>	<b>6</b>

## 6.2 LIVER

		Number of transplants (including paediatric)	Number of paediatric transplants (< 15 years old)
<b>From deceased persons</b>	<b>Total</b> - all combinations (including liver + any other organ, transplants from DBD and DCD, split and domino:	197	<b>20</b>
	From DBD:	197	<b>12</b>
	From DCD:	0	<b>0</b>
	Split:	0	<b>8</b>
<b>Domino</b>		8	<b>0</b>
<b>From living donors</b>	Of lobe/or segment(s) from 1 donor	5	<b>0</b>
	Of lobe/or segment(s) from 2 donors	0	<b>0</b>
	<b>Total:</b>	5	<b>0</b>
<b>Total (Total Deceased +Total Living):</b>		202	<b>20</b>

## 6.3 HEART

	Number of transplants (including paediatric)	Number of paediatric transplants (< 15 years old)
<b>Total</b> - all combinations (including heart + any other organ):	43	<b>2</b>
<b>Heart-lung</b>	0	<b>0</b>

#### 6.4 LUNG

		Number of transplants (including paediatric)	Number of paediatric transplants (< 15 years old)
<b>From deceased persons</b>	<b>Total</b> - all combinations (including lung + any other organ transplants, from DBD and DCD, single and double lung, heart-lung):	19	0
	From DBD:	19	0
	From DCD:	0	0
	Single lung:	14	0
	Double lung (including heart-lung):	5	0
<b>From living donors:</b>		0	0
<b>TOTAL (Total Deceased + Total Living):</b>		19	0

#### 6.5 PANCREAS (islets not included)

	Number of transplants (including paediatric)	Number of paediatric transplants (< 15 years old)
<b>Total</b> - all combinations (including Pancreas alone, pancreas + any other organ, transplants from DBD and DCD):	27	0
From DBD:	27	0
From DCD:	0	0
Pancreas alone:	3	0
Kidney-Pancreas:	24	0

**6.6 SMALL BOWEL**

	<b>Number of transplants (including paediatric)</b>	<b>Number of paediatric transplants (&lt; 15 years old)</b>
<b>Total</b> - all combinations (including small bowel + any other organ):	0	0
Small bowel alone:	0	0

**6.7 TOTAL NUMBER OF RECIPIENTS TRANSPLANTED** in your country within the year indicated.

E.g. For more than one organ transplanted into the same recipient: Kidney-Liver-Heart Transplant = count as one recipient.

		<b>Number of recipients transplanted (including paediatrics)</b>	<b>Number of paediatric recipients transplanted (&lt; 15 years old)</b>
<b>From deceased persons</b>	<b>Total</b> - all combinations, (from DBD and DCD) and more than one-organ transplanted	680	27
<b>From living donors</b>		59	1
<b>TOTAL (Living + Deceased):</b>		739	28

**7. IMPORT – EXPORT** (Counted as individual organs: lungs and kidneys are counted=2 if two organs are imported-exported)

Number of Kidneys imported	0
Number of Kidneys exported	0
Number of Livers imported	1
Number of Livers exported	6
Number of Hearts imported	0
Number of Hearts exported	5
Number of Lungs imported	0
Number of Lungs exported	0

**8. WAITING LIST (WL):**

**8.1 KIDNEY**

Number of patients included on the WL for the first time in the course of 2014	609
Total number of patients ever active on the WL during 2014	2519
Number of patients awaiting a transplant (only active candidates) on 31st December	1970
Number of patients dead while on the WL during the year indicated	43
Number of patients with end-stage renal disease (ESRD) on dialysis treatment on 31 <sup>st</sup> December (if no exact data available, please give estimated data and indicate that it is an estimation)	12085

## 8.2 LIVER

Number of patients included on the WL for the first time in the course of 2014	142
Total number of patients ever active on the WL during 2014	280
Number of patients awaiting a transplant (only active candidates) on 31st December	143
Number of patients dead while on the WL during the year indicated:	22

## 8.3 HEART

Number of patients included on the WL for the first time in the course of 2014	58
Total number of patients ever active on the WL during 2014	78
Number of patients awaiting a transplant (only active candidates) on 31st December	19
Number of patients dead while on the WL during the year indicated:	12

## 8.4 LUNG

Number of patients included on the WL for the first time in the course of 2014	17
Total number of patients ever active on the WL during 2014	62
Number of patients awaiting a transplant (only active candidates) on 31st December	40
Number of patients dead while on the WL during the year indicated:	3

## 8.5 PANCREAS

Number of patients included on the WL for the first time in the course of 2014	78
Total number of patients ever active on the WL during 2014	56
Number of patients awaiting a transplant (only active candidates) on 31st December	24
Number of patients dead while on the WL during the year indicated:	1





## 8.6 SMALL BOWEL

Number of patients included on the WL for the first time in the course of 2014	0
Total number of patients ever active on the WL during 2014	0
Number of patients awaiting a transplant (only active candidates) on 31st December	0
Number of patients dead while on the WL during the year indicated:	0

## 9. FAMILY REFUSALS

9.1 Number of interviews, asking for consent to donation: NA

9.2 Number of family refusals: NA

## 10. TRANSPLANTS ABROAD

10.1 Number of resident patients in the reporting country, known to have been transplanted abroad from a living or deceased donor, within the year indicated: 4

10.1.1 If any cases reported for 8.1, please provide information on the destination country / countries: Spain

10.2 Number of resident living donors in the reporting country, known to have travelled abroad to donate, within the year indicated: 0

10.2.1 If any cases reported for 8.2, please provide information on the destination country / countries:

10.3 Additional information:

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## DEFINITIONS

### **ACTUAL DECEASED ORGAN DONOR**

An actual deceased organ donor is a person from whom at least one organ has been recovered for the purpose of transplantation, in contrast to a utilised donor, who is an actual donor from whom at least one organ has been transplanted. The number of utilised donors is therefore lower or equal than the number of actual donors.

### **DONOR AFTER BRAIN DEATH**

A donor after brain death (DBD) is a deceased organ donor in whom death has been determined by neurologic criteria.

### **DONOR AFTER CIRCULATORY DEATH**

A donor after circulatory death (DCD) is a deceased organ donor in whom death has been determined by circulatory and respiratory criteria.

### **MULTIORGAN DONOR**

A multiorgan donor is an actual donor from whom at least two different types of organs have been recovered for the purpose of transplantation.

### **UTILIZED DECEASED ORGAN DONOR**

An actual donor from whom at least one organ was transplanted. (The critical pathways for organ donation. The Madrid Resolution).

### **ORGAN TRANSPLANTS**

The transfer (engraftment) of human organs from a donor to a recipient with the aim of restoring function (s) in the body.

### **TOTAL TX. (ALL COMBINATIONS INCLUDED)**

Includes the transplantation of the corresponding organ with or without the simultaneous transplant of a different type of organ (s).

### **DOUBLE-KIDNEY TX.**

One double-kidney TX. is counted as 1 TX.

### **TX. FROM LIVING DONORS**

A living donor is a living human being from whom organs have been recovered for the purpose of transplantation. A Living Donor has one of the following three possible relationships with the recipient:

A/ Related:

A1/ Genetically Related:

1<sup>st</sup> Degree Genetic Relative: Parent, Sibling, Offspring

2<sup>nd</sup> Degree genetic relative, e.g. grandparent, grandchild, aunt, uncle, niece, nephew,

Other than 1<sup>st</sup> or 2<sup>nd</sup> degree genetically related, for example cousin



A2/ Emotionally Related: Spouse (if not genetically related); in-laws; Adopted; Friend

B/ Unrelated = Non Related: Not Genetically or Emotionally Related

### **DOMINO TRANSPLANT**

A procedure in which an organ is removed from one transplant candidate and immediately transplanted into a second patient, with the first patient receiving a new organ from a deceased donor. (HRSA/OPTN)

### **HEART-LUNG TX.**

One heart-lung TX. is counted as 1 lung TX., 1 heart TX. and 1 heart-lung TX.

### **DOUBLE-LUNG TX.**

One double-lung TX. is counted as 1 TX.

### **TOTAL NUMBER OF PATIENTS TRANSPLANTED**

For more than one organ transplanted into the same recipient: kidney-liver-heart TX. = counted as one recipient.

### **PAEDIATRIC**

Includes only paediatric activity (patients aged < 15 years).

### **WAITING LIST**

**Example:** At 1/1/2014 there were 200 patients active on the WL. Along the year, 100 patients are newly included on the WL (first row). In total, 300 patients have been ever active on the WL during the year (second row). Along the year, 200 patients were transplanted (number recorded in a different questionnaire), 50 patients remain active at the end of the year (third row), 25 patients died (fourth row) and 25 patients were excluded (number not to be reported, but derived from previous figures).

Patients included on the WL for the first time in the course of 2014	100
Total number of patients ever active on the WL during 2014	300
Patients awaiting for a transplant (only active candidates) on 31/12/2014	50
Patients who died while on the WL during 2014	25