GOBIERNO DE ESPAÑA
MINISTERIO DE SANIDAD, SERVICIOS SOCIALES E IGUALDAD
ONT
ORGANIZACIÓN NACIONAL DE TRASPLANTES

Resumen de actividad de donación y trasplante de órganos sólidos

España 2017

Organización Nacional de Trasplantes

En el año 2017 hubo en España 2.183 donantes de órganos (Figura 1). Esta actividad de donación (sumada a la procedente de donantes vivos) permitió la realización de **un total de 5.261 trasplantes de órganos sólidos**: 3.269 trasplantes renales, 1.247 trasplantes hepáticos, 304 trasplantes cardíacos, 363 trasplantes pulmonares, 70 trasplantes de páncreas y 8 trasplantes intestinales.

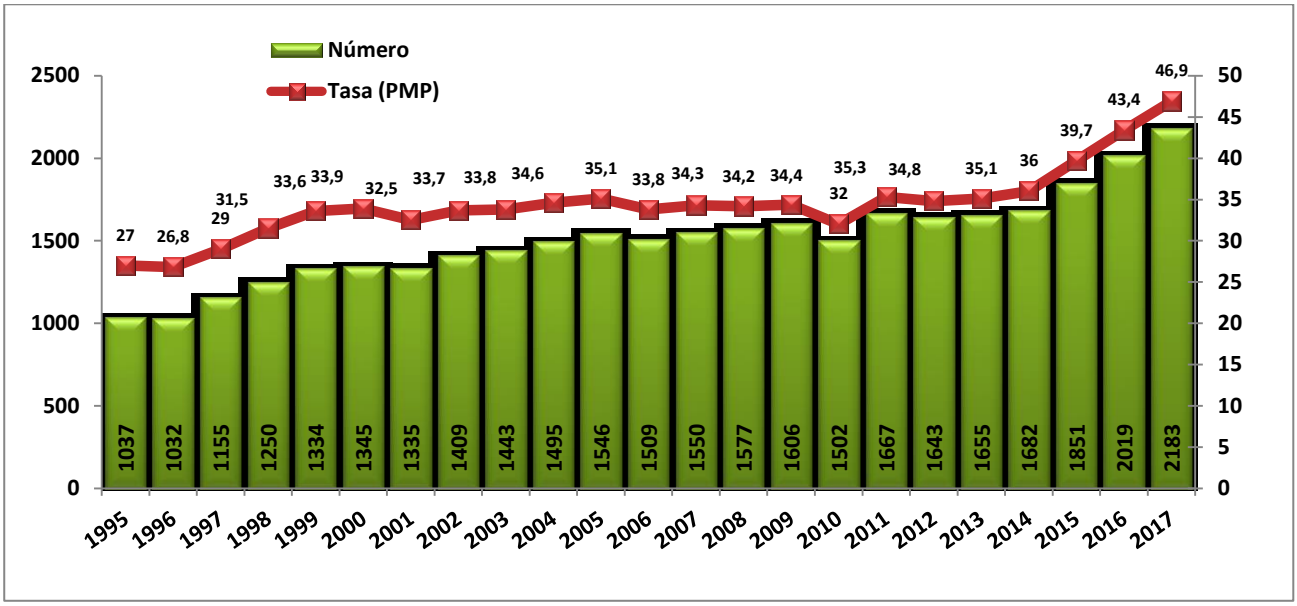


Figura 1. : Número Total y Tasa anual (p.m.p) de donantes de órganos. España 1995-2017

Hasta el 31 de diciembre de 2017 se han efectuado en España un total de **109.605 trasplantes de órganos sólidos**, cuya evolución se muestra en la Figura 2.

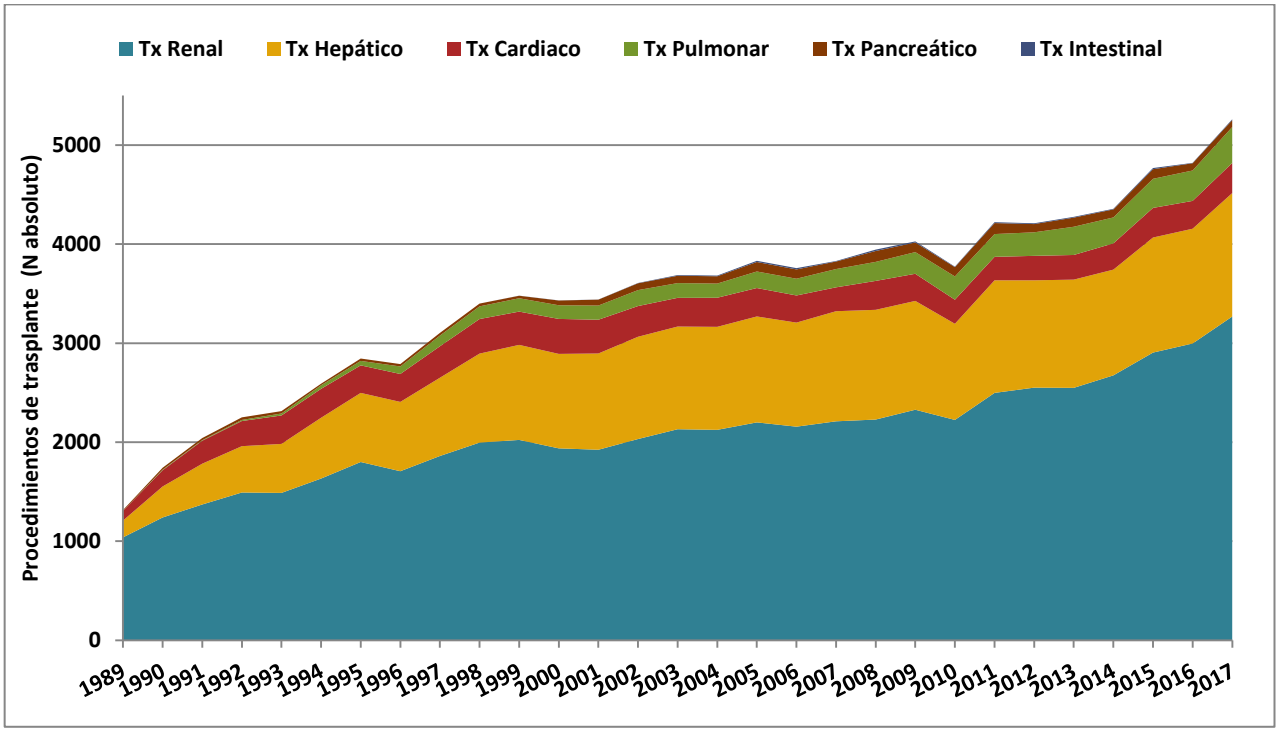


Figura 2. : Actividad trasplantadora global. España 1989-2017. Números absolutos

En la Figura 3 aparece la tendencia interanual de donación en nuestro país en los últimos cuatro años y en la Figura 4 se puede observar la evolución de la actividad de donación por millón de población de diferentes países.

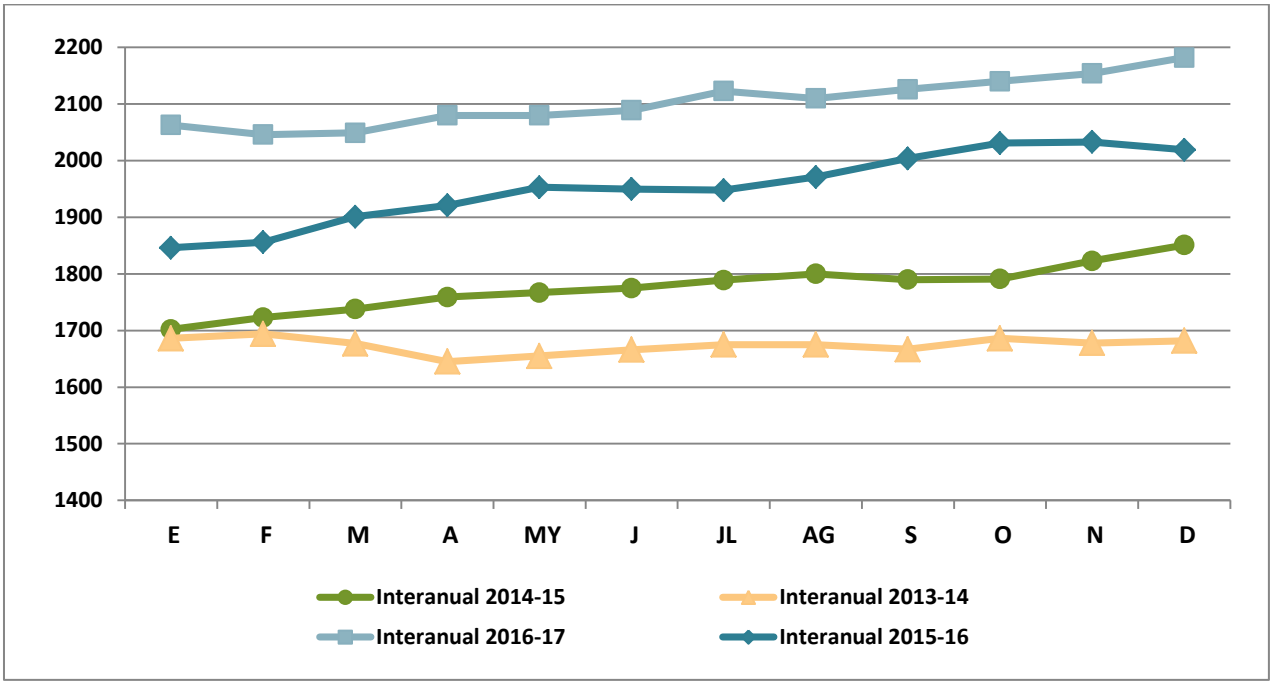


Figura 3. Tendencia interanual de donación en España. 2013-2017

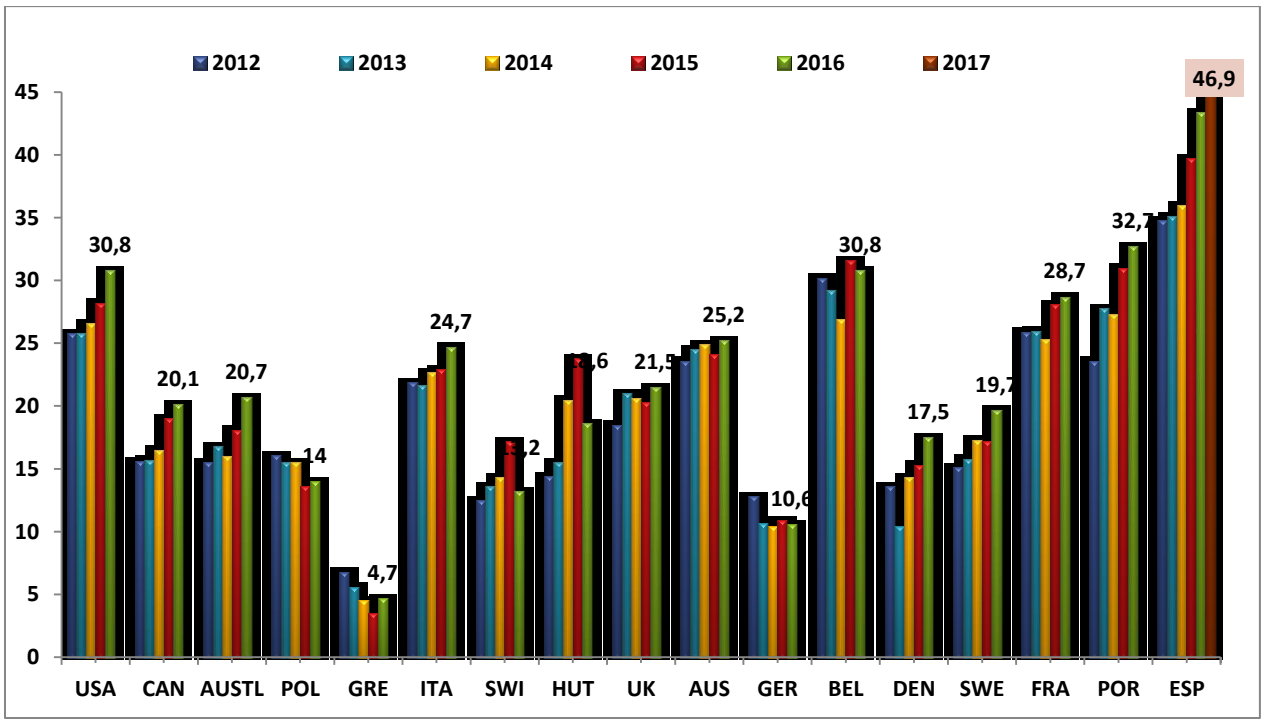


Figura 4. : Tasa anual (p.m.p) de donantes de órganos en España y otros países. 2012-2017

El número total de trasplantes renales realizados en España hasta el año 2017 inclusive es de 68.856, incluidos los realizados a partir de donante vivo. La evolución del número de tx renales desde el año 1989 se muestra en la Figura 5.

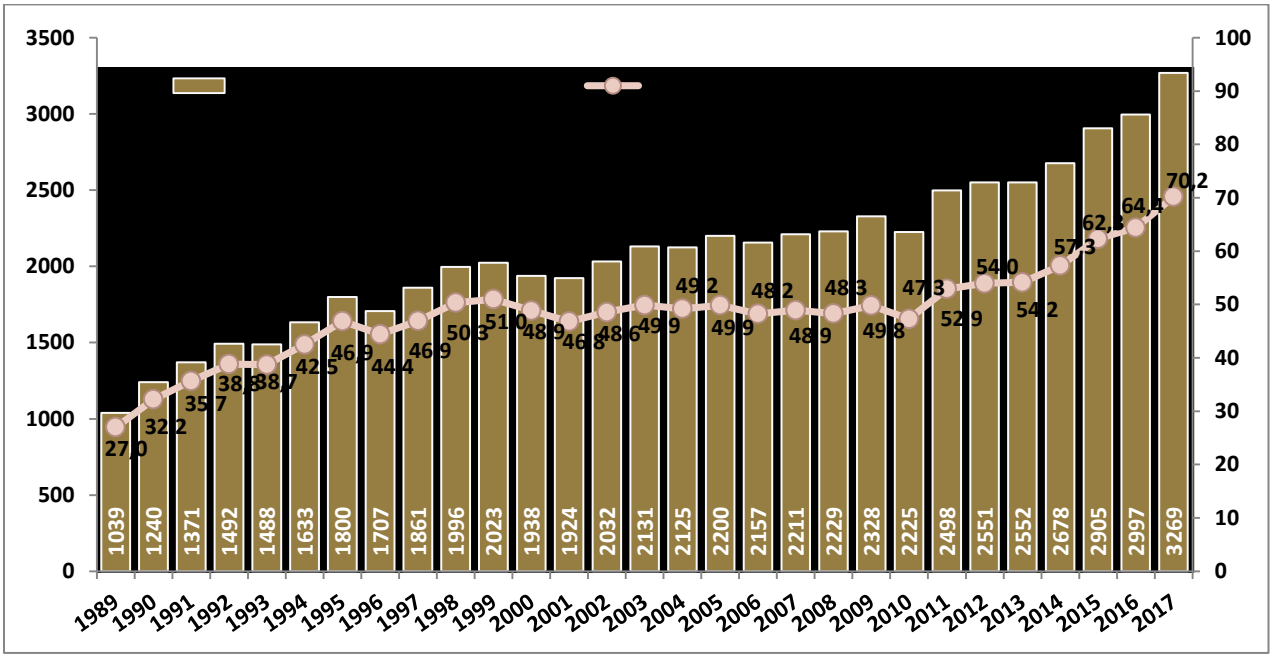


Figura 5. Actividad de trasplante renal en España. 1989-2017. Números absolutos y por millón de población (pmp).

El número total de trasplantes hepáticos realizados en España desde el inicio de dicha actividad en 1984 hasta el año 2017 inclusive es de 26.152, incluidos los realizados a partir de donante vivo. La evolución del número de trasplantes hepáticos desde el año 1993 se muestra en la Figura 6.

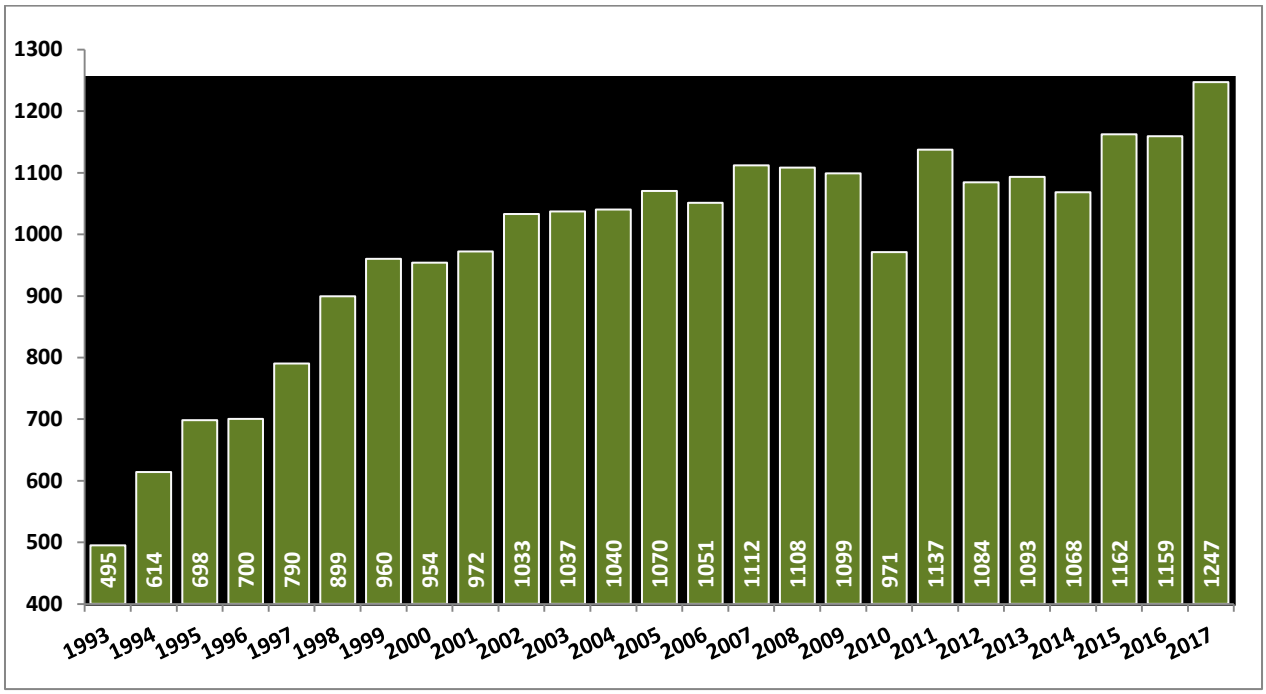


Figura 6. Actividad de trasplante hepático en España. 1993-2017. Números absolutos.

El número total de trasplantes cardiacos y pulmonares realizados en España hasta 2017 inclusive es de 8.173 y 4.451 respectivamente. La evolución en el tiempo de dicha actividad se muestra en las Figura 7 y Figura 8.

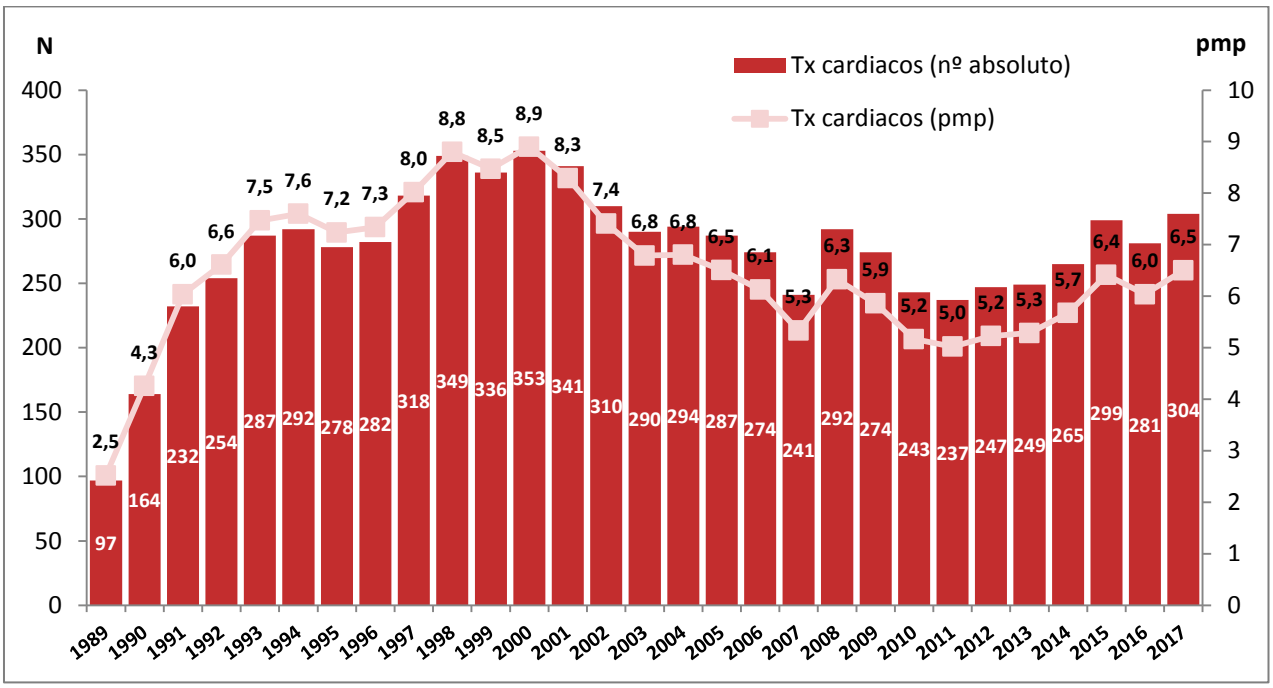


Figura 7. Actividad de trasplante cardíaco en España. 1989-2017.
Números absolutos y procedimientos por millón de población (pmp)

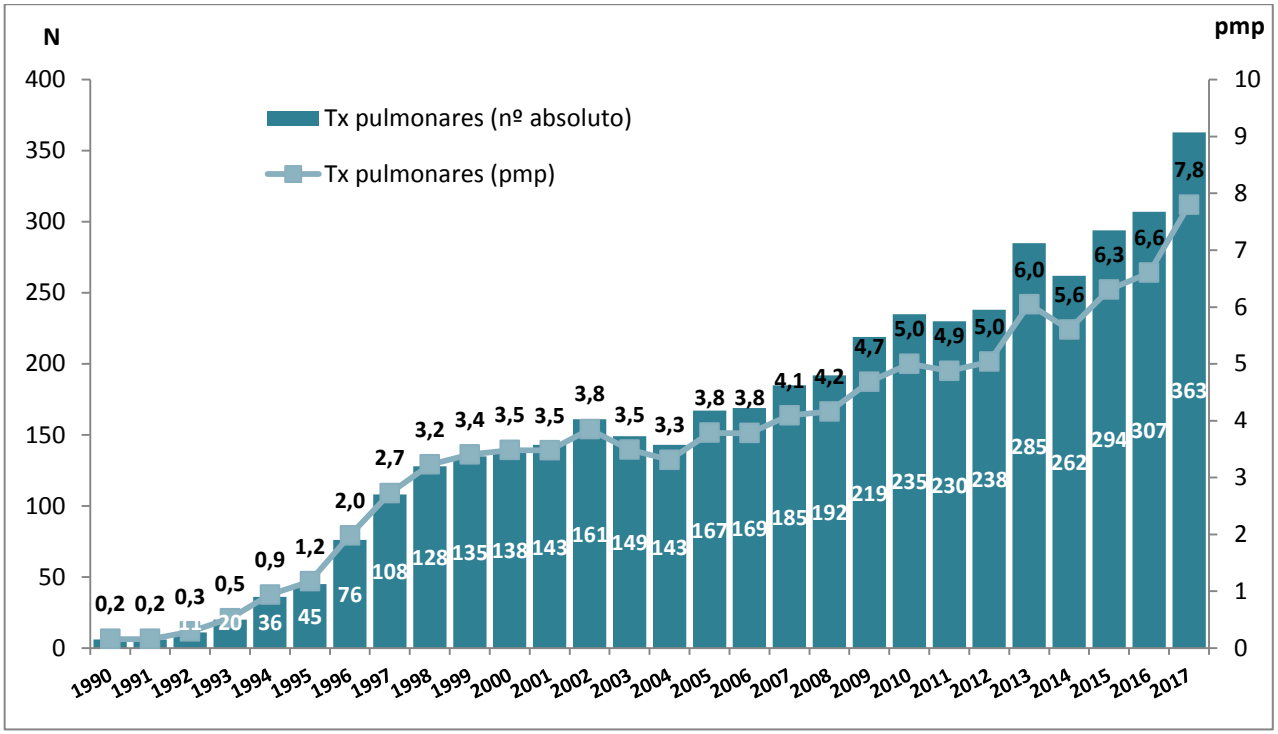


Figura 8. Actividad de trasplante pulmonar en España. 1990-2017.
Números absolutos y procedimientos por millón de población (pmp)

El número total de trasplantes pancreáticos realizados en España desde 1984 hasta 2017 inclusive es de 1.775, incluidos los trasplantes de páncreas riñón y multiviscerales. La evolución en el tiempo de dicha actividad desde el año 1999 se muestra en la Figura 9.

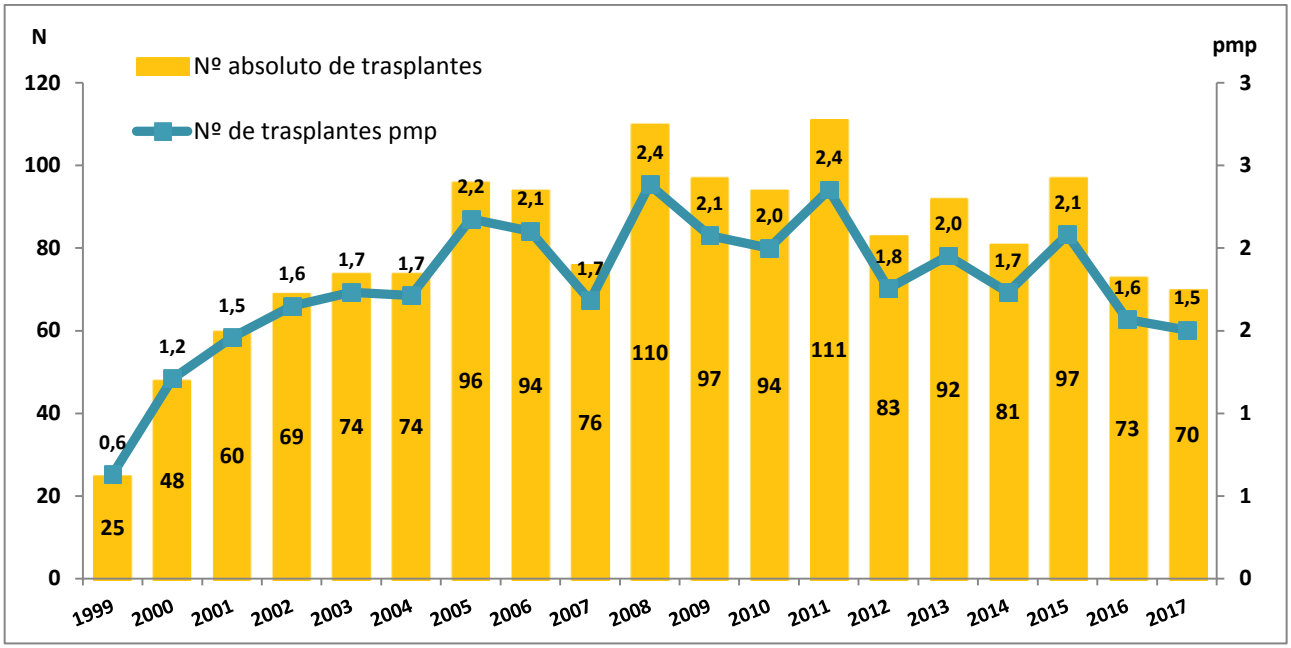


Figura 9. Actividad de trasplante pancreático en España. 1999-2017. Números absolutos y procedimientos por millón de población (pmp)

El número total de trasplantes intestinales (aislados o en combinación con otros órganos) realizados en España hasta 2017 inclusive es de 135. La evolución en el tiempo de dicha actividad se muestra en la Figura 10.

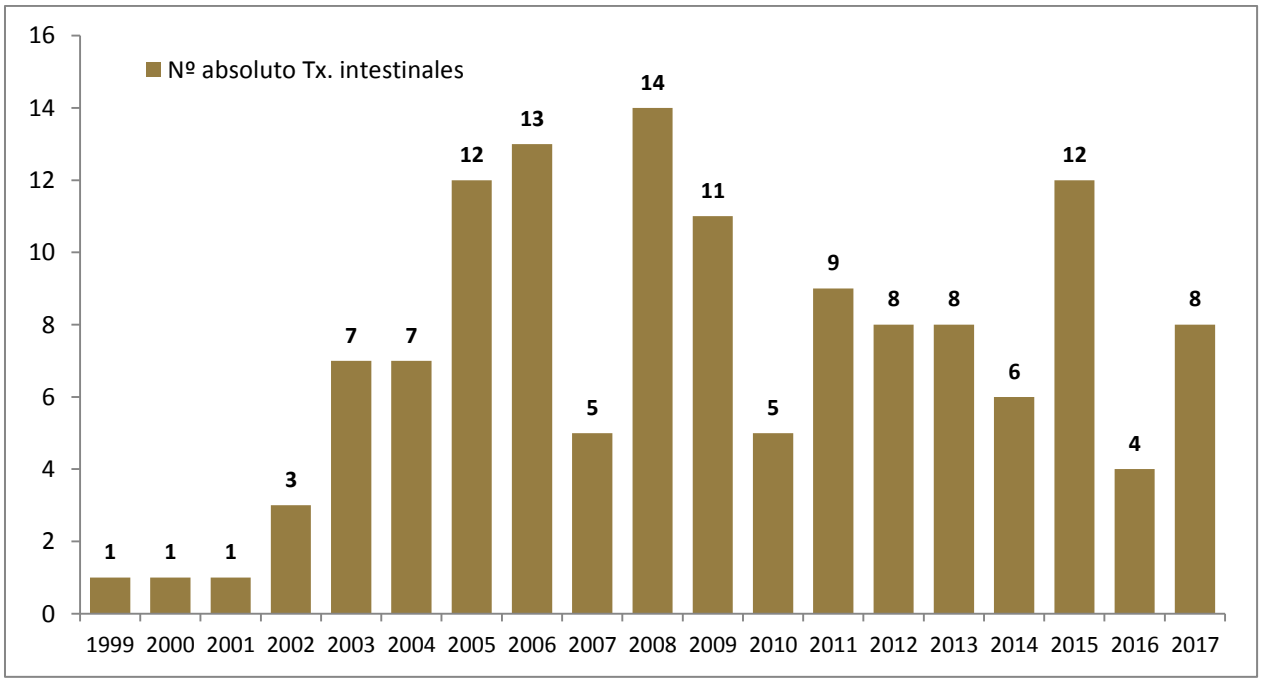


Figura 10. Actividad de trasplante de intestino delgado en España. 1999-2017. Números absolutos

En las Tablas siguientes aparecen los indicadores de donación y trasplante de diferentes países del mundo (Fuente Newsletter Transplant 2017. Datos de actividad de 2016):

DONATION AND TRANSPLANTATION ACTIVITY

EUROPEAN UNION COUNTRIES

COUNTRIES Population (million inhabitants): UNFPA	Austria 8.6		Belgium 11.4		Bulgaria 7.1		Croatia 4.2		Cyprus 1.2		Czech Republic 10.5		Denmark 5.7		Estonia 1.3		Finland 5.5		France 64.7	
DONATION																				
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Actual deceased organ donors –both DBD and DCD included–	217	25.2	351	30.8	39	5.5	166	39.5	4	3.3	266	25.3	100	17.5	22	16.9	136	24.7	1859	28.7
Actual donors after circulatory death –DCD–	6	0.7	108	9.5	0	0.0	0	0.0	0	0.0	4	0.4	0	0.0	0	0.0	0	0.0	89	1.4
Multiorgan donors	175	20.3	235	20.6	14	2.0	118	28.1	3	2.5	180	17.1	64	11.2	15	11.5	84	15.3	1358	21.0
TRANSPLANTATION																				
KIDNEY																				
Total TX. –all combinations included–	432	50.2	520	45.6	37	5.2	190	45.2	19	15.8	458	43.6	263	46.1	42	32.3	262	47.6	3615	55.9
% (TX. from living d. / Total TX.)	15.5		12.9		29.7		3.7		78.9		10.0		41.4		9.5		8.4		15.9	
Paediatric <15 years	7	0.8	16	1.4	0	0.0			0	0.0	6	0.6	7	1.2	1	0.8	10	1.8	86	1.3
TX. from deceased donors	365	42.4	453	39.7	26	3.7	183	43.6	4	3.3	412	39.2	154	27.0	38	29.2	240	43.6	3039	47.0
–TX. from DCD	10	1.2	118	10.4	0	0.0	0	0.0	0	0.0	4	0.4	0	0.0	0	0.0	0	0.0	145	2.2
–Single TX.	356	41.4	453	39.7	26	3.7	182	43.3			409	39.0	152	26.7	38	29.2	240	43.6	3005	46.4
–Double TX.	9	1.0	0	0.0	0	0.0	1	0.2			3	0.3	2	0.4	0	0.0	0	0.0	34	0.5
TX. from living donors	67	7.8	67	5.9	11	1.5	7	1.7	15	12.5	46	4.4	109	19.1	4	3.1	22	4.0	576	8.9
–TX. from Related living donors	62	7.2	64	5.6	11	1.5	7	1.7	15	12.5	42	4.0	109	19.1	4	3.1	22	4.0	572	8.8
–TX. from Unrelated living donors	5	0.5	3	0.3	0	0.0	0	0.0	0	0.0	4	0.4	0	0.0	0	0.0	0	0.0	4	0.1
LIVER																				
Total TX. –all combinations included–	154	17.9	302	26.5	11	1.5	121	28.8	0	0.0	179	17.0	59	10.4	10	7.7	61	11.1	1322	20.4
Paediatric <15 years	8	0.9	36	3.2	1	0.1			0	0.0	10	1.0	6	1.1	0	0.0	3	0.5	71	1.1
Split TX.	6	0.7	1	0.1	0	0.0			0	0.0	12	1.1	6	1.1	0	0.0	1	0.2	93	1.4
Domino TX.	0	0.0	3	0.3	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1
TX. from living donors	2	0.2	43	3.8	1	0.1	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	5	0.1
TX. from DCD	0	0.0	73	6.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	23	0.4
HEART																				
Total TX. –all combinations included–	57	6.6	70	6.1	9	1.3	35	8.3	0	0.0	78	7.4	29	5.1	0	0.0	31	5.6	490	7.6
Paediatric <15 years	2	0.2	2	0.2	0	0.0			0	0.0	3	0.3	3	0.5	0	0.0	3	0.5	19	0.3
HEART–LUNG																				
Total TX.	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0	13	0.2
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0
LUNG																				
Total TX. –all combinations included–	110	12.8	129	11.3	0	0.0	0	0.0	0	0.0	42	4.0	29	5.1	3	2.3	18	3.3	384	5.9
Paediatric <15 years	4	0.5	1	0.1	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	2	0.0
–Single TX.	3	0.3	3	0.3	0	0.0	0	0.0	0	0.0	6	0.6	3	0.5	0	0.0	0	0.0	41	0.6
–Double TX. (heart-lung TX. included)	107	12.4	126	11.1	0	0.0	0	0.0	0	0.0	36	3.4	26	4.6	3	2.3	18	3.3	343	5.3
TX. from living donors	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TX. from DCD (double + single)	1	0.1	35	3.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
PANCREAS																				
Total TX. –all combinations included–	26	3.0	11	1.0	0	0.0	7	1.7	0	0.0	41	3.9	7	1.2	2	1.5	27	4.9	90	1.4
Paediatric <15 years	0	0.0	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0			15	0.2
Pancreas TX. Alone	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	9	0.9	0	0.0	0	0.0	1	0.2	15	0.2
Kidney – Pancreas TX.	24	2.8	11	1.0	0	0.0	7	1.7	0	0.0	32	3.0	7	1.2	2	1.5	26	4.7	74	1.1
TX. from DCD	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SMALL BOWEL																				
Total TX. –all combinations included–	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	3	0.3	0	0.0	0	0.0	0	0.0	3	0.0
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Small bowel TX. Alone	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
RECIPIENTS																				
Total number of patients transplanted	750	87.2	1032	90.5	57	8.0	346	82.4	19	15.8	801	76.3	377	66.1	55	42.3	370	67.3	5681	87.8
Paediatric <15 years	21	2.4	55	4.8	1	0.1			0	0.0	20	1.9	16	2.8	1	0.8	16	2.9	169	2.6
Patients transplanted from living donors	69	8.0	110	9.6	12	1.7	7	1.7	15	12.5	47	4.5	109	19.1	4	3.1	22	4.0	581	9.0

DONATION AND TRANSPLANTATION ACTIVITY

EUROPEAN UNION COUNTRIES

COUNTRIES Population (million inhabitants): UNFPA	Germany 80.7		Greece 10.9		Hungary 9.8		Ireland 4.7		Italy 59.8		Latvia 2.0		Lithuania 2.9		Luxembourg 0.6		Malta 0.4	
DONATION	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**
Actual deceased organ donors –both DBD and DCD included–	857	10.6	51	4.7	182	18.6	77	16.4	1478	24.7	30	15.0	63	21.7	3	5.2	10	25.0
Actual donors after circulatory death –DCD–	0	0.0	0	0.0	0	0.0	3	0.6	20	0.3	11	5.5	2	0.7	0	0.0	0	0.0
Multiorgan donors	757	9.4	46	4.2	128	13.1	53	11.3	914	15.3	4	2.0	32	11.0	3	5.2	10	25.0
TRANSPLANTATION																		
KIDNEY																		
Total TX. –all combinations included–	2094	25.9	124	11.4	342	34.9	172	36.6	2076	34.7	59	29.5	111	38.3	0	0.0	20	50.0
% (TX. from living d. / Total TX.)	28.5		39.5		9.9		29.1		13.5		16.9		5.4		0.0		25.0	
Paediatric <15 years	64	0.8	3	0.3	10	1.0	7	1.5	59	1.0	0	0.0	3	1.0	0	0.0	0	0.0
TX. from deceased donors	1497	18.6	75	6.9	308	31.4	122	26.0	1796	30.0	49	24.5	105	36.2	0	0.0	15	37.5
–TX. from DCD	0	0.0	0	0.0	0	0.0	6	1.3	24	0.4	11	5.5	3	1.0	0	0.0	0	0.0
–Single TX.	1482	18.4	75	6.9	307	31.3	122	26.0	1668	27.9	49	24.5	105	36.2	0	0.0	15	37.5
–Double TX.	15	0.2	0	0.0	1	0.1	0	0.0	128	2.1	0	0.0	0	0.0	0	0.0	0	0.0
TX. from living donors	597	7.4	49	4.5	34	3.5	50	10.6	280	4.7	10	5.0	6	2.1	0	0.0	5	12.5
–TX. from Related living donors	593	7.3	49	4.5	34	3.5	50	10.6	278	4.6	10	5.0	6	2.1	0	0.0	4	10.0
–TX. from Unrelated living donors	4	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	1	2.5
LIVER																		
Total TX. –all combinations included–	888	11.0	21	1.9	81	8.3	58	12.3	1221	20.4	0	0.0	23	7.9	0	0.0	0	0.0
Paediatric <15 years	109	1.4	0	0.0	3	0.3	0	0.0	78	1.3	0	0.0	0	0.0	0	0.0	0	0.0
Split TX.	73	0.9	0	0.0	0	0.0	0	0.0	98	1.6	0	0.0	0	0.0	0	0.0	0	0.0
Domino TX.	12	0.1	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TX. from living donors	50	0.6	0	0.0	0	0.0	0	0.0	7	0.1	0	0.0	0	0.0	0	0.0	0	0.0
TX. from DCD	0	0.0	0	0.0	0	0.0	0	0.0	10	0.2	0	0.0	0	0.0	0	0.0	0	0.0
HEART																		
Total TX. –all combinations included–	297	3.7	6	0.6	58	5.9	15	3.2	266	4.4	3	1.5	15	5.2	0	0.0	1	2.5
Paediatric <15 years	33	0.4	0	0.0	2	0.2	0	0.0	26	0.4	1	0.5	2	0.7	0	0.0	0	0.0
HEART–LUNG																		
Total TX.	7	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0
Paediatric <15 years	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LUNG																		
Total TX. –all combinations included–	328	4.1	0	0.0	17	1.7	35	7.4	147	2.5	0	0.0	3	1.0	0	0.0	0	0.0
Paediatric <15 years	7	0.1	0	0.0	0	0.0	0	0.0	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0
–Single TX.	38	0.5	0	0.0	1	0.1	20	4.3	19	0.3	0	0.0	0	0.0	0	0.0	0	0.0
–Double TX. (heart–lung TX. included)	290	3.6	0	0.0	16	1.6	15	3.2	128	2.1	0	0.0	3	1.0	0	0.0	0	0.0
TX. from living donors	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TX. from DCD (double + single)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
PANCREAS																		
Total TX. –all combinations included–	97	1.2	0	0.0	6	0.6	0	0.0	67	1.1	0	0.0	2	0.7	0	0.0	0	0.0
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pancreas TX. Alone	10	0.1	0	0.0	0	0.0	0	0.0	10	0.2	0	0.0	0	0.0	0	0.0	0	0.0
Kidney – Pancreas TX.	85	1.1	0	0.0	6	0.6	0	0.0	56	0.9	0	0.0	2	0.7	0	0.0	0	0.0
TX. from DCD	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SMALL BOWEL																		
Total TX. –all combinations included–	4	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Paediatric <15 years			0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Small bowel TX. Alone	2	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0
RECIPIENTS																		
Total number of patients transplanted	3586	44.4	151	13.9	492	50.2	280	59.6	3608	61.8	62	31.0	151	52.1	0	0.0	21	52.5
Paediatric <15 years			3	0.3	15	1.5	7	1.5	167	2.8	1	0.5	5	1.7	0	0.0	0	0.0
Patients transplanted from living donors	647	8.0	49	4.5	34	3.5	50	10.6	287	4.8	10	5.0	6	2.1	0	0.0	5	12.5

DONATION AND TRANSPLANTATION ACTIVITY

EUROPEAN UNION COUNTRIES

COUNTRIES Population (million inhabitants): UNFPA	Netherlands 17.0		Poland 38.6		Portugal 10.3		Romania 19.4		Slovakia 5.4		Slovenia 2.1		Spain 46.1		Sweden 9.9		United Kingdom 65.1	
DONATION																		
	Number	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**
Actual deceased organ donors –both DBD and DCD included–	250	14.7	542	14.0	337	32.7	124	6.4	72	13.3	42	20.0	2019	43.8	195	19.7	1401	21.5
Actual donors after circulatory death –DCD–	132	7.8	7	0.2	10	1.0	0	0.0	0	0.0	0	0.0	495	10.7	0	0.0	603	9.3
Multiorgan donors	187	11.0	356	9.2	223	21.7	93	4.8	46	8.5	32	15.2	1403	30.4	141	14.2	1019	15.7
TRANSPLANTATION																		
KIDNEY																		
Total TX. –all combinations included–	991	58.3	1108	28.7	499	48.4	265	13.7	143	26.5	46	21.9	2997	65.0	425	42.9	3328	51.1
% (TX. from living d. / Total TX.)		57.0		4.5		13.0		100.0		13.3		4.3		11.4		31.8		30.6
Paediatric <15 years	20	1.2	37	1.0	13	1.3	2	0.1	2	0.4	1	0.5	53	1.1	13	1.3	109	1.7
TX. from deceased donors	426	25.1	1058	27.4	434	42.1	224	11.5	124	23.0	44	21.0	2654	57.6	290	29.3	2310	35.5
–TX. from DCD	210	12.4	12	0.3	12	1.2	0	0.0	0	0.0	0	0.0	677	14.7	0	0.0	954	14.7
–Single TX.	425	25.0	1057	27.4	407	39.5	224	11.5	123	22.8	44	21.0	2642	57.3	287	29.0	2256	34.7
–Double TX.	1	0.1	1	0.0	27	2.6	0	0.0	1	0.2	0	0.0	12	0.3	3	0.3	54	0.8
TX. from living donors	565	33.2	50	1.3	65	6.3	41	2.1	19	3.5	2	1.0	343	7.4	135	13.6	1018	15.6
–TX. from Related living donors	442	26.0	48	1.2	65	6.3	41	2.1	19	3.5	2	1.0	319	6.9	133	13.4	819	12.6
–TX. from Unrelated living donors	123	7.2	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	24	0.5	2	0.2	199	3.1
LIVER																		
Total TX. –all combinations included–	159	9.4	345	8.9	272	26.4	97	5.0	37	6.9	27	12.9	1159	25.1	199	20.1	956	14.7
Paediatric <15 years	26	1.5	39	1.0	10	1.0	0	0.0	0	0.0	0	0.0	59	1.3	18	1.8	99	1.5
Split TX.	2	0.1	0	0.0	5	0.5	0	0.0	0	0.0	0	0.0	2	0.0	24	2.4	101	1.6
Domino TX.	0	0.0	0	0.0	15	1.5	0	0.0	0	0.0	0	0.0	5	0.1	0	0.0	3	0.0
TX. from living donors	12	0.7	28	0.7	0	0.0	5	0.3	0	0.0	0	0.0	28	0.6	2	0.2	32	0.5
TX. from DCD	44	2.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	134	2.9	0	0.0	213	3.3
HEART																		
Total TX. –all combinations included–	35	2.1	101	2.6	42	4.1	11	0.6	20	3.7	31	14.8	281	6.1	64	6.5	209	3.2
Paediatric <15 years	2	0.1	6	0.2	0	0.0	1	0.1	0	0.0	0	0.0	20	0.4	7	0.7	34	0.5
HEART–LUNG																		
Total TX.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1	0	0.0	2	0.0
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LUNG																		
Total TX. –all combinations included–	73	4.3	35	0.9	26	2.5	0	0.0	0	0.0	0	0.0	307	6.7	62	6.3	168	2.6
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	0.2	1	0.1	7	0.1
–Single TX.	9	0.5	15	0.4	7	0.7	0	0.0	0	0.0	0	0.0	109	2.4	8	0.8	21	0.3
–Double TX. (heart–lung TX. included)	64	3.8	20	0.5	19	1.8	0	0.0	0	0.0	0	0.0	198	4.3	54	5.5	147	2.3
TX. from living donors	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TX. from DCD (double + single)	31	1.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	33	0.7	0	0.0	22	0.3
PANCREAS																		
Total TX. –all combinations included–	25	1.5	38	1.0	25	2.4	1	0.1	0	0.0	5	2.4	73	1.6	24	2.4	177	2.7
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	1	0.1	3	0.0
Pancreas TX. Alone	5	0.3	7	0.2	1	0.1	0	0.0	0	0.0	0	0.0	7	0.2	8	0.8	16	0.2
Kidney – Pancreas TX.	19	1.1	31	0.8	24	2.3	1	0.1	0	0.0	5	2.4	63	1.4	16	1.6	147	2.3
TX. from DCD			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	45	0.7
SMALL BOWEL																		
Total TX. –all combinations included–	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1	2	0.2	15	0.2
Paediatric <15 years			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	4	0.1
Small bowel TX. Alone			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	1	0.0
RECIPIENTS																		
Total number of patients transplanted	1265	74.4	1545	40.0	814	79.0	374	19.3	200	37.0	103	49.0	4714	102.3	759	76.7	4692	72.1
Paediatric <15 years	48	2.8	82	2.1	23	2.2	4	0.2	2	0.4	1	0.5	139	3.0	39	3.9	244	3.7
Patients transplanted from living donors	577	33.9	78.00	2.0	65	6.3	46	2.4	19	3.5	2	1.0	371	8.0	137	13.8	1050	16.1

DONATION AND TRANSPLANTATION ACTIVITY

OTHER COUNTRIES

COUNTRIES	Armenia		Australia		Belarus		Bosnia and Herzegovina		Canada		Georgia		Iceland		Israel		Kuwait		Malaysia		Montenegro	
Population (million inhabitants): UNFPA	3.0		24.3		9.5		3.8		36.3		4.0		0.3		8.2		4.0		30.8		0.6	
DONATION																						
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Actual deceased organ donors –both DBD and DCD included–	0	0.0	503	20.7	222	23.4	5	1.3	731	20.1	0	0.0	9	30.0	85	10.4	18	4.5	6	0.2	0	0.0
Actual donors after circulatory death –DCD–	0	0.0	128	5.3	0	0.0	0	0.0			0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0
Multiorgan donors	0	0.0			154	16.2	5	1.3			0	0.0	5	16.7	63	7.7	1	0.3	1	0.0	0	0.0
TRANSPLANTATION																						
KIDNEY																						
Total TX. –all combinations included–	7	2.3	1086	44.7	384	40.4	18	4.7	1730	47.7	19	4.8	5	16.7	352	42.9	77	19.3	48	1.6	2	3.3
% (TX. from living d. / Total TX.)	100.0		24.4		4.7		44.4		27.2		100.0		100.0		63.1		61.0		81.3		0.0	
Paediatric <15 years	0	0.0	19	0.8	16	1.7	0	0.0			0	0.0	0	0.0	19	2.3	2	0.5	0	0.0	0	0.0
TX. from deceased donors	0	0.0	821	33.8	366	38.5	10	2.6	1259	34.7	0	0.0	0	0.0	130	15.9	30	7.5	9	0.3	0	0.0
–TX. from DCD	0	0.0	195	8.0	0	0.0	0	0.0			0	0.0	0	0.0	4	0.5	0	0.0	0	0.0	0	0.0
–Single TX.	0	0.0	801	33.0	366	38.5					0	0.0	0	0.0	124	15.1	30	7.5	9	0.3	0	0.0
–Double TX.	0	0.0	20	0.8	0	0.0					0	0.0	0	0.0	6	0.7	0	0.0	0	0.0	0	0.0
TX. from living donors	7	2.3	265	10.9	18	1.9	8	2.1	471	13.0	19	4.8	5	16.7	222	27.1	47	11.8	39	1.3	2	3.3
–TX. from Related living donors	7	2.3	219	9.0	18	1.9					19	4.8	5	16.7	93	11.3	47	11.8	39	1.3	2	3.3
–TX. from Unrelated living donors	0	0.0	46	1.9	0	0.0					0	0.0	0	0.0	129	15.7	0	0.0	0	0.0	0	0.0
LIVER																						
Total TX. –all combinations included–	0	0.0	314	12.9	70	7.4	3	0.8	580	16.0	13	3.3	0	0.0	84	10.2	0	0.0	1	0.0	0	0.0
Paediatric <15 years	0	0.0	56	2.3	9	0.9	0	0.0			0	0.0	0	0.0	15	1.8	0	0.0	0	0.0	0	0.0
Split TX.	0	0.0	65	2.7	0	0.0	0	0.0			0	0.0	0	0.0	5	0.6	0	0.0	0	0.0	0	0.0
Domino TX.	0	0.0	0	0.0	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TX. from living donors	0	0.0	2	0.1	6	0.6	0	0.0	73	2.0	13	3.3	0	0.0	8	1.0	0	0.0	0	0.0	0	0.0
TX. from DCD	0	0.0	15	0.6	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
HEART																						
Total TX. –all combinations included–	0	0.0	125	5.1	44	4.6	0	0.0	204	5.6	0	0.0	0	0.0	22	2.7	0	0.0	0	0.0	0	0.0
Paediatric <15 years	0	0.0	16	0.7	0	0.0	0	0.0			0	0.0	0	0.0	3	0.4	0	0.0	0	0.0	0	0.0
HEART–LUNG																						
Total TX.	0	0.0	7	0.3	1	0.1	0	0.0	5	0.1	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
Paediatric <15 years	0	0.0	1	0.0	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LUNG																						
Total TX. –all combinations included–	0	0.0	199	8.2	2	0.2	0	0.0	302	8.3	0	0.0	0	0.0	50	6.1	0	0.0	0	0.0	0	0.0
Paediatric <15 years	0	0.0	16	0.7	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
–Single TX.	0	0.0	6	0.2	0	0.0	0	0.0			0	0.0	0	0.0	23	2.8	0	0.0	0	0.0	0	0.0
–Double TX. (heart–lung TX. included)	0	0.0	193	7.9	2	0.2	0	0.0			0	0.0	0	0.0	27	3.3	0	0.0	0	0.0	0	0.0
TX. from living donors	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TX. from DCD (double + single)	0	0.0	44	1.8	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
PANCREAS																						
Total TX. –all combinations included–	0	0.0	51	2.1	2	0.2	0	0.0	95	2.6	0	0.0	0	0.0	12	1.5	1	0.3	0	0.0	0	0.0
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pancreas TX. Alone	0	0.0	5	0.2	0	0.0	0	0.0	34	0.9	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0
Kidney – Pancreas TX.	0	0.0	46	1.9	2	0.2	0	0.0	61	1.7	0	0.0	0	0.0	10	1.2	1	0.3	0	0.0	0	0.0
TX. from DCD	0	0.0	0	0.0	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SMALL BOWEL																						
Total TX. –all combinations included–	0	0.0	1	0.0	0	0.0	0	0.0	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Small bowel TX. Alone	0	0.0	0	0.0	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
RECIPIENTS																						
Total number of patients transplanted	7	2.3	1716	70.6	497	52.3	21	5.5	2897	79.8	32	8.0	5	16.7	504	61.5	77	19.3	49	1.6	2	3.3
Paediatric <15 years	0	0.0	107	4.4	25	2.6	0	0.0			0	0.0	0	0.0	37	4.5	2	0.5	0	0.0	0	0.0
Patients transplanted from living donors	7	2.3	268	11.03	24	2.5	8	2.1	544	15.0	32	8.0	5	16.7	230	28.0	47	11.8	39	1.3	2	3.3

DONATION AND TRANSPLANTATION ACTIVITY

OTHER COUNTRIES

COUNTRIES	New Zealand		Norway		Republic of Moldova		Russian Federation		Saudi Arabia		Sudan		Switzerland		Syrian Arab Republic		The former Yugoslav Rep. of Macedonia		Turkey		United States of America	
Population (million inhabitants): UNFPA	4.6		5.3		4.1		143.4		32.2		41.2		8.4		18.6		2.1		79.6		324.1	
DONATION																						
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Actual deceased organ donors –both DBD and DCD included–	61	13.3	111	20.9	13	3.2	487	3.4	92	2.9	0	0.0	111	13.2	0	0.0	0	0.0	562	7.1	9970	30.8
Actual donors after circulatory death –DCD–	6	1.3	2	0.4	0	0.0	55	0.4	1	0.0	0	0.0	15	1.8	0	0.0	0	0.0	0	0.0	1684	5.2
Multiorgan donors	46	10.0	85	16.0	6	1.5	312	2.2	59	1.8	0	0.0	84	10.0	0	0.0	0	0.0	449	5.6	7738	23.9
TRANSPLANTATION																						
KIDNEY																						
Total TX. –all combinations included–	172	37.4	240	45.3	22	5.4	1084	7.6	796	24.7	224	5.4	305	36.3	211	11.3	6	2.9	3423	43.0	19858	61.3
% (TX. from living d. / Total TX.)	47.7		19.6		36.4		21.4		84.5		100.0		39.3		100.0		100.0		77.1		28.3	
Paediatric <15 years	6	1.3	8	1.5	0	0.0	81	0.6			15	0.4	5	0.6	13	0.7	0	0.0	172	2.2	489	1.5
TX. from deceased donors	90	19.6	193	36.4	14	3.4	852	5.9	123	3.8	0	0.0	185	22.0	0	0.0	0	0.0	784	9.8	14229	43.9
–TX. from DCD	10	2.2	4	0.8	0	0.0			2	0.1	0	0.0	21	2.5	0	0.0	0	0.0	0	0.0	2559	7.9
–Single TX.	85	18.5	193	36.4	13	3.2			121	3.8	0	0.0	179	21.3	0	0.0	0	0.0	780	9.8	13951	43.0
–Double TX.	5	1.1	0	0.0	1	0.2			2	0.1	0	0.0	6	0.7	0	0.0	0	0.0	4	0.1	278	0.9
TX. from living donors	82	17.8	47	8.9	8	2.0	232	1.6	673	20.9	224	5.4	120	14.3	211	11.3	6	2.9	2639	33.2	5629	17.4
–TX. from Related living donors	76	16.5	47	8.9	7	1.7	232	1.6	584	18.1	221	5.4			86	4.6	6	2.9	2358	29.6	4555	14.1
–TX. from Unrelated living donors	6	1.3	0	0.0	1	0.2	0	0.0	89	2.8	3	0.1			125	6.7	0	0.0	281	3.5	1074	3.3
LIVER																						
Total TX. –all combinations included–	59	12.8	100	18.9	9	2.2	378	2.6	215	6.7	0	0.0	108	12.9	1	0.1	0	0.0	1396	17.5	7841	24.2
Paediatric <15 years	11	2.4	10	1.9	0	0.0	96	0.7	8	0.2	0	0.0	5	0.6	0	0.0	0	0.0	215	2.7	515	1.6
Split TX.	3	0.7	11	2.1	0	0.0			12	0.4	0	0.0	16	1.9	0	0.0	0	0.0	6	0.1	186	0.6
Domino TX.	1	0.2	0	0.0	0	0.0			1	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	9	0.0
TX. from living donors	3	0.7	0	0.0	1	0.2	149	1.0	145	4.5	0	0.0	11	1.3	1	0.1	0	0.0	1004	12.6	345	1.1
TX. from DCD	2	0.4	2	0.4	0	0.0			0	0.0	0	0.0	7	0.8	0	0.0	0	0.0	0	0.0	447	1.4
HEART																						
Total TX. –all combinations included–	11	2.4	21	4.0	0	0.0	220	1.5	29	0.9	0	0.0	41	4.9	0	0.0	0	0.0	69	0.9	3209	9.9
Paediatric <15 years	0	0.0	1	0.2	0	0.0	2	0.0	3	0.1	0	0.0	4	0.5	0	0.0	0	0.0	10	0.1	376	1.2
HEART–LUNG																						
Total TX.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	18	0.1
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LUNG																						
Total TX. –all combinations included–	17	3.7	34	6.4	0	0.0	16	0.1	16	0.5	0	0.0	48	5.7	0	0.0	0	0.0	22	0.3	2345	7.2
Paediatric <15 years	0	0.0	0	0.0	0	0.0	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	24	0.1
–Single TX.	0	0.0	0	0.0	0	0.0			1	0.0	0	0.0	1	0.1	0	0.0	0	0.0			588	1.8
–Double TX. (heart–lung TX. included)	17	3.7	34	6.4	0	0.0			15	0.5	0	0.0	47	5.6	0	0.0	0	0.0			1757	5.4
TX. from living donors	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TX. from DCD (double + single)	0	0.0	0	0.0	0	0.0			0	0.0	0	0.0	4	0.5	0	0.0	0	0.0	0	0.0	93	0.3
PANCREAS																						
Total TX. –all combinations included–	4	0.9	20	3.8	0	0.0	6	0.0	11	0.3	0	0.0	11	1.3	0	0.0	0	0.0	6	0.1	1013	3.1
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	36	0.1
Pancreas TX. Alone	0	0.0	4	0.8	0	0.0			6	0.2	0	0.0	1	0.1	0	0.0	0	0.0	5	0.1	215	0.7
Kidney – Pancreas TX.	4	0.9	16	3.0	0	0.0			4	0.1	0	0.0	9	1.1	0	0.0	0	0.0	1	0.0	798	2.5
TX. from DCD	0	0.0	0	0.0	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	21	0.1
SMALL BOWEL																						
Total TX. –all combinations included–	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1	147	0.5
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	55	0.2
Small bowel TX. Alone	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1	67	0.2
RECIPIENTS																						
Total number of patients transplanted	255	55.4	397	74.9	31	7.6	1704	11.9	1061	33.0	224	5.4	504	60.0	212	11.4	6	2.9	4895	61.5	32356	99.8
Paediatric <15 years	17	3.7	19	3.6	0	0.0	181	1.3			15	0.4	14	1.7	13	0.7	0	0.0	388	4.9	1393	4.3
Patients transplanted from living donors	85	18.5	47	8.9	9	2.2	381	2.7	818	25.4	224	5.4	131	15.6	212	11.4	6	2.9	3630	45.6	5969	18.4

DONATION AND TRANSPLANTATION ACTIVITY

LATINAMERICAN COUNTRIES

COUNTRIES Population (million inhabitants): UNFPA	Argentina 43.8		Brazil 209.6		Chile 18.1		Colombia 48.7		Costa Rica 4.9		Cuba 11.4		Dominican Republic 10.6	
DONATION														
	Number	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**
Actual deceased organ donors –both DBD and DCD included–	515	11.8	2983	14.2	134	7.4	343	7.0	23	4.7	149	13.1	15	1.4
Actual donors after circulatory death –DCD–	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Multiorgan donors	327	7.5	2086	10.0	76	4.2	272	5.6	10	2.0	19	1.7	3	0.3
TRANSPLANTATION														
KIDNEY														
Total TX. –all combinations included–	1150	26.3	5600	26.7	304	16.8	762	15.6	110	22.4	185	16.2	56	5.3
% (TX. from living d. / Total TX.)	35.1		21.4		27.0		16.4		61.8		13.5		51.8	
Paediatric <15 years	63	1.4	310	1.5	19	1.0	27	0.6	7	1.4	3	0.3	0	0.0
TX. from deceased donors	746	17.0	4400	21.0	222	12.3	637	13.1	42	8.6	160	14.0	27	2.5
–TX. from DCD	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
–Single TX.	743	16.9	4362	20.8	221	12.2	636	13.1	42	8.6	160	14.0	27	2.5
–Double TX.	3	0.1	38	0.2	1	0.1	1	0.0	0	0.0	0	0.0	0	0.0
TX. from living donors	404	9.2	1200	5.7	82	4.5	125	2.6	68	13.9	25	2.2	29	2.7
–TX. from Related living donors	392	8.9	1120	5.3	82	4.5	116	2.4	54	11.0	23	2.0	20	1.9
–TX. from Unrelated living donors	12	0.3	80	0.4	0	0.0	9	0.2	14	2.9	2	0.2	9	0.8
LIVER														
Total TX. –all combinations included–	368	8.4	1880	9.0	93	5.1	240	4.9	13	2.7	20	1.8	3	0.3
Paediatric <15 years	71	1.6	180	0.9	22	1.2	37	0.8	4	0.8	7	0.6	0	0.0
Split TX.	41	0.9					6	0.1	0	0.0	0	0.0	0	0.0
Domino TX.	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TX. from living donors	38	0.9	157	0.7	14	0.8	41	0.8	3	0.6	2	0.2	0	0.0
TX. from DCD	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
HEART														
Total TX. –all combinations included–	115	2.6	357	1.7	23	1.3	58	1.2	5	1.0	2	0.2	0	0.0
Paediatric <15 years	10	0.2	32	0.2	1	0.1	2	0.0	0	0.0	0	0.0	0	0.0
HEART–LUNG														
Total TX.	1	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LUNG														
Total TX. –all combinations included–	34	0.8	92	0.4	19	1.0	16	0.3	2	0.4	0	0.0	0	0.0
Paediatric <15 years	1	0.0	5	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
–Single TX.	16	0.4	31	0.1	15	0.8	3	0.1			0	0.0	0	0.0
–Double TX. (heart–lung TX. included)	18	0.4	61	0.3	4	0.2	13	0.3			0	0.0	0	0.0
TX. from living donors	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TX. from DCD (double + single)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
PANCREAS														
Total TX. –all combinations included–	48	1.1	134	0.6	4	0.2	5	0.1	0	0.0	0	0.0	0	0.0
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pancreas TX. Alone	2	0.0	26	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Kidney – Pancreas TX.	46	1.1	108	0.5	4	0.2	5	0.1	0	0.0	0	0.0	0	0.0
TX. from DCD	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SMALL BOWEL														
Total TX. –all combinations included–	4	0.1	1	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0
Paediatric <15 years	3	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Small bowel TX. Alone	4	0.1	0	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0
RECIPIENTS														
Total number of patients transplanted	1719	39.2	7924	37.8	432	23.9	1068	21.9	130	26.5	207	18.2	59	5.6
Paediatric <15 years	148	3.4	527	2.5	41	2.3	66	1.4	11	2.2	10	0.9	0	0.0
Patients transplanted from living donors	442	10.1	1357	6.5	96	5.3	166	3.4	71	14.5	27	2.4	29	2.7

DONATION AND TRANSPLANTATION ACTIVITY

LATINAMERICAN COUNTRIES

COUNTRIES Population (million inhabitants): UNFPA	Ecuador 16.4		Guatemala 16.7		Honduras 8.2		Mexico 128.6		Panama 4.0		Paraguay 6.7		Uruguay 3.4	
DONATION														
	Number	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**	**Number**	**PMP**
Actual deceased organ donors –both DBD and DCD included–	83	5.1	8	0.5	0	0.0	470	3.7	29	7.3	11	1.6	57	16.8
Actual donors after circulatory death –DCD–	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Multiorgan donors	31	1.9			0	0.0	452	3.5	10	2.5	6	0.9	22	6.5
TRANSPLANTATION														
KIDNEY														
Total TX. –all combinations included–	139	8.5	122	7.3	9	1.1	2971	23.1	53	13.3	47	7.0	118	34.7
% (TX. from living d. / Total TX.)	4.3		87.7		100.0		71.4		11.3		53.2		11.9	
Paediatric <15 years	4	0.2	14	0.8	5	0.6	150	1.2	0	0.0	3	0.4	0	0.0
TX. from deceased donors	133	8.1	15	0.9	0	0.0	851	6.6	47	11.8	22	3.3	104	30.6
–TX. from DCD	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
–Single TX.					0	0.0	844	6.6	0	0.0	22	3.3	104	30.6
–Double TX.					0	0.0	7	0.1	0	0.0	0	0.0	0	0.0
TX. from living donors	6	0.4	107	6.4	9	1.1	2120	16.5	6	1.5	25	3.7	14	4.1
–TX. from Related living donors	6	0.4	94	5.6	9	1.1	1795	14.0	6	1.5	25	3.7	14	4.1
–TX. from Unrelated living donors	0	0.0	13	0.8	0	0.0	325	2.5	0	0.0	0	0.0	0	0.0
LIVER														
Total TX. –all combinations included–	31	1.9	0	0.0	0	0.0	178	1.4	11	2.8	6	0.9	25	7.4
Paediatric <15 years	0	0.0	0	0.0	0	0.0	20	0.2	0	0.0	0	0.0	6	1.8
Split TX.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Domino TX.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TX. from living donors	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	0	0.0	2	0.6
TX. from DCD	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
HEART														
Total TX. –all combinations included–	0	0.0	0	0.0	0	0.0	34	0.3	1	0.3	2	0.3	6	1.8
Paediatric <15 years	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	1	0.3
HEART–LUNG														
Total TX.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LUNG														
Total TX. –all combinations included–	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	3	0.9
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
–Single TX.	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0		
–Double TX. (heart–lung TX. included)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		
TX. from living donors	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		
TX. from DCD (double + single)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
PANCREAS														
Total TX. –all combinations included–	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	0	0.0	2	0.6
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pancreas TX. Alone	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	0	0.0	0	0.0
Kidney – Pancreas TX.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.6
TX. from DCD	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SMALL BOWEL														
Total TX. –all combinations included–	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Small bowel TX. Alone	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
RECIPIENTS														
Total number of patients transplanted	170	10.4	122	7.3	9	1.1	3186	24.8	65	16.3	55	8.2	154	45.3
Paediatric <15 years	4	0.2	14	0.8	5	0.6	171	1.3	0	0.0	3	0.4	7	2.1
Patients transplanted from living donors	6	0.4	107	6.4	9	1.1	2123	16.5	6	1.5	25	3.7	16	4.7

Actividad de donación

1. Actividad de donación

Durante 2017, se registraron en España 2.183 donantes eficaces de órganos, lo que sitúa la tasa por millón de población en 46,9. De ellos, 277 fueron donantes en los que ningún órgano pudo ser finalmente utilizado, lo que arroja una cifra de donación efectiva de 1906 y una tasa de 40,9 donantes efectivos p.m.p., de los que al menos un órgano fue trasplantado. Estos mismos datos en 2016 fueron de 276 donantes no efectivos y tasa de donación efectiva de 37,4 donantes p.m.p.

Desde el año 2010, la tendencia en las cifras de donación ha sido ascendente, superando las tasas de donación de años previos, por encima de 35 donaciones p.m.p de forma mantenida en los últimos seis años. Es destacable el incremento de la donación en asistolia que en el año 2017 ha supuesto el 26% de los donantes eficaces.

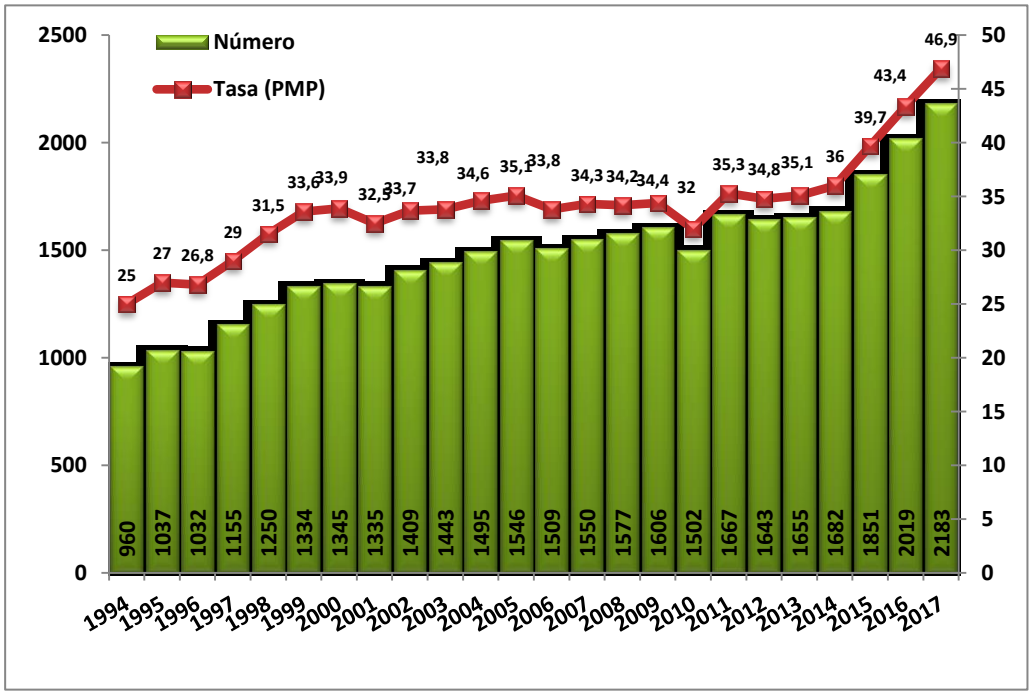


Figura 1. Número de donantes y tasa de donación. 1994-2017

La figura 2 muestra la evolución de la actividad de donación en función del tipo de donante (muerte encefálica o asistolia) desde el año 1994.

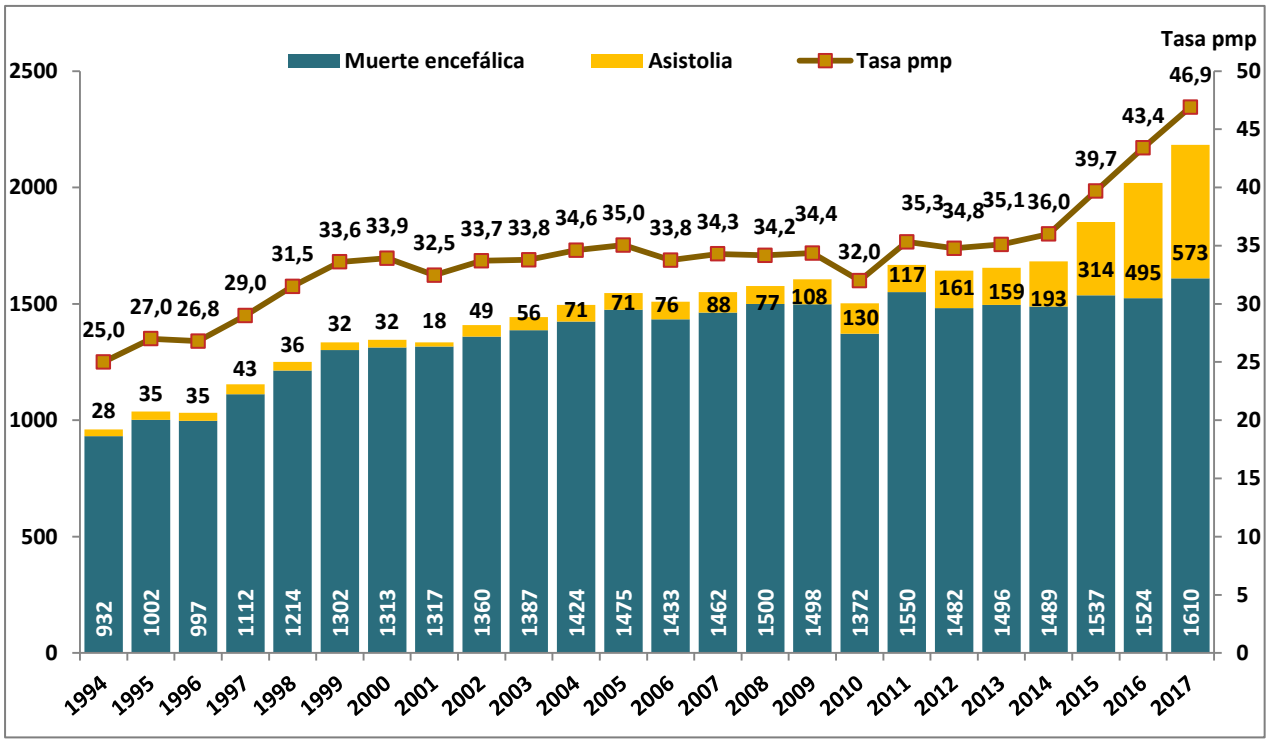


Figura 2. Evolución de la actividad de donación en asistolia sobre el total de donantes. España 1994-2017.

En la Fig. 3 podemos observar la diferente distribución de la tasa de donación en las 17 CCAA, de las cuales en 9 se supera la media nacional de donación.

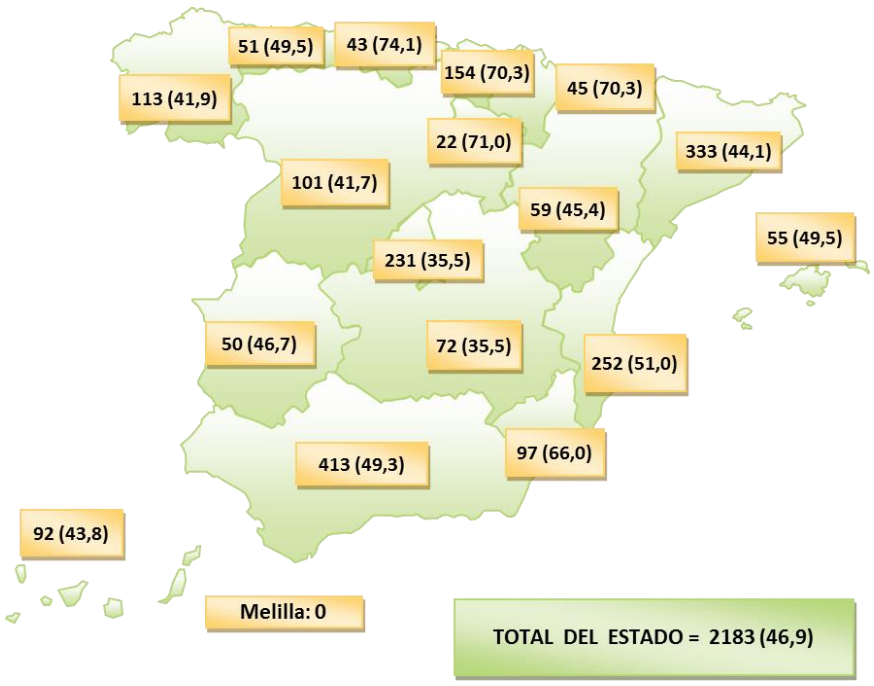


Figura 3. Donantes de órganos por CCAA: Número absoluto (Tasa Anual p.m.p). 2017.

2. Características de los donantes

La edad media de los donantes durante 2017 fue de 60 años (DE 16.1), manteniendo valores similares a los de años anteriores, aunque con tendencia creciente.

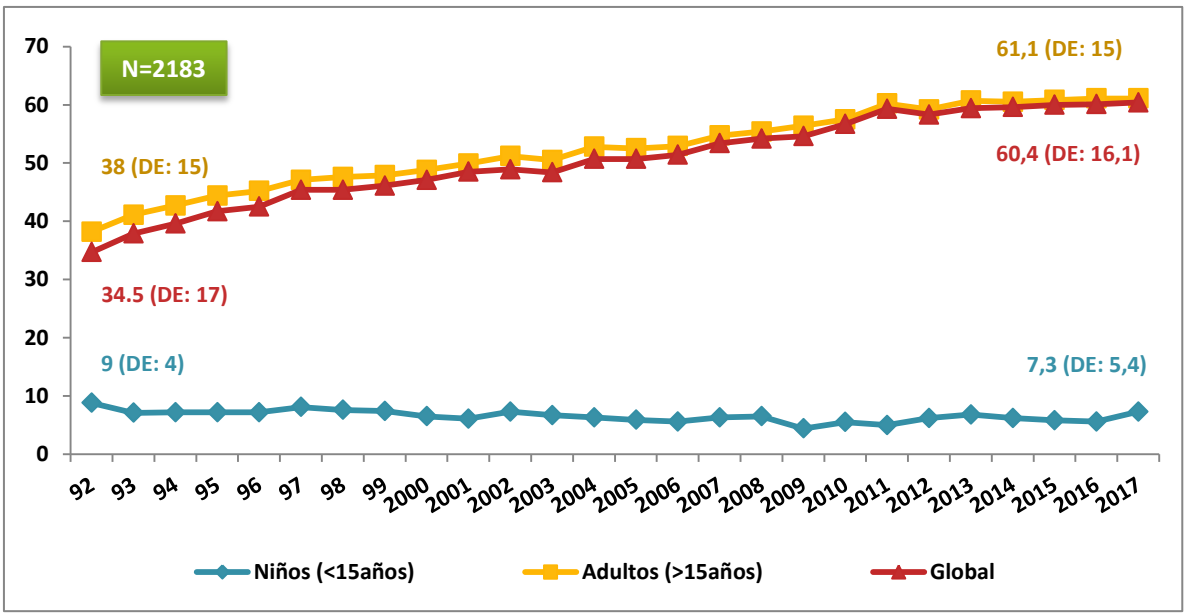


Figura 4. Evolución de la edad media de los donantes (DE-Desviación Estándar). 1992-2017

Las figuras 5 y 6 recogen la distribución por edad y por grupos de edad y CCAA en el año 2017.

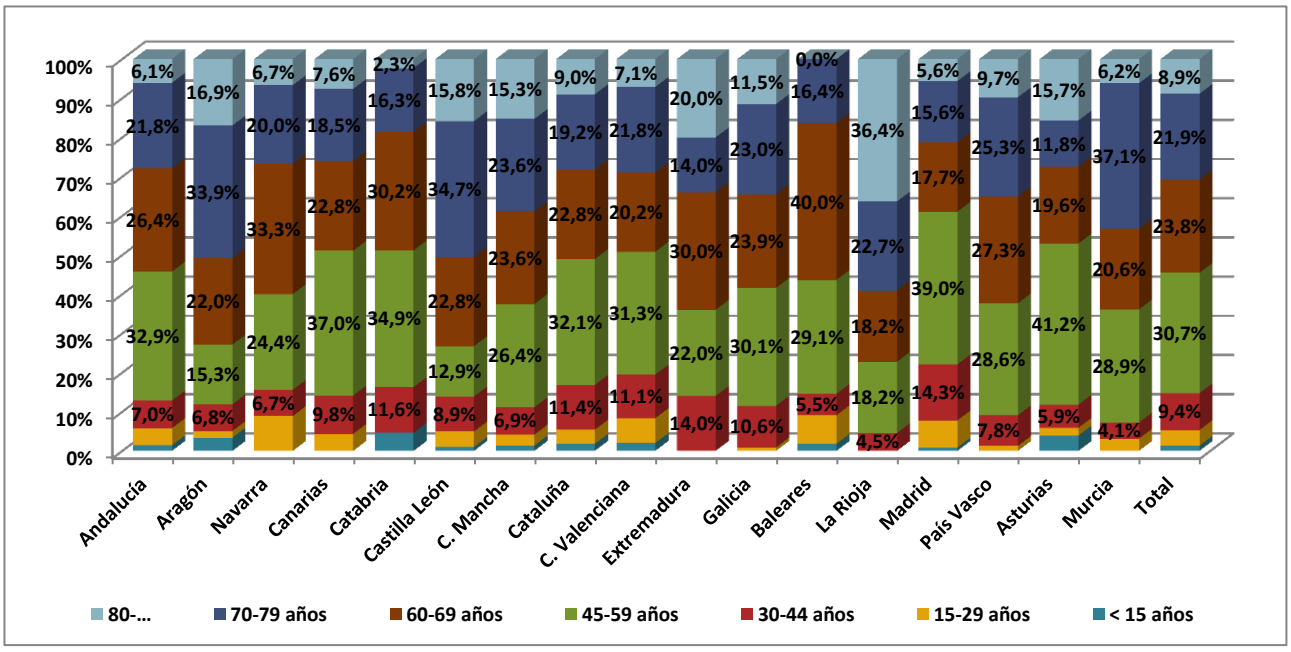


Figura 5. Grupos de edad de los donantes por CC.AA. 2017

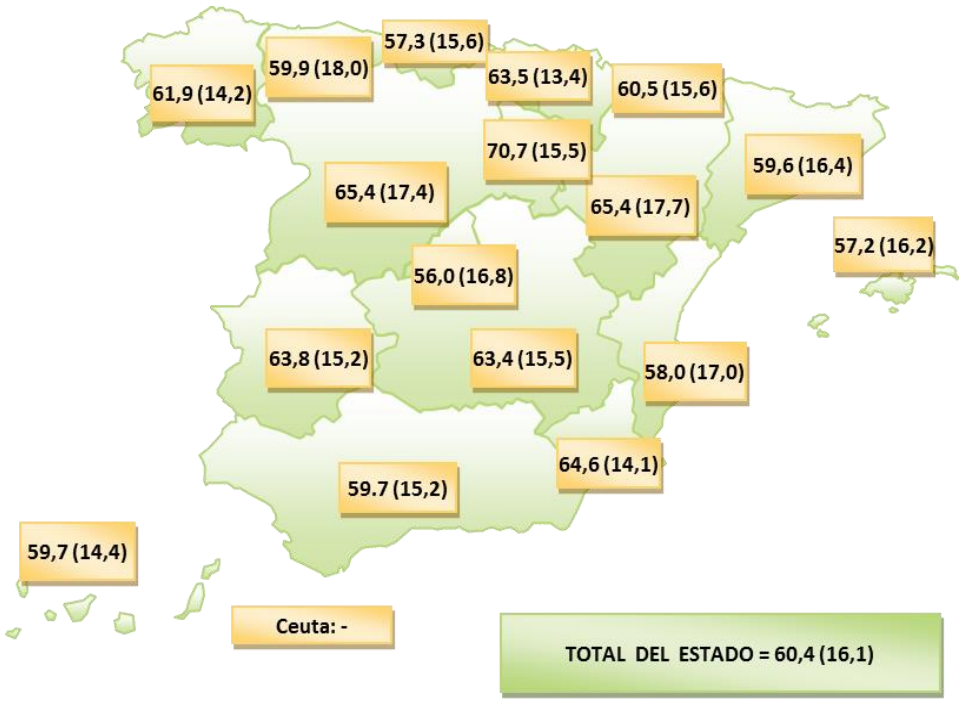


Figura 6. Edad media (años) de los donantes por CCAA. España 2017

En cuanto a la distribución por género, se mantiene el predominio masculino (60%) así como el grupo sanguíneo A (43%). Figs. 7 y 8.

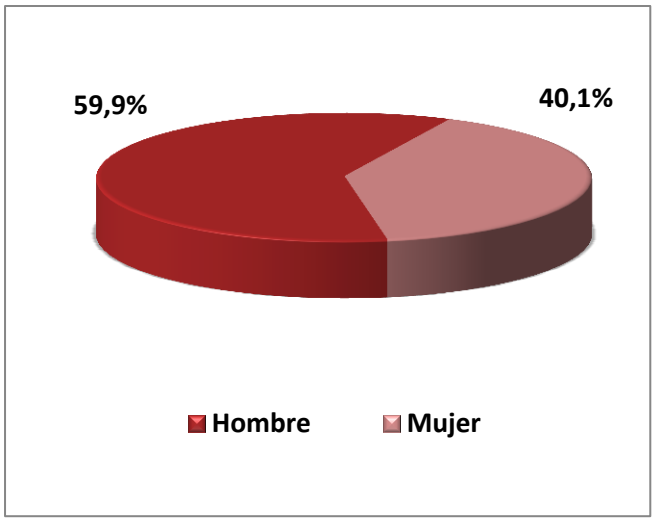


Figura 7. Distribución de los donantes por sexo (%). 2017

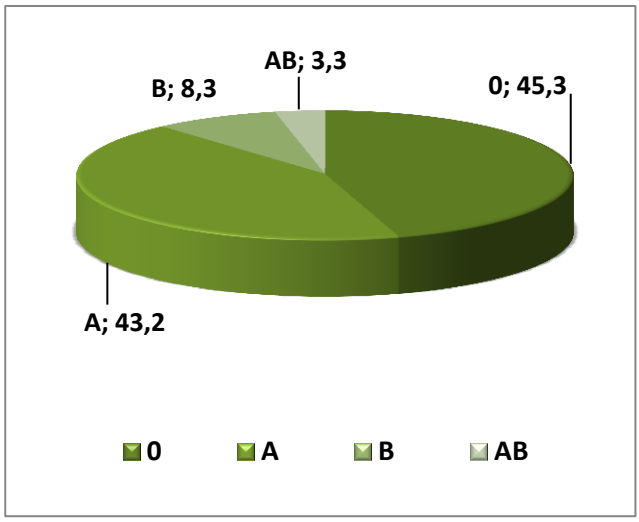
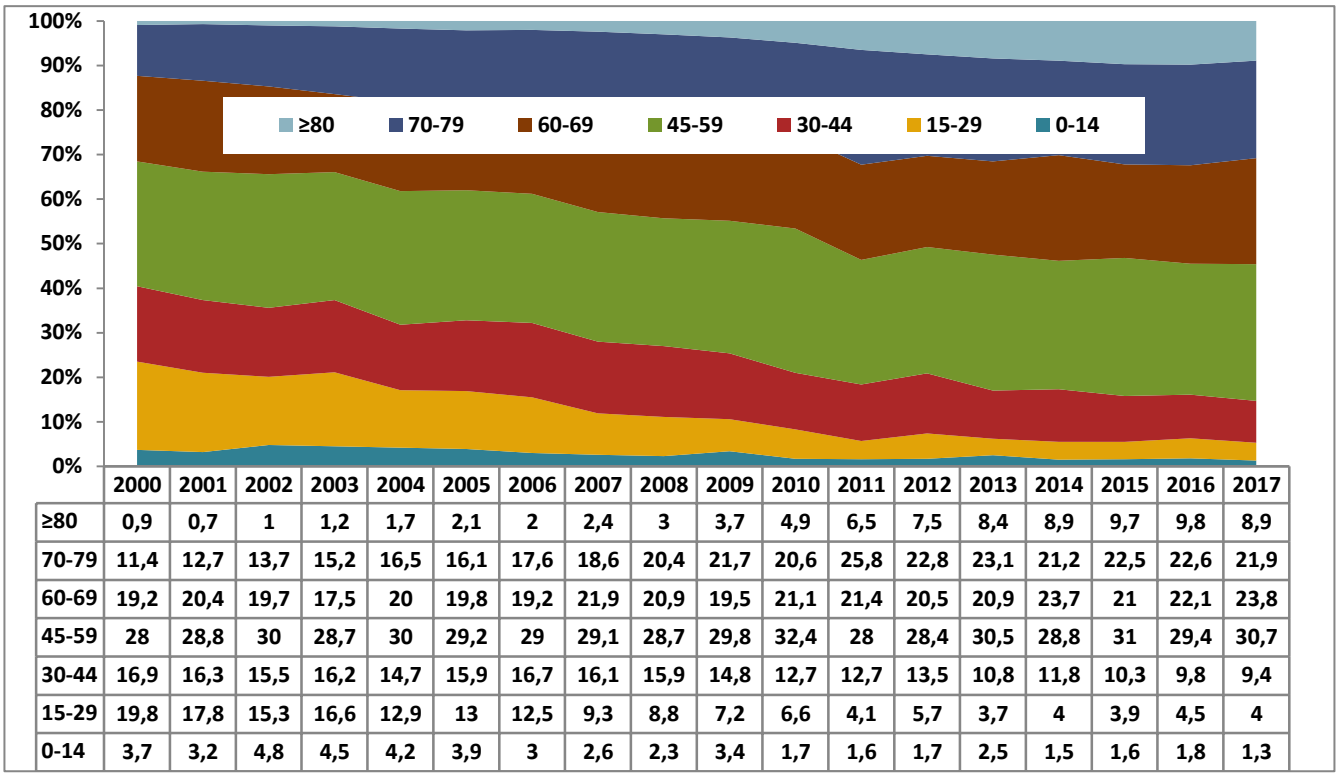


Figura 8. Distribución de los donantes por grupo sanguíneo (%). 2017

En este momento, el 85% de los donantes tienen más de 45 años y el 55% más de 60 (Fig. 9). La causa de muerte más frecuente entre los donantes es el accidente cerebrovascular (61,1%). Los traumatismos craneoencefálicos producidos por accidentes de tráfico suponen el 4,2% y los traumatismos craneoencefálicos no tráfico el 9,8% (Fig. 10).



	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
≥80	0,9	0,7	1	1,2	1,7	2,1	2	2,4	3	3,7	4,9	6,5	7,5	8,4	8,9	9,7	9,8	8,9
70-79	11,4	12,7	13,7	15,2	16,5	16,1	17,6	18,6	20,4	21,7	20,6	25,8	22,8	23,1	21,2	22,5	22,6	21,9
60-69	19,2	20,4	19,7	17,5	20	19,8	19,2	21,9	20,9	19,5	21,1	21,4	20,5	20,9	23,7	21	22,1	23,8
45-59	28	28,8	30	28,7	30	29,2	29	29,1	28,7	29,8	32,4	28	28,4	30,5	28,8	31	29,4	30,7
30-44	16,9	16,3	15,5	16,2	14,7	15,9	16,7	16,1	15,9	14,8	12,7	12,7	13,5	10,8	11,8	10,3	9,8	9,4
15-29	19,8	17,8	15,3	16,6	12,9	13	12,5	9,3	8,8	7,2	6,6	4,1	5,7	3,7	4	3,9	4,5	4
0-14	3,7	3,2	4,8	4,5	4,2	3,9	3	2,6	2,3	3,4	1,7	1,6	1,7	2,5	1,5	1,6	1,8	1,3

Figura 9. Grupos de edad de los donantes. 2000 – 2017

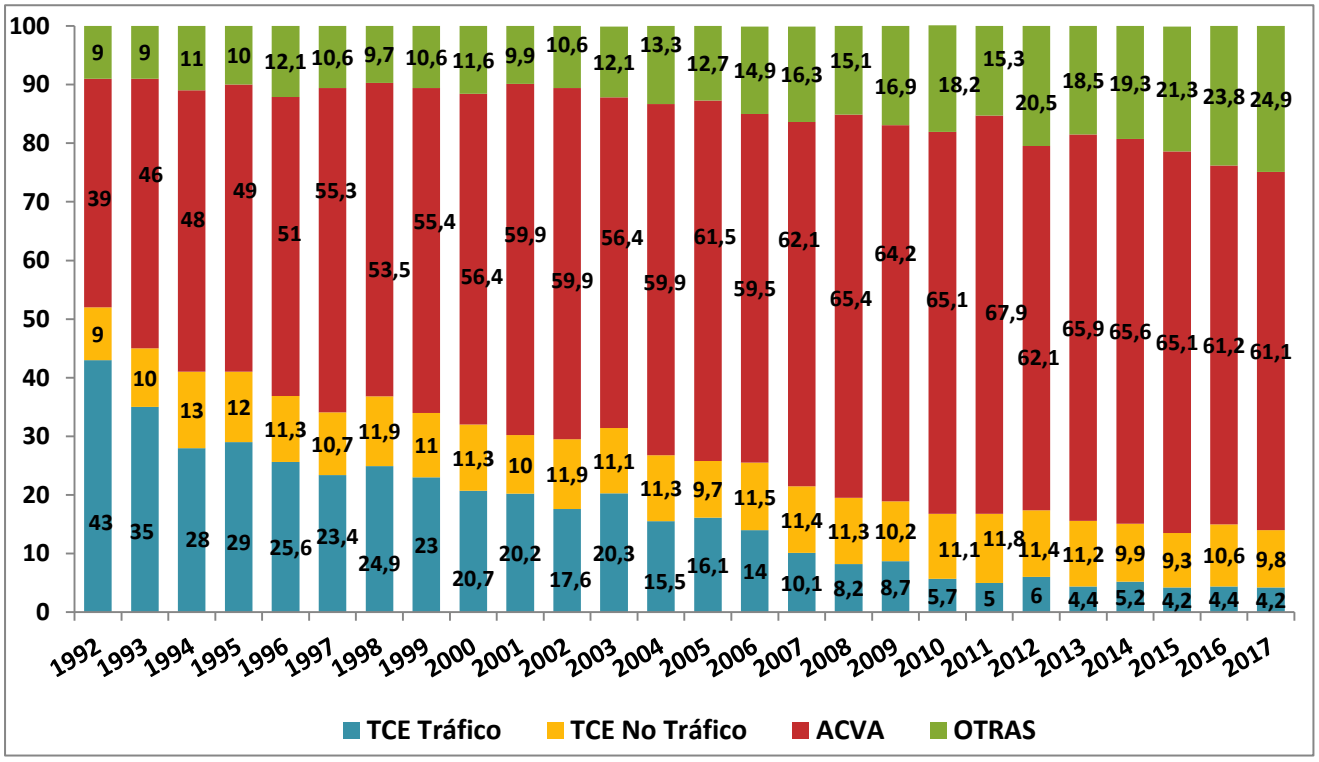


Figura 10. Causas de muerte de los donantes. España 1992-2017.

La frecuencia de serologías positivas para virus de la hepatitis B, C y CMV en los donantes aparece en las Figs. 11, 12, 13 y 14.

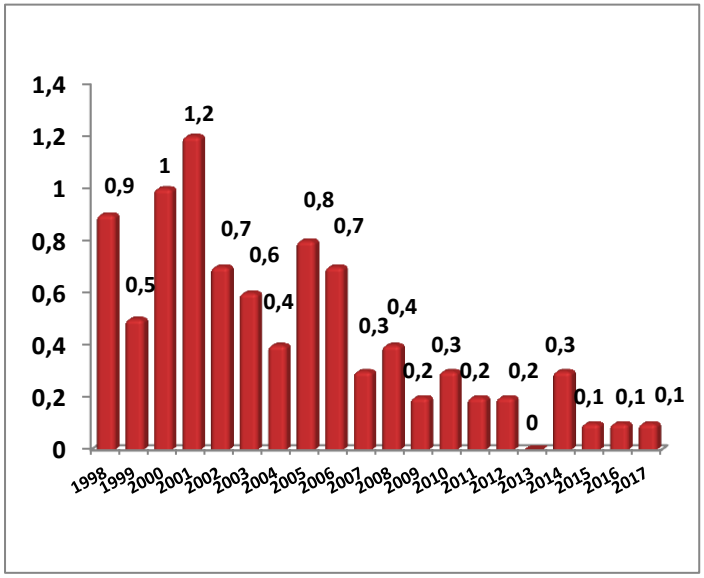


Figura 11. Prevalencia de AgHBs. 1998-2017

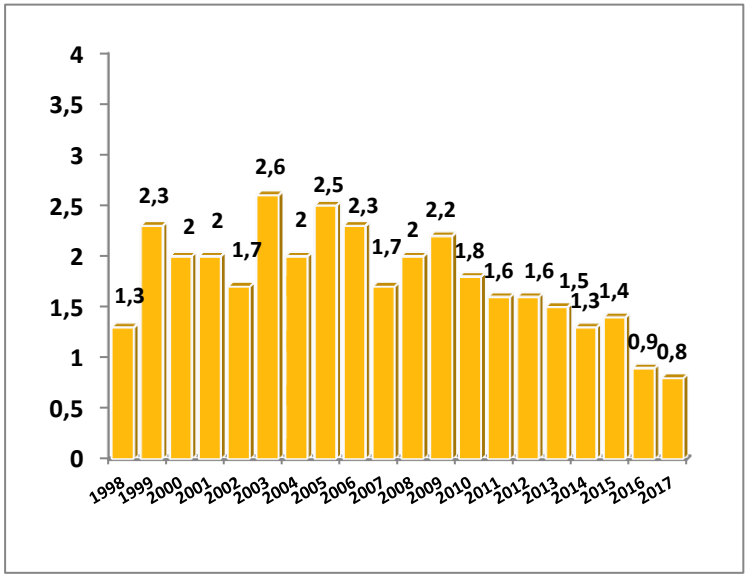


Figura 12. Prevalencia de Ac VHC. 1998-2017

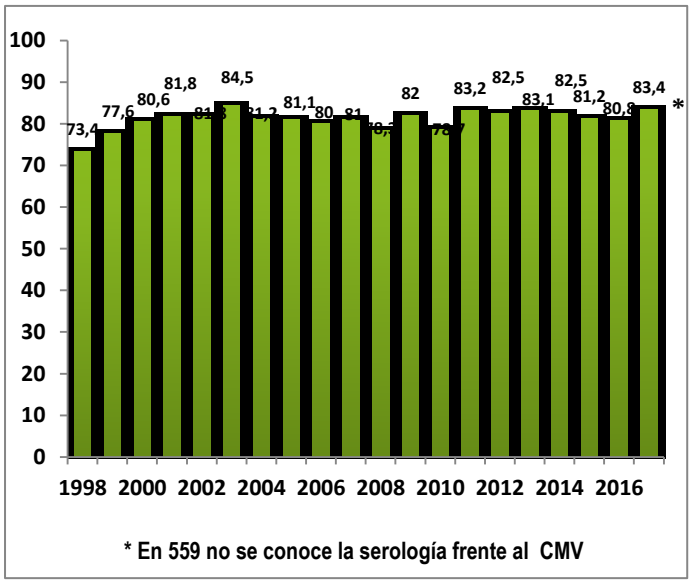


Figura 13. Prevalencia de CMV. 1998-2017

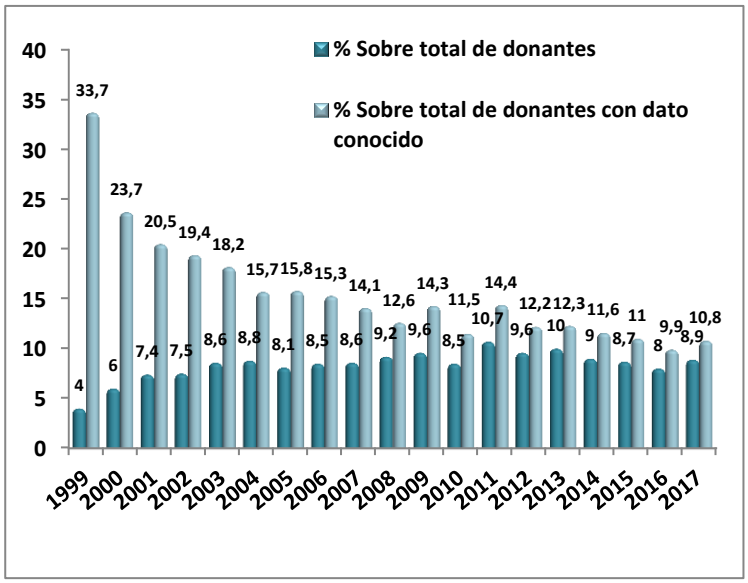


Figura 14. Prevalencia de Ac HBc+. 1999-2017

La serología positiva frente a la hepatitis B en los donantes es este año del 0,1%. Frente al VHC, alrededor del 0,8%, la prevalencia de CMV es del 83,4% y el antiHBc es positivo en el 10,8% de los donantes en los que se conoce la serología, y en el 8,9% del total de los donantes, estando el dato real entre estas dos cifras.

3. Extracción y Utilización de órganos

Durante 2017 se desecharon un total de 1.533 órganos sólidos extraídos para su implante. Los donantes de los que con más frecuencia se desechan órganos para trasplante son aquellos de edad más avanzada, causa de muerte de origen vascular y patología asociada. En los capítulos específicos de trasplante de cada órgano aparecen analizadas las causas más frecuentes de no validez del órgano.

A continuación se presentan los datos de donantes ofertados, aceptados e implantados para los diferentes órganos (Tabla I).

Tabla I. Donantes ofertados, aceptados, extraídos, implantados y desechados. 2017

	Ofertados		Extraídos		Implantados		Desechados***	
	Donantes españoles	Donantes extranjeros	Donantes españoles	Donantes extranjeros	Donantes españoles	Donantes extranjeros	Donantes españoles	Donantes extranjeros
Riñón*	No dispon.	No dispon.	3901 riñones (1968 donantes)		2945		956	
Corazón	458	18	339	5	300	4	39	1
Hígado*	1786		1665		1219		446	
Pulmón**	548	7	415	2	326	0	89	2
Páncreas	227		138		70		68	

*No incluidos trasplantes de donantes vivos. Donantes (mono-birrenales)
** Donantes (Uni-Bipulmonar) ***Órganos desechados tras la extracción

4. Negativas familiares

De las 2.509 entrevistas familiares realizadas en el total del Estado, 2.183 (87,1%) han sido consentimientos a la donación y 326 (12,9%) negativas familiares (Fig.15)

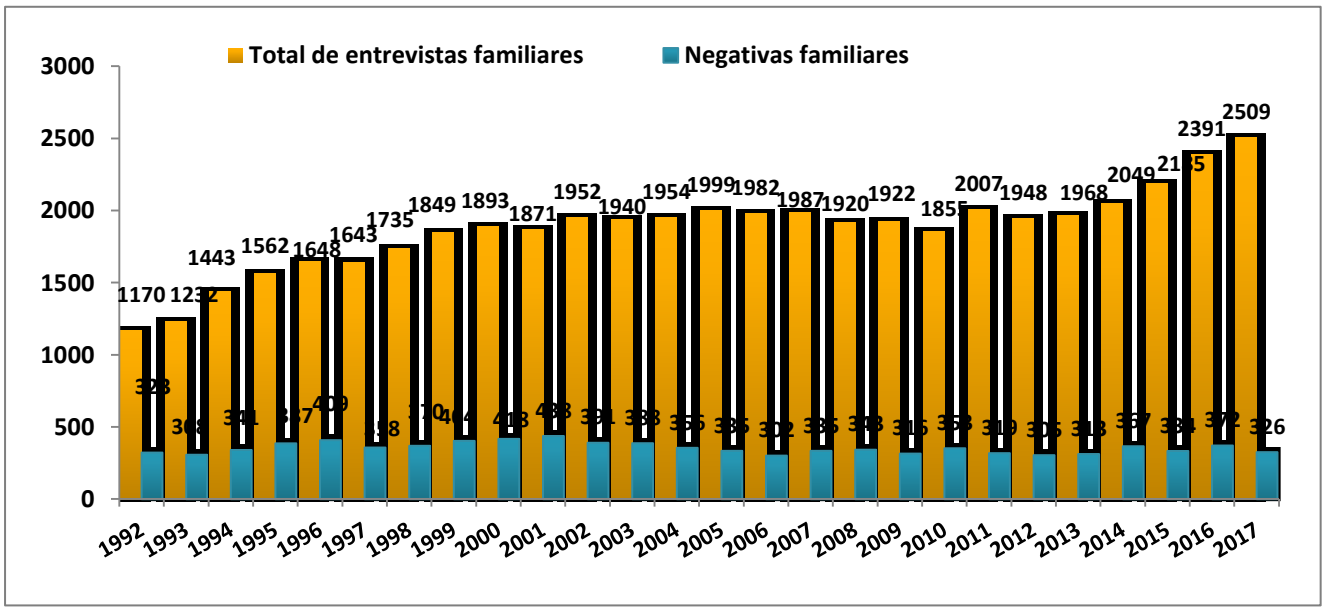


Figura 15. Total de entrevistas versus negativas familiares (números absolutos). España 1992-2017

Observamos cómo durante los cinco últimos años (2013-2017), las negativas a la donación significaron la pérdida real de 1.712 donantes. Aproximadamente 4.100 órganos si consideramos un 80% de donantes multiorgánicos (con una media de 3 órganos/donante).

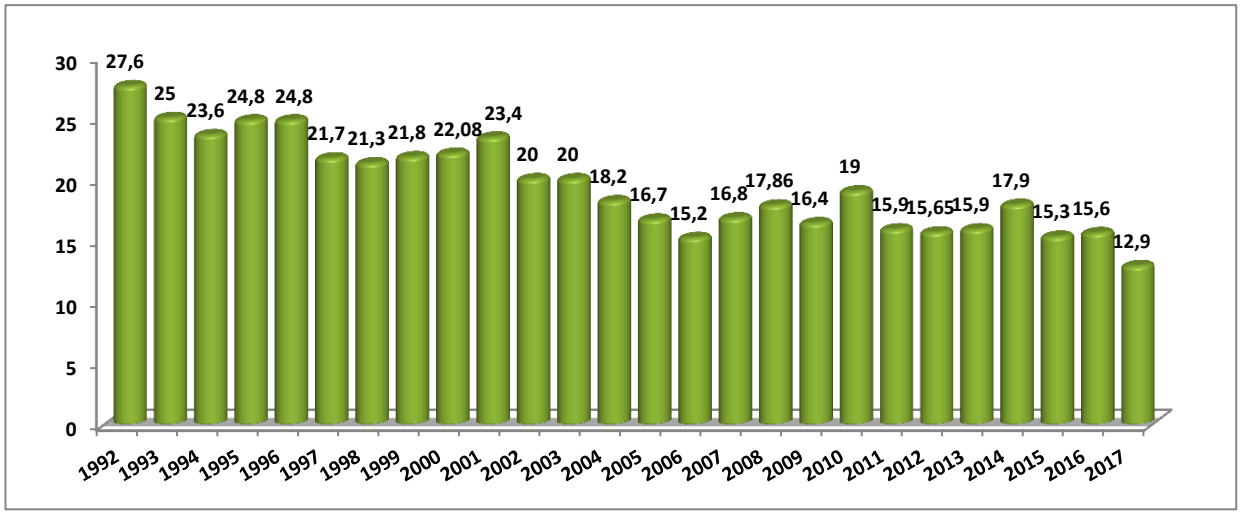


Figura 16. Porcentaje de negativas familiares. España 1992-2017.

Después del incremento del año 2014, durante los últimos años el índice de negativas ha descendido situándose este año en el 12,9%, el mínimo histórico más bajo.

En la distribución por Comunidades Autónomas, en 2017 Galicia y Canarias son las que muestran un mayor porcentaje de negativas familiares con 21,6 y 22% respectivamente.

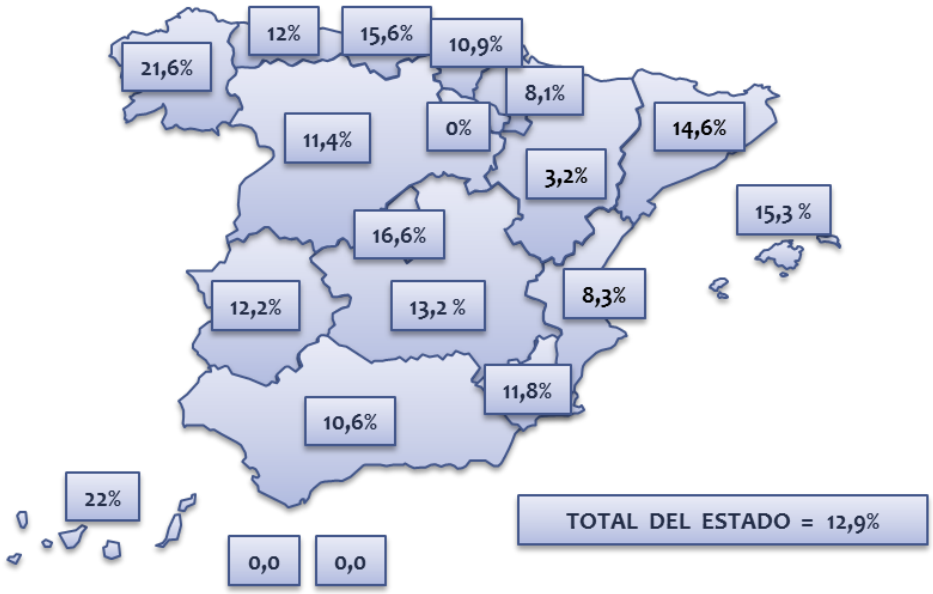


Figura 17. Porcentaje de negativas familiares por CCAA. 2017.