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ERA-EDTA Registry
Annual Report 2017

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For the provision of individual patient data

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List of abbreviations

Abbreviation	Term
APD	Automated peritoneal dialysis
CAKUT	Congenital anomalies of the kidney and urinary tract
CAPD	Continuous ambulatory peritoneal dialysis
CI	Confidence interval
DM	Diabetes mellitus
ERA-EDTA	European Renal Association - European Dialysis and Transplant Association
ESPN	European Society for Paediatric Nephrology
ESRD	End-stage renal disease
ESRF	End-stage renal failure
GN	Glomerulonephritis / sclerosis
HD	Haemodialysis
HDF	Haemodiafiltration
HF	Haemofiltration
HT	Hypertension
HUS	Haemolytic uraemic syndrome
Misc	Miscellaneous
N	Number
P25	Refers to the 25th percentile
P75	Refers to the 75th percentile
PD	Peritoneal dialysis
PKD	Polycystic kidneys, adult type
Pmarp	Per million age-related population
Pmp	Per million population
PN	Pyelonephritis
PRD	Primary renal disease
RRT	Renal replacement therapy
RVD	Renal vascular disease
SD	Standard deviation
Tx	Transplant
Unkn	Unknown

Glossary

EU28: refers to the 28 countries of which from 1st July 2013 the European Union was comprised of. These countries are: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, and the United Kingdom.

Eurostat: the statistical office of the European Union whose task is to provide the European Union with statistics at the European level that enable comparisons between countries and regions.

Expected remaining lifetime: is defined as the average number of years of life remaining for those who have reached a given age.

Incidence: the number of new cases during a specific time period. In this annual report this equates to the number of patients commencing renal replacement therapy for end-stage renal disease during the calendar year on which this annual report is based (2017).

Modality: the method of renal replacement therapy. Renal replacement therapy is comprised of the following modalities: haemodialysis (HD), haemofiltration (HF), haemodiafiltration (HDF), automated peritoneal dialysis (APD), continuous ambulatory peritoneal dialysis (CAPD), and kidney transplantation (Tx). Kidney transplantation can be performed with a kidney from a living donor (LD) or from a deceased donor (DD).

Per million age-related population (pmarp): the incidence or prevalence pmarp is the observed incident or prevalent count for a specific age group divided by the general population of that age group and multiplied by one million.

Per million population (pmp): the incidence or prevalence pmp is the observed incident or prevalent count divided by the general population in that year and multiplied by one million.

Prevalence: the number of people in a given population with a particular disease at a given time. In this annual report this equates to the number of patients receiving renal replacement therapy for end-stage renal disease on 31st December 2017.

Renal replacement therapy (RRT): therapy used to replace the normal blood-filtering function of the kidneys. In this annual report renal replacement therapy refers to the various dialysis modalities and to kidney transplantation (see Modality).

Survival probability: the probability that a person or a kidney transplant has survived up to a specified time point.

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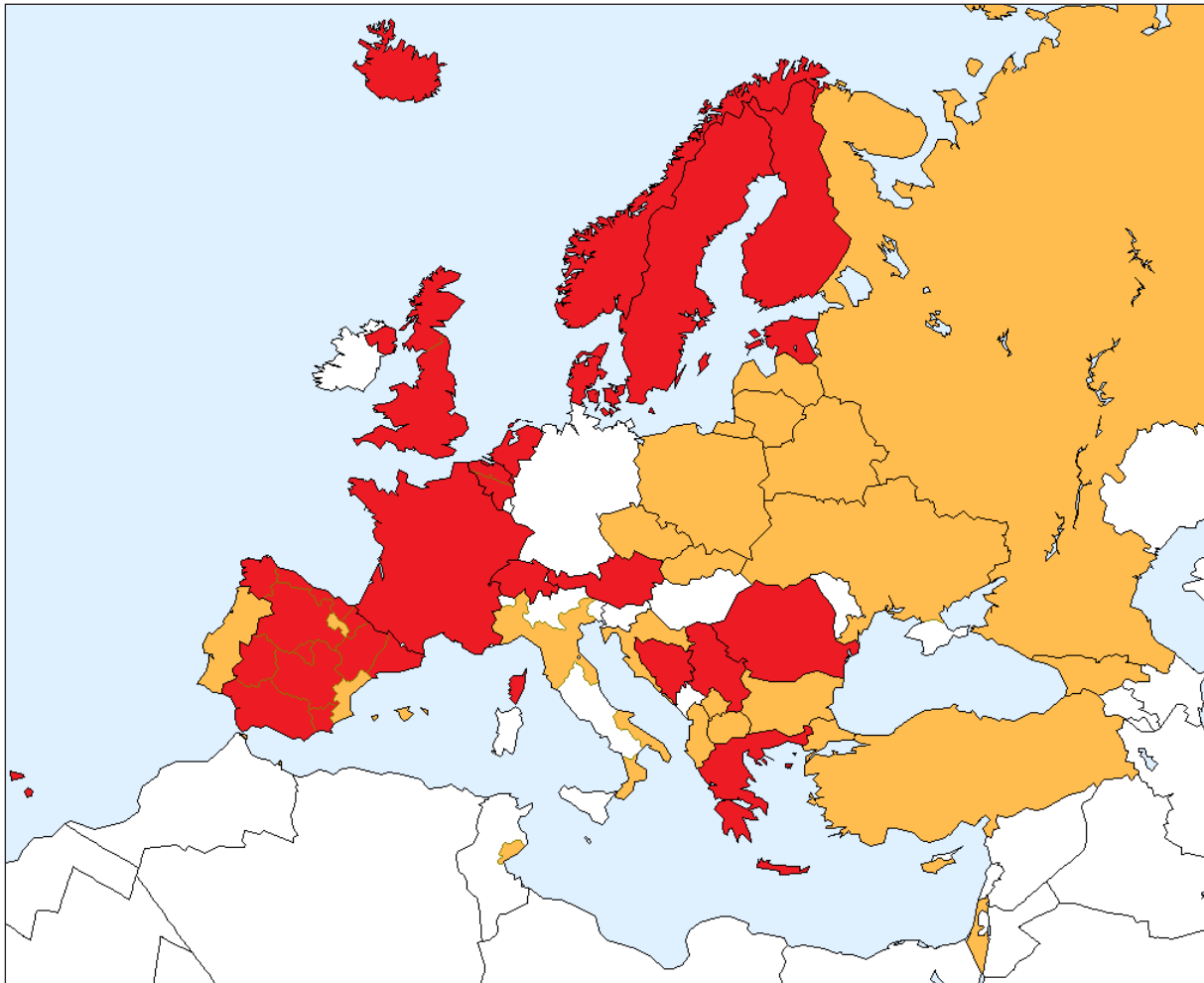
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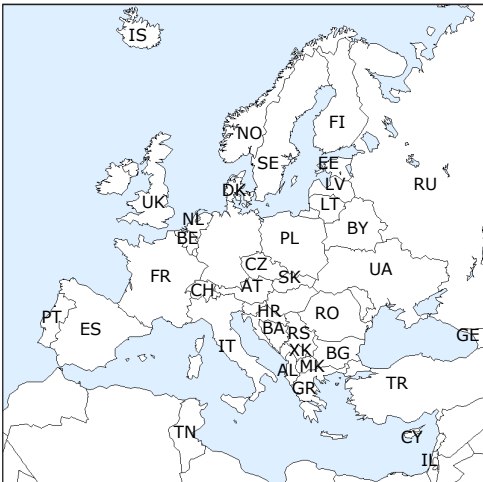
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Introduction

Figure 1: National and regional renal registries that contributed data to this annual report



	AL Albania AT Austria BA Bosnia and Herzegovina BE Belgium BG Bulgaria BY Belarus CH Switzerland CY Cyprus CZ Czech Republic DK Denmark EE Estonia ES Spain FI Finland FR France GE Georgia GR Greece HR Croatia IL Israel IS Iceland	IT Italy LT Lithuania LV Latvia MK North Macedonia NL the Netherlands NO Norway PL Poland PT Portugal RO Romania RS Serbia RU Russia SE Sweden SK Slovakia TN Tunisia TR Turkey UA Ukraine UK United Kingdom XK Kosovo
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I Introduction

The ERA-EDTA Registry collects data on renal replacement therapy (RRT) via the national and regional renal registries in Europe and countries bordering the Mediterranean Sea. For this 2017 Annual Report data sets from 53 national or regional renal registries in 37 countries were used. The reference tables are presented in two parts: Section B relates to individual patient data from 32 national and regional registries from 17 countries (shown in red in Figure 1), whereas Section C relates to 21 national and regional registries from 21 countries providing aggregated data (shown in orange in Figure 1).

Section overview

In Section A, figures summarizing the data from all participating registries are presented. Section B contains data on the incidence and prevalence of RRT and on the kidney transplant activity, the survival and expected remaining lifetimes from registries providing individual patient data, while Section C covers data on the incidence and prevalence and kidney transplant activity from the countries and regions providing aggregated data. The incidence and prevalence of RRT in paediatric patients are described in Section D, and are based on data from registries providing individual paediatric patient data. The Methods section describes the procedures used, including data collection and preparation, definitions, the coding systems, and the statistical methods.

New to this edition

This year for the first time, the Canary Islands were included with individual patient data and Kosovo* was included with aggregated data.

ERA-EDTA Registry website

The ERA-EDTA Registry annual reports and other information about the Registry can be downloaded from the ERA-EDTA Registry website: www.era-edta-reg.org. Slides based on the information in this annual report will be presented on the website. In addition, the website includes a repository of educational publications and the 2018 version of the ERA-EDTA Registry Primary Renal Disease Codes.

ESPN/ERA-EDTA Registry website

Information on the activities of the European Society for Paediatric Nephrology (ESPN)/ERA-EDTA Registry and on paediatric registries in general can be found on the ESPN/ERA-EDTA Registry website: www.espn-reg.org. In addition, the ESPN/ERA-EDTA Registry annual reports can be downloaded from this website.

** This designation is without prejudice to positions on status, and is in line with UNSCR 1244/99 and the ICJ Opinion on the Kosovo declaration of independence.*

Section A: Summary data

A1 INCIDENT PATIENTS ACCEPTED FOR RRT IN 2017, AT DAY 1

Table A.1.1
Summary data on the incidence of RRT in 2017, unadjusted

	General population covered by the registry in thousands	Incidence in 2017, at day 1					
		All N	All Pmp	Mean Age	Median Age	DM N	DM Pmp
Albania	2847	255	90	51.2	52.1	51	18
Austria	8773	1134	129	65.7	68.8	308	35
Belarus	9492	952	100			216	23
Belgium, Dutch-speaking *	6543	1194	182	70.6	73.4	255	39
Belgium, French-speaking *	4832	941	195	68.3	70.7	231	48
Bosnia and Herzegovina	3531	381	108	61.9	63.5	114	32
Bulgaria	7050	1195	170			322	46
Croatia	3713	710	191	67.6	69.0	204	55
Cyprus	864	204	236	68.0	69.0	78	90
Czech Republic †	9920	2301	232				
Denmark	5821	761	131	63.8	67.5	198	34
Estonia	1317	87	66	57.0	60.3	16	12
Finland	5508	549	100	60.9	64.9	182	33
France	66865	11571	173	67.7	70.5	2678	40
Georgia	3726	782	210	60.9	63.3	194	52
Greece	10755	2712	252	71.3	74.0	675	63
Iceland	343	49	143	62.2	66.3	4	12
Israel	8713	1683	193	65.6	68.4	779	89
Italy (8 of 20 regions)	26298	3722	140	68.9	71.8	675	25
Kosovo	1688	321	190	62.9	65.0	104	62
Latvia	1547	177	114	60.9	62.0	29	19
Lithuania	2848	341	120	61.7	62.7	50	18
North Macedonia	2022	365	181	62.7	63.0	100	49
Norway	5277	584	111	63.5	66.9	104	20
Poland †	38430	6550	170			1470	38
Portugal	10310	2372	230			753	73
Romania	19000	3559	187	62.3	64.3	456	24
Russia †	142473	9495	67	55.8	58.0	1680	12
Serbia	6810	678	100	57.4	62.4	200	29
Slovakia †	5437	927	170	62.0	65.0	344	63
Spain (All)	46572	6567	141	63.5	68.1	1572	34
Spain, Andalusia	8409	1107	132	63.6	66.5	270	32
Spain, Aragon	1315	168	128	64.5	68.6	45	34
Spain, Asturias	1034	161	156	67.0	71.1	41	40
Spain, Basque country	2169	249	115	63.7	67.2	72	33
Spain, Canary Islands	2166	346	160	63.8	66.1	124	57
Spain, Cantabria *	581	65	112	64.7	67.5	13	22
Spain, Castile and León *	2427	296	122	67.3	68.9	75	31
Spain, Castile-La Mancha *	2037	265	130	66.2	68.5	74	36
Spain, Catalonia	7556	1250	165	66.7	70.3	257	34
Spain, Community of Madrid	6507	865	133	65.0	68.0	228	35
Spain, Extremadura	1080	119	110	63.3	65.3	29	27
Spain, Galicia	2707	416	154	65.2	68.0	97	36
Spain, Murcia	1470	202	137	64.9	67.7	49	33
Spain, Navarre *	642	79	123	65.1	68.4	18	28
Sweden	10058	1165	116	63.8	67.7	284	28
Switzerland	8452	824	97	65.5	68.8	160	19
the Netherlands	15932	1839	115	64.5	68.1	370	23
Tunisia, Sfax region †	990	239	242	62.3	64.0	66	67
Turkey ‡	80811	11837	146			703	9
Ukraine	42415	1551	37	52.2	55.0	327	8
United Kingdom, England * ¶	55619	6649	120	61.9	63.9	1656	30
United Kingdom, Northern Ireland *	1871	212	113	63.7	67.7	50	27
United Kingdom, Scotland	5425	639	118	59.3	61.9	172	32
United Kingdom, Wales *	3125	379	121	62.9	66.3	105	34
All countries	694024	88453	127	63.4	66.2	17935	29

DM = diabetes mellitus as primary renal disease

When cells are left empty, the data are unavailable and could not be used for the calculation of the summary data

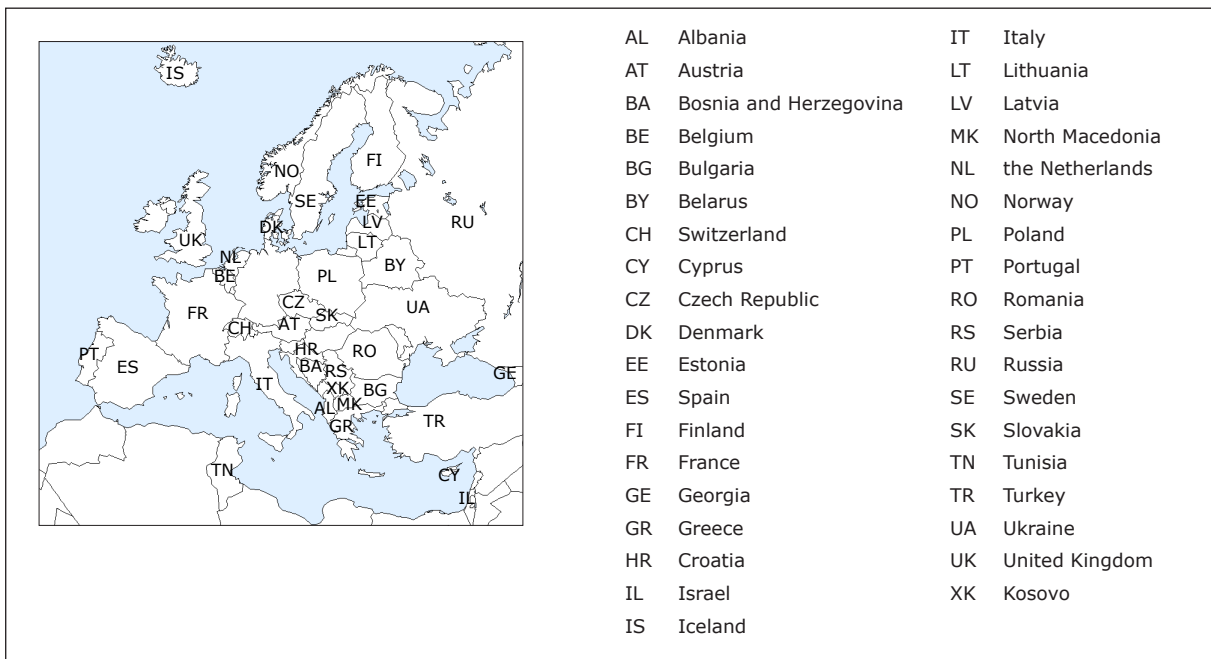
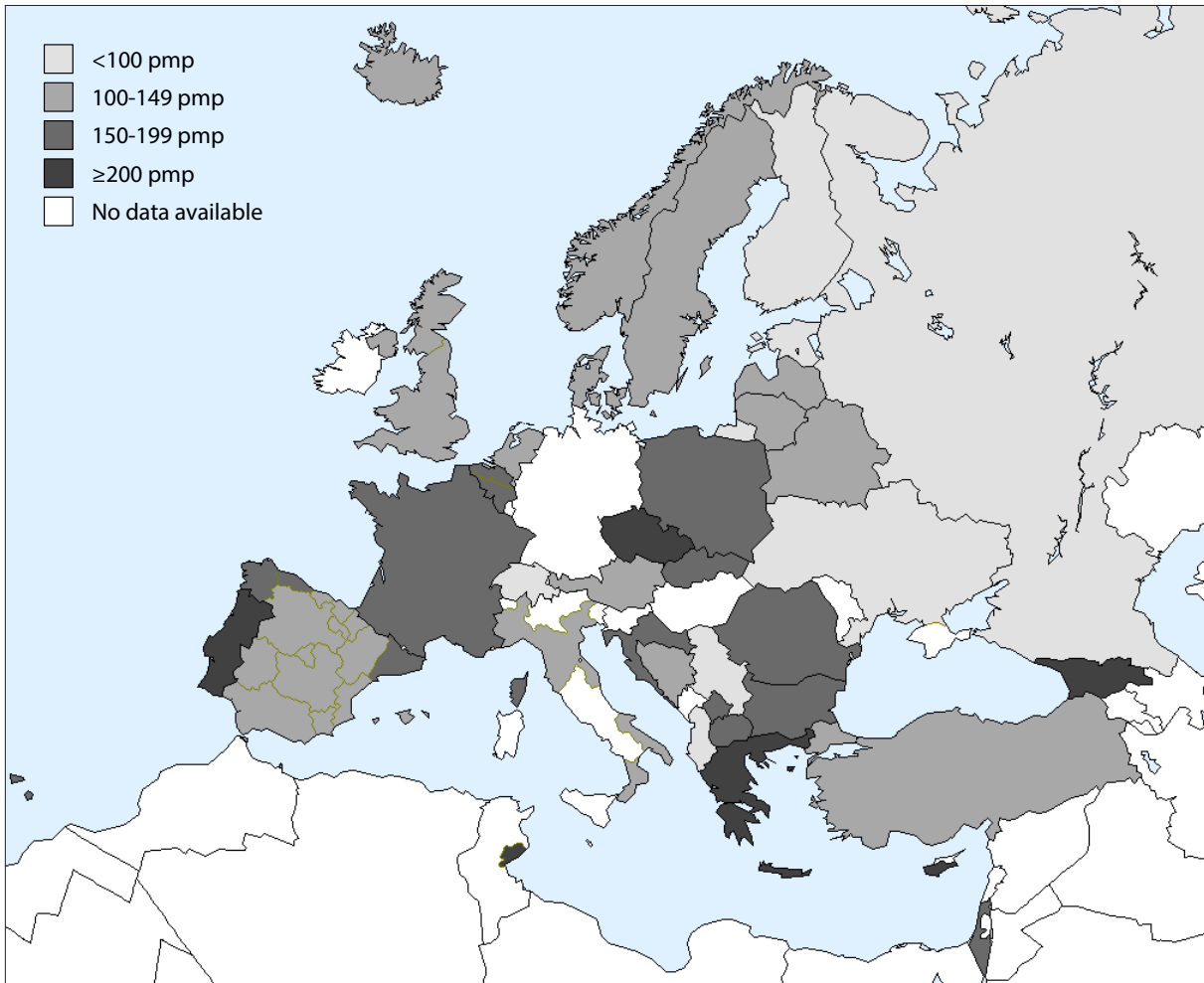
* Patients younger than 20 years of age are not reported: the true incidence counts are therefore slightly higher than the counts reported here

† Data include dialysis patients only

‡ Data on primary renal disease are available for 1893 dialysis patients (16.0%, total N=11837)

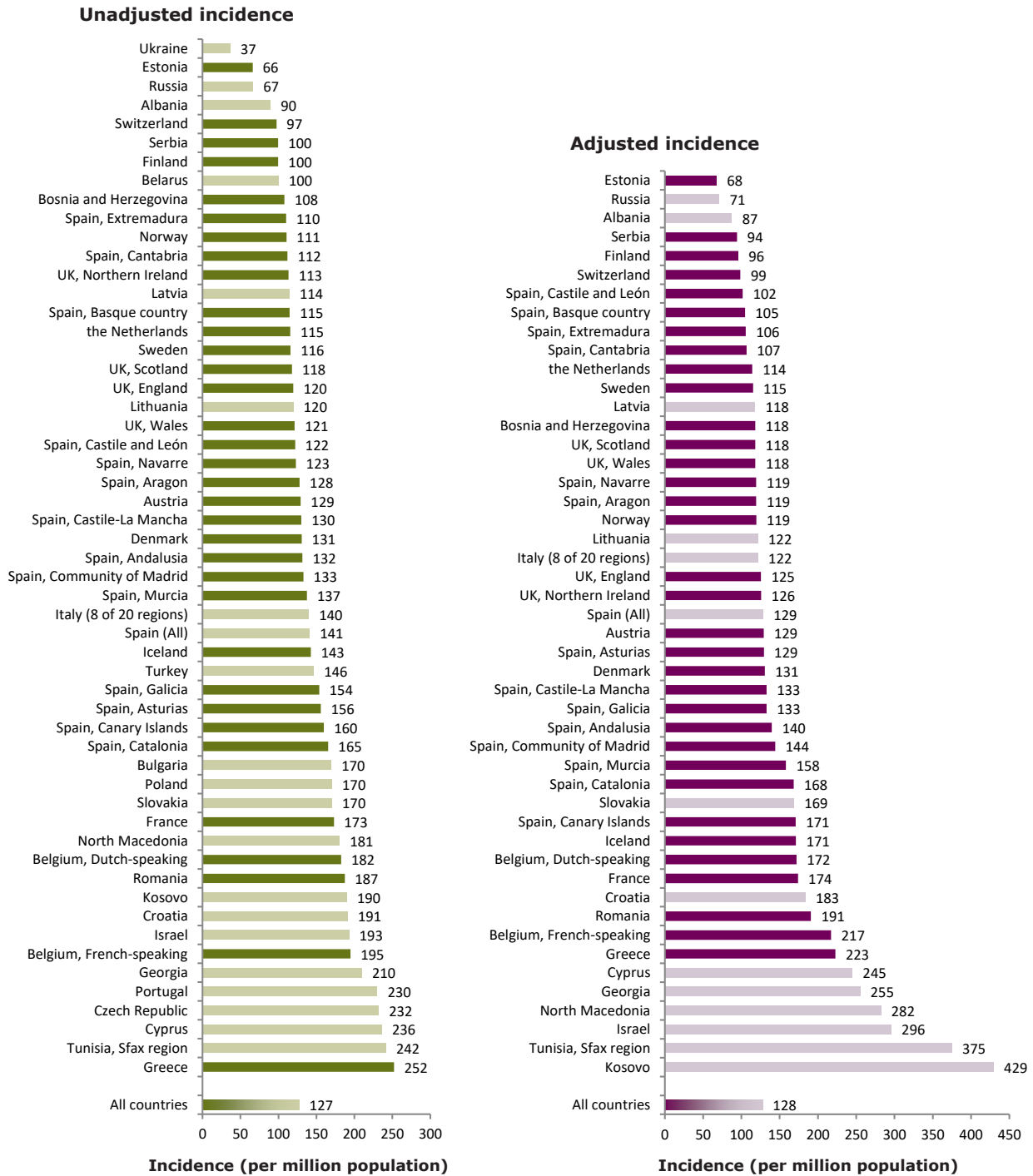
¶ The incidence is underestimated by approximately 2% due to one centre not submitting data since 2014

Figure A.1.1
Incidence per million population by country / region, unadjusted
at day 1



Detailed information on the contents of this figure can be found in table B.2.2 for registries providing individual patient data, and in table C.2.2 for registries providing aggregated data.

Figure A.1.2
Incidence per million population by country / region, unadjusted and adjusted
at day 1

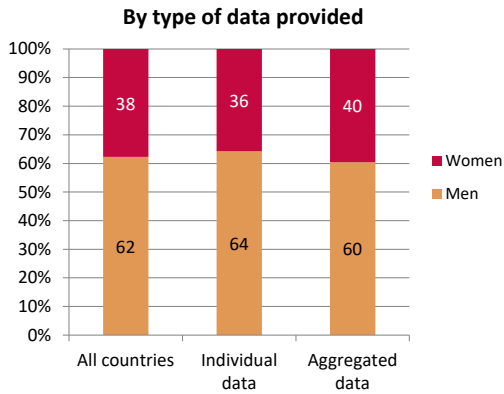


Registries providing individual patient data are shown as dark bars, and registries providing aggregated data as light bars.

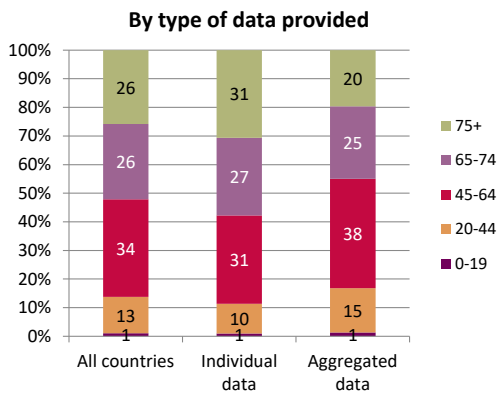
Detailed information on the contents of this figure can be found in tables B.2.2 and B.2.4 for registries providing individual patient data, and in tables C.2.2 and C.2.4 for registries providing aggregated data.

Adjustment of the incidence was performed by standardising the rates to the age and sex distribution of the EU28 population.

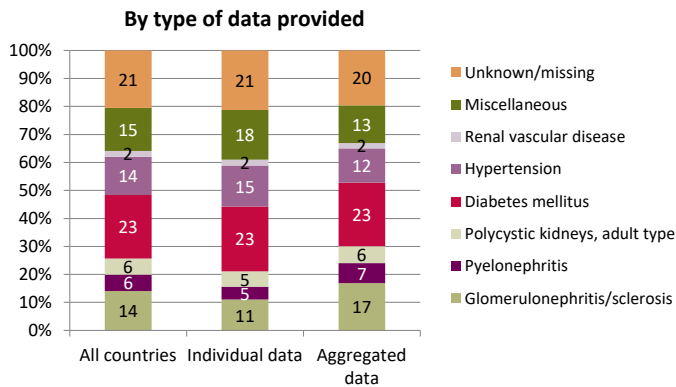
Figure A.1.3
Sex, age, and primary renal disease distribution by type of data provided
at day 1



This figure summarizes the data presented in tables B.2.3 and C.2.3.

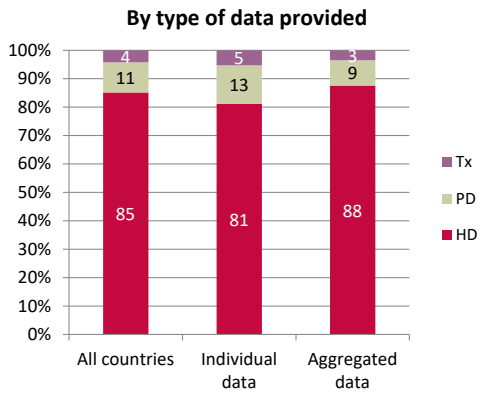


This figure summarizes the data presented in tables B.2.1 and C.2.1.



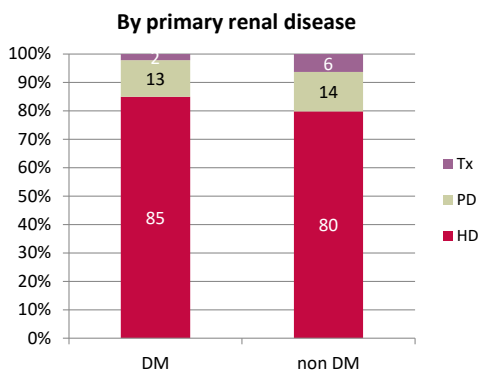
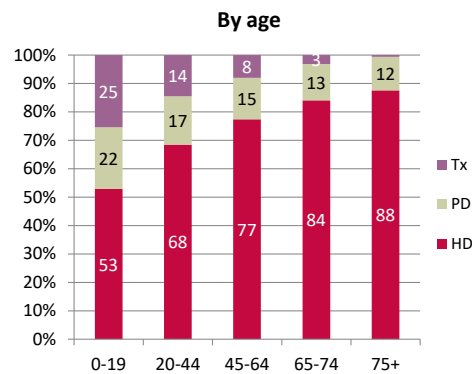
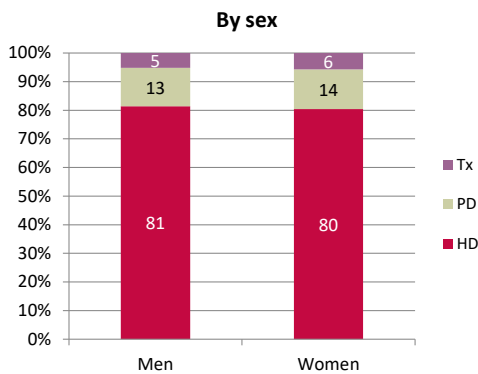
This figure summarizes the data presented in tables B.2.5 and C.2.5.

Figure A.1.4
Treatment modality distribution by age, sex and primary renal disease, unadjusted
at day 1



This figure summarizes the data presented in tables B.2.10 and C.2.8.

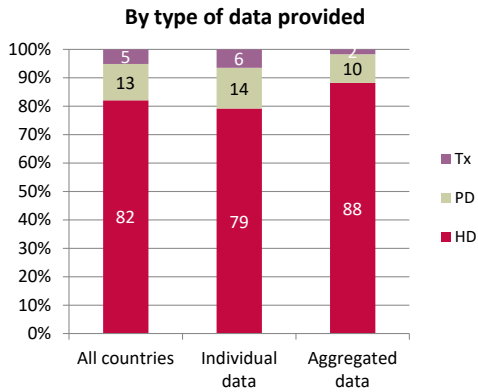
The figures below are only based on data from registries providing individual patient data.



These figures summarize the data presented in table B.2.11.

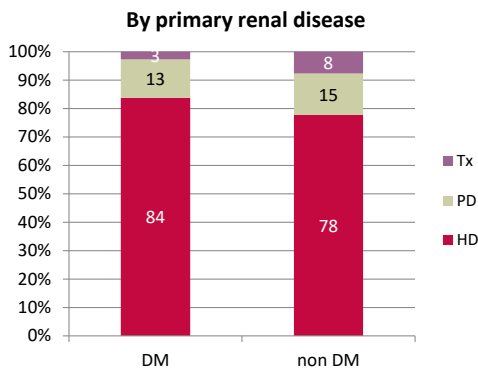
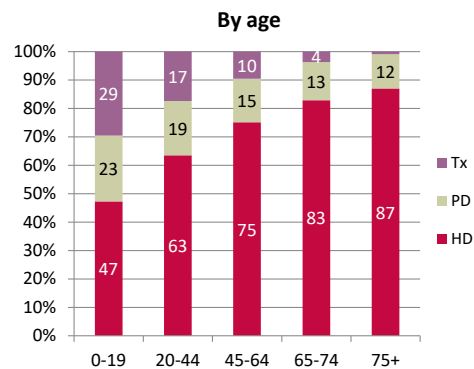
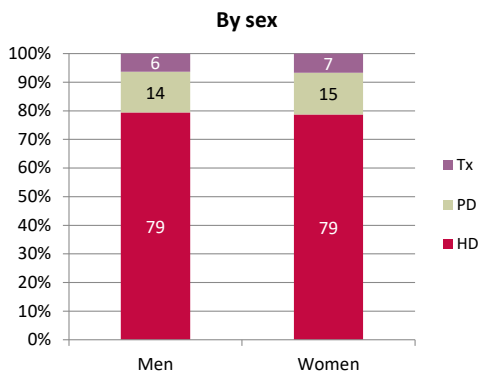
Abbreviations used: HD: haemodialysis; PD: peritoneal dialysis; Tx: transplant; DM: Diabetes Mellitus

Figure A.2.1
Treatment modality distribution by age, sex and primary renal disease, unadjusted at day 91



This figure summarizes the data presented in tables B.3.10 and C.3.8.

The figures below are only based on data from registries providing individual patient data.



These figures summarize the data presented in table B.3.11.

Abbreviations used: HD: haemodialysis; PD: peritoneal dialysis; Tx: transplant; DM: Diabetes Mellitus

Table A.3.1
Summary data on the prevalence of RRT on 31 December 2017, unadjusted

	General population covered by the registry in thousands	Prevalent patients on RRT in 2017					
		All N	All Pmp	Mean Age	Median Age	DM N	DM Pmp
Albania	2847	1557	547	49.5	50.5	331	116
Austria	8773	9540	1087	61.6	63.1	1874	214
Belarus	9492	4295	452			593	62
Belgium, Dutch-speaking *	6543	8419	1287	66.3	68.4	1441	220
Belgium, French-speaking *	4832	6506	1346	65.1	66.8	1177	244
Bosnia and Herzegovina	3531	2644	749	59.7	61.4	520	147
Bulgaria	7050	4421	627				
Croatia	3713	4635	1248	65.7	67.0	919	248
Cyprus	864						
Czech Republic	9920	11666	1176				
Denmark	5821	5579	958	59.0	60.6	951	163
Estonia	1317	949	720	58.2	58.9	168	128
Finland	5508	5008	909	59.4	61.7	1270	231
France	66865	87989	1316	63.0	65.0	14423	216
Georgia	3726	2972	798	59.8	61.0	590	158
Greece	10755	14183	1319	65.0	67.0	2676	249
Iceland	343	261	760	56.4	58.4	26	76
Israel &	8713	6692	768	66.3	68.3	3132	359
Italy (8 of 20 regions)	26298	30191	1137	62.6	64.8	3920	148
Kosovo	1688	539	319	63.2	66.0	159	94
Latvia	1547	1058	684	56.4	58.0	102	66
Lithuania	2848	2268	796				
North Macedonia	2022	1761	871	59.0	60.0	300	148
Norway	5277	5155	977	59.7	61.7	707	134
Poland	38430	30278	788			5200	135
Portugal	10310	20259	1965	67.9	68.4	3511	341
Romania	19000	21708	1143	61.8	63.6	2189	115
Russia	142473	47486	333	54.2	57.0	6696	47
Serbia	6810	4850	712	58.7	61.2	835	123
Slovakia &	5437	3559	655	63.6	66.0	1177	216
Spain (All)	46572	59810	1284	59.5	62.7	9714	209
Spain, Andalusia	8409	10296	1224	60.8	62.1	1604	191
Spain, Aragon	1315	1671	1271	63.4	64.7	299	227
Spain, Asturias	1034	1375	1329	63.4	64.5	226	219
Spain, Basque country	2169	2722	1255	62.1	63.9	318	147
Spain, Canary Islands	2166	3032	1400	61.3	62.5	340	157
Spain, Cantabria *	581	637	1096	62.3	63.6	92	158
Spain, Castile and León *	2427	3031	1249	65.3	66.1	549	226
Spain, Castile-La Mancha *	2037	2422	1189	62.8	63.6	393	193
Spain, Catalonia	7556	10785	1427	63.2	65.0	1520	201
Spain, Community of Madrid	6507	7537	1158	62.1	63.5	1345	207
Spain, Extremadura	1080	1274	1180	62.0	62.7	194	180
Spain, Galicia	2707	3741	1382	62.9	64.3	627	232
Spain, Murcia	1470	1982	1348	62.4	63.3	283	192
Spain, Navarre *	642	860	1339	62.8	64.3	123	192
Sweden	10058	9927	987	60.0	62.0	1776	177
Switzerland †	8452	7927	938	62.2	64.1	1176	139
the Netherlands	16617	17246	1038	60.7	62.6	2308	139
Tunisia, Sfax region &	990	1007	1018	58.6	60.0	211	213
Turkey ‡	80811	77311	957			2366	29
Ukraine	42415	8904	210	50.0	51.0	1358	32
United Kingdom, England * ¶	55619	54043	972	58.9	59.4	9417	169
United Kingdom, Northern Ireland *	1871	1831	979	59.0	58.8	273	146
United Kingdom, Scotland	5425	5184	956	56.8	57.8	847	156
United Kingdom, Wales *	3125	3161	1011	59.5	60.4	520	166
All countries	694709	592779	854	60.7	62.6	84853	141

DM = diabetes mellitus as primary renal disease

When cells are left empty, the data are unavailable and could not be used for the calculation of the summary data

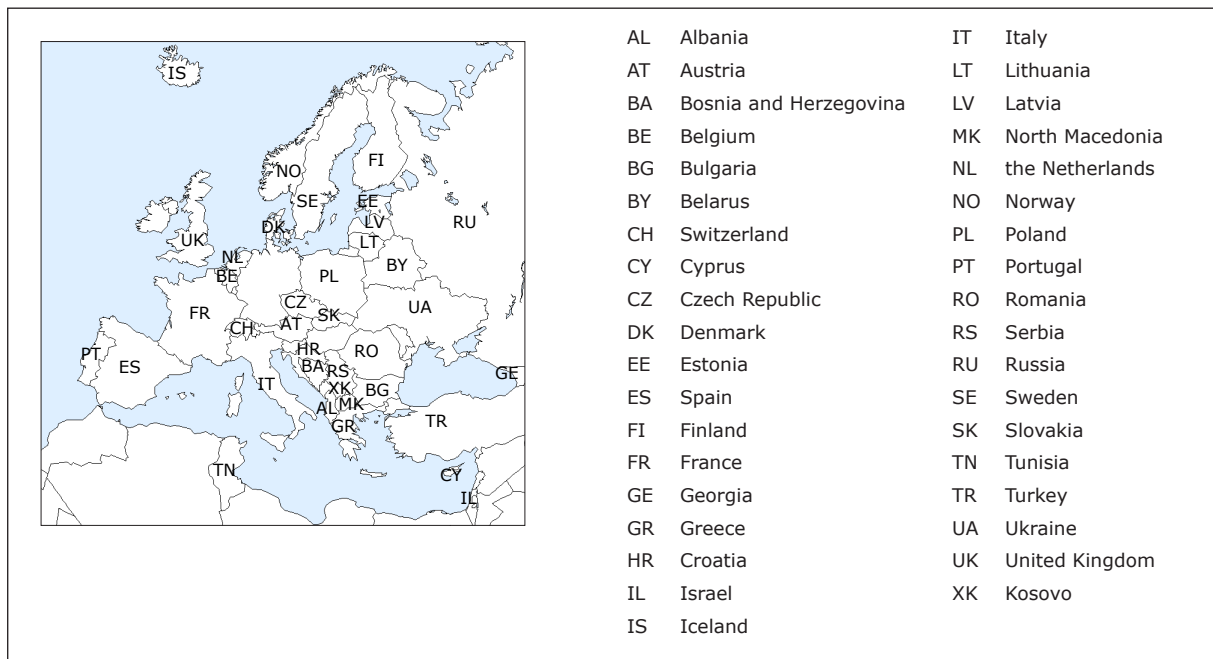
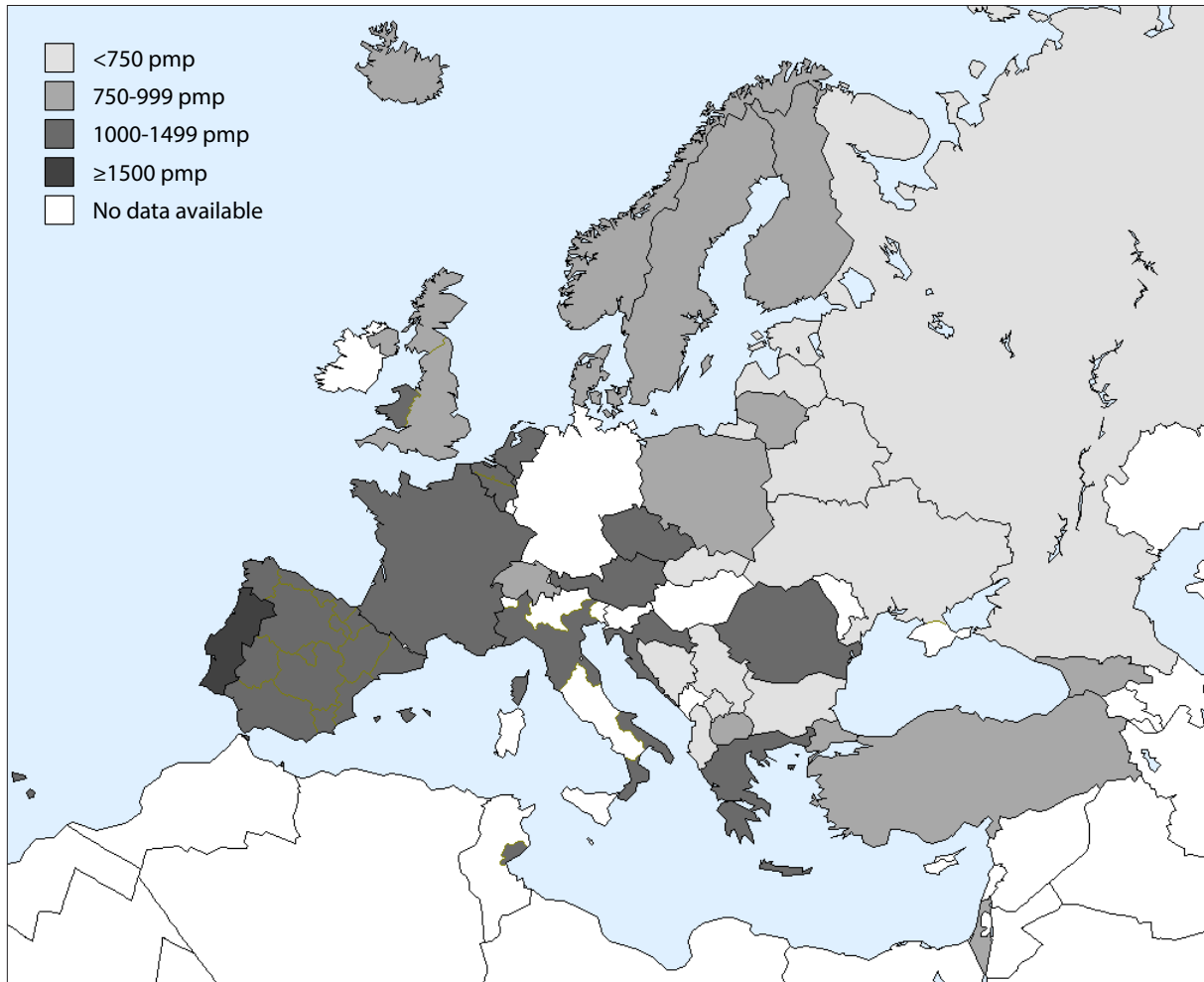
* Patients younger than 20 years of age are not reported. The true prevalent counts are therefore slightly higher than the counts reported here & Data on prevalence include dialysis patients only

† The prevalence is underestimated by approximately 6% due to an estimated 11% underreporting of patients living on a functioning graft

‡ Data on primary renal disease are available for 6888 dialysis patients (8.9%, total N=77311)

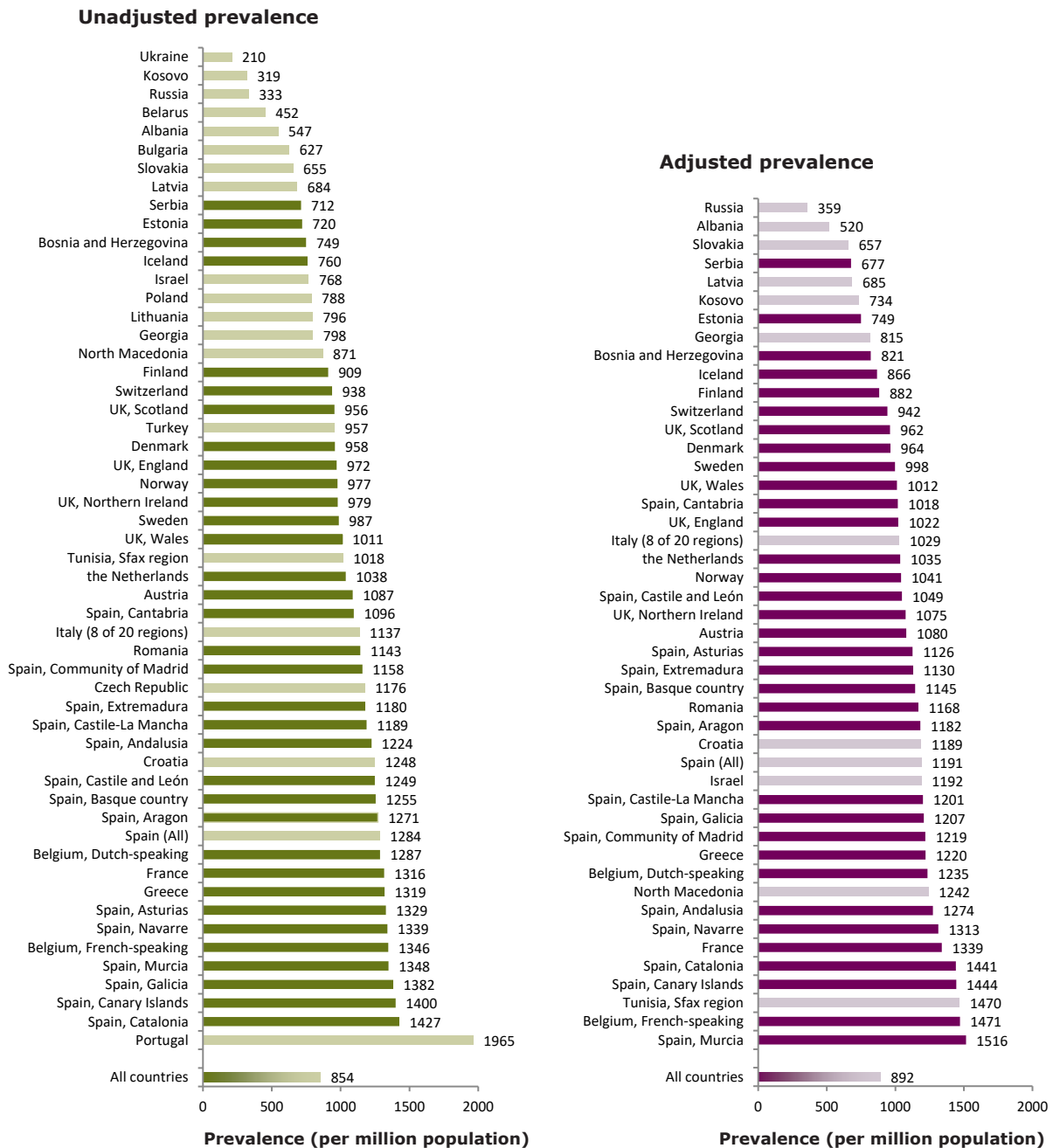
¶ The prevalence is underestimated by approximately 1% due to one centre not submitting data since 2014

Figure A.3.1
Prevalence per million population by country / region, unadjusted
prevalent patients on December 31



Detailed information on the contents of this figure can be found in table B.4.2 for registries providing individual patient data, and in table C.4.2 for registries providing aggregated data.

Figure A.3.2
Prevalence per million population by country / region, unadjusted and adjusted
prevalent patients on December 31

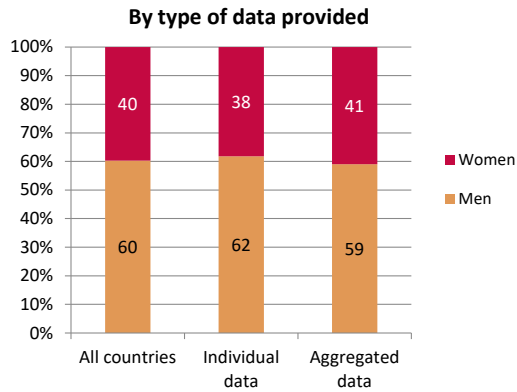


Registries providing individual patient data are shown as dark bars, and registries providing aggregated data as light bars.

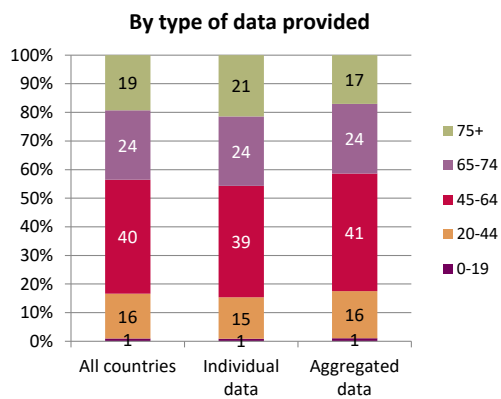
Detailed information on the contents of this figure can be found in tables B.4.2 and B.4.4 for registries providing individual patient data, and in tables C.4.2 and C.4.4 for registries providing aggregated data.

Adjustment of the prevalence was performed by standardising the prevalence to the age and sex distribution of the EU28 population.

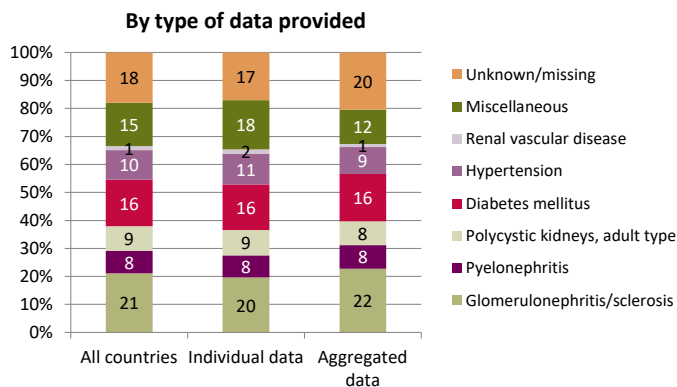
Figure A.3.3
Sex, age, and primary renal disease distribution by type of data provided
prevalent patients on December 31



This figure summarizes the data presented in tables B.4.3 and C.4.3.

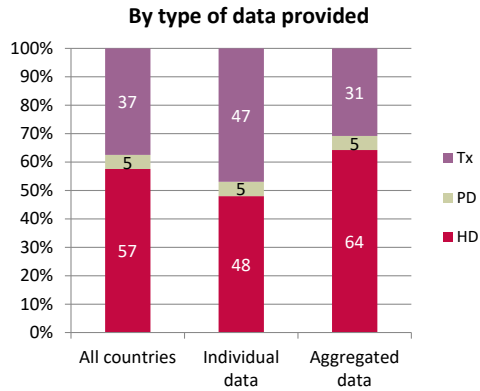


This figure summarizes the data presented in tables B.4.1 and C.4.1.



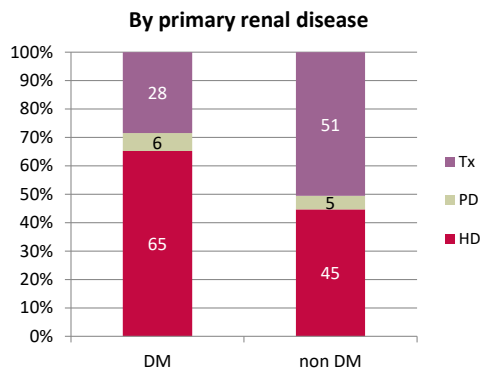
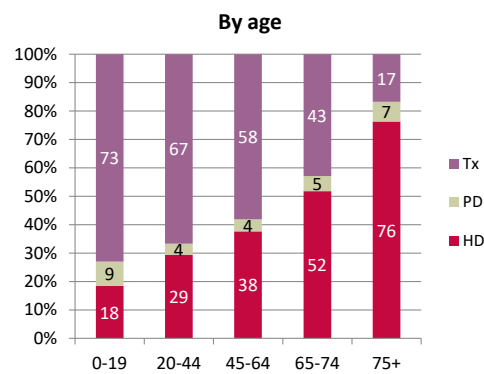
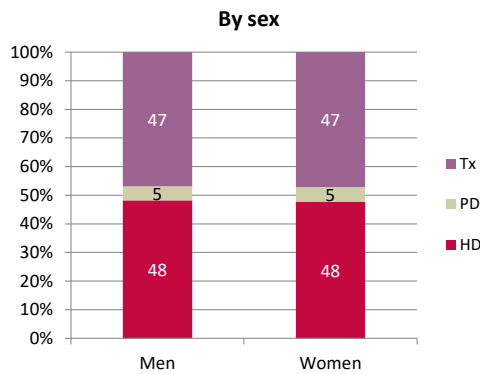
This figure summarizes the data presented in tables B.4.5 and C.4.5.

Figure A.3.4
Treatment modality distribution by age, sex and primary renal disease, unadjusted
prevalent patients on December 31



This figure summarizes the data presented in tables B.4.10 and C.4.8.

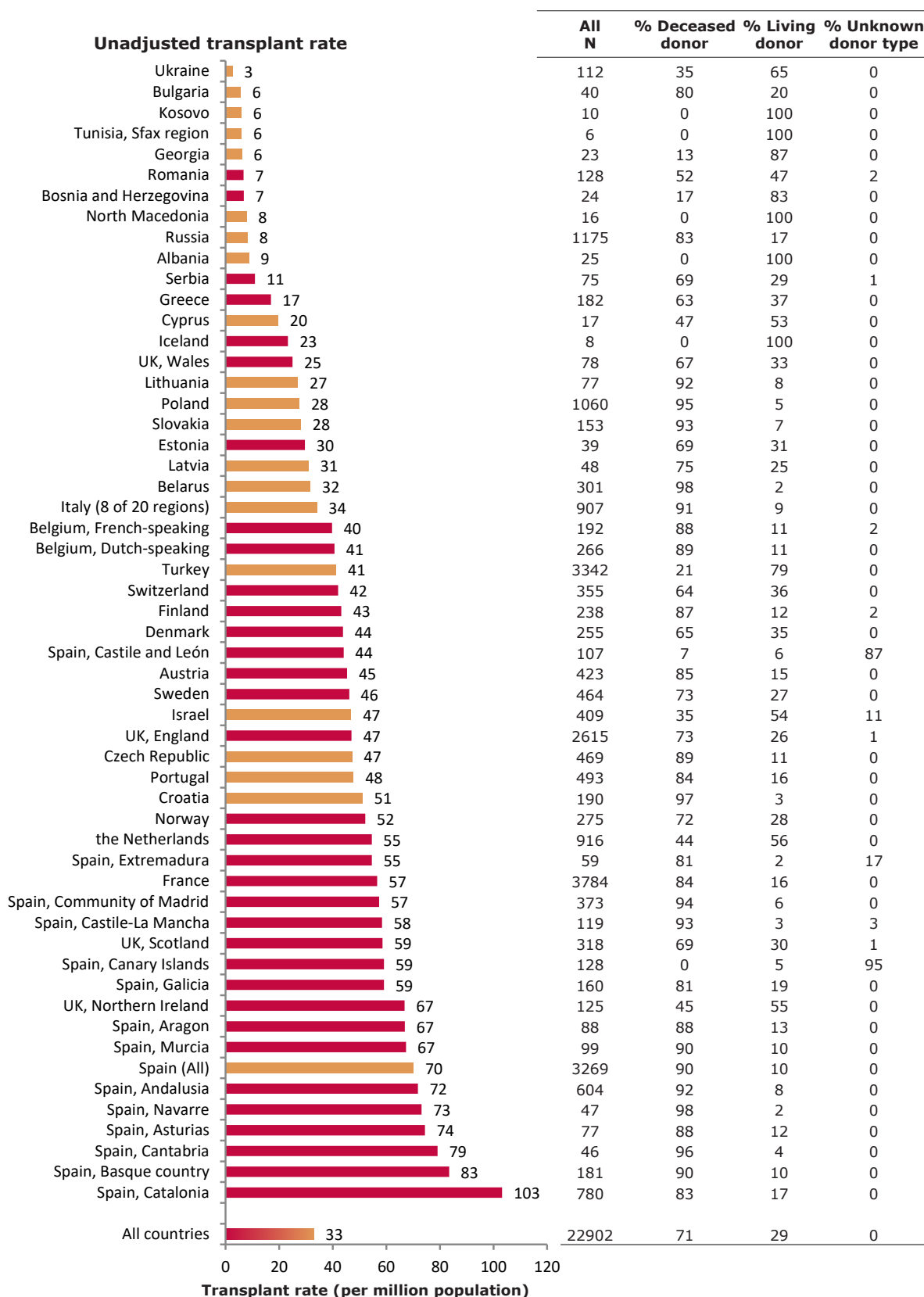
The figures below are only based on data from registries providing individual patient data.



These figures summarize the data presented in table B.4.11.

Abbreviations used: HD: haemodialysis; PD: peritoneal dialysis; Tx: transplant; DM: Diabetes Mellitus

Figure A.4.1
Kidney transplant counts and per million population by country / region, unadjusted



Registries providing individual patient data are shown as red bars, and registries providing aggregated data as orange bars.

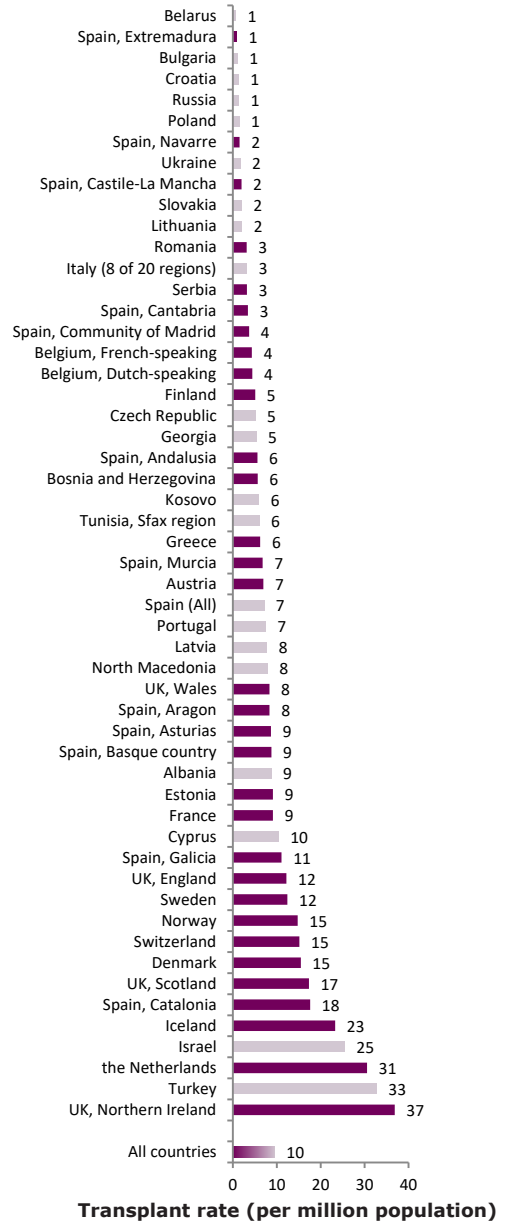
Detailed information on the contents of this figure can be found in tables B.5.1 and B.5.2 for registries providing individual patient data, and in tables C.5.1 and C.5.2 for registries providing aggregated data.

Figure A.4.2
Kidney transplants per million population by donor type and by country / region, unadjusted

Unadjusted deceased donor transplant rate



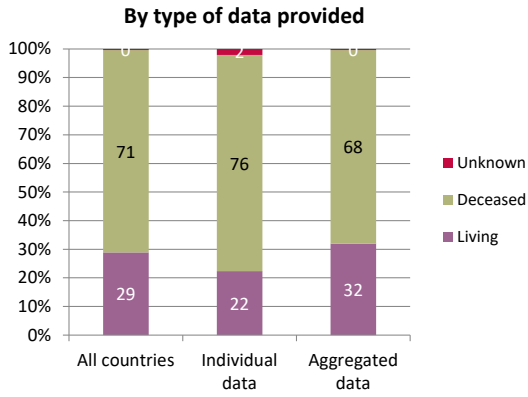
Unadjusted living donor transplant rate



Registries providing individual patient data are shown as dark bars, and registries providing aggregated data as light bars.

Detailed information on the contents of this figure can be found in table B.5.2 for registries providing individual patient data, and in table C.5.2 for registries providing aggregated data.

Figure A.4.3
Donor type distribution by type of data provided, unadjusted



This figure summarizes the data presented in table B.5.1 for registries providing individual patient data, and in table C.5.1 for registries providing aggregated data.

Table A.5.1

One-, two- and five-year survival probabilities by treatment modality and cohort*from day 1 of RRT / dialysis, or from day of transplant*

	Survival probabilities as % (95% CI)				
	cohort 2008 - 2012			cohort 2011 - 2015	
	1 year	2 year	5 year	1 year	2 year
Patient survival on RRT					
Unadjusted	83.9 (83.7-84.0)	73.7 (73.6-73.9)	50.8 (50.7-51.0)	84.8 (84.6-84.9)	74.8 (74.6-74.9)
Adjusted †	86.6 (86.4-86.7)	77.2 (77.0-77.4)	52.4 (52.1-52.7)	87.2 (87.1-87.4)	78.0 (77.8-78.2)
Patient survival on dialysis					
Unadjusted	82.8 (82.6-82.9)	71.2 (71.0-71.4)	42.2 (42.1-42.4)	83.6 (83.5-83.8)	72.1 (72.0-72.3)
Adjusted †	84.9 (84.8-85.1)	74.4 (74.2-74.6)	45.7 (45.4-46.1)	85.9 (85.8-86.1)	75.6 (75.4-75.9)
Patient survival after first kidney transplantation (deceased donor)					
Unadjusted	96.3 (96.1-96.5)	94.3 (94.0-94.5)	87.3 (87.0-87.6)	96.3 (96.1-96.5)	94.2 (94.0-94.5)
Adjusted ††	97.8 (97.7-98.0)	96.6 (96.4-96.8)	92.1 (91.8-92.4)	98.0 (97.9-98.1)	96.8 (96.7-97.0)
Graft survival after first kidney transplantation (deceased donor)					
Unadjusted	91.2 (90.9-91.5)	88.3 (88.0-88.6)	78.6 (78.2-79.0)	91.4 (91.1-91.7)	88.3 (88.0-88.6)
Adjusted ††	92.6 (92.3-92.9)	90.0 (89.7-90.4)	81.4 (80.9-81.9)	93.1 (92.9-93.4)	90.6 (90.3-91.0)
Patient survival after first kidney transplantation (living donor)					
Unadjusted	98.8 (98.6-99.0)	97.9 (97.6-98.2)	93.9 (93.5-94.4)	99.0 (98.8-99.2)	98.1 (97.8-98.3)
Adjusted ††	99.0 (98.8-99.2)	98.2 (98.0-98.5)	94.6 (94.2-95.1)	99.2 (99.0-99.3)	98.4 (98.1-98.6)
Graft survival after first kidney transplantation (living donor)					
Unadjusted	96.3 (96.0-96.7)	94.6 (94.2-95.0)	87.5 (86.9-88.1)	96.9 (96.5-97.2)	95.1 (94.7-95.5)
Adjusted ††	96.1 (95.7-96.5)	94.3 (93.8-94.8)	86.7 (86.0-87.4)	96.7 (96.3-97.0)	94.9 (94.5-95.3)

† Analyses were adjusted using fixed values: age (67 years), sex (63% men) and PRD (24% diabetes mellitus, 19% hypertension/renal vascular disease, 11% glomerulonephritis and 46% other causes)

†† Analyses were adjusted using fixed values: age (50 years), sex (63% men) and PRD (14% diabetes mellitus, 10% hypertension/renal vascular disease, 23% glomerulonephritis and 53% other causes)

This table summarizes the survival data presented in the tables B.6.1 to B.6.16, and is based on data from the following registries providing individual patient data: Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland).

Figure A.5.1
**Adjusted patient survival by modality:
 Incident dialysis patients**
from day 91, adjusted for age, sex, and primary renal disease

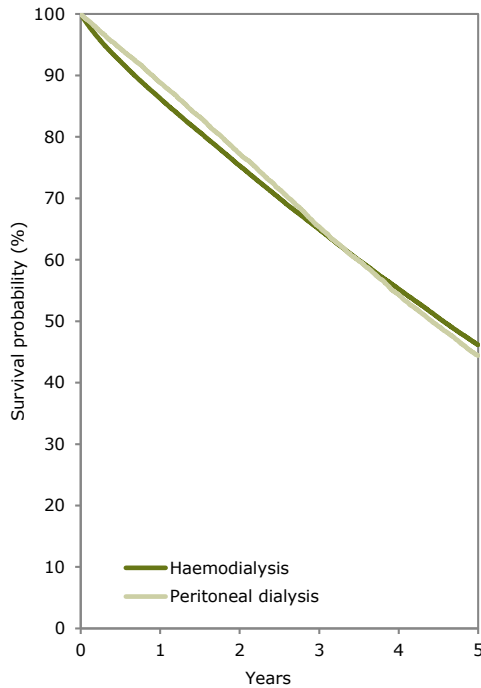
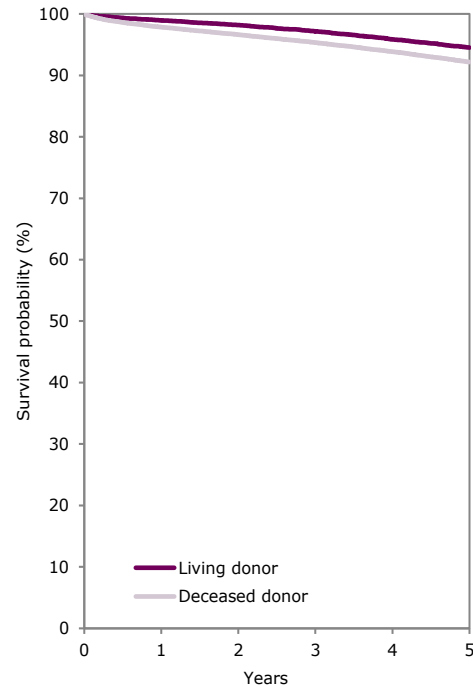


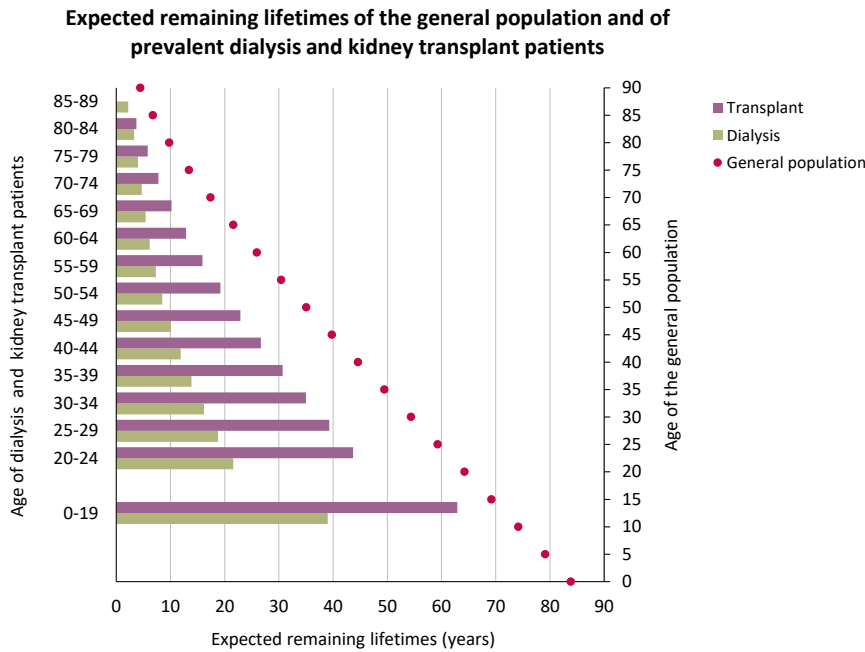
Figure A.5.2
**Adjusted patient survival by donot type:
 Patients receiving a first kidney transplant**
from day of transplant, adjusted for age, sex, and primary renal disease



Survival on dialysis was adjusted using fixed values: age (67 years), sex (63% men) and PRD (24% diabetes mellitus, 19% hypertension/renal vascular disease, 11% glomerulonephritis and 46% other causes). Survival after kidney transplantation was adjusted using fixed values: age (50 years), sex (63% men) and PRD (14% diabetes mellitus, 10% hypertension/renal vascular disease, 23% glomerulonephritis and 53% other causes).

These figures are based on patients starting dialysis or receiving a kidney transplant between 2008 and 2012 from the following registries providing individual patient data: Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland).

Figure A.6.1
Expected remaining lifetimes (years) of the general population (cohort 2013-2017) and of prevalent dialysis and kidney transplant patients (cohort 2013-2017)
by age and sex



This figure summarizes the data presented in table B.7.1, and is based on data from the following registries providing individual patient data: Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castille and León), Spain (Castille-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland).

Section B: Individual patient data reference tables

Table B.1.1
General population data and number of renal centres

	General population of country/region in thousands	% Coverage of general population by the registry for individual patient data	Total number of renal centres of country/region	Number of renal centres collaborating with the registry for individual patient data
Austria	8773	100	79	79
Belgium, Dutch-speaking	6543	100	26	26
Belgium, French-speaking	4832	100	24	24
Bosnia and Herzegovina	3531	100	27	27
Denmark	5821	100	15	15
Estonia	1317	100	3	3
Finland	5508	100	30	30
France	66865	100	1233	1233
Greece	10755	100	178	178
Iceland	343	100	1	1
Norway	5277	100	26	26
Romania	19587	97.0	138	135
Serbia	7021	97.0	63	60
Spain, Andalusia	8409	100	62	62
Spain, Aragon	1315	100	10	10
Spain, Asturias	1034	100	11	11
Spain, Basque country	2169	100	10	10
Spain, Canary Islands	2166	100	20	20
Spain, Cantabria	581	100	2	2
Spain, Castile and León	2427	100	22	22
Spain, Castile-La Mancha	2037	100	12	12
Spain, Catalonia	7556	100	47	47
Spain, Community of Madrid	6507	100	38	38
Spain, Extremadura	1080	100	13	13
Spain, Galicia	2707	100	25	25
Spain, Murcia	1470	100	13	13
Spain, Navarre	642	100	3	3
Sweden	10058	100	68	68
Switzerland	8452	100	95	95
the Netherlands &	17131	93-98	74	74
United Kingdom, All countries *	66040	100	72	71
United Kingdom, England *	55619	100	52	51
United Kingdom, Northern Ireland	1871	100	5	5
United Kingdom, Scotland	5425	100	10	10
United Kingdom, Wales	3125	100	5	5

& The percentage coverage is different for the incidence (93%), prevalence (97%) and transplant activity (98%) calculations.

* Due to one centre not submitting patient data since 2014, the percentage coverage is different for the incidence, prevalence and transplant activity calculations (please see footnotes in the concerned tables)

Table B.2.1
Incident counts and percentages by age and sex
at day 1

	All			0-19						20-44						45-64						65-74						75+					
	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women									
	N (100%)	N (100%)	N (100%)	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%								
Austria	1134	753	381	9	1	4	1	5	1	91	8	60	8	31	8	355	31	257	34	98	26	360	32	226	30	134	35	319	28	206	27	113	30
Belgium, Dutch-speaking *	1194	787	407							76	6	48	6	28	7	268	22	169	21	99	24	314	26	219	28	95	23	536	45	351	45	185	45
Belgium, French-speaking *	941	589	352							67	7	40	7	27	8	265	28	166	28	99	28	268	28	176	30	92	26	341	36	207	35	134	38
Bosnia and Herzegovina	381	230	151	4	1	3	1	1	1	42	11	27	12	15	10	159	42	107	47	52	34	114	30	64	28	50	33	62	16	29	13	33	22
Denmark	761	507	254	12	2	6	1	6	2	88	12	59	12	29	11	242	32	154	30	88	35	213	28	149	29	64	25	206	27	139	27	67	26
Estonia	87	49	38	3	3	2	4	1	3	17	20	11	22	6	16	29	33	17	35	12	32	21	24	10	20	11	29	17	20	9	18	8	21
Finland	549	346	203	15	3	9	3	6	3	78	14	48	14	30	15	183	33	114	33	69	34	168	31	110	32	58	29	105	19	65	19	40	20
France	11571	7397	4174	128	1	79	1	49	1	994	9	585	8	409	10	3002	26	1921	26	1081	26	3081	27	2021	27	1060	25	4366	38	2791	38	1575	38
Greece	2712	1753	959	11	0	7	0	4	0	130	5	82	5	48	5	579	21	410	23	169	18	709	26	466	27	243	25	1283	47	788	45	495	52
Iceland	49	33	16	2	4	1	3	1	6	3	6	2	6	1	6	17	35	11	33	6	38	16	33	12	36	4	25	11	22	7	21	4	25
Norway	584	392	192	9	2	7	2	2	1	72	12	39	10	33	17	188	32	123	31	65	34	161	28	113	29	48	25	154	26	110	28	44	23
Romania	3559	2090	1469	28	1	14	1	14	1	411	12	241	12	170	12	1414	40	873	42	541	37	1012	28	561	27	451	31	694	19	401	19	293	20
Serbia	678	439	239	38	6	26	6	12	5	92	14	70	16	22	9	279	41	178	41	101	42	181	27	114	26	67	28	88	13	51	12	37	15
Spain, Andalusia	1107	723	384	16	1	11	2	5	1	122	11	77	11	45	12	376	34	262	36	114	30	305	28	204	28	101	26	288	26	169	23	119	31
Spain, Aragon	168	120	48	2	1	2	2	0	0	20	12	12	10	8	17	47	28	30	25	17	35	46	27	33	28	13	27	53	32	43	36	10	21
Spain, Asturias	161	103	58	1	1	1	1	0	0	15	9	9	9	6	10	41	25	32	31	9	16	60	37	37	36	23	40	44	27	24	23	20	34
Spain, Basque country	249	176	73	5	2	3	2	2	3	29	12	17	10	12	16	72	29	51	29	21	29	80	32	58	33	22	30	63	25	47	27	16	22
Spain, Canary Islands	346	213	133	2	1	2	1	0	0	43	12	19	9	24	18	120	35	71	33	49	37	96	28	62	29	34	26	85	25	59	28	26	20
Spain, Cantabria *	65	46	19							7	11	5	11	2	11	22	34	13	28	9	47	19	29	17	37	2	11	17	26	11	24	6	32
Spain, Castile and León *	296	206	90							17	6	12	6	5	6	97	33	65	32	32	36	80	27	65	32	15	17	102	34	64	31	38	42
Spain, Castile-La Mancha *	265	185	80							18	7	9	5	9	11	88	33	62	34	26	33	78	29	59	32	19	24	81	31	55	30	26	33
Spain, Catalonia	1250	858	392	18	1	12	1	6	2	110	9	76	9	34	9	334	27	237	28	97	25	339	27	236	28	103	26	449	36	297	35	152	39
Spain, Community of Madrid	865	593	272	13	2	8	1	5	2	83	10	47	8	36	13	275	32	188	32	87	32	222	26	164	28	58	21	272	31	186	31	86	32
Spain, Extremadura	119	79	40	2	2	1	1	1	3	12	10	6	8	6	15	44	37	29	37	15	38	34	29	25	32	9	23	27	23	18	23	9	23
Spain, Galicia	416	280	136	3	1	2	1	1	1	38	9	25	9	13	10	132	32	88	31	44	32	136	33	99	35	37	27	107	26	66	24	41	30
Spain, Murcia	202	150	52	1	0	1	1	0	0	18	9	15	10	3	6	69	34	49	33	20	38	63	31	49	33	14	27	51	25	36	24	15	29
Spain, Navarre *	79	49	30							10	13	4	8	6	20	23	29	13	27	10	33	24	30	18	37	6	20	22	28	14	29	8	27
Sweden	1165	787	378	24	2	16	2	8	2	135	12	96	12	39	10	346	30	227	29	119	31	330	28	216	27	114	30	330	28	232	29	98	26
Switzerland	824	527	297	10	1	5	1	5	2	85	10	47	9	38	13	233	28	151	29	82	28	229	28	160	30	69	23	267	32	164	31	103	35
the Netherlands	1839	1157	682	26	1	17	1	9	1	161	9	103	9	58	9	596	32	348	30	248	36	582	32	366	32	216	32	474	26	323	28	151	22
United Kingdom, All countries * ¶	7865	5041	2824							1234	16	739	15	495	18	2914	37	1855	37	1059	38	1924	24	1231	24	693	25	1793	23	1216	24	577	20
United Kingdom, England * ¶	6649	4271	2378							1046	16	623	15	423	18	2456	37	1567	37	889	37	1619	24	1045	24	574	24	1528	23	1036	24	492	21
United Kingdom, Northern Ireland *	212	136	76							29	14	16	12	13	17	67	32	43	32	24	32	54	25	37	27	17	22	62	29	40	29	22	29
United Kingdom, Scotland	639	383	256	14	2	11	3	3	1	98	15	56	15	42	16	270	42	167	44	103	40	145	23	74	19	71	28	112	18	75	20	37	14
United Kingdom, Wales *	379	262	117							61	16	44	17	17	15	121	32	78	30	43	37	106	28	75	29	31	26	91	24	65	25	26	22

Categories may not add up because of missing values or rounding off

* Patients younger than 20 years of age are not reported

¶ The incidence is underestimated by approximately 2% due to one centre not submitting data since 2014

Table B.2.2
Incidence per million (age-related) population by age and sex, unadjusted
at day 1

	All			0-19			20-44			45-64			65-74			75+		
	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women
	Pmp	Pmp	Pmp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp
Austria	129.3	174.6	85.4	5.2	4.5	6.0	31.3	40.7	21.6	140.6	205.0	77.1	437.0	589.6	304.2	397.9	652.6	232.5
Belgium, Dutch-speaking *	182.5	243.1	123.1				37.7	47.2	28.0	147.6	184.5	110.0	470.1	674.3	276.8	849.9	1368.7	494.4
Belgium, French-speaking *	194.7	249.1	142.6				41.5	49.3	33.6	211.3	266.7	156.8	613.0	867.5	392.6	904.2	1483.3	564.0
Bosnia and Herzegovina	107.9	132.8	83.9	5.1	7.4	2.6	34.3	43.4	25.0	156.0	215.4	99.5	387.7	496.4	302.8	298.1	361.5	258.3
Denmark	130.7	174.9	86.9	9.1	8.8	9.3	47.6	62.9	31.8	157.5	199.8	114.9	328.0	472.2	191.7	447.0	716.4	251.1
Estonia	66.0	79.1	54.4	10.9	14.2	7.5	38.6	48.4	28.1	83.8	104.0	65.8	161.7	195.0	139.9	134.4	248.7	88.6
Finland	99.7	127.4	72.7	12.6	14.8	10.3	45.5	54.5	36.0	127.1	158.9	95.5	253.1	349.2	166.3	209.7	336.5	130.0
France	173.0	228.7	120.9	7.9	9.5	6.2	49.3	58.7	40.1	172.5	226.7	121.1	448.3	627.1	290.4	711.9	1182.0	417.6
Greece	252.2	336.1	173.1	5.3	6.5	3.9	38.4	48.3	28.5	196.2	290.5	109.8	623.2	878.4	400.2	1076.2	1566.3	718.3
Iceland	142.7	189.3	94.6	22.5	22.0	22.9	24.5	31.3	17.1	203.4	261.2	144.7	574.2	858.9	287.9	540.7	784.6	350.2
Norway	110.7	147.4	73.3	7.1	10.8	3.3	40.6	42.7	38.2	138.8	178.1	98.0	314.5	446.5	185.5	412.0	712.5	200.6
Romania	187.3	225.0	151.3	7.0	6.8	7.2	64.3	73.2	54.9	272.1	340.3	205.7	535.8	684.8	421.6	454.1	716.4	302.5
Serbia	99.6	132.3	68.4	28.8	38.3	18.8	41.1	61.5	20.0	145.4	191.4	102.1	234.2	328.4	157.4	155.9	228.4	108.5
Spain, Andalusia	131.6	174.0	90.3	8.9	11.9	5.7	42.8	53.2	32.0	160.3	224.9	96.6	409.2	579.1	256.9	433.5	641.2	296.9
Spain, Aragon	127.8	184.7	72.2	8.1	15.7	0	48.9	57.4	40.0	124.9	157.7	91.4	347.0	523.8	186.9	354.6	718.7	111.6
Spain, Asturias	155.7	208.3	107.5	6.6	12.8	0	49.3	58.8	39.7	127.2	203.8	54.4	481.3	643.0	342.6	335.1	491.5	242.5
Spain, Basque country	114.8	167.6	65.3	12.4	14.4	10.2	45.4	53.1	37.7	111.4	160.3	64.0	331.8	514.6	171.4	263.0	514.0	108.0
Spain, Canary Islands	159.7	198.0	122.0	4.9	9.6	0	55.4	48.8	62.0	186.6	219.2	153.6	508.4	681.2	347.6	554.8	926.5	290.4
Spain, Cantabria *	111.8	162.1	63.8	39.0	55.0	22.6	125.8	150.0	102.0	125.8	150.0	102.0	307.5	582.3	61.4	274.0	465.7	156.1
Spain, Castile and León *	122.0	171.8	73.3	24.2	33.3	14.6	132.9	175.3	89.2	132.9	175.3	89.2	296.4	491.3	109.0	307.9	481.0	191.7
Spain, Castile-La Mancha *	130.1	180.9	78.9				26.6	25.7	27.6	156.0	214.6	94.5	445.6	696.3	210.4	392.5	646.0	214.5
Spain, Catalonia	165.4	231.3	101.9	11.7	15.1	8.0	42.9	58.4	26.9	163.0	233.1	94.0	479.8	718.6	272.4	648.2	1101.3	359.3
Spain, Community of Madrid	132.9	190.3	80.2	9.8	11.8	7.8	36.4	41.9	31.1	154.5	221.5	93.5	382.9	629.9	181.5	497.6	901.0	252.8
Spain, Extremadura	110.2	147.6	73.4	9.9	9.6	10.1	34.4	33.6	35.2	142.0	184.0	98.5	333.5	511.2	169.7	232.8	393.9	128.0
Spain, Galicia	153.7	214.2	97.2	7.0	9.0	4.8	46.1	60.2	31.8	168.5	229.1	110.2	428.3	664.8	219.4	304.2	482.5	190.8
Spain, Murcia	137.4	203.7	70.8	2.9	5.7	0	34.5	55.5	11.9	179.9	253.5	105.1	551.9	915.0	231.0	461.8	807.6	227.8
Spain, Navarre *	123.0	154.3	92.5				49.3	39.0	59.9	127.4	142.2	112.2	382.8	594.6	185.1	348.6	557.2	210.6
Sweden	115.8	155.9	75.5	10.4	13.4	7.1	41.3	57.2	24.5	139.5	181.2	96.9	296.0	394.1	201.1	376.5	622.6	194.5
Switzerland	97.5	125.8	69.7	5.9	5.7	6.1	29.9	32.7	27.1	97.9	126.2	69.3	279.9	408.3	161.8	371.6	565.7	240.3
the Netherlands	115.4	146.3	85.0	7.3	9.4	5.2	32.8	41.6	23.8	132.6	154.7	110.5	338.7	433.2	247.3	377.0	620.6	204.9
United Kingdom, All countries * ¶	119.1	154.7	84.4				57.4	68.5	46.2	171.1	221.3	122.5	292.2	388.3	202.9	331.8	532.5	184.9
United Kingdom, England * ¶	119.5	155.4	84.5				57.5	68.1	46.7	172.7	223.4	123.4	294.6	394.9	201.5	336.9	538.6	188.4
United Kingdom, Northern Ireland *	113.3	147.8	80.0				48.0	53.5	42.7	139.7	182.3	98.4	320.9	457.3	194.6	460.2	720.0	277.9
United Kingdom, Scotland	117.8	145.1	91.9	12.1	18.6	5.3	55.7	64.4	47.3	180.0	229.6	133.3	256.8	274.4	240.8	250.0	411.0	139.4
United Kingdom, Wales *	121.3	170.1	73.8				64.2	91.8	36.1	146.3	193.3	101.5	297.2	433.0	169.0	317.5	531.3	158.2

* Patients younger than 20 years of age are not reported

¶ The incidence is underestimated by approximately 2% due to one centre not submitting data since 2014

Table B.2.3
Sex, mean age, and median age of incident patients
at day 1

	All						Men						Women					
	%	Mean (years)	SD	Median (years)	P25	P75	%	Mean (years)	SD	Median (years)	P25	P75	%	Mean (years)	SD	Median (years)	P25	P75
Austria	100	65.7	14.6	68.8	57.8	76.2	66.4	65.5	14.4	68.4	57.8	76.3	33.6	66.1	15.1	69.4	58.0	76.0
Belgium, Dutch-speaking *	100	70.6	14.2	73.4	62.8	81.3	65.9	70.6	14.0	73.1	63.5	81.1	34.1	70.5	14.4	74.0	61.9	81.6
Belgium, French-speaking *	100	68.3	13.9	70.7	60.6	79.0	62.6	68.4	13.5	70.7	60.8	78.7	37.4	68.1	14.7	70.7	60.3	79.3
Bosnia and Herzegovina	100	61.9	13.8	63.5	53.8	71.9	60.4	60.6	13.5	62.1	53.4	70.2	39.6	63.7	14.1	66.9	54.7	74.4
Denmark	100	63.8	16.1	67.5	55.1	75.9	66.6	64.2	16.1	68.2	54.8	76.2	33.4	63.1	16.2	65.6	55.9	75.7
Estonia	100	57.0	18.7	60.3	45.4	70.8	56.3	54.8	19.6	56.9	42.1	70.1	43.7	59.7	17.4	65.0	48.4	73.1
Finland	100	60.9	17.0	64.9	51.7	72.6	63.0	61.3	16.5	65.3	52.9	72.3	37.0	60.1	17.8	63.9	49.8	73.0
France	100	67.7	16.1	70.5	59.2	79.8	63.9	67.9	15.7	70.6	60.0	79.7	36.1	67.3	16.7	70.3	57.7	80.2
Greece	100	71.3	13.9	74.0	64.4	81.5	64.6	70.6	13.7	72.9	63.5	80.8	35.4	72.6	14.0	76.0	65.6	82.7
Iceland	100	62.2	17.3	66.3	51.3	71.5	67.3	62.5	17.5	66.7	51.3	71.5	32.7	61.5	17.5	64.6	52.6	74.5
Norway	100	63.5	16.3	66.9	53.6	75.2	67.1	64.7	16.0	68.3	55.6	76.0	32.9	60.9	16.5	64.0	49.3	74.2
Romania	100	62.3	14.4	64.3	54.4	72.5	58.7	62.2	14.2	63.7	53.6	72.1	41.3	62.6	14.7	65.1	55.3	72.9
Serbia	100	57.4	19.1	62.4	50.2	68.9	64.7	56.7	19.4	61.8	48.2	68.6	35.3	58.7	18.7	62.6	51.7	69.8
Spain, Andalusia	100	63.6	15.8	66.5	54.9	75.3	65.3	63.1	15.6	66.1	54.4	74.3	34.7	64.5	16.1	67.3	56.2	76.8
Spain, Aragon	100	64.5	16.1	68.6	52.3	77.3	71.4	65.9	16.2	69.8	58.6	77.6	28.6	61.1	15.6	62.9	47.9	73.5
Spain, Asturias	100	67.0	14.6	71.1	60.6	76.4	64.0	65.4	14.6	68.9	58.1	74.9	36.0	69.8	14.3	73.2	64.3	79.7
Spain, Basque country	100	63.7	16.5	67.2	55.7	75.2	70.7	64.7	15.8	68.2	56.3	75.3	29.3	61.3	18.0	65.6	52.8	73.9
Spain, Canary Islands	100	63.8	15.3	66.1	55.6	74.6	61.6	65.3	14.9	67.1	57.5	76.5	38.4	61.4	15.7	63.3	53.3	73.9
Spain, Cantabria *	100	64.7	13.8	67.5	57.8	75.0	70.8	64.9	14.3	68.1	58.0	74.8	29.2	64.3	13.1	63.4	55.4	76.6
Spain, Castile and León *	100	67.3	13.0	68.9	58.3	77.4	69.6	67.3	12.5	68.5	59.3	76.5	30.4	67.5	14.2	70.4	55.9	79.2
Spain, Castile-La Mancha *	100	66.2	13.4	68.5	57.3	76.9	69.8	66.6	12.9	68.7	58.5	76.5	30.2	65.4	14.6	67.4	54.6	77.3
Spain, Catalonia	100	66.7	15.7	70.3	58.2	78.3	68.6	66.6	15.3	69.8	58.3	77.9	31.4	66.8	16.5	71.1	57.9	79.3
Spain, Community of Madrid	100	65.0	15.8	68.0	56.3	77.0	68.6	65.7	15.1	68.7	57.8	76.9	31.4	63.6	17.1	66.2	53.2	77.1
Spain, Extremadura	100	63.3	14.9	65.3	53.9	74.5	66.4	65.0	13.5	66.3	57.1	74.5	33.6	60.1	17.2	60.3	48.0	74.5
Spain, Galicia	100	65.2	14.0	68.0	57.2	75.3	67.3	65.1	14.0	68.1	57.0	74.5	32.7	65.4	14.3	67.8	57.3	76.6
Spain, Murcia	100	64.9	14.2	67.7	56.6	75.1	74.3	64.4	14.6	67.5	55.7	74.8	25.7	66.3	13.0	68.0	57.7	77.2
Spain, Navarre *	100	65.1	14.9	68.4	56.9	76.5	62.0	67.2	13.0	70.2	58.5	76.5	38.0	61.7	17.3	62.6	48.8	75.9
Sweden	100	63.8	17.1	67.7	54.9	76.2	67.6	64.0	17.3	67.8	54.9	76.9	32.4	63.6	16.7	67.4	54.9	75.3
Switzerland	100	65.5	16.2	68.8	56.4	77.6	64.0	65.8	15.6	68.8	57.4	77.5	36.0	64.9	17.1	69.1	56.1	77.9
the Netherlands	100	64.5	15.2	68.1	55.7	75.4	62.9	65.0	15.3	69.1	56.5	76.1	37.1	63.6	15.0	66.5	55.3	74.4
United Kingdom, All countries *	100	61.8	15.6	63.9	51.3	74.0	64.1	62.4	15.5	64.3	52.2	74.6	35.9	60.8	15.7	63.1	49.8	73.1
United Kingdom, England *	100	61.9	15.6	63.9	51.2	74.1	64.2	62.5	15.5	64.4	52.1	74.6	35.8	60.7	15.8	63.0	49.7	73.3
United Kingdom, Northern Ireland *	100	63.7	16.2	67.7	53.1	77.2	64.2	64.3	16.4	68.7	54.4	77.3	35.8	62.7	16.1	66.7	48.2	75.5
United Kingdom, Scotland	100	59.3	16.3	61.9	50.4	72.2	59.9	59.3	16.8	61.4	50.7	72.7	40.1	59.2	15.7	62.3	50.4	71.0
United Kingdom, Wales *	100	62.9	16.2	66.3	51.7	74.3	69.1	63.3	16.3	67.1	52.2	74.9	30.9	62.1	16.0	64.4	51.5	73.6

Categories may not add up because of missing values or rounding off

* Patients younger than 20 years of age are not reported

Table B.2.4
Incidence per million population, adjusted
at day 1, adjusted for age and sex

	All	Men	Women
	Pmp	Pmp	Pmp
Austria	129.3	174.9	85.8
Belgium, Dutch-speaking *	172.0	226.1	120.3
Belgium, French-speaking *	217.0	280.0	156.9
Bosnia and Herzegovina	118.0	146.1	91.1
Denmark	130.6	173.7	89.5
Estonia	67.7	84.1	52.0
Finland	95.9	121.7	71.3
France	173.9	227.1	123.1
Greece	222.6	290.9	157.5
Iceland	171.3	226.7	118.4
Norway	119.4	159.3	81.3
Romania	190.7	235.5	148.0
Serbia	94.2	125.7	64.1
Spain, Andalusia	139.6	184.1	97.1
Spain, Aragon	119.3	172.1	69.0
Spain, Asturias	129.3	173.3	87.4
Spain, Basque country	104.7	150.0	61.5
Spain, Canary Islands	170.8	213.0	130.5
Spain, Cantabria *	106.7	154.5	61.1
Spain, Castile and León *	101.6	141.1	63.9
Spain, Castile-La Mancha *	132.8	187.1	81.1
Spain, Catalonia	168.4	235.2	104.6
Spain, Community of Madrid	144.2	206.0	85.2
Spain, Extremadura	105.7	141.2	71.8
Spain, Galicia	133.0	182.9	85.3
Spain, Murcia	158.1	238.3	81.7
Spain, Navarre *	119.3	147.0	92.9
Sweden	115.2	154.3	77.8
Switzerland	98.6	126.3	72.3
the Netherlands	114.3	143.4	86.5
United Kingdom, All countries * ¶	124.2	160.1	90.0
United Kingdom, England * ¶	125.4	161.8	90.8
United Kingdom, Northern Ireland *	125.7	162.5	90.6
United Kingdom, Scotland	118.1	145.0	92.5
United Kingdom, Wales *	118.2	164.5	73.9

* Patients younger than 20 years of age are not reported

¶ The incidence is underestimated by approximately 2% due to one centre not submitting data since 2014

Table B.2.6
Incidence per million population by primary renal disease, adjusted
at day 1, adjusted for age and sex

	All	GN	PN	PKD	DM			HT	RVD	Misc	Unkn	Missing
	Pmp	Pmp	Pmp	Pmp	Type 1	Type 2	Both	Pmp	Pmp	Pmp	Pmp	Pmp
					Pmp	Pmp	Pmp					
Austria	129.3	14.1	3.3	7.0	3.2	31.9	35.2	11.8	16.0	28.2	13.8	0
Belgium, Dutch-speaking *	172.0	18.4	4.8	8.8	3.6	33.5	37.1	17.6	7.8	65.0	12.5	0
Belgium, French-speaking *	217.0	15.9	5.6	9.4	4.6	48.6	53.2	45.9	3.4	59.6	24.1	0
Bosnia and Herzegovina	118.0	13.8	14.0	4.1	10.4	24.7	35.2	20.9	1.5	14.1	14.4	0
Denmark	130.6	13.3	8.4	6.6	8.2	25.6	33.8	20.1	2.4	23.4	22.6	0
Estonia	67.7	12.9	2.3	3.2			12.6	18.5	0.7	17.5	0	0
Finland	95.9	15.0	4.9	6.8	19.1	13.2	32.4	5.8	0.2	16.7	14.0	0
France	173.9	19.9	8.3	11.2			40.4	41.0	1.8	24.9	26.4	0
Greece	222.6	14.9	10.3	8.9	3.7	52.7	56.4	22.2	3.0	29.4	77.5	0
Iceland	171.3	17.1	3.2	6.7	6.5	6.6	13.1	58.1	10.1	28.6	27.1	7.3
Norway	119.4	19.5	4.6	10.1	6.6	14.4	21.0	34.9	1.1	25.1	2.8	0.4
Romania	190.7	15.6	7.0	3.8			23.9	14.0	0.8	30.6	95.0	0
Serbia	94.2	11.8	7.5	4.8			27.6	23.0	0.5	12.9	6.1	0
Spain, Andalusia	139.6	18.6	7.9	7.5			34.5	18.9	1.3	24.4	26.4	0
Spain, Aragon	119.3	17.9	8.1	7.2	3.0	29.8	32.8	17.2	0.5	15.9	19.7	0
Spain, Asturias	129.3	17.5	8.6	7.0	4.3	28.1	32.5	24.7	1.2	23.1	14.7	0
Spain, Basque country	104.7	12.2	6.5	8.1	2.6	26.9	29.6	17.4	0	16.9	13.5	0.4
Spain, Canary Islands	170.8	15.1	7.3	9.2	4.7	58.4	63.2	18.0	1.0	32.8	21.2	3.1
Spain, Cantabria *	106.7	22.5	8.3	7.7	0	21.1	21.1	15.9	6.6	8.2	3.1	13.4
Spain, Castile and León * ‡	101.6	16.8	3.9	7.3	5.7	20.0	25.7	15.1	0	17.5	15.1	0
Spain, Castile-La Mancha *	132.8	18.8	7.4	10.4			36.8	7.2	2.0	20.7	29.6	0
Spain, Catalonia	168.4	15.9	6.7	8.8	1.9	32.8	35.1	10.8	4.2	37.4	49.4	0
Spain, Community of Madrid	144.2	19.6	7.0	9.7	2.2	36.4	38.6	20.0	2.3	35.3	11.7	0
Spain, Extremadura	105.7	17.1	8.5	8.6			26.0	6.9	3.3	12.9	22.4	0
Spain, Galicia	133.0	18.5	3.2	14.4	3.4	28.1	31.6	14.4	0.9	25.1	29.3	0
Spain, Murcia	158.1	26.2	5.6	9.7			38.7	18.5	8.3	18.4	32.8	0
Spain, Navarre *	119.3	13.5	3.2	13.1	3.0	25.1	28.1	26.3	0	15.7	19.4	0
Sweden ‡	115.2	15.5	4.7	9.1	7.8	20.5	28.2	22.7	1.1	25.0	8.8	0
Switzerland	98.6	13.7	2.2	5.2	3.8	15.4	19.2	21.0	2.7	26.1	8.3	0
the Netherlands	114.3	9.9	4.2	6.1	3.6	19.3	22.9	16.7	13.1	23.8	14.4	3.2
United Kingdom, All countries * ¶ #	124.2	14.9	6.3	7.0			31.5	6.7	2.2	21.8	16.0	17.8
United Kingdom, England * ¶ #	125.4	13.9	6.2	6.6			31.5	7.1	2.2	20.8	16.3	20.9
United Kingdom, Northern Ireland * #	125.7	16.5	8.9	8.4			29.1	4.4		21.4	25.8	8.9
United Kingdom, Scotland	118.1	21.0	7.9	9.8			31.8	4.2	2.4	27.6	13.2	0.2
United Kingdom, Wales * #	118.2	20.3	6.6	9.5			33.4	5.2		29.2	11.5	

Abbreviations used: GN: glomerulonephritis/sclerosis; PN: pyelonephritis; PKD: polycystic kidneys, adult type; DM: diabetes mellitus; HT: hypertension; RVD: renal vascular disease; Misc: miscellaneous; Unkn: unknown
 Categories may not add up because of rounding off or a limited number of cases (<10%) with diabetes mellitus type unknown; When cells are left empty, (complete) data are unavailable

* Patients younger than 20 years of age are not reported

‡ Mapping the 2018 Primary Renal Disease (PRD) codes to the old PRD codes results in a different distribution of PRD groups

¶ The incidence is underestimated by approximately 2% due to one centre not submitting data since 2014

Values based on 1 to 5 patients are suppressed

Table B.2.7
Incident counts by treatment modality
at day 1

	All	Haemodialysis						Peritoneal dialysis				Preemptive kidney transplant				Unkn	Missing
		HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx		
		N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Austria	1134	904	0	23	11	66	1004	19	75	6	100	20	10	0	30	0	0
Belgium, Dutch-speaking *	1194	779	4	0	2	246	1031	58	81	0	139	10	14	0	24	0	0
Belgium, French-speaking *	941	556	10	0	19	236	821	29	62	0	91	10	19	0	29	0	0
Bosnia and Herzegovina	381	346	0	0	0	26	372	0	9	0	9	0	0	0	0	0	0
Denmark &	761	461	2	0			463	91	136	5	232	27	39	0	66	0	0
Estonia	87	65	0	0	0	0	65	7	14	0	21	0	1	0	1	0	0
Finland	549	381	13	0	0	1	395	40	103	0	143	7	4	0	11	0	0
France	11571	7720	3	8	21	2088	9840	263	906	1	1170	206	355	0	561	0	0
Greece	2712	2552	0	0	0	11	2563	29	113	0	142	7	0	0	7	0	0
Iceland	49	29	0	0			29	0	0	15	15	5	0	0	5	0	0
Norway	584	364	0	0			364			147	147	40	33	0	73	0	0
Romania	3559	3475	0	0	1	1	3477	1	67	0	68	7	7	0	14	0	0
Serbia	678	515	5	2	0	36	558	1	94	0	95	1	24	0	25	0	0
Spain, Andalusia	1107	882	2	0			884			158	158	24	41	0	65	0	0
Spain, Aragon	168	105	0	0		18	123	5	25	0	30	9	6	0	15	0	0
Spain, Asturias	161	119	0	0		0	119	13	25	0	38	2	2	0	4	0	0
Spain, Basque country	249	181	3	0			184	2	52	0	54	8	3	0	11	0	0
Spain, Canary Islands	346	288	0	0	0	0	288	0	0	53	53	4	0	1	5	0	0
Spain, Cantabria *	65	50	0	0			50	2	9	0	11	2	2	0	4	0	0
Spain, Castile and León *	296	227	1	0			228	26	33	0	59	5	2	2	9	0	0
Spain, Castile-La Mancha *	265	203	1	0			204	8	48	0	56	1	4	0	5	0	0
Spain, Catalonia	1250	789	0	0		200	989	21	152	0	173	67	21	0	88	0	0
Spain, Community of Madrid	865	686	0	0			686	31	113	0	144	13	22	0	35	0	0
Spain, Extremadura	119	100	1	0			101	7	8	0	15	0	0	0	0	0	3
Spain, Galicia	416	302	7	0	0	0	309	3	89	0	92	14	1	0	15	0	0
Spain, Murcia	202	177	0	0	0	0	177	1	20	0	21	4	0	0	4	0	0
Spain, Navarre *	79	55	1	0			56	20	1	0	21	1	1	0	2	0	0
Sweden	1165	692	10	0			702			371	371	48	44	0	92	0	0
Switzerland	824	634	8	13	0	0	655	30	74	0	104	49	16	0	65	0	0
the Netherlands	1839	1285	1	0		5	1291	78	229	0	307	211	29	0	240	1	0
United Kingdom, All countries * ¶ § #	7865	4953	19		15	678	5666	657	842	16	1515	302	351	31	684	0	0
United Kingdom, England * ¶ #	6649	4061	17		14	661	4754	572	731	16	1319	240	305	31	576	0	0
United Kingdom, Northern Ireland * #	212	135		0			139	29		0	32	33	8	0	41	0	0
United Kingdom, Scotland	639	501	0	0			501	35	49	0	84	25	29	0	54	0	0
United Kingdom, Wales * #	379	263		0	0	15	279	24	59	0	83	6	11	0	17	0	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant

When cells are left empty, (complete) data are unavailable

* Patients younger than 20 years of age are not reported

& No distinction is made between HD and HDF

|| The incidence of pre-emptive transplantation is underestimated by approximately 30%

¶ The incidence is underestimated by approximately 2% due to one centre not submitting data since 2014

§ HDF is not accurately captured from some units and so usage may be an underestimate for the UK

Values based on 1 to 5 patients are suppressed

Table B.2.8
Incidence per million population by treatment modality, unadjusted
at day 1

	All	Haemodialysis						Peritoneal dialysis				Preemptive kidney transplant				Unkn	Missing
		HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx		
	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp
Austria	129.3	103.0	0	2.6	1.3	7.5	114.4	2.2	8.5	0.7	11.4	2.3	1.1	0	3.4	0	0
Belgium, Dutch-speaking *	182.5	119.1	0.6	0	0.3	37.6	157.6	8.9	12.4	0	21.2	1.5	2.1	0	3.7	0	0
Belgium, French-speaking *	194.7	115.1	2.1	0	3.9	48.8	169.9	6.0	12.8	0	18.8	2.1	3.9	0	6.0	0	0
Bosnia and Herzegovina	107.9	98.0	0	0	0	7.4	105.3	0	2.5	0	2.5	0	0	0	0	0	0
Denmark &	130.7	79.2	0.3	0			79.5	15.6	23.4	0.9	39.9	4.6	6.7	0	11.3	0	0
Estonia	66.0	49.3	0	0	0	0	49.3	5.3	10.6	0	15.9	0	0.8	0	0.8	0	0
Finland	99.7	69.2	2.4	0	0	0.2	71.7	7.3	18.7	0	26.0	1.3	0.7	0	2.0	0	0
France	173.0	115.5	0	0.1	0.3	31.2	147.2	3.9	13.5	0	17.5	3.1	5.3	0	8.4	0	0
Greece	252.2	237.3	0	0	0	1.0	238.3	2.7	10.5	0	13.2	0.7	0	0	0.7	0	0
Iceland	142.7	84.4	0	0			84.4	0	0	43.7	43.7	14.6	0	0	14.6	0	0
Norway	110.7	69.0	0	0			69.0			27.9	27.9	7.6	6.3	0	13.8	0	0
Romania	187.3	182.9	0	0	0.1	0.1	183.0	0.1	3.5	0	3.6	0.4	0.4	0	0.7	0	0
Serbia	99.6	75.6	0.7	0.3	0	5.3	81.9	0.1	13.8	0	13.9	0.1	3.5	0	3.7	0	0
Spain, Andalusia	131.6	104.9	0.2	0			105.1			18.8	18.8	2.9	4.9	0	7.7	0	0
Spain, Aragon	127.8	79.9	0	0		13.7	93.6	3.8	19.0	0	22.8	6.8	4.6	0	11.4	0	0
Spain, Asturias	155.7	115.1	0	0		0	115.1	12.6	24.2	0	36.7	1.9	1.9	0	3.9	0	0
Spain, Basque country	114.8	83.4	1.4	0			84.8	0.9	24.0	0	24.9	3.7	1.4	0	5.1	0	0
Spain, Canary Islands	159.7	133.0	0	0	0	0	133.0	0	0	24.5	24.5	1.8	0	0.5	2.3	0	0
Spain, Cantabria *	111.8	86.0	0	0			86.0	3.4	15.5	0	18.9	3.4	3.4	0	6.9	0	0
Spain, Castile and León *	122.0	93.5	0.4	0			93.9	10.7	13.6	0	24.3	2.1	0.8	0.8	3.7	0	0
Spain, Castile-La Mancha *	130.1	99.7	0.5	0			100.2	3.9	23.6	0	27.5	0.5	2.0	0	2.5	0	0
Spain, Catalonia	165.4	104.4	0	0		26.5	130.9	2.8	20.1	0	22.9	8.9	2.8	0	11.6	0	0
Spain, Community of Madrid	132.9	105.4	0	0			105.4	4.8	17.4	0	22.1	2.0	3.4	0	5.4	0	0
Spain, Extremadura	110.2	92.6	0.9	0			93.5	6.5	7.4	0	13.9	0	0	0	0	0	2.8
Spain, Galicia	153.7	111.6	2.6	0	0	0	114.2	1.1	32.9	0	34.0	5.2	0.4	0	5.5	0	0
Spain, Murcia	137.4	120.4	0	0	0	0	120.4	0.7	13.6	0	14.3	2.7	0	0	2.7	0	0
Spain, Navarre *	123.0	85.7	1.6	0			87.2	31.1	1.6	0	32.7	1.6	1.6	0	3.1	0	0
Sweden	115.8	68.8	1.0	0			69.8			36.9	36.9	4.8	4.4	0	9.1	0	0
Switzerland	97.5	75.0	0.9	1.5	0	0	77.5	3.5	8.8	0	12.3	5.8	1.9	0	7.7	0	0
the Netherlands	115.4	80.7	0.1	0		0.3	81.0	4.9	14.4	0	19.3	13.2	1.8	0	15.1	0.1	0
United Kingdom, All countries * ¶ § #	119.1	75.0	0.3		0.2	10.3	85.8	9.9	12.7	0.2	22.9	4.6	5.3	0.5	10.4	0	0
United Kingdom, England * ¶ #	119.5	73.0	0.3		0.3	11.9	85.5	10.3	13.1	0.3	23.7	4.3	5.5	0.6	10.4	0	0
United Kingdom, Northern Ireland * #	113.3	72.2		0			74.3	15.5		0	17.1	17.6	4.3	0	21.9	0	0
United Kingdom, Scotland	117.8	92.4	0	0			92.4	6.5	9.0	0	15.5	4.6	5.3	0	10.0	0	0
United Kingdom, Wales * #	121.3	84.2		0	0	4.8	89.3	7.7	18.9	0	26.6	1.9	3.5	0	5.4	0	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
Categories may not add up because of rounding off; When cells are left empty, (complete) data are unavailable

* Patients younger than 20 years of age are not reported

& No distinction is made between HD and HDF

|| The incidence of pre-emptive transplantation is underestimated by approximately 30%

¶ The incidence is underestimated by approximately 2% due to one centre not submitting data since 2014

§ HDF is not accurately captured from some units and so usage may be an underestimate for the UK

Values based on 1 to 5 patients are suppressed

Table B.2.9
Incidence per million population by treatment modality, adjusted
at day 1, adjusted for age and sex

	All	Haemodialysis						Peritoneal dialysis				Preemptive kidney transplant				Unkn	Missing
	Pmp	HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx		
		Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp		
Austria	129.3	103.2	0	2.7	1.2	7.5	114.7	2.1	8.4	0.7	11.2	2.3	1.2	0	3.4	0	0
Belgium, Dutch-speaking *	172.0	112.0	0.6	0	0.3	35.2	148.1	8.7	11.6	0	20.3	1.5	2.1	0	3.6	0	0
Belgium, French-speaking *	217.0	128.6	2.3	0	4.4	54.4	189.7	6.7	14.4	0	21.1	2.2	4.1	0	6.3	0	0
Bosnia and Herzegovina	118.0	108.0	0	0	0	7.3	115.4	0	2.6	0	2.6	0	0	0	0	0	0
Denmark &	130.6	78.6	0.3	0			78.9	15.5	23.7	0.9	40.2	4.7	6.8	0	11.5	0	0
Estonia	67.7	50.8	0	0	0	0	50.8	5.6	10.5	0	16.1	0	0.8	0	0.8	0	0
Finland	95.9	66.0	2.5	0	0	0.2	68.7	7.2	17.9	0	25.2	1.3	0.8	0	2.0	0	0
France	173.9	115.8	0.1	0.1	0.3	31.4	147.6	4.0	13.5	0	17.5	3.2	5.6	0	8.8	0	0
Greece	222.6	208.9	0	0	0	0.9	209.9	2.5	9.6	0	12.1	0.7	0	0	0.7	0	0
Iceland	171.3	102.1	0	0			102.1	0	0	53.5	53.5	15.6	0	0	15.6	0	0
Norway	119.4	74.7	0	0			74.7			30.1	30.1	7.6	7.0	0	14.6	0	0
Romania	190.7	186.3	0	0	0.1	0	186.4	0.1	3.5	0	3.6	0.4	0.4	0	0.7	0	0
Serbia	94.2	71.2	0.7	0.3	0	5.0	77.2	0.2	13.2	0	13.3	0.1	3.5	0	3.6	0	0
Spain, Andalusia	139.6	111.9	0.2	0			112.1			19.8	19.8	2.8	4.9	0	7.7	0	0
Spain, Aragon	119.3	73.7	0	0		12.5	86.2	3.5	18.3	0	21.9	6.9	4.4	0	11.3	0	0
Spain, Asturias	129.3	93.5	0	0		0	93.5	12.1	20.1	0	32.2	2.0	1.6	0	3.7	0	0
Spain, Basque country	104.7	75.6	1.3	0			76.9	0.9	21.9	0	22.9	3.4	1.5	0	4.9	0	0
Spain, Canary Islands	170.8	143.9	0	0	0	0	143.9	0	0	24.8	24.8	1.6	0	0.4	2.1	0	0
Spain, Cantabria *	106.7	80.3	0	0			80.3	3.8	15.2	0	19.0	3.4	4.0	0	7.4	0	0
Spain, Castile and León *	101.6	76.0	0.4	0			76.3	9.9	12.0	0	21.9	2.0	0.8	0.6	3.4	0	0
Spain, Castile-La Mancha *	132.8	100.9	0.5	0			101.4	3.9	24.9	0	28.8	0.6	2.1	0	2.6	0	0
Spain, Catalonia	168.4	106.5	0	0		26.8	133.3	2.8	20.6	0	23.5	8.8	2.8	0	11.6	0	0
Spain, Community of Madrid	144.2	115.3	0	0			115.3	4.7	18.6	0	23.2	2.1	3.5	0	5.7	0	0
Spain, Extremadura	105.7	88.3	0.9	0			89.2	6.6	7.5	0	14.1	0	0	0	0	0	2.3
Spain, Galicia	133.0	94.9	2.4	0	0	0	97.3	1.0	29.3	0	30.3	5.0	0.4	0	5.4	0	0
Spain, Murcia	158.1	139.9	0	0	0	0	139.9	0.5	15.1	0	15.7	2.6	0	0	2.6	0	0
Spain, Navarre *	119.3	81.7	1.5	0			83.2	31.6	1.4	0	33.0	1.8	1.3	0	3.1	0	0
Sweden	115.2	68.6	1.0	0			69.6			36.3	36.3	4.9	4.4	0	9.3	0	0
Switzerland	98.6	76.3	0.9	1.5	0	0	78.7	3.5	8.9	0	12.4	5.6	1.9	0	7.5	0	0
the Netherlands	114.3	80.2	0.1	0		0.3	80.6	4.9	14.2	0	19.0	12.8	1.7	0	14.5	0.1	0
United Kingdom, All countries * ¶ § #	124.2	78.2	0.3		0.2	10.7	89.5	10.4	13.2	0.2	23.9	4.7	5.6	0.5	10.8	0	0
United Kingdom, England * ¶ #	125.4	76.7	0.3		0.3	12.5	89.8	10.8	13.7	0.3	24.8	4.5	5.8	0.6	10.8	0	0
United Kingdom, Northern Ireland * #	125.7	81.5		0			83.8	17.0		0	18.8	18.4	4.7	0	23.2	0	0
United Kingdom, Scotland	118.1	92.6	0	0			92.6	6.5	9.0	0	15.5	4.6	5.5	0	10.1	0	0
United Kingdom, Wales * #	118.2	80.7		0	0	4.5	85.5	8.0	18.7	0	26.7	2.0	3.9	0	5.9	0	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
 Categories may not add up because of rounding off; When cells are left empty, (complete) data are unavailable

* Patients younger than 20 years of age are not reported

& No distinction is made between HD and HDF

|| The incidence of pre-emptive transplantation is underestimated by approximately 30%

¶ The incidence is underestimated by approximately 2% due to one centre not submitting data since 2014

§ HDF is not accurately captured from some units and so usage may be an underestimate for the UK

Values based on 1 to 5 patients are suppressed

Table B.2.10
Treatment modality distribution, unadjusted
at day 1

	All	Haemodialysis						Peritoneal dialysis				Preemptive kidney transplant				Unkn	Missing
		HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx		
		%	%	%	%	%	%	%	%	%	%	%	%	%	%		
Austria	100	79.7	0	2.0	1.0	5.8	88.5	1.7	6.6	0.5	8.8	1.8	0.9	0	2.6	0	0
Belgium, Dutch-speaking *	100	65.2	0.3	0	0.2	20.6	86.3	4.9	6.8	0	11.6	0.8	1.2	0	2.0	0	0
Belgium, French-speaking *	100	59.1	1.1	0	2.0	25.1	87.2	3.1	6.6	0	9.7	1.1	2.0	0	3.1	0	0
Bosnia and Herzegovina	100	90.8	0	0	0	6.8	97.6	0	2.4	0	2.4	0	0	0	0	0	0
Denmark &	100	60.6	0.3	0			60.8	12.0	17.9	0.7	30.5	3.5	5.1	0	8.7	0	0
Estonia	100	74.7	0	0	0	0	74.7	8.0	16.1	0	24.1	0	1.1	0	1.1	0	0
Finland	100	69.4	2.4	0	0	0.2	71.9	7.3	18.8	0	26.0	1.3	0.7	0	2.0	0	0
France	100	66.7	0	0.1	0.2	18.0	85.0	2.3	7.8	0	10.1	1.8	3.1	0	4.8	0	0
Greece	100	94.1	0	0	0	0.4	94.5	1.1	4.2	0	5.2	0.3	0	0	0.3	0	0
Iceland	100	59.2	0	0			59.2	0	0	30.6	30.6	10.2	0	0	10.2	0	0
Norway	100	62.3	0	0			62.3			25.2	25.2	6.8	5.7	0	12.5	0	0
Romania	100	97.6	0	0	0	0	97.7	0	1.9	0	1.9	0.2	0.2	0	0.4	0	0
Serbia	100	76.0	0.7	0.3	0	5.3	82.3	0.1	13.9	0	14.0	0.1	3.5	0	3.7	0	0
Spain, Andalusia	100	79.7	0.2	0			79.9			14.3	14.3	2.2	3.7	0	5.9	0	0
Spain, Aragon	100	62.5	0	0		10.7	73.2	3.0	14.9	0	17.9	5.4	3.6	0	8.9	0	0
Spain, Asturias	100	73.9	0	0		0	73.9	8.1	15.5	0	23.6	1.2	1.2	0	2.5	0	0
Spain, Basque country	100	72.7	1.2	0			73.9	0.8	20.9	0	21.7	3.2	1.2	0	4.4	0	0
Spain, Canary Islands	100	83.2	0	0	0	0	83.2	0	0	15.3	15.3	1.2	0	0.3	1.4	0	0
Spain, Cantabria *	100	76.9	0	0			76.9	3.1	13.8	0	16.9	3.1	3.1	0	6.2	0	0
Spain, Castile and León *	100	76.7	0.3	0			77.0	8.8	11.1	0	19.9	1.7	0.7	0.7	3.0	0	0
Spain, Castile-La Mancha *	100	76.6	0.4	0			77.0	3.0	18.1	0	21.1	0.4	1.5	0	1.9	0	0
Spain, Catalonia	100	63.1	0	0		16.0	79.1	1.7	12.2	0	13.8	5.4	1.7	0	7.0	0	0
Spain, Community of Madrid	100	79.3	0	0			79.3	3.6	13.1	0	16.6	1.5	2.5	0	4.0	0	0
Spain, Extremadura	100	84.0	0.8	0			84.9	5.9	6.7	0	12.6	0	0	0	0	0	2.5
Spain, Galicia	100	72.6	1.7	0	0	0	74.3	0.7	21.4	0	22.1	3.4	0.2	0	3.6	0	0
Spain, Murcia	100	87.6	0	0	0	0	87.6	0.5	9.9	0	10.4	2.0	0	0	2.0	0	0
Spain, Navarre *	100	69.6	1.3	0			70.9	25.3	1.3	0	26.6	1.3	1.3	0	2.5	0	0
Sweden	100	59.4	0.9	0			60.3			31.8	31.8	4.1	3.8	0	7.9	0	0
Switzerland	100	76.9	1.0	1.6	0	0	79.5	3.6	9.0	0	12.6	5.9	1.9	0	7.9	0	0
the Netherlands	100	69.9	0.1	0		0.3	70.2	4.2	12.5	0	16.7	11.5	1.6	0	13.1	0.1	0
United Kingdom, All countries * § #	100	63.0	0.2		0.2	8.6	72.0	8.4	10.7	0.2	19.3	3.8	4.5	0.4	8.7	0	0
United Kingdom, England * #	100	61.1	0.3		0.2	9.9	71.5	8.6	11.0	0.2	19.8	3.6	4.6	0.5	8.7	0	0
United Kingdom, Northern Ireland * #	100	63.7		0			65.6	13.7		0	15.1	15.6	3.8	0	19.3	0	0
United Kingdom, Scotland	100	78.4	0	0			78.4	5.5	7.7	0	13.1	3.9	4.5	0	8.5	0	0
United Kingdom, Wales * #	100	69.4		0	0	4.0	73.6	6.3	15.6	0	21.9	1.6	2.9	0	4.5	0	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
Categories may not add up because of rounding off; When cells are left empty, (complete) data are unavailable

* Patients younger than 20 years of age are not reported

& No distinction is made between HD and HDF

|| The incidence of pre-emptive transplantation is underestimated by approximately 30%

§ HDF is not accurately captured from some units and so usage may be an underestimate for the UK

Values based on 1 to 5 patients are suppressed

Table B.3.2
Incidence per million (age-related) population by age and sex, unadjusted
at day 91

	All			0-19			20-44			45-64			65-74			75+		
	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women
	Pmp	Pmp	Pmp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp
Austria	116.5	158.8	75.6	5.2	3.4	7.2	28.9	38.0	19.5	130.3	190.6	70.8	389.6	529.6	267.9	348.0	582.9	195.5
Belgium, Dutch-speaking *	170.3	229.2	112.5				34.7	44.3	25.0	134.9	167.1	102.2	441.6	649.7	244.7	799.2	1298.5	457.0
Belgium, French-speaking *	177.3	227.1	129.7				39.6	46.8	32.4	191.4	245.8	137.8	558.1	788.7	358.5	819.3	1332.8	517.7
Bosnia and Herzegovina	98.3	124.1	73.4	3.8	5.0	2.6	33.5	41.8	25.0	139.3	203.3	78.5	343.5	449.9	260.4	288.5	349.0	250.5
Denmark	122.3	162.9	82.1	8.3	8.8	7.7	44.9	59.7	29.6	150.3	188.1	112.3	303.4	440.5	173.7	412.3	649.4	239.9
Estonia †	66.0	79.1	54.4	10.9	14.2	7.5	38.6	48.4	28.1	80.0	104.0	58.5	171.9	195.0	156.9	134.4	248.7	88.6
Finland	98.4	125.2	72.3	12.6	14.8	10.3	44.9	54.5	34.8	122.2	152.0	92.7	257.6	349.2	174.9	205.7	331.4	126.8
France †	161.5	213.1	113.2	7.6	9.5	5.7	47.8	57.0	38.9	163.8	213.5	116.6	420.9	589.0	272.5	647.1	1074.7	379.4
Greece	224.6	301.6	152.0	5.3	6.5	3.9	37.8	48.3	27.3	180.6	267.8	100.7	577.5	825.6	360.7	910.9	1327.8	606.6
Iceland	134.0	177.8	88.7	22.5	22.0	22.9	24.5	31.3	17.1	191.4	261.2	120.6	538.3	787.3	287.9	491.5	672.5	350.2
Norway	105.4	139.9	70.3	7.1	10.8	3.3	39.4	41.6	37.1	129.2	165.1	91.9	293.0	414.9	173.9	406.7	699.6	200.6
Romania	161.6	194.5	130.2	6.3	5.8	6.7	60.2	68.6	51.3	240.0	299.7	181.7	464.8	598.2	362.7	350.7	553.8	233.3
Serbia †	101.3	131.5	72.6	28.8	38.3	18.8	40.0	61.5	17.6	148.9	188.6	111.6	236.0	320.7	166.8	167.7	240.4	120.2
Spain, Andalusia	126.8	169.2	85.3	8.9	12.9	4.6	40.3	50.5	29.9	156.1	218.0	94.9	390.4	559.3	239.1	418.5	633.6	277.0
Spain, Aragon	127.0	183.2	72.2	8.1	15.7	0	48.9	57.4	40.0	124.9	157.7	91.4	339.5	507.9	186.9	354.6	718.7	111.6
Spain, Asturias †	150.5	202.9	102.5	15.4	29.9	0	49.3	58.8	39.7	118.9	186.9	54.4	438.5	573.5	322.8	345.2	546.1	226.3
Spain, Basque country	111.1	161.9	63.5	12.4	14.4	10.2	43.9	49.9	37.7	108.3	154.0	64.0	302.8	470.2	155.8	271.3	535.9	108.0
Spain, Canary Islands †	159.7	198.0	122.0	4.9	9.6	0	55.4	48.8	62.0	180.4	215.1	145.2	529.6	695.9	374.9	554.8	926.5	290.4
Spain, Cantabria *	99.8	155.0	47.0	33.4	44.0	22.6	114.4	161.5	68.0	114.4	161.5	68.0	258.9	513.8	30.7	257.8	465.7	130.1
Spain, Castile and León *	119.1	166.8	72.5	21.4	27.8	14.6	128.8	167.2	89.2	128.8	167.2	89.2	303.8	506.4	109.0	295.9	458.5	186.7
Spain, Castile-La Mancha *	126.7	174.0	78.9				28.1	25.7	30.7	148.9	200.7	94.5	428.4	660.9	210.4	387.7	646.0	206.2
Spain, Catalonia †	158.0	221.6	96.7	11.7	15.1	8.0	38.7	55.3	21.6	159.8	226.5	94.0	453.4	682.0	254.8	619.3	1051.9	343.5
Spain, Community of Madrid	125.9	179.1	77.0	9.8	11.8	7.8	35.5	41.0	30.3	144.4	205.0	89.2	372.5	610.7	178.4	461.0	828.4	238.1
Spain, Extremadura	103.7	138.3	69.7	9.9	9.6	10.1	28.6	33.6	23.5	142.0	177.6	105.0	294.3	449.8	150.8	224.1	372.0	128.0
Spain, Galicia	151.5	211.1	95.8	9.3	13.5	4.8	47.4	60.2	34.3	163.4	221.3	107.7	422.0	671.5	201.6	298.5	460.6	195.4
Spain, Murcia	131.9	195.6	68.1	2.9	5.7	0	32.5	51.8	11.9	172.1	238.0	105.1	516.9	859.0	214.5	461.8	830.0	212.6
Spain, Navarre *	119.9	151.1	89.4				49.3	39.0	59.9	121.9	142.2	101.0	366.9	561.5	185.1	348.6	557.2	210.6
Sweden	105.5	143.4	67.3	10.4	13.4	7.1	39.7	55.4	23.2	133.0	174.0	91.2	261.9	352.1	174.6	325.2	547.4	160.8
Switzerland †	96.1	122.9	69.7	5.9	5.7	6.1	29.5	31.8	27.1	95.7	122.8	68.2	270.1	391.3	158.7	375.3	565.7	246.6
the Netherlands	109.4	138.9	80.4	7.0	8.8	5.2	31.1	40.0	22.1	127.5	149.8	105.2	316.6	403.6	232.5	356.3	586.0	194.1
United Kingdom, All countries * † ¶	112.9	146.6	80.0				54.8	65.2	44.3	164.6	212.3	118.5	274.4	362.3	192.8	308.1	501.5	166.5
United Kingdom, England * † ¶	113.2	147.1	80.0				54.8	64.6	44.8	165.8	214.1	118.8	277.2	368.7	192.1	312.5	506.7	169.5
United Kingdom, Northern Ireland * †	106.9	139.1	75.7				45.8	53.5	38.3	136.9	176.6	98.4	265.5	358.4	179.4	460.2	744.0	261.1
United Kingdom, Scotland	112.6	140.5	86.2	12.1	18.6	5.3	54.0	63.2	45.0	174.0	221.3	129.4	246.2	274.4	220.4	227.7	383.6	120.5
United Kingdom, Wales * †	116.6	162.3	72.1				64.2	89.0	38.9	143.1	186.7	101.5	278.5	409.9	154.5	298.9	498.6	150.1

* Patients younger than 20 years of age are not reported

† The incident counts at day 91, on which the data presented in this table are based, are estimated (see methods)

¶ The incidence is underestimated by approximately 2% due to one centre not submitting data since 2014

Table B.3.3
Sex, mean age, and median age of incident patients
at day 91

	All						Men						Women					
	%	Mean (years)	SD	Median (years)	P25	P75	%	Mean (years)	SD	Median (years)	P25	P75	%	Mean (years)	SD	Median (years)	P25	P75
Austria	100	65.4	14.7	68.3	57.4	76.1	67.0	65.5	14.3	67.9	57.9	76.3	33.0	65.3	15.5	68.6	55.9	75.8
Belgium, Dutch-speaking *	100	70.6	14.2	73.6	62.7	81.3	66.6	70.7	14.0	73.2	63.7	81.0	33.4	70.4	14.6	74.0	61.5	81.7
Belgium, French-speaking *	100	68.3	14.1	70.8	60.7	79.0	62.7	68.4	13.6	70.8	60.7	78.7	37.3	68.1	14.8	70.6	60.7	79.4
Bosnia and Herzegovina	100	61.9	14.0	63.7	53.6	72.2	62.0	60.8	13.5	61.5	53.5	70.4	38.0	63.6	14.6	67.3	54.2	74.8
Denmark	100	63.6	16.1	67.3	54.6	75.8	66.3	63.9	16.1	67.9	54.4	76.0	33.7	63.0	16.2	65.3	55.4	75.5
Estonia †	100	57.5	19.5	62.5	45.6	72.2	56.3	56.1	20.5	58.4	42.3	74.9	43.7	59.2	18.4	65.3	48.1	70.7
Finland	100	60.9	17.0	65.1	51.9	72.6	62.7	61.3	16.5	65.3	52.5	72.2	37.3	60.3	17.8	64.0	50.1	73.2
France †	100	67.4	16.0	70.2	58.8	79.5	63.8	67.8	15.6	70.4	59.8	79.5	36.2	66.8	16.7	69.8	57.3	79.6
Greece	100	70.7	14.0	73.2	63.7	81.1	65.1	70.0	13.9	72.2	62.5	80.3	34.9	71.9	14.3	74.8	65.2	82.4
Iceland	100	61.9	17.7	66.4	51.0	71.7	67.4	62.0	17.8	66.5	50.7	71.7	32.6	61.6	18.1	66.2	51.0	79.5
Norway	100	63.5	16.5	67.1	52.6	75.5	66.9	64.8	16.2	68.7	55.6	76.2	33.1	60.8	16.7	64.1	49.3	74.0
Romania	100	61.6	14.4	63.8	53.4	71.6	58.8	61.5	14.3	63.2	52.7	71.1	41.2	61.8	14.7	64.6	54.6	72.2
Serbia †	100	57.9	18.3	61.9	51.5	68.9	63.2	56.7	19.0	61.9	49.2	68.3	36.8	59.6	17.0	62.2	52.0	69.9
Spain, Andalusia	100	63.7	15.9	66.5	55.0	75.5	65.9	63.3	15.7	66.3	54.6	74.6	34.1	64.5	16.1	67.0	55.4	77.1
Spain, Aragon	100	64.7	16.2	68.6	52.3	77.6	71.3	66.1	16.3	70.0	58.4	77.9	28.7	61.3	15.6	63.1	48.2	73.8
Spain, Asturias †	100	66.9	15.5	71.8	60.8	76.8	64.5	65.7	15.9	70.0	56.6	75.9	35.5	69.4	14.6	73.3	64.2	78.3
Spain, Basque country	100	63.9	16.6	67.4	55.4	75.4	70.5	65.0	15.9	68.8	56.8	75.6	29.5	61.2	18.1	65.8	52.4	73.6
Spain, Canary Islands †	100	64.5	15.1	67.0	56.3	74.9	61.6	65.6	14.8	67.4	57.9	76.6	38.4	62.7	15.4	65.0	54.6	74.2
Spain, Cantabria *	100	64.3	14.0	67.1	56.3	75.3	75.9	64.4	14.1	68.0	58.0	75.0	24.1	64.0	14.2	63.9	55.0	76.8
Spain, Castile and León *	100	67.5	13.0	69.0	58.4	77.7	69.2	67.4	12.5	68.7	59.4	76.7	30.8	67.5	14.2	70.7	56.2	79.3
Spain, Castile-La Mancha *	100	66.3	13.7	68.7	57.5	77.1	69.0	66.8	12.8	69.0	59.6	76.8	31.0	65.0	15.5	67.0	54.5	77.4
Spain, Catalonia †	100	66.2	15.9	69.8	57.2	78.6	68.8	66.2	15.5	69.7	57.6	78.2	31.2	66.2	16.8	70.1	56.4	79.1
Spain, Community of Madrid	100	65.0	15.9	68.1	56.2	77.1	68.1	65.7	15.3	68.9	57.5	77.0	31.9	63.4	17.0	66.3	53.3	77.2
Spain, Extremadura	100	63.2	14.9	65.1	54.1	74.4	66.1	64.6	13.5	65.6	55.8	74.0	33.9	60.5	17.0	60.5	48.3	74.4
Spain, Galicia	100	64.9	14.4	68.0	56.4	75.1	67.3	64.7	14.4	67.9	56.2	74.3	32.7	65.3	14.7	68.0	56.4	76.8
Spain, Murcia	100	64.9	14.4	67.5	56.5	75.4	74.2	64.5	14.8	67.3	55.8	75.1	25.8	66.2	13.1	67.7	57.4	77.4
Spain, Navarre *	100	65.4	15.1	68.7	57.2	76.7	62.3	67.4	13.1	70.2	58.2	76.9	37.7	62.1	17.6	64.0	49.1	76.2
Sweden	100	63.1	17.3	67.1	54.1	75.6	68.2	63.3	17.4	67.3	54.4	76.1	31.8	62.6	17.1	66.6	53.9	74.5
Switzerland †	100	65.2	16.5	68.8	56.1	77.8	63.4	65.3	16.1	68.5	55.8	77.1	36.6	65.1	17.2	69.8	56.2	78.3
the Netherlands	100	64.3	15.2	67.9	55.7	75.2	63.0	64.9	15.3	68.8	56.3	76.0	37.0	63.4	15.1	66.3	55.1	74.3
United Kingdom, All countries * †	100	61.7	15.5	63.5	51.3	73.7	64.1	62.3	15.5	64.1	52.0	74.4	35.9	60.7	15.5	63.1	50.3	72.8
United Kingdom, England * †	100	61.8	15.5	63.7	51.2	73.9	64.2	62.4	15.5	64.2	52.0	74.7	35.8	60.7	15.5	63.0	50.0	72.9
United Kingdom, Northern Ireland * †	100	63.3	15.5	67.0	53.2	75.2	64.0	64.2	15.3	67.9	55.0	75.1	36.0	61.8	15.9	60.6	47.1	75.3
United Kingdom, Scotland	100	59.1	16.3	61.5	50.4	71.1	60.7	59.3	16.7	61.2	50.5	72.6	39.3	58.8	15.7	62.2	50.1	70.7
United Kingdom, Wales * †	100	62.5	16.4	66.3	51.7	73.7	68.6	62.6	16.7	66.2	51.5	74.1	31.4	62.5	15.9	66.7	51.7	73.2

Categories may not add up because of missing values or rounding off

* Patients younger than 20 years of age are not reported

† The incident counts at day 91, on which the data presented in this table are based, are estimated (see methods)

Table B.3.4
Incidence per million population, adjusted
at day 91, adjusted for age and sex

	All	Men	Women
	Pmp	Pmp	Pmp
Austria	116.6	159.3	75.8
Belgium, Dutch-speaking *	160.4	213.1	110.1
Belgium, French-speaking *	197.3	254.6	142.7
Bosnia and Herzegovina	108.0	137.2	80.1
Denmark	122.2	161.6	84.7
Estonia †	67.5	84.1	51.7
Finland	94.5	119.6	70.7
France †	162.3	211.6	115.3
Greece	199.2	262.9	138.5
Iceland	160.6	211.2	112.3
Norway	113.9	151.5	78.1
Romania	164.0	202.8	127.1
Serbia †	96.0	125.2	68.2
Spain, Andalusia	134.4	179.2	91.7
Spain, Aragon	117.9	169.6	68.5
Spain, Asturias †	125.7	169.8	83.7
Spain, Basque country	101.2	144.9	59.5
Spain, Canary Islands †	171.1	212.8	131.3
Spain, Cantabria *	97.0	150.1	46.4
Spain, Castile and León *	99.0	137.1	62.7
Spain, Castile-La Mancha *	129.6	180.9	80.7
Spain, Catalonia †	160.7	224.9	99.5
Spain, Community of Madrid	136.2	193.2	81.7
Spain, Extremadura	100.1	133.0	68.6
Spain, Galicia	131.3	180.6	84.3
Spain, Murcia	151.1	227.6	78.3
Spain, Navarre *	116.3	144.1	89.8
Sweden	105.0	142.4	69.4
Switzerland †	97.3	123.5	72.3
the Netherlands	108.3	136.2	81.8
United Kingdom, All countries * † ¶	117.7	151.8	85.2
United Kingdom, England * † ¶	118.7	153.1	85.9
United Kingdom, Northern Ireland * †	118.7	153.4	85.6
United Kingdom, Scotland	112.8	140.4	86.6
United Kingdom, Wales * †	113.7	157.2	72.2

* Patients younger than 20 years of age are not reported

† The incident counts at day 91, on which the data presented in this table are based, are estimated (see methods)

¶ The incidence is underestimated by approximately 2% due to one centre not submitting data since 2014

Table B.3.5
Incidence per million population and percentages by primary renal disease, unadjusted
at day 91

	All		GN		PN		PKD		DM						HT		RVD		Misc		Unkn		Missing	
									Type 1		Type 2		Both											
	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%
Austria	116.5	100	13.8	11.8	3.0	2.5	7.1	6.1	3.2	2.7	28.6	24.6	31.8	27.3	11.2	9.6	14.6	12.5	23.3	20.0	11.9	10.2	0	0
Belgium, Dutch-speaking *	170.3	100	18.8	11.0	4.6	2.7	8.9	5.2	3.4	2.0	34.5	20.3	37.9	22.3	17.9	10.5	8.1	4.8	61.4	36.1	12.7	7.5	0	0
Belgium, French-speaking *	177.3	100	14.1	7.9	4.6	2.6	8.7	4.9	4.3	2.5	41.6	23.5	45.9	25.9	37.2	21.0	2.7	1.5	44.7	25.2	19.5	11.0	0	0
Bosnia and Herzegovina	98.3	100	12.5	12.7	9.6	9.8	4.2	4.3	9.1	9.2	21.5	21.9	30.6	31.1	18.7	19.0	1.4	1.4	9.6	9.8	11.6	11.8	0	0
Denmark	122.3	100	12.9	10.5	7.2	5.9	6.5	5.3	7.4	6.0	23.9	19.5	31.3	25.6	19.6	16.0	1.9	1.5	22.3	18.3	20.6	16.9	0	0
Estonia †	66.0	100	12.1	18.4	2.3	3.4	3.0	4.6					12.1	18.4	18.2	27.6	0.8	1.1	17.5	26.4	0	0	0	0
Finland	98.4	100	15.4	15.7	5.3	5.4	6.5	6.6	18.5	18.8	14.3	14.6	32.9	33.4	6.4	6.5	0.2	0.2	17.4	17.7	14.3	14.6	0	0
France †	161.5	100	18.6	11.5	7.8	4.8	10.5	6.5					38.1	23.6	38.6	23.9	1.7	1.0	22.2	13.8	24.1	14.9	0	0
Greece	224.6	100	15.4	6.9	10.6	4.7	9.2	4.1	3.6	1.6	54.1	24.1	57.7	25.7	23.7	10.6	2.8	1.2	25.8	11.5	79.3	35.3	0	0
Iceland	134.0	100	14.6	10.9	2.9	2.2	5.8	4.3	5.8	4.3	5.8	4.3	11.6	8.7	40.8	30.4	8.7	6.5	26.2	19.6	20.4	15.2	2.9	2.2
Norway	105.4	100	18.4	17.4	4.0	3.8	8.9	8.5	6.3	5.9	13.1	12.4	19.3	18.3	29.4	27.9	0.9	0.9	22.2	21.0	2.1	2.0	0.2	0.2
Romania	161.6	100	13.8	8.6	5.7	3.5	3.5	2.2					21.3	13.2	11.4	7.1	0.5	0.3	24.7	15.3	80.6	49.9	0	0
Serbia †	101.3	100	13.1	12.9	7.2	7.1	5.0	4.9					29.0	28.6	26.4	26.0	0.6	0.6	14.4	14.3	5.6	5.6	0	0
Spain, Andalusia	126.8	100	18.0	14.2	7.6	6.0	7.5	5.9					30.9	24.4	16.9	13.3	1.2	0.9	20.9	16.5	23.8	18.8	0	0
Spain, Aragon	127.0	100	19.0	15.0	7.6	6.0	7.6	6.0	3.0	2.4	31.2	24.6	34.2	26.9	19.8	15.6	0.8	0.6	16.7	13.2	21.3	16.8	0	0
Spain, Asturias †	150.5	100	19.3	12.8	9.7	6.4	8.7	5.8	4.8	3.2	34.8	23.1	39.6	26.3	29.3	19.5	1.9	1.3	25.8	17.1	16.1	10.7	0	0
Spain, Basque country	111.1	100	12.4	11.2	6.9	6.2	8.8	7.9	2.8	2.5	29.5	26.6	32.3	29.0	19.8	17.8	0	0	17.1	15.4	13.8	12.4	0	0
Spain, Canary Islands †	159.7	100	15.7	9.8	6.9	4.3	9.2	5.8	5.1	3.2	52.2	32.7	57.2	35.8	16.2	10.1	0.9	0.6	30.5	19.1	19.9	12.4	3.2	2.0
Spain, Cantabria *	99.8	100	22.4	22.4	8.6	8.6	8.6	8.6	0	0	22.4	22.4	22.4	22.4	15.5	15.5	6.9	6.9	3.4	3.4	3.4	3.4	8.6	8.6
Spain, Castile and León * ‡	119.1	100	18.5	15.6	4.9	4.2	8.2	6.9	5.8	4.8	25.1	21.1	30.9	26.0	17.7	14.9	0	0	20.2	17.0	18.5	15.6	0	0
Spain, Castile-La Mancha *	126.7	100	17.2	13.6	7.4	5.8	9.8	7.8					34.4	27.1	7.4	5.8	2.5	1.9	20.1	15.9	28.0	22.1	0	0
Spain, Catalonia †	158.0	100	15.8	10.0	6.5	4.1	8.9	5.6	2.0	1.3	30.7	19.5	33.1	21.0	9.9	6.3	4.1	2.6	33.9	21.4	45.9	29.0	0	0
Spain, Community of Madrid	125.9	100	17.4	13.8	6.1	4.9	9.5	7.6	2.5	2.0	30.7	24.4	33.2	26.4	17.8	14.2	1.8	1.5	30.0	23.8	10.0	7.9	0	0
Spain, Extremadura	103.7	100	14.8	14.3	7.4	7.1	9.3	8.9					26.9	25.9	7.4	7.1	3.7	3.6	11.1	10.7	23.1	22.3	0	0
Spain, Galicia	151.5	100	21.1	13.9	3.7	2.4	15.5	10.2	3.3	2.2	32.1	21.2	35.5	23.4	12.6	8.3	1.1	0.7	27.0	17.8	35.1	23.2	0	0
Spain, Murcia	131.9	100	23.8	18.0	4.1	3.1	8.8	6.7					32.6	24.7	15.0	11.3	6.1	4.6	16.3	12.4	25.2	19.1	0	0
Spain, Navarre *	119.9	100	14.0	11.7	3.1	2.6	12.5	10.4	3.1	2.6	23.4	19.5	26.5	22.1	26.5	22.1	0	0	17.1	14.3	20.2	16.9	0	0
Sweden ‡	105.5	100	14.6	13.9	4.6	4.3	8.5	8.0	6.9	6.5	17.9	17.0	24.8	23.5	22.0	20.8	1.0	0.9	21.9	20.7	8.3	7.8	0	0
Switzerland †	96.1	100	13.8	14.4	2.2	2.3	5.2	5.4	3.8	3.9	15.1	15.8	18.9	19.7	20.3	21.1	2.7	2.8	25.0	26.0	7.9	8.2	0	0
the Netherlands	109.4	100	9.9	9.1	4.1	3.8	6.2	5.6	3.5	3.2	18.9	17.3	22.4	20.5	16.2	14.8	12.6	11.5	22.0	20.1	13.1	12.0	2.9	2.6
United Kingdom, All countries * † ¶ #	112.9	100	14.1	12.5	6.1	5.4	6.5	5.8					28.7	25.4	6.2	5.5	1.9	1.7	19.6	17.3	14.4	12.7	15.3	13.6
United Kingdom, England * † ¶ #	113.2	100	13.1	11.6	5.8	5.1	6.1	5.4					28.6	25.3	6.6	5.8	2.0	1.7	18.5	16.4	14.6	12.9	17.9	15.8
United Kingdom, Northern Ireland * † #	106.9	100	15.0	14.0	8.0	7.5	6.8	6.3					24.6	23.0	3.7	3.5			17.1	16.0	22.3	20.8	7.3	6.8
United Kingdom, Scotland	112.6	100	20.5	18.2	8.1	7.2	9.4	8.3					29.9	26.5	4.1	3.6	2.0	1.8	26.5	23.6	12.0	10.6	0.2	0.2
United Kingdom, Wales * † #	116.6	100	20.5	17.6	7.6	6.5	8.5	7.3					31.0	26.6	5.3	4.6			29.3	25.2	11.3	9.7	1.7	1.5

Abbreviations used: GN: glomerulonephritis/sclerosis; PN: pyelonephritis; PKD: polycystic kidneys, adult type; DM: diabetes mellitus; HT: hypertension; RVD: renal vascular disease; Misc: miscellaneous; Unkn: unknown
Categories may not add up because of rounding off or a limited number of cases (<10%) with diabetes mellitus type unknown; When cells are left empty, (complete) data are unavailable

* Patients younger than 20 years of age are not reported

† The incident counts at day 91, on which the data presented in this table are based, are estimated (see methods)

‡ Mapping the 2018 Primary Renal Disease (PRD) codes to the old PRD codes results in a different distribution of PRD groups

¶ The incidence is underestimated by approximately 2% due to one centre not submitting data since 2014

Values based on 1 to 5 patients are suppressed

Table B.3.6
Incidence per million population by primary renal disease, adjusted
at day 91, adjusted for age and sex

	All	GN	PN	PKD	DM			HT	RVD	Misc	Unkn	Missing
	Pmp	Pmp	Pmp	Pmp	Type 1	Type 2	Both	Pmp	Pmp	Pmp	Pmp	Pmp
					Pmp	Pmp	Pmp					
Austria	116.6	13.6	3.0	6.9	3.1	28.7	31.8	11.2	14.9	23.3	11.9	0
Belgium, Dutch-speaking *	160.4	18.1	4.3	8.7	3.4	32.5	36.0	16.6	7.2	57.4	12.1	0
Belgium, French-speaking *	197.3	15.2	5.2	9.4	4.6	46.5	51.2	42.1	3.1	49.6	21.7	0
Bosnia and Herzegovina	108.0	12.9	11.5	4.1	9.9	23.6	33.5	20.6	1.6	11.1	12.7	0
Denmark	122.2	13.0	7.1	6.6	7.6	23.4	31.1	19.8	2.0	21.8	20.9	0
Estonia †	67.5	12.9	2.3	3.2			12.6	18.5	0.7	17.4	0	0
Finland	94.5	14.6	4.9	6.8	19.1	13.0	32.1	5.9	0.2	16.4	13.6	0
France †	162.3	19.1	7.9	10.9			38.4	38.0	1.7	22.5	23.9	0
Greece	199.2	14.5	9.3	8.8	3.6	48.4	52.0	20.9	2.4	23.0	68.2	0
Iceland	160.6	17.1	3.2	6.7	6.5	6.6	13.1	50.7	10.1	28.6	27.1	4.0
Norway	113.9	19.3	4.3	9.9	6.6	14.0	20.5	32.6	1.1	23.6	2.4	0.2
Romania	164.0	14.1	5.8	3.6			21.3	11.7	0.5	25.2	81.9	0
Serbia †	96.0	12.3	7.2	4.9			27.2	25.2	0.5	13.6	5.4	0
Spain, Andalusia	134.4	18.6	8.0	7.6			33.2	18.2	1.3	22.0	25.7	0
Spain, Aragon	117.9	17.9	7.0	7.2	3.0	29.6	32.6	17.2	0.5	15.7	19.8	0
Spain, Asturias †	126.2	17.5	8.8	7.0	4.3	28.1	32.4	23.0	1.2	22.9	13.5	0
Spain, Basque country	101.2	12.0	6.4	8.1	2.6	26.1	28.8	17.4	0	15.8	12.7	0
Spain, Canary Islands †	171.1	15.1	7.3	9.2	4.7	58.6	63.3	18.1	0.9	32.8	21.3	3.1
Spain, Cantabria *	97.0	22.5	8.4	7.7	0	21.5	21.5	14.5	6.6	3.5	3.1	9.2
Spain, Castile and León * ‡	99.0	16.4	3.9	7.4	5.7	19.9	25.6	13.8	0	17.5	14.3	0
Spain, Castile-La Mancha *	129.6	17.8	7.4	10.4			35.0	7.0	2.6	20.6	28.8	0
Spain, Catalonia †	160.7	15.7	6.7	8.8	1.9	31.8	34.1	10.0	4.1	34.9	46.4	0
Spain, Community of Madrid	136.2	18.6	6.8	9.8	2.2	34.3	36.5	19.3	2.1	32.4	10.7	0
Spain, Extremadura	100.1	14.7	7.4	8.7			26.0	7.0	3.3	11.4	21.5	0
Spain, Galicia	131.3	18.7	3.1	14.2	3.0	28.0	31.0	10.2	0.9	24.0	29.2	0
Spain, Murcia	151.1	26.3	4.7	9.7			37.7	17.4	7.5	18.4	29.5	0
Spain, Navarre *	116.3	13.5	3.2	13.1	3.0	23.5	26.5	24.9	0	15.7	19.4	0
Sweden ‡	105.0	14.8	4.3	8.9	7.3	17.6	24.9	21.1	1.0	21.8	8.1	0
Switzerland †	97.3	13.8	2.2	5.2	3.8	15.4	19.2	20.7	2.8	25.3	8.1	0
the Netherlands	108.3	9.8	4.1	6.1	3.6	18.5	22.1	16.3	12.4	21.6	13.2	2.8
United Kingdom, All countries * † ¶ #	117.7	14.7	6.2	6.9			30.1	6.5	2.0	20.3	15.0	16.0
United Kingdom, England * † ¶ #	118.7	13.7	6.0	6.5			30.2	6.9	2.0	19.3	15.3	18.8
United Kingdom, Northern Ireland * † #	118.7	16.5	9.0	7.8			26.7	4.3		19.3	25.1	8.2
United Kingdom, Scotland	112.8	20.5	8.0	9.6			29.9	4.0	2.1	26.5	12.0	0.2
United Kingdom, Wales * † #	113.7	20.3	7.6	8.9			30.8	4.9		27.9	10.7	1.7

Abbreviations used: GN: glomerulonephritis/sclerosis; PN: pyelonephritis; PKD: polycystic kidneys, adult type; DM: diabetes mellitus; HT: hypertension; RVD: renal vascular disease; Misc: miscellaneous; Unkn: unknown
 Categories may not add up because of rounding off or a limited number of cases (<10%) with diabetes mellitus type unknown; When cells are left empty, (complete) data are unavailable

* Patients younger than 20 years of age are not reported

† The incident counts at day 91, on which the data presented in this table are based, are estimated (see methods)

‡ Mapping the 2018 Primary Renal Disease (PRD) codes to the old PRD codes results in a different distribution of PRD groups

¶ The incidence is underestimated by approximately 2% due to one centre not submitting data since 2014

Values based on 1 to 5 patients are suppressed

Table B.3.7
Incident counts by treatment modality
at day 91

	All	Haemodialysis						Peritoneal dialysis				Kidney transplant				Unkn	Missing
		HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx		
		N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Austria	1022	801	0	1	0	81	883	33	63	4	100	27	12	0	39	0	0
Belgium, Dutch-speaking *	1114	592	8	0	0	341	941	87	56	0	143	11	19	0	30	0	0
Belgium, French-speaking *	857	487	9	0	10	226	732	35	58	0	93	11	21	0	32	0	0
Bosnia and Herzegovina	347	293	0	0	0	40	333	0	11	0	11	3	0	0	3	0	0
Denmark &	712	423	2	0			425	84	124	0	208	33	46	0	79	0	0
Estonia †	87	60	0	0	0	0	60	7	14	0	21	4	2	0	6	0	0
Finland	542	302	25	0	0	52	379	81	68	0	149	8	6	0	14	0	0
France †	10800	6711	10	9	13	2240	8983	410	786	1	1197	231	379	0	610	11	0
Greece	2415	2144	0	0	0	112	2256	69	80	0	149	9	1	0	10	0	0
Iceland	46	27	0	0			27	0	0	13	13	5	1	0	6	0	0
Norway	556	334	0	0			334			138	138	42	42	0	84	0	0
Romania	3071	2975	0	0	1	1	2977	6	65	0	71	14	9	0	23	0	0
Serbia †	690	514	5	1	0	41	561	4	98	0	102	5	23	0	28	0	0
Spain, Andalusia	1066	823	2	0			825			151	151	30	60	0	90	0	0
Spain, Aragon	167	97	0	0		24	121	6	24	0	30	8	8	0	16	0	0
Spain, Asturias †	156	115	0	0		0	115	13	22	0	35	2	3	0	5	0	0
Spain, Basque country	241	176	2	0			178	4	47	0	51	9	3	0	12	0	0
Spain, Canary Islands †	346	287	0	0	0	0	287	0	0	54	54	4	0	1	5	0	0
Spain, Cantabria *	58	43	0	0			43	2	9	0	11	2	2	0	4	0	0
Spain, Castile and León *	289	221	1	0			222	27	29	0	56	5	1	4	10	1	0
Spain, Castile-La Mancha *	258	198	0	0			198	5	48	0	53	2	5	0	7	0	0
Spain, Catalonia †	1194	441	0	0		479	920	40	129	0	169	71	34	0	105	0	0
Spain, Community of Madrid	819	639	0	0			639	35	104	0	139	13	28	0	41	0	0
Spain, Extremadura	112	95	0	0			95	11	6	0	17	0	0	0	0	0	0
Spain, Galicia	410	293	7	0	0	0	300	9	84	0	93	14	1	2	17	0	0
Spain, Murcia	194	116	0	0	0	51	167	1	21	0	22	5	0	0	5	0	0
Spain, Navarre *	77	54	2	0			56	17	1	0	18	1	2	0	3	0	0
Sweden	1061	602	11	0			613			339	339	53	55	0	108	1	0
Switzerland †	812	602	9	2	29	0	643	41	63	0	104	49	16	0	65	0	0
the Netherlands	1743	1133	6	0		31	1170	135	176	0	311	229	32	0	261	1	0
United Kingdom, All countries * † ¶ § #	7454	4345	38		11	779	5174	782	701	5	1488	334	419	34	787	5	
United Kingdom, England * † ¶ #	6294	3529	36		11	765	4342	691	599	5	1295	260	360	34	653		
United Kingdom, Northern Ireland * † #	200	124		0	0		126	29		0	29	37	8	0	45	0	
United Kingdom, Scotland * † #	611	456	0	0			456	40	47	0	87	32	36	0	68	0	0
United Kingdom, Wales * † #	364	246		0	0	14	260	25	54	0	79	7	16	0	24		

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
Categories may not add up because of rounding off; When cells are left empty, (complete) data are unavailable

* Patients younger than 20 years of age are not reported

& No distinction is made between HD and HDF

† The incident counts at day 91 are estimated (see methods)

|| The incidence of pre-emptive transplantation is underestimated by approximately 30%

¶ The incidence is underestimated by approximately 2% due to one centre not submitting data since 2014

§ HDF is not accurately captured from some units and so usage may be an underestimate for the UK

Values based on 1 to 5 patients are suppressed

Table B.3.8
Incidence per million population by treatment modality, unadjusted
at day 91

	Incidence per million population by treatment modality, unadjusted at day 91																
	All	Haemodialysis						Peritoneal dialysis				Kidney transplant				Unkn	Missing
	Pmp	HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx	Pmp	Pmp
Austria	116.5	91.3	0	0.1	0	9.2	100.7	3.8	7.2	0.5	11.4	3.1	1.4	0	4.4	0	0
Belgium, Dutch-speaking *	170.3	90.5	1.2	0	0	52.1	143.8	13.3	8.6	0	21.9	1.7	2.9	0	4.6	0	0
Belgium, French-speaking *	177.3	100.8	1.9	0	2.1	46.8	151.5	7.2	12.0	0	19.2	2.3	4.3	0	6.6	0	0
Bosnia and Herzegovina	98.3	83.0	0	0	0	11.3	94.3	0	3.1	0	3.1	0.8	0	0	0.8	0	0
Denmark &	122.3	72.7	0.3	0			73.0	14.4	21.3	0	35.7	5.7	7.9	0	13.6	0	0
Estonia †	66.0	45.3	0	0	0	0	45.3	5.3	10.6	0	15.9	3.0	1.8	0	4.8	0	0
Finland	98.4	54.8	4.5	0	0	9.4	68.8	14.7	12.3	0	27.1	1.5	1.1	0	2.5	0	0
France †	161.5	100.4	0.1	0.1	0.2	33.5	134.3	6.1	11.8	0	17.9	3.5	5.7	0	9.1	0.2	0
Greece	224.6	199.4	0	0	0	10.4	209.8	6.4	7.4	0	13.9	0.8	0.1	0	0.9	0	0
Iceland	134.0	78.6	0	0			78.6	0	0	37.9	37.9	14.6	2.9	0	17.5	0	0
Norway	105.4	63.3	0	0			63.3			26.2	26.2	8.0	8.0	0	15.9	0	0
Romania	161.6	156.6	0	0	0.1	0.1	156.7	0.3	3.4	0	3.7	0.7	0.5	0	1.2	0	0
Serbia †	101.3	75.4	0.7	0.1	0	6.1	82.3	0.5	14.4	0	14.9	0.7	3.3	0	4.1	0	0
Spain, Andalusia	126.8	97.9	0.2	0			98.1			18.0	18.0	3.6	7.1	0	10.7	0	0
Spain, Aragon	127.0	73.8	0	0		18.3	92.0	4.6	18.3	0	22.8	6.1	6.1	0	12.2	0	0
Spain, Asturias †	150.5	111.2	0	0		0	111.2	12.6	21.6	0	34.2	1.9	3.2	0	5.2	0	0
Spain, Basque country	111.1	81.1	0.9	0			82.1	1.8	21.7	0	23.5	4.1	1.4	0	5.5	0	0
Spain, Canary Islands †	159.7	132.3	0	0	0	0	132.3	0	0	25.1	25.1	1.8	0	0.5	2.3	0	0
Spain, Cantabria *	99.8	74.0	0	0			74.0	3.4	15.5	0	18.9	3.4	3.4	0	6.9	0	0
Spain, Castile and León *	119.1	91.1	0.4	0			91.5	11.1	11.9	0	23.1	2.1	0.4	1.6	4.1	0.4	0
Spain, Castile-La Mancha *	126.7	97.2	0	0			97.2	2.5	23.6	0	26.0	1.0	2.5	0	3.4	0	0
Spain, Catalonia †	158.0	58.4	0	0		63.4	121.7	5.2	17.1	0	22.4	9.4	4.5	0	13.9	0	0
Spain, Community of Madrid	125.9	98.2	0	0			98.2	5.4	16.0	0	21.4	2.0	4.3	0	6.3	0	0
Spain, Extremadura	103.7	88.0	0	0			88.0	10.2	5.6	0	15.7	0	0	0	0	0	0
Spain, Galicia	151.5	108.3	2.6	0	0	0	110.8	3.3	31.0	0	34.4	5.2	0.4	0.7	6.3	0	0
Spain, Murcia	131.9	78.9	0	0	0	34.7	113.6	0.7	14.3	0	15.0	3.4	0	0	3.4	0	0
Spain, Navarre *	119.9	84.1	3.1	0			87.2	26.5	1.6	0	28.0	1.6	3.1	0	4.7	0	0
Sweden	105.5	59.9	1.1	0			60.9			33.7	33.7	5.3	5.5	0	10.7	0.1	0
Switzerland †	96.1	71.2	1.1	0.3	3.5	0	76.1	4.8	7.5	0	12.3	5.8	1.9	0	7.7	0	0
the Netherlands	109.4	71.1	0.4	0		1.9	73.4	8.5	11.0	0	19.5	14.4	2.0	0	16.4	0.1	0
United Kingdom, All countries * † ¶ § #	112.9	65.8	0.6		0.2	11.8	78.3	11.8	10.6	0.1	22.5	5.1	6.3	0.5	11.9	0.1	
United Kingdom, England * † ¶ § #	113.2	63.4	0.6		0.2	13.8	78.1	12.4	10.8	0.1	23.3	4.7	6.5	0.6	11.7		
United Kingdom, Northern Ireland * † #	106.9	66.5		0	-0.2		67.2	15.5		0	15.7	19.8	4.3	0	24.1	0	
United Kingdom, Scotland	112.6	84.1	0	0			84.1	7.4	8.7	0	16.0	5.9	6.6	0	12.5	0	0
United Kingdom, Wales * † #	116.6	78.6		0	0	4.4	83.3	8.1	17.2	0	25.3	2.3	5.2	0	7.6		

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
Categories may not add up because of rounding off; When cells are left empty, (complete) data are unavailable

* Patients younger than 20 years of age are not reported

& No distinction is made between HD and HDF

† The incident counts at day 91, on which the data presented in this table are based, are estimated (see methods)

|| The incidence of pre-emptive transplantation is underestimated by approximately 30%

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§ HDF is not accurately captured from some units and so usage may be an underestimate for the UK

Values based on 1 to 5 patients are suppressed

Table B.3.9
Incidence per million population by treatment modality, adjusted
at day 91, adjusted for age and sex

	Incidence per million population by treatment modality, adjusted																
	All	Haemodialysis						Peritoneal dialysis				Kidney transplant				Unkn	Missing
	Pmp	HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx	Pmp	Pmp
Austria	116.6	91.5	0	0.1	0	9.3	100.9	3.7	7.1	0.5	11.2	3.0	1.4	0	4.4	0	0
Belgium, Dutch-speaking *	160.4	84.9	1.2	0	0	48.9	135.0	13.0	7.9	0	20.9	1.7	2.8	0	4.5	0	0
Belgium, French-speaking *	197.3	112.5	2.0	0	2.3	52.2	169.0	8.0	13.4	0	21.4	2.3	4.6	0	6.9	0	0
Bosnia and Herzegovina	108.0	92.0	0	0	0	11.9	103.9	0	3.3	0	3.3	0.8	0	0	0.8	0	0
Denmark &	122.2	72.0	0.3	0			72.3	14.6	21.6	0	36.2	5.8	8.0	0	13.8	0	0
Estonia †	202.6	0	0	0	0	0	0	1.2	0	0	1.2	2.7	1.0	0	3.7	0	0
Finland	94.5	51.8	4.8	0	0	9.2	65.8	14.5	11.7	0	26.2	1.5	1.1	0	2.6	0	0
France †	162.3	100.6	0.2	0.1	0.2	33.5	134.6	6.3	11.6	0	17.9	3.7	6.0	0	9.6	0.2	0
Greece	199.2	175.9	0	0	0	9.7	185.6	5.9	6.8	0	12.7	0.9	0.1	0	1.0	0	0
Iceland	160.6	95.7	0	0			95.7	0	0	46.1	46.1	15.6	3.2	0	18.8	0	0
Norway	113.9	68.9	0	0			68.9			28.3	28.3	8.0	8.8	0	16.8	0	0
Romania	164.0	159.0	0	0	0.1	0.1	159.1	0.3	3.4	0	3.7	0.7	0.5	0	1.2	0	0
Serbia †	288.0	3.6	0	0	0	0.8	4.0	0.4	1.0	0	1.1	0.6	0	0	0.6	0	0
Spain, Andalusia	134.4	104.6	0.2	0			104.8			18.9	18.9	3.5	7.2	0	10.7	0	0
Spain, Aragon	117.9	67.3	0	0		16.7	84.0	4.2	17.4	0	21.7	6.1	6.0	0	12.2	0	0
Spain, Asturias †	378.5	3.0	0	0		0	3.0	0	0	0	0	0	1.2	0	1.2	0	0
Spain, Basque country	101.2	73.4	0.7	0			74.1	1.8	19.8	0	21.6	3.9	1.5	0	5.5	0	0
Spain, Canary Islands †	171.1	143.7	0	0	0	0	143.7	0	0	25.4	25.4	1.6	0	0.4	2.1	0	0
Spain, Cantabria *	97.0	70.6	0	0			70.6	3.8	15.2	0	19.0	3.4	3.9	0	7.3	0	0
Spain, Castile and León *	99.0	73.7	0.4	0			74.1	10.0	10.6	0	20.6	2.0	0.4	1.3	3.8	0.6	0
Spain, Castile-La Mancha *	129.6	98.9	0	0			98.9	2.5	24.6	0	27.1	1.0	2.6	0	3.6	0	0
Spain, Catalonia †	160.7	60.2	0	0		64.0	124.1	5.3	17.6	0	22.9	9.3	4.6	0	13.9	0	0
Spain, Community of Madrid	136.2	107.0	0	0			107.0	5.4	17.1	0	22.5	2.1	4.5	0	6.7	0	0
Spain, Extremadura	100.1	84.1	0	0			84.1	10.2	5.8	0	16.0	0	0	0	0	0	0
Spain, Galicia	131.3	92.0	2.3	0	0	0	94.3	3.0	28.0	0	31.0	4.9	0.4	0.8	6.0	0	0
Spain, Murcia	151.1	91.6	0	0	0	39.7	131.3	0.6	15.9	0	16.5	3.4	0	0	3.4	0	0
Spain, Navarre *	116.3	80.3	2.9	0			83.3	26.8	1.4	0	28.2	1.8	3.0	0	4.8	0	0
Sweden	105.0	59.8	1.1	0			60.9			33.1	33.1	5.4	5.4	0	10.9	0.1	0
Switzerland †	291.9	0.2	0.7	0	3.5	0	0.3	1.4	0.3	0	0.5	0	0	0	0	0	0
the Netherlands	108.3	70.9	0.3	0		1.9	73.2	8.4	10.9	0	19.3	13.9	1.9	0	15.9	0.1	0
United Kingdom, All countries * † ¶ § #	117.7	68.6	0.6		0.2	12.4	81.7	12.3	11.0	0.1	23.4	5.2	6.7	0.5	12.4	0.1	
United Kingdom, England * † ¶ § #	118.7	66.6	0.7		0.2	14.5	82.0	13.0	11.2	0.1	24.3	4.8	6.8	0.6	12.3		
United Kingdom, Northern Ireland * † #	118.7	75.5		0	0		76.2	17.1		0	17.4	20.7	4.7	0	25.4	0	
United Kingdom, Scotland * † #	112.8	84.1	0	0			84.1	7.4	8.6	0	16.0	6.0	6.8	0	12.7	0	0
United Kingdom, Wales * † #	113.7	75.0		0	0	4.4	79.6	8.6	17.2	0	25.6	2.4	5.8	0	8.2		

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
 Categories may not add up because of rounding off; When cells are left empty, (complete) data are unavailable

* Patients younger than 20 years of age are not reported

& No distinction is made between HD and HDF

† The incident counts at day 91, on which the data presented in this table are based, are estimated (see methods)

|| The incidence of pre-emptive transplantation is underestimated by approximately 30%

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Values based on 1 to 5 patients are suppressed

Table B.3.10
Treatment modality distribution, unadjusted
at day 91

	All	Haemodialysis						Peritoneal dialysis				Kidney transplant				Unkn	Missing
		HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx		
		%	%	%	%	%	%	%	%	%	%	%	%	%	%		
Austria	100	78.4	0	0.1	0	7.9	86.4	3.2	6.2	0.4	9.8	2.6	1.2	0	3.8	0	0
Belgium, Dutch-speaking *	100	53.1	0.7	0	0	30.6	84.5	7.8	5.0	0	12.8	1.0	1.7	0	2.7	0	0
Belgium, French-speaking *	100	56.8	1.1	0	1.2	26.4	85.4	4.1	6.8	0	10.9	1.3	2.5	0	3.7	0	0
Bosnia and Herzegovina	100	84.4	0	0	0	11.5	96.0	0	3.2	0	3.2	0.9	0	0	0.9	0	0
Denmark &	100	59.4	0.3	0			59.7	11.8	17.4	0	29.2	4.6	6.5	0	11.1	0	0
Estonia †	100	68.6	0	0	0	0	68.6	8.0	16.1	0	24.1	4.6	2.7	0	7.3	0	0
Finland	100	55.7	4.6	0	0	9.6	69.9	14.9	12.5	0	27.5	1.5	1.1	0	2.6	0	0
France †	100	62.1	0.1	0.1	0.1	20.7	83.2	3.8	7.3	0	11.1	2.1	3.5	0	5.7	0.1	0
Greece	100	88.8	0	0	0	4.6	93.4	2.9	3.3	0	6.2	0.4	0	0	0.4	0	0
Iceland	100	58.7	0	0			58.7	0	0	28.3	28.3	10.9	2.2	0	13.0	0	0
Norway	100	60.1	0	0			60.1			24.8	24.8	7.6	7.6	0	15.1	0	0
Romania	100	96.9	0	0	0	0	96.9	0.2	2.1	0	2.3	0.5	0.3	0	0.7	0	0
Serbia †	100	74.4	0.7	0.1	0	6.0	81.3	0.5	14.2	0	14.7	0.7	3.3	0	4.0	0	0
Spain, Andalusia	100	77.2	0.2	0			77.4			14.2	14.2	2.8	5.6	0	8.4	0	0
Spain, Aragon	100	58.1	0	0		14.4	72.5	3.6	14.4	0	18.0	4.8	4.8	0	9.6	0	0
Spain, Asturias †	100	73.9	0	0		0	73.9	8.4	14.3	0	22.7	1.3	2.1	0	3.4	0	0
Spain, Basque country	100	73.0	0.8	0	0		73.9	1.7	19.5	0	21.2	3.7	1.2	0	5.0	0	0
Spain, Canary Islands †	100	82.9	0	0	0	0	82.9	0	0	15.7	15.7	1.2	0	0.3	1.4	0	0
Spain, Cantabria *	100	74.1	0	0			74.1	3.4	15.5	0	19.0	3.4	3.4	0	6.9	0	0
Spain, Castile and León *	100	76.5	0.3	0			76.8	9.3	10.0	0	19.4	1.7	0.3	1.4	3.5	0.3	0
Spain, Castile-La Mancha *	100	76.7	0	0			76.7	1.9	18.6	0	20.5	0.8	1.9	0	2.7	0	0
Spain, Catalonia †	100	36.9	0	0		40.1	77.0	3.3	10.8	0	14.2	5.9	2.9	0	8.8	0	0
Spain, Community of Madrid	100	78.0	0	0			78.0	4.3	12.7	0	17.0	1.6	3.4	0	5.0	0	0
Spain, Extremadura	100	84.8	0	0			84.8	9.8	5.4	0	15.2	0	0	0	0	0	0
Spain, Galicia	100	71.5	1.7	0	0	0	73.2	2.2	20.5	0	22.7	3.4	0.2	0.5	4.1	0	0
Spain, Murcia	100	59.8	0	0	0	26.3	86.1	0.5	10.8	0	11.3	2.6	0	0	2.6	0	0
Spain, Navarre *	100	70.1	2.6	0			72.7	22.1	1.3	0	23.4	1.3	2.6	0	3.9	0	0
Sweden	100	56.7	1.0	0			57.8			32.0	32.0	5.0	5.2	0	10.2	0.1	0
Switzerland †	100	74.1	1.1	0.3	3.6	0	79.2	5.0	7.8	0	12.8	6.0	2.0	0	8.0	0	0
the Netherlands	100	65.0	0.3	0		1.8	67.1	7.7	10.1	0	17.8	13.1	1.8	0	15.0	0.1	0
United Kingdom, All countries * † § #	100	58.3	0.5		0.1	10.5	69.4	10.5	9.4	0.1	20.0	4.5	5.6	0.5	10.6	0.1	
United Kingdom, England * † #	100	56.1	0.6		0.2	12.2	69.0	11.0	9.5	0.1	20.6	4.1	5.7	0.5	10.4		
United Kingdom, Northern Ireland * † #	100	62.2		0	-0.2		62.8	14.5		0	14.7	18.5	4.0	0	22.5	0	
United Kingdom, Scotland	100	74.6	0	0			74.6	6.5	7.7	0	14.2	5.2	5.9	0	11.1	0	0
United Kingdom, Wales * † #	100	67.4		0	0	3.8	71.5	7.0	14.7	0	21.7	2.0	4.5	0	6.5		

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
Categories may not add up because of rounding off; When cells are left empty, (complete) data are unavailable

* Patients younger than 20 years of age are not reported

& No distinction is made between HD and HDF

† The incident counts at day 91, on which the data presented in this table are based, are estimated (see methods)

|| The incidence of pre-emptive transplantation is underestimated by approximately 30%

§ HDF is not accurately captured from some units and so usage may be an underestimate for the UK

Values based on 1 to 5 patients are suppressed

Table B.4.3
Sex, mean age, and median age
prevalent patients on December 31

	All						Men						Women					
	%	Mean (years)	SD	Median (years)	P25	P75	%	Mean (years)	SD	Median (years)	P25	P75	%	Mean (years)	SD	Median (years)	P25	P75
Austria	100	61.6	15.2	63.1	52.5	73.1	64.8	61.7	15.1	63.2	52.8	73.1	35.2	61.5	15.5	63.0	51.8	73.2
Belgium, Dutch-speaking *	100	66.3	15.2	68.4	56.6	78.3	61.1	66.1	15.0	68.1	56.6	77.9	38.9	66.7	15.4	68.6	56.9	78.9
Belgium, French-speaking *	100	65.1	15.1	66.8	55.5	76.1	62.4	65.2	14.8	66.8	55.6	76.0	37.6	65.0	15.6	66.8	55.4	76.3
Bosnia and Herzegovina	100	59.7	14.9	61.4	50.6	70.5	60.2	58.9	14.7	60.3	50.0	69.2	39.8	60.8	15.1	63.2	51.8	71.9
Denmark	100	59.0	16.1	60.6	48.6	71.4	63.1	59.1	16.1	60.8	48.7	71.4	36.9	58.9	16.1	60.5	48.5	71.3
Estonia	100	58.2	15.6	58.9	47.6	69.8	57.4	58.1	15.5	58.1	47.7	69.9	42.6	58.3	15.6	60.3	47.4	69.7
Finland	100	59.4	16.3	61.7	50.6	71.0	63.1	59.6	16.1	62.2	50.8	71.0	36.9	58.9	16.7	61.4	50.3	71.0
France	100	63.0	16.4	65.0	52.6	75.0	61.3	63.0	16.2	65.0	52.8	75.0	38.7	63.0	16.6	64.8	52.5	75.4
Greece	100	65.0	15.5	67.0	54.8	77.3	64.8	64.6	15.3	66.6	54.6	76.7	35.2	65.6	16.0	68.0	55.3	78.3
Iceland	100	56.4	16.9	58.4	44.5	69.8	63.6	57.3	16.9	59.8	46.1	70.0	36.4	54.9	16.7	56.8	40.5	68.7
Norway	100	59.7	16.2	61.7	49.3	71.8	64.6	60.2	16.0	62.3	50.0	71.9	35.4	58.9	16.4	61.0	47.9	71.7
Romania	100	61.8	15.2	63.6	51.3	72.8	56.7	61.2	15.1	62.9	50.5	71.9	43.3	62.6	15.4	64.7	52.6	73.8
Serbia	100	58.7	15.4	61.2	49.6	69.0	62.0	58.7	15.5	61.3	49.4	69.0	37.9	58.8	15.3	61.1	49.9	69.1
Spain, Andalusia	100	60.8	15.5	62.1	50.7	72.5	61.4	60.3	15.3	61.5	50.5	71.8	38.6	61.7	15.8	63.3	51.3	73.5
Spain, Aragon	100	63.4	15.3	64.7	53.3	75.7	65.5	63.8	14.9	65.4	54.5	75.7	34.5	62.5	16.2	62.8	50.7	76.0
Spain, Asturias	100	63.4	14.4	64.5	54.3	73.7	64.7	63.0	14.4	64.0	54.5	72.8	35.3	64.3	14.5	65.4	53.4	74.9
Spain, Basque country	100	62.1	15.6	63.9	52.0	73.5	64.7	62.6	15.4	64.5	52.6	74.0	35.3	61.1	15.9	62.8	50.6	72.7
Spain, Canary Islands	100	61.3	14.4	62.5	51.4	72.2	65.5	61.4	14.2	62.6	51.7	71.7	34.5	61.1	14.8	62.4	50.3	73.0
Spain, Cantabria *	100	62.3	14.4	63.6	52.3	73.1	68.8	63.1	14.3	64.8	53.0	74.2	31.2	60.3	14.3	59.8	50.2	71.9
Spain, Castile and León *	100	65.3	14.5	66.1	55.3	76.6	66.3	65.2	14.3	66.1	55.6	76.4	33.7	65.4	15.0	66.3	54.7	77.0
Spain, Castile-La Mancha *	100	62.8	14.4	63.6	52.9	74.2	62.8	62.6	14.1	63.4	53.1	73.2	37.2	63.1	15.0	64.1	52.7	75.2
Spain, Catalonia	100	63.2	15.7	65.0	52.9	74.8	63.6	63.1	15.4	64.9	52.9	74.5	36.4	63.4	16.1	65.3	52.8	75.4
Spain, Community of Madrid	100	62.1	15.7	63.5	51.9	74.0	63.5	62.6	15.5	64.0	52.7	74.1	36.5	61.2	16.1	61.9	50.5	73.7
Spain, Extremadura	100	62.0	14.7	62.7	52.4	73.2	62.5	62.0	13.9	62.6	52.9	71.8	37.5	62.2	15.9	62.7	51.5	75.1
Spain, Galicia	100	62.9	14.6	64.3	53.0	74.0	64.6	63.0	14.3	64.5	53.3	73.8	35.4	62.7	15.1	63.9	52.0	74.3
Spain, Murcia	100	62.4	15.1	63.3	52.4	74.0	64.6	62.3	15.0	63.7	53.0	73.4	35.4	62.7	15.3	62.6	51.7	74.8
Spain, Navarre *	100	62.8	14.4	64.3	53.0	73.6	64.9	63.2	14.1	65.0	53.2	74.0	35.1	62.1	14.9	63.5	52.5	72.6
Sweden	100	60.0	16.3	62.0	50.4	72.1	64.6	60.4	16.2	62.6	50.7	72.6	35.4	59.1	16.5	61.4	49.6	71.5
Switzerland	100	62.2	15.7	64.1	52.8	73.7	62.3	62.3	15.5	64.3	53.0	73.7	37.7	62.0	15.9	63.7	52.7	73.9
the Netherlands	100	60.7	15.8	62.6	50.8	72.3	60.4	60.7	15.8	62.7	50.8	72.5	39.6	60.6	15.8	62.4	51.0	72.0
United Kingdom, All countries *	100	58.8	15.3	59.3	48.5	70.5	61.1	59.0	15.3	59.5	48.7	70.7	38.9	58.4	15.3	58.9	48.0	70.2
United Kingdom, England *	100	58.9	15.3	59.4	48.5	70.6	61.2	59.1	15.4	59.6	48.8	70.8	38.8	58.4	15.3	58.9	48.0	70.3
United Kingdom, Northern Ireland *	100	59.0	15.9	58.8	47.7	71.6	60.1	59.3	15.8	58.9	48.4	71.5	39.9	58.5	16.0	58.6	46.5	71.8
United Kingdom, Scotland	100	56.8	15.6	57.8	47.2	68.1	59.1	56.7	15.8	58.0	47.0	68.2	40.9	56.9	15.2	57.6	47.5	68.0
United Kingdom, Wales *	100	59.5	15.7	60.4	48.8	71.5	63.8	59.8	15.6	60.5	49.0	71.8	36.2	58.8	15.9	60.1	48.5	70.7

Categories may not add up because of missing values or rounding off

* Patients younger than 20 years of age are not reported

Table B.4.4
Prevalence per million population, adjusted
prevalent patients on December 31, adjusted for age and sex

	All	Men	Women
	Pmp	Pmp	Pmp
Austria	1080.3	1425.9	750.8
Belgium, Dutch-speaking *	1235.2	1504.1	978.8
Belgium, French-speaking *	1471.4	1889.3	1073.0
Bosnia and Herzegovina	821.1	1019.8	631.5
Denmark	964.4	1218.6	722.1
Estonia	749.1	943.0	564.2
Finland	881.8	1125.1	649.8
France	1339.0	1682.5	1011.5
Greece	1219.9	1614.5	843.5
Iceland	865.9	1095.1	647.3
Norway	1041.1	1334.2	761.5
Romania	1168.2	1382.2	964.1
Serbia	677.0	867.9	494.9
Spain, Andalusia	1273.5	1582.3	979.1
Spain, Aragon	1182.1	1564.3	817.6
Spain, Asturias	1126.2	1507.3	762.8
Spain, Basque country	1145.0	1508.8	798.1
Spain, Canary Islands	1444.5	1898.3	1011.7
Spain, Cantabria *	1018.3	1425.1	630.3
Spain, Castile and León *	1048.7	1387.1	725.9
Spain, Castile-La Mancha *	1200.8	1501.7	913.8
Spain, Catalonia	1440.9	1867.0	1034.5
Spain, Community of Madrid	1219.5	1621.2	836.4
Spain, Extremadura	1129.8	1421.0	852.2
Spain, Galicia	1207.0	1594.2	837.8
Spain, Murcia	1516.3	1980.6	1073.6
Spain, Navarre *	1313.1	1703.0	941.2
Sweden	998.1	1280.7	728.7
Switzerland †	941.7	1176.3	718.0
the Netherlands	1035.1	1248.7	831.3
United Kingdom, All countries * ¶	1016.0	1253.0	790.0
United Kingdom, England * ¶	1021.9	1260.0	794.9
United Kingdom, Northern Ireland *	1074.8	1310.8	849.7
United Kingdom, Scotland	962.0	1165.0	768.4
United Kingdom, Wales *	1012.0	1305.0	732.5

* Patients younger than 20 years of age are not reported

† The prevalence is underestimated by approximately 6% due to an estimated 11% underreporting of patients living on a functioning graft

¶ The prevalence is underestimated by approximately 1% due to one centre not submitting data since 2014

Table B.4.6
Prevalence per million population by primary renal disease, adjusted
prevalent patients on December 31, adjusted for age and sex

	All	GN	PN	PKD	DM			HT	RVD	Misc	Unkn	Missing
	Pmp	Pmp	Pmp	Pmp	Type 1	Type 2	Both	Pmp	Pmp	Pmp	Pmp	Pmp
					Pmp	Pmp	Pmp					
Austria	1080.3	240.8	72.7	79.3	56.0	157.3	213.3	90.7	78.9	201.7	103.0	0
Belgium, Dutch-speaking *	1235.2	219.5	84.5	127.3	49.4	159.6	209.0	100.9	46.5	330.9	116.5	0
Belgium, French-speaking *	1471.4	233.9	107.7	119.4	41.7	228.6	270.3	236.9	24.5	371.9	106.8	0
Bosnia and Herzegovina	821.1	150.0	114.8	42.5	84.5	79.3	163.8	109.9	7.5	148.9	83.6	0
Denmark	964.4	196.3	66.0	92.1	78.8	84.5	163.3	105.2	2.1	158.4	181.0	0
Estonia	749.1	198.6	97.5	70.4			133.6	82.4	66.1	99.6	0.8	0
Finland	881.8	185.0	75.4	115.3	154.7	73.7	228.3	34.8	4.2	159.5	79.2	0
France	1339.0	277.8	100.5	133.0			218.0	213.7	11.7	234.2	150.2	0
Greece	1219.9	214.1	76.6	101.3	28.3	197.2	225.5	112.9	14.1	124.4	351.0	0
Iceland	865.9	216.7	69.7	96.8	56.4	25.7	82.2	149.4	17.7	177.9	51.6	4.0
Norway	1041.1	284.4	72.7	115.8			141.9	193.6	6.3	200.6	25.3	0.6
Romania	1168.2	205.6	94.2	51.1			116.6	63.7	6.0	178.8	452.1	0.1
Serbia	677.0	125.6	73.1	43.5			114.6	169.3	7.1	96.8	47.1	0
Spain, Andalusia	1273.5	254.8	118.8	122.5			201.9	108.7	2.4	179.6	284.8	0
Spain, Aragon	1182.1	231.6	63.3	104.7	70.9	140.8	211.7	117.9	1.9	153.1	297.9	0
Spain, Asturias	1126.2	235.0	82.0	121.8	49.1	134.3	183.4	140.2	14.7	186.9	162.4	0
Spain, Basque country	1145.0	200.2	105.2	132.8	36.2	95.4	131.5	128.4	0.8	189.1	256.6	0.3
Spain, Canary Islands	1444.5	65.0	22.7	41.1	12.8	159.2	172.0	36.9	1.3	100.8	71.1	933.6
Spain, Cantabria *	1018.3	316.6	82.1	104.2	37.8	110.1	147.9	105.2	71.3	126.6	44.2	20.1
Spain, Castile and León * ‡	1048.7	187.7	64.2	95.3	64.5	120.9	185.3	118.0	0	139.7	258.5	0
Spain, Castile-La Mancha *	1200.8	249.2	121.5	142.9			197.3	61.9	18.6	144.4	261.0	3.9
Spain, Catalonia	1440.9	285.8	129.4	146.7	35.4	167.7	206.6	114.5	39.1	194.2	324.5	0
Spain, Community of Madrid	1219.5	260.7	87.6	133.7	43.6	180.3	223.9	141.1	18.1	223.0	131.4	0
Spain, Extremadura	1129.8	228.1	79.6	119.0			170.4	76.4	18.4	125.5	301.5	10.9
Spain, Galicia	1207.0	240.1	79.3	141.9	54.0	145.6	199.7	94.0	2.6	218.8	230.8	0
Spain, Murcia	1516.3	397.0	114.4	106.6			218.4	99.9	63.8	194.4	321.7	0
Spain, Navarre *	1313.1	246.0	49.5	181.2	67.4	123.6	191.0	184.9	1.5	255.1	203.9	0
Sweden ‡	998.1	248.3	51.3	107.7			179.0	99.7	2.4	208.7	101.0	0
Switzerland †	941.7	195.8	36.6	30.8	25.8	114.4	140.2	116.6	20.1	289.4	112.1	0
the Netherlands	1035.1	170.5	69.7	89.0	39.2	98.2	137.4	121.3	64.1	211.2	108.6	63.2
United Kingdom, All countries * ¶	1016.0	194.2	103.7	99.7			175.9	61.9	13.5	184.0	154.7	28.6
United Kingdom, England * ¶	1021.9	188.3	99.9	97.5			179.1	66.6	13.7	182.8	160.6	33.4
United Kingdom, Northern Ireland *	1074.8	203.5	159.8	127.1			160.2	39.4	11.8	222.4	135.8	14.9
United Kingdom, Scotland	962.0	216.8	122.2	110.7			157.5	35.2	11.5	197.2	110.8	0.2
United Kingdom, Wales *	1012.0	255.2	110.4	103.2			165.8	42.4	13.6	176.9	141.9	2.7

Abbreviations used: GN: glomerulonephritis/sclerosis; PN: pyelonephritis; PKD: polycystic kidneys, adult type; DM: diabetes mellitus; HT: hypertension; RVD: renal vascular disease; Misc: miscellaneous; Unkn: unknown
 Categories may not add up because of rounding off or a limited number of cases (<10%) with diabetes mellitus type unknown; When cells are left empty, (complete) data are unavailable

* Patients younger than 20 years of age are not reported

‡ Mapping the 2018 Primary Renal Disease (PRD) codes to the old PRD codes results in a different distribution of PRD groups

† The prevalence is underestimated by approximately 6% due to an estimated 11% underreporting of patients living on a functioning graft

¶ The prevalence is underestimated by approximately 1% due to one centre not submitting data since 2014

Table B.4.7
Prevalent counts by treatment modality
prevalent patients on December 31

	All	Haemodialysis						Peritoneal dialysis				Kidney transplant				Unkn	Missing
		HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx		
		N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Austria	9540	3108	4	14	3	1060	4189	152	200	7	359	820	4164	8	4992	0	0
Belgium, Dutch-speaking *	8419	2529	49	0	3	1759	4340	244	111	0	355	256	3468	0	3724	0	0
Belgium, French-speaking *	6506	2253	80	0	33	1117	3483	124	164	0	288	236	2234	251	2721	14	0
Bosnia and Herzegovina	2644	1272	0	0	0	944	2216	2	81	3	86	228	108	6	342	0	0
Denmark &	5579	1945	177	0			2122	285	264	2	551	1177	1729	0	2906	0	0
Estonia	949	335	0	0	1	9	345	37	24	1	62	22	520	0	542	0	0
Finland	5008	844	139	0	0	623	1606	246	138	0	384	247	2748	23	3018	0	0
France	87989	29063	422	56	80	15188	44809	1174	1912	2	3088	4549	33181	1950	39680	412	0
Greece	14183	7603	0	0	0	3259	10862	480	237	0	717	1067	1537	0	2604	0	0
Iceland	261	67	0	0			67	0	0	20	20	111	63	0	174	0	0
Norway	5155	1234	29	0			1263			305	305	1371	2209	6	3586	1	0
Romania	21708	18379	5	2	9	95	18490	100	1230	3	1333	396	730	744	1870	15	0
Serbia	4850	2936	27	11	3	675	3652	33	384	4	421	430	333	5	768	9	0
Spain, Andalusia	10296	4132	13	0			4145			380	380	489	5282	0	5771	0	0
Spain, Aragon	1671	388	3	0		126	517	15	64	0	79	91	982	0	1073	2	0
Spain, Asturias	1375	517	7	0	0	5	529	43	72	0	115	46	682	3	731	0	0
Spain, Basque country	2722	807	3	0			810	26	118	0	144	152	1611	0	1763	5	0
Spain, Canary Islands	3032	1468	0	0	0	0	1468	0	0	179	179	36	14	1333	1383	2	0
Spain, Cantabria *	637	188	0	0			188	7	26	0	33	28	388	0	416	0	0
Spain, Castile and León *	3031	1181	6	0			1187	83	110	0	193	56	82	1465	1603	48	0
Spain, Castile-La Mancha *	2422	897	1	0			898	30	108	0	138	39	1269	73	1381	3	2
Spain, Catalonia	10785	1159	4	0		3042	4205	192	239	0	431	1252	4897	0	6149	0	0
Spain, Community of Madrid	7537	2924	0	0			2924	125	271	0	396	281	3936	0	4217	0	0
Spain, Extremadura	1274	571	7	0			578	36	27	0	63	23	324	286	633	0	0
Spain, Galicia	3741	1624	19	0	0	2	1645	90	199	0	289	232	1529	46	1807	0	0
Spain, Murcia	1982	383	0	0	0	615	998	15	72	0	87	66	831	0	897	0	0
Spain, Navarre *	860	287	13	0			300	18	2	0	20	38	502	0	540	0	0
Sweden	9927	3076	136	0			3212			891	891	2439	3384	0	5823	1	0
Switzerland †	7927	3202	51	1	85	0	3339	166	174	0	340	1648	2575	19	4242	6	0
the Netherlands	17246	4750	264	0		356	5370	513	364	0	877	5612	5379	7	10998	1	0
United Kingdom, All countries * ¶ § #	64130	20231	1355	18	25	3719	25348	2043	1430	44	3517	11171	22940	1141	35252	13	0
United Kingdom, England * ¶ #	54043	16688	1195	7	25	3644	21559	1755	1267	41	3063	9295	19078	1036	29409	12	0
United Kingdom, Northern Ireland * #	1831	567	19	11	0	15	612	65			69	485	596	68	1149		0
United Kingdom, Scotland	5184	1908	54	0			1962	119	75	0	194	908	2094	26	3028	0	0
United Kingdom, Wales * #	3161	1077	90	0	0	60	1227	112	87		200	523	1200	11	1734	0	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
 When cells are left empty, (complete) data are unavailable

* Patients younger than 20 years of age are not reported

& No distinction is made between HD and HDF

|| The prevalence of patients living on a functioning graft is underestimated by approximately 30%

† The prevalence is underestimated by approximately 6% due to an estimated 11% underreporting of patients living on a functioning graft

¶ The prevalence is underestimated by approximately 1% due to one centre not submitting data since 2014

§ HDF is not accurately captured from some units and so usage may be an underestimate for the UK

Values based on 1 to 5 patients are suppressed

Table B.4.8
Prevalence per million population by treatment modality, unadjusted
prevalent patients on December 31

	All	Haemodialysis						Peritoneal dialysis				Kidney transplant				Unkn	Missing
		HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx		
		Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp		
Austria	1087.4	354.3	0.5	1.6	0.3	120.8	477.5	17.3	22.8	0.8	40.9	93.5	474.6	0.9	569.0	0	0
Belgium, Dutch-speaking *	1286.8	386.5	7.5	0	0.5	268.9	663.3	37.3	17.0	0	54.3	39.1	530.1	0	569.2	0	0
Belgium, French-speaking *	1346.3	466.2	16.6	0	6.8	231.1	720.7	25.7	33.9	0	59.6	48.8	462.3	51.9	563.1	2.9	0
Bosnia and Herzegovina	748.8	360.2	0	0	0	267.3	627.6	0.6	22.9	0.8	24.4	64.6	30.6	1.7	96.9	0	0
Denmark &	958.4	334.1	30.4	0			364.5	49.0	45.4	0.3	94.7	202.2	297.0	0	499.2	0	0
Estonia	720.4	254.3	0	0	0.8	6.8	261.9	28.1	18.2	0.8	47.1	16.7	394.7	0	411.4	0	0
Finland	909.2	153.2	25.2	0	0	113.1	291.6	44.7	25.1	0	69.7	44.8	498.9	4.2	547.9	0	0
France	1315.9	434.7	6.3	0.8	1.2	227.1	670.1	17.6	28.6	0	46.2	68.0	496.2	29.2	593.4	6.2	0
Greece	1318.8	706.9	0	0	0	303.0	1010.0	44.6	22.0	0	66.7	99.2	142.9	0	242.1	0	0
Iceland	760.0	195.1	0	0			195.1	0	0	58.2	58.2	323.2	183.5	0	506.7	0	0
Norway	976.9	233.8	5.5	0			239.3			57.8	57.8	259.8	418.6	1.1	679.6	0.2	0
Romania	1142.5	967.3	0.3	0.1	0.5	5.0	973.2	5.3	64.7	0.2	70.2	20.8	38.4	39.2	98.4	0.8	0
Serbia	712.2	431.1	4.0	1.6	0.4	99.1	536.3	4.8	56.4	0.6	61.8	63.1	48.9	0.7	112.8	1.3	0
Spain, Andalusia	1224.3	491.4	1.5	0			492.9			45.2	45.2	58.1	628.1	0	686.3	0	0
Spain, Aragon	1271.1	295.1	2.3	0		95.8	393.3	11.4	48.7	0	60.1	69.2	747.0	0	816.2	1.5	0
Spain, Asturias	1329.4	499.9	6.8	0	0	4.8	511.5	41.6	69.6	0	111.2	44.5	659.4	2.9	706.8	0	0
Spain, Basque country	1254.9	372.0	1.4	0			373.4	12.0	54.4	0	66.4	70.1	742.7	0	812.8	2.3	0
Spain, Canary Islands	1399.8	677.8	0	0	0	0	677.8	0	0	82.6	82.6	16.6	6.5	615.4	638.5	0.9	0
Spain, Cantabria *	1095.7	323.4	0	0			323.4	12.0	44.7	0	56.8	48.2	667.4	0	715.5	0	0
Spain, Castile and León *	1248.8	486.6	2.5	0			489.0	34.2	45.3	0	79.5	23.1	33.8	603.6	660.4	19.8	0
Spain, Castile-La Mancha *	1189.1	440.4	0.5	0			440.9	14.7	53.0	0	67.8	19.1	623.0	35.8	678.0	1.5	1.0
Spain, Catalonia	1427.4	153.4	0.5	0		402.6	556.5	25.4	31.6	0	57.0	165.7	648.1	0	813.8	0	0
Spain, Community of Madrid	1158.3	449.3	0	0			449.3	19.2	41.6	0	60.9	43.2	604.9	0	648.1	0	0
Spain, Extremadura	1179.7	528.7	6.5	0			535.2	33.3	25.0	0	58.3	21.3	300.0	264.8	586.2	0	0
Spain, Galicia	1382.2	600.0	7.0	0	0	0.7	607.8	33.3	73.5	0	106.8	85.7	564.9	17.0	667.6	0	0
Spain, Murcia	1348.0	260.5	0	0	0	418.3	678.8	10.2	49.0	0	59.2	44.9	565.2	0	610.1	0	0
Spain, Navarre *	1339.3	447.0	20.2	0			467.2	28.0	3.1	0	31.1	59.2	781.8	0	841.0	0	0
Sweden	987.0	305.8	13.5	0			319.4			88.6	88.6	242.5	336.5	0	579.0	0.1	0
Switzerland †	937.9	378.9	6.0	0.1	10.1	0	395.1	19.6	20.6	0	40.2	195.0	304.7	2.2	501.9	0.7	0
the Netherlands	1037.8	285.8	15.9	0		21.4	323.2	30.9	21.9	0	52.8	337.7	323.7	0.4	661.8	0.1	0
United Kingdom, All countries * ¶ § #	971.1	306.3	20.5	0.3	0.4	56.3	383.8	30.9	21.7	0.7	53.3	169.2	347.4	17.3	533.8	0.2	0
United Kingdom, England * ¶ #	971.7	300.0	21.5	0.1	0.4	65.5	387.6	31.6	22.8	0.7	55.1	167.1	343.0	18.6	528.8	0.2	0
United Kingdom, Northern Ireland * #	978.7	303.1	10.2	5.9	0	8.0	327.1	34.7			36.9	259.2	318.6	36.3	614.2		0
United Kingdom, Scotland	955.6	351.7	10.0	0			361.7	21.9	13.8	0	35.8	167.4	386.0	4.8	558.2	0	0
United Kingdom, Wales * #	1011.5	344.6	28.8	0	0	19.2	392.6	35.8	27.8		64.0	167.4	384.0	3.5	554.9	0	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
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* Patients younger than 20 years of age are not reported

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Values based on 1 to 5 patients are suppressed

Table B.4.9
Prevalence per million population by treatment modality, adjusted
prevalent patients on December 31, adjusted for age and sex

	All																Unkn	Missing
	Haemodialysis							Peritoneal dialysis				Kidney transplant						
	HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx				
Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp			
Austria	1080.3	354.5	0.4	1.6	0.3	119.7	476.5	17.3	22.5	0.8	40.6	92.2	470.1	0.9	563.2	0	0	
Belgium, Dutch-speaking *	1235.2	362.4	7.3	0	0.4	252.8	622.9	36.2	16.1	0	52.3	39.8	520.2	0	560.0	0	0	
Belgium, French-speaking *	1471.4	515.2	17.5	0	7.5	257.4	797.6	28.3	37.5	0	65.8	50.9	497.6	56.6	605.0	3.0	0	
Bosnia and Herzegovina	821.1	401.5	0	0	0	299.3	700.8	0.5	24.7	0.9	26.1	62.7	29.8	1.7	94.2	0	0	
Denmark &	964.4	335.8	30.9	0			366.7	48.9	45.2	0.4	94.5	205.8	297.5	0	503.3	0	0	
Estonia	749.1	268.3	0	0	0.8	6.7	275.9	29.1	18.3	0.8	48.2	17.3	407.6	0	425.0	0	0	
Finland	881.8	146.3	25.8	0	0	108.3	280.4	43.8	23.9	0	67.7	44.1	485.3	4.2	533.7	0	0	
France	1339.0	435.1	6.6	0.8	1.2	226.7	670.5	17.8	28.0	0	45.8	71.8	514.8	29.8	616.4	6.3	0	
Greece	1219.9	629.2	0	0	0	288.9	918.2	41.9	20.0	0	61.9	99.5	140.3	0	239.8	0	0	
Iceland	865.9	237.0	0	0			237.0	0	0	70.8	70.8	355.0	203.2	0	558.2	0	0	
Norway	1041.1	256.3	5.6	0			261.9			63.4	63.4	269.1	445.3	1.2	715.6	0.2	0	
Romania	1168.2	992.1	0.3	0.1	0.5	5.0	998.0	5.5	66.8	0.2	72.5	20.2	37.9	38.9	97.0	0.8	0	
Serbia	677.0	405.9	3.8	1.5	0.4	94.3	505.7	4.8	53.5	0.7	59.0	63.4	46.9	0.7	111.0	1.2	0	
Spain, Andalusia	1273.5	526.4	1.5	0			528.0			47.7	47.7	57.3	640.5	0	697.8	0	0	
Spain, Aragon	1182.1	258.9	2.1	0		87.5	348.6	10.3	44.2	0	54.4	69.0	708.8	0	777.8	1.3	0	
Spain, Asturias	1126.2	403.4	7.2	0	0	4.1	414.6	37.6	56.8	0	94.4	42.5	572.2	2.5	617.2	0	0	
Spain, Basque country	1145.0	324.8	1.2	0			325.9	10.9	48.8	0	59.7	68.9	688.5	0	757.4	2.0	0	
Spain, Canary Islands	1444.5	736.7	0	0	0	0	736.7	0	0	83.9	83.9	15.2	5.4	602.6	623.2	0.8	0	
Spain, Cantabria *	1018.3	297.3	0	0			297.3	14.2	40.9	0	55.0	46.2	619.7	0	665.9	0	0	
Spain, Castile and León *	1048.7	377.5	2.4	0			379.8	30.2	36.4	0	66.6	22.4	31.9	534.6	588.9	13.3	0	
Spain, Castile-La Mancha *	1200.8	436.1	0.5	0			436.6	14.8	53.9	0	68.7	19.6	636.9	36.9	693.3	1.4	0.7	
Spain, Catalonia	1440.9	154.1	0.5	0		402.3	556.9	26.1	32.4	0	58.5	164.4	661.0	0	825.4	0	0	
Spain, Community of Madrid	1219.5	479.6	0	0			479.6	20.0	44.3	0	64.4	43.6	631.9	0	675.5	0	0	
Spain, Extremadura	1129.8	493.2	6.1	0			499.3	32.2	24.2	0	56.4	20.5	296.5	257.1	574.1	0	0	
Spain, Galicia	1207.0	494.3	6.4	0	0	0.7	501.4	30.0	63.8	0	93.8	81.6	511.9	18.3	611.8	0	0	
Spain, Murcia	1516.3	303.3	0	0	0	478.3	781.6	10.7	54.7	0	65.4	46.6	622.6	0	669.2	0	0	
Spain, Navarre *	1313.1	429.0	19.7	0			448.8	27.8	2.9	0	30.7	57.3	776.3	0	833.6	0	0	
Sweden	998.1	303.6	14.2	0			317.8			87.4	87.4	250.3	342.5	0	592.8	0.1	0	
Switzerland †	941.7	384.2	6.0	0.1	10.1	0	400.4	19.7	20.9	0	40.6	193.2	304.6	2.2	500.0	0.7	0	
the Netherlands	1035.1	291.7	15.9	0		21.9	329.5	31.0	21.9	0	52.8	334.0	318.3	0.4	652.7	0.1	0	
United Kingdom, All countries * ¶ § #	1016.0	320.2	21.4	0.3	0.4	58.9	401.1	32.3	22.5	0.7	55.5	176.9	364.4	17.9	559.2	0.2	0	
United Kingdom, England * ¶ #	1021.9	315.5	22.5	0.1	0.5	68.9	407.5	33.1	23.8	0.8	57.7	175.4	361.8	19.4	556.6	0.2	0	
United Kingdom, Northern Ireland * #	1074.8	345.1	11.0	7.1	0	8.9	372.1	39.7			42.1	276.5	344.9	38.6	660.1		0	
United Kingdom, Scotland	962.0	354.0	9.9	0			363.8	22.3	13.7	0	36.0	168.9	388.4	4.9	562.2	0	0	
United Kingdom, Wales * #	1012.0	334.2	29.4	0	0	18.6	382.2	35.0	26.8		62.1	174.6	389.4	3.6	567.7	0	0	

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
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Values based on 1 to 5 patients are suppressed

Table B.4.10
Treatment modality distribution, unadjusted
prevalent patients on December 31

	All	Haemodialysis						Peritoneal dialysis				Kidney transplant				Unkn	Missing
		HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx		
		%	%	%	%	%	%	%	%	%	%	%	%	%	%		
Austria	100	32.6	0	0.1	0	11.1	43.9	1.6	2.1	0.1	3.8	8.6	43.6	0.1	52.3	0	0
Belgium, Dutch-speaking *	100	30.0	0.6	0	0	20.9	51.6	2.9	1.3	0	4.2	3.0	41.2	0	44.2	0	0
Belgium, French-speaking *	100	34.6	1.2	0	0.5	17.2	53.5	1.9	2.5	0	4.4	3.6	34.3	3.9	41.8	0.2	0
Bosnia and Herzegovina	100	48.1	0	0	0	35.7	83.8	0.1	3.1	0.1	3.3	8.6	4.1	0.2	12.9	0	0
Denmark &	100	34.9	3.2	0			38.0	5.1	4.7	0	9.9	21.1	31.0	0	52.1	0	0
Estonia	100	35.3	0	0	0.1	0.9	36.4	3.9	2.5	0.1	6.5	2.3	54.8	0	57.1	0	0
Finland	100	16.9	2.8	0	0	12.4	32.1	4.9	2.8	0	7.7	4.9	54.9	0.5	60.3	0	0
France	100	33.0	0.5	0.1	0.1	17.3	50.9	1.3	2.2	0	3.5	5.2	37.7	2.2	45.1	0.5	0
Greece	100	53.6	0	0	0	23.0	76.6	3.4	1.7	0	5.1	7.5	10.8	0	18.4	0	0
Iceland	100	25.7	0	0			25.7	0	0	7.7	7.7	42.5	24.1	0	66.7	0	0
Norway	100	23.9	0.6	0			24.5			5.9	5.9	26.6	42.9	0.1	69.6	0	0
Romania	100	84.7	0	0	0	0.4	85.2	0.5	5.7	0	6.1	1.8	3.4	3.4	8.6	0.1	0
Serbia	100	60.5	0.6	0.2	0.1	13.9	75.3	0.7	7.9	0.1	8.7	8.9	6.9	0.1	15.8	0.2	0
Spain, Andalusia	100	40.1	0.1	0			40.3			3.7	3.7	4.7	51.3	0	56.1	0	0
Spain, Aragon	100	23.2	0.2	0		7.5	30.9	0.9	3.8	0	4.7	5.4	58.8	0	64.2	0.1	0
Spain, Asturias	100	37.6	0.5	0	0	0.4	38.5	3.1	5.2	0	8.4	3.3	49.6	0.2	53.2	0	0
Spain, Basque country	100	29.6	0.1	0			29.8	1.0	4.3	0	5.3	5.6	59.2	0	64.8	0.2	0
Spain, Canary Islands	100	48.4	0	0	0	0	48.4	0	0	5.9	5.9	1.2	0.5	44.0	45.6	0.1	0
Spain, Cantabria *	100	29.5	0	0			29.5	1.1	4.1	0	5.2	4.4	60.9	0	65.3	0	0
Spain, Castile and León *	100	39.0	0.2	0			39.2	2.7	3.6	0	6.4	1.8	2.7	48.3	52.9	1.6	0
Spain, Castile-La Mancha *	100	37.0	0	0			37.1	1.2	4.5	0	5.7	1.6	52.4	3.0	57.0	0.1	0.1
Spain, Catalonia	100	10.7	0	0		28.2	39.0	1.8	2.2	0	4.0	11.6	45.4	0	57.0	0	0
Spain, Community of Madrid	100	38.8	0	0			38.8	1.7	3.6	0	5.3	3.7	52.2	0	56.0	0	0
Spain, Extremadura	100	44.8	0.5	0			45.4	2.8	2.1	0	4.9	1.8	25.4	22.4	49.7	0	0
Spain, Galicia	100	43.4	0.5	0	0	0.1	44.0	2.4	5.3	0	7.7	6.2	40.9	1.2	48.3	0	0
Spain, Murcia	100	19.3	0	0	0	31.0	50.4	0.8	3.6	0	4.4	3.3	41.9	0	45.3	0	0
Spain, Navarre *	100	33.4	1.5	0			34.9	2.1	0.2	0	2.3	4.4	58.4	0	62.8	0	0
Sweden	100	31.0	1.4	0			32.4			9.0	9.0	24.6	34.1	0	58.7	0	0
Switzerland	100	40.4	0.6	0	1.1	0	42.1	2.1	2.2	0	4.3	20.8	32.5	0.2	53.5	0.1	0
the Netherlands	100	27.5	1.5	0		2.1	31.1	3.0	2.1	0	5.1	32.5	31.2	0	63.8	0	0
United Kingdom, All countries * § #	100	31.5	2.1	0	0	5.8	39.5	3.2	2.2	0.1	5.5	17.4	35.8	1.8	55.0	0	0
United Kingdom, England * #	100	30.9	2.2	0	0	6.7	39.9	3.2	2.3	0.1	5.7	17.2	35.3	1.9	54.4	0	0
United Kingdom, Northern Ireland * #	100	31.0	1.0	0.6	0	0.8	33.4	3.5			3.8	26.5	32.6	3.7	62.8		0
United Kingdom, Scotland	100	36.8	1.0	0			37.8	2.3	1.4	0	3.7	17.5	40.4	0.5	58.4	0	0
United Kingdom, Wales * #	100	34.1	2.8	0	0	1.9	38.8	3.5	2.8		6.3	16.5	38.0	0.3	54.9	0	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
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|| The prevalence of patients living on a functioning graft is underestimated by approximately 30%

§ HDF is not accurately captured from some units and so usage may be an underestimate for the UK

Values based on 1 to 5 patients are suppressed

Table B.5.1
Kidney transplant counts and percentages by donor type

	All		Living donor						Deceased donor		Donor type Unkn			
	N	%	Related		Unrelated		Type Unkn		All		N	%	N	%
			N	%	N	%	N	%	N	%				
Austria §	423	100	33	7.8	31	7.3	0	0	64	15.1	359	84.9	0	0
Belgium, Dutch-speaking *	266	100	16	6.0	13	4.9	0	0	29	10.9	237	89.1	0	0
Belgium, French-speaking *	192	100	11	5.7	10	5.2	0	0	21	10.9	168	87.5	3	1.6
Bosnia and Herzegovina	24	100	14	58.3	4	16.7	2	8.3	20	83.3	4	16.7	0	0
Denmark	255	100	52	20.4	38	14.9	0	0	90	35.3	165	64.7	0	0
Estonia	39	100	5	12.8	7	17.9	0	0	12	30.8	27	69.2	0	0
Finland	238	100	21	8.8	7	2.9	0	0	28	11.8	206	86.6	4	1.7
France	3784	100	364	9.6	247	6.5	0	0	611	16.1	3171	83.8	2	0.1
Greece	182	100	53	29.1	14	7.7	0	0	67	36.8	115	63.2	0	0
Iceland	8	100	0	0	3	37.5	5	62.5	8	100	0	0	0	0
Norway	275	100	47	17.1	30	10.9	1	0.4	78	28.4	197	71.6	0	0
Romania	128	100	41	32.0	18	14.1	1	0.8	60	46.9	66	51.6	2	1.6
Serbia □	75	100	16	21.3	1	1.3	5	6.7	22	29.3	52	69.3	1	1.3
Spain, Andalusia	604	100	25	4.1	22	3.6	0	0	47	7.8	557	92.2	0	0
Spain, Aragon	88	100	10	11.4	1	1.1	0	0	11	12.5	77	87.5	0	0
Spain, Asturias	77	100	7	9.1	2	2.6	0	0	9	11.7	68	88.3	0	0
Spain, Basque country	181	100	0	0	0	0	19	10.5	19	10.5	162	89.5	0	0
Spain, Canary Islands	128	100	0	0	0	0	7	5.5	7	5.5	0	0	121	94.5
Spain, Cantabria *	46	100	1	2.2	1	2.2	0	0	2	4.3	44	95.7	0	0
Spain, Castile and León *	107	100	0	0	0	0	6	5.6	6	5.6	8	7.5	93	86.9
Spain, Castile-La Mancha *	119	100	0	0	0	0	4	3.4	4	3.4	111	93.3	4	3.4
Spain, Catalonia	780	100	62	7.9	71	9.1	0	0	133	17.1	647	82.9	0	0
Spain, Community of Madrid	373	100	19	5.1	5	1.3	0	0	24	6.4	349	93.6	0	0
Spain, Extremadura	59	100	1	1.7	0	0	0	0	1	1.7	48	81.4	10	16.9
Spain, Galicia	160	100	11	6.9	19	11.9	0	0	30	18.8	130	81.3	0	0
Spain, Murcia	99	100	5	5.1	5	5.1	0	0	10	10.1	89	89.9	0	0
Spain, Navarre *	47	100	0	0	0	0	1	2.1	1	2.1	46	97.9	0	0
Sweden	464	100	78	16.8	47	10.1	0	0	125	26.9	339	73.1	0	0
Switzerland †	355	100	55	15.5	73	20.6	0	0	128	36.1	227	63.9	0	0
the Netherlands	916	100					513	56.0	513	56.0	403	44.0	0	0
United Kingdom, All countries * ¶	3121	100	401	12.8	236	7.6	220	7.0	857	27.5	2222	71.2	42	1.3
United Kingdom, England * ¶	2615	100	338	12.9	202	7.7	138	5.3	678	25.9	1898	72.6	39	1.5
United Kingdom, Northern Ireland *	125	100	46	36.8	23	18.4	0	0	69	55.2	56	44.8	0	0
United Kingdom, Scotland	318	100	3	0.9	0	0	91	28.6	94	29.6	221	69.5	3	0.9
United Kingdom, Wales *	78	100	15	19.2	11	14.1	0	0	26	33.3	52	66.7	0	0

Categories may not add up because of rounding off; When cells are left empty, (complete) data are unavailable

§ Data based on residents and non-residents

* Patients younger than 20 years of age are not reported

|| The transplantation activity is underestimated by approximately 30%

□ The transplant activity is underestimated by approximately 16% for deceased donor transplants and by approximately 12% for living donor transplants due to centers not submitting complete data for 2017

† The transplant activity reflects 94% of the total transplant activity in the country

¶ The transplant activity is underestimated by approximately 7% due to one centre not submitting data since 2014

Table B.5.2
Kidney transplants per million population by donor type, unadjusted

	All	Living donor			Deceased donor	Donor type Unkn	
	Pmp	Related	Unrelated	Type Unkn	All	Pmp	
		Pmp	Pmp	Pmp	Pmp		
Austria §	45.4	3.6	3.3	0	7.0	38.4	0
Belgium, Dutch-speaking *	40.7	2.4	2.0	0	4.4	36.2	0
Belgium, French-speaking *	39.7	2.3	2.1	0	4.3	34.8	0.6
Bosnia and Herzegovina	6.8	4.0	1.1	0.6	5.7	1.1	0
Denmark	43.8	8.9	6.5	0	15.5	28.3	0
Estonia	29.6	3.8	5.3	0	9.1	20.5	0
Finland	43.2	3.8	1.3	0	5.1	37.4	0.7
France	56.6	5.4	3.7	0	9.1	47.4	0
Greece	16.9	4.9	1.3	0	6.2	10.7	0
Iceland	23.3	0	8.7	14.6	23.3	0	0
Norway	52.1	8.9	5.7	0.2	14.8	37.3	0
Romania	6.7	2.2	0.9	0.1	3.2	3.5	0.1
Serbia □	11.0	2.3	0.1	0.7	3.2	7.6	0.1
Spain, Andalusia	71.8	3.0	2.6	0	5.6	66.2	0
Spain, Aragon	66.9	7.6	0.8	0	8.4	58.6	0
Spain, Asturias	74.4	6.8	1.9	0	8.7	65.7	0
Spain, Basque country	83.4	0	0	8.8	8.8	74.7	0
Spain, Canary Islands	59.1	0	0	3.2	3.2	0	55.9
Spain, Cantabria *	79.1	1.7	1.7	0	3.4	75.7	0
Spain, Castile and León *	44.1	0	0	2.5	2.5	3.3	38.3
Spain, Castile-La Mancha *	58.4	0	0	2.0	2.0	54.5	2.0
Spain, Catalonia	103.2	8.2	9.4	0	17.6	85.6	0
Spain, Community of Madrid	57.3	2.9	0.8	0	3.7	53.6	0
Spain, Extremadura	54.6	0.9	0	0	0.9	44.4	9.3
Spain, Galicia	59.1	4.1	7.0	0	11.1	48.0	0
Spain, Murcia	67.3	3.4	3.4	0	6.8	60.5	0
Spain, Navarre *	73.2	0	0	1.6	1.6	71.6	0
Sweden	46.1	7.8	4.7	0	12.4	33.7	0
Switzerland †	42.0	6.5	8.6	0	15.1	26.9	0
the Netherlands	54.6			30.6	30.6	24.0	0
United Kingdom, All countries * ¶	47.3	6.1	3.6	3.3	13.0	33.6	0.6
United Kingdom, England * ¶	47.0	6.1	3.6	2.5	12.2	34.1	0.7
United Kingdom, Northern Ireland *	66.8	24.6	12.3	0	36.9	29.9	0
United Kingdom, Scotland	58.6	0.6	0	16.8	17.3	40.7	0.6
United Kingdom, Wales *	25.0	4.8	3.5	0	8.3	16.6	0

Categories may not add up because of rounding off. When cells are left empty, (complete) data are unavailable

§ The number of transplants differs from table B.5.1 as non-residents are excluded for this analysis

* Patients younger than 20 years of age are not reported

|| The transplantation activity is underestimated by approximately 30%

□ The transplant activity is underestimated by approximately 16% for deceased donor transplants and by approximately 12% for living donor transplants due to centers not submitting complete data for 2017

† The transplant activity reflects 94% of the total transplant activity in the country

¶ The transplant activity is underestimated by approximately 7% due to one centre not submitting data since 2014

Table B.5.3
Sex, mean age, and median age of kidney transplant recipients
at time of transplantation

	All						Men						Women					
	%	Mean (years)	SD	Median (years)	P25	P75	%	Mean (years)	SD	Median (years)	P25	P75	%	Mean (years)	SD	Median (years)	P25	P75
Austria	100	51.7	15.1	53.5	44.0	63.2	63.8	51.8	15.2	53.4	44.3	63.2	36.2	51.6	15.1	53.5	44.0	63.2
Belgium, Dutch-speaking *	100	55.1	12.7	57.6	48.0	65.1	64.7	56.0	12.4	58.5	50.1	65.5	35.3	53.5	13.1	55.9	45.6	64.2
Belgium, French-speaking *	100	54.5	11.5	55.9	46.9	63.5	64.6	55.8	10.8	57.0	47.8	64.3	35.4	52.2	12.4	54.1	44.8	62.2
Bosnia and Herzegovina	100	40.9	10.3	41.7	31.1	48.8	70.8	40.5	11.0	41.5	29.5	47.2	29.2	42.1	9.0	45.2	31.8	50.1
Denmark	100	48.5	15.9	51.1	37.0	61.2	67.8	48.6	15.5	51.5	37.0	61.0	32.2	48.4	16.7	49.9	39.0	62.1
Estonia	100	45.6	15.1	46.3	34.7	56.4	61.5	48.2	15.1	48.4	39.3	57.0	38.5	41.3	14.5	38.8	34.3	56.3
Finland	100	50.6	16.9	54.2	40.5	62.8	67.6	51.3	18.2	56.1	41.3	65.0	32.4	49.1	13.8	52.2	38.5	60.4
France	100	52.7	15.8	54.6	42.4	64.8	63.9	53.2	15.8	54.8	43.1	65.4	36.1	51.9	15.8	53.9	41.2	63.4
Greece	100	45.1	13.5	45.9	35.8	55.7	67.0	45.7	12.5	45.9	36.9	55.3	33.0	43.8	15.5	46.0	31.0	56.1
Iceland	100	41.6	15.8	43.5	30.7	50.2	75.0	47.1	13.2	47.5	41.1	51.3	25.0	25.2	12.5	25.2	16.4	34.1
Norway	100	53.1	16.6	55.1	43.3	66.7	62.5	53.8	16.4	55.7	44.0	66.5	37.5	52.0	17.0	52.1	43.3	66.9
Romania	100	40.4	12.7	41.5	30.7	49.3	64.8	40.6	12.7	41.6	30.7	49.3	35.2	39.9	12.9	40.8	30.7	49.4
Serbia	100	47.1	12.5	44.6	40.2	57.7	80.0	46.2	12.6	44.6	40.0	57.7	20.0	51.1	11.6	54.5	43.5	61.6
Spain, Andalusia	100	54.1	14.3	56.2	46.7	65.0	65.2	54.1	14.4	56.2	46.4	65.2	34.8	54.2	14.1	56.3	47.4	65.0
Spain, Aragon	100	59.3	13.9	61.9	51.7	67.6	64.8	61.4	14.3	64.1	54.8	69.7	35.2	55.7	12.7	56.2	45.5	63.0
Spain, Asturias	100	53.1	16.7	58.2	42.7	64.6	68.8	51.4	18.5	57.2	41.2	63.6	31.2	56.9	11.2	62.5	50.1	65.0
Spain, Basque country	100	55.1	15.6	57.4	45.8	67.7	66.3	55.2	15.2	56.7	45.9	67.6	33.7	54.9	16.6	58.9	44.7	67.8
Spain, Canary Islands	100	53.8	14.1	55.5	46.0	64.9	70.3	54.7	13.4	56.9	47.7	64.3	29.7	51.6	15.6	52.9	40.3	65.1
Spain, Cantabria *	100	51.4	12.9	51.9	40.9	61.6	60.9	51.9	14.2	52.6	40.2	64.6	39.1	50.5	11.0	50.4	41.4	60.3
Spain, Castile and León *	100	57.8	12.6	59.9	49.8	68.0	60.7	57.9	12.9	60.3	49.4	66.8	39.3	57.7	12.2	56.1	50.5	68.0
Spain, Castile-La Mancha *	100	57.0	13.7	59.2	49.1	66.9	61.3	57.9	13.2	60.0	51.9	66.9	38.7	55.5	14.5	55.6	46.2	66.5
Spain, Catalonia	100	56.4	15.0	58.7	47.9	67.9	63.5	56.6	15.0	58.9	48.4	68.1	36.5	55.9	15.0	58.5	47.6	66.6
Spain, Community of Madrid	100	55.2	15.5	57.9	46.2	67.8	63.5	56.0	15.4	59.2	47.1	67.5	36.5	53.9	15.7	56.2	43.3	67.9
Spain, Extremadura	100	55.9	12.2	59.1	46.8	65.7	59.3	57.5	11.7	59.7	47.4	66.4	40.7	53.5	12.7	53.9	46.6	64.6
Spain, Galicia	100	54.9	13.1	57.1	46.4	64.3	72.5	55.5	12.2	57.6	46.9	63.7	27.5	53.4	15.2	56.3	44.3	65.1
Spain, Murcia	100	55.0	13.3	56.8	47.4	64.1	67.7	54.2	14.9	56.2	46.6	64.7	32.3	56.7	9.2	56.9	48.3	63.1
Spain, Navarre *	100	56.5	11.7	57.3	47.7	64.2	74.5	58.0	11.0	58.8	47.7	67.2	25.5	52.3	13.1	52.0	45.4	58.7
Sweden	100	49.9	17.3	52.5	39.3	62.7	65.7	50.3	17.6	52.2	39.5	63.8	34.3	49.1	16.6	52.8	39.0	61.7
Switzerland	100	52.5	14.9	55.2	44.5	63.8	62.8	52.9	14.4	55.3	45.3	64.4	37.2	51.8	15.8	55.0	43.3	63.3
the Netherlands	100	54.2	15.3	56.4	45.3	65.7	60.5	54.8	15.4	57.2	45.7	66.6	39.5	53.3	15.1	55.5	44.3	64.8
United Kingdom, All countries *	100	50.9	13.8	51.9	40.7	61.9	62.0	51.2	13.8	52.4	41.2	62.1	38.0	50.5	13.7	51.3	40.1	61.2
United Kingdom, England *	100	51.0	13.9	52.0	40.6	62.0	62.3	51.2	13.9	52.4	41.1	62.2	37.7	50.6	13.8	51.4	40.1	61.6
United Kingdom, Northern Ireland *	100	50.2	14.9	50.5	38.3	61.4	60.8	51.2	15.3	54.2	38.0	63.5	39.2	48.6	14.3	46.8	39.5	60.7
United Kingdom, Scotland	100	48.7	15.0	50.7	40.2	59.6	61.0	48.6	15.6	51.2	40.3	59.8	39.0	48.9	13.9	50.6	39.8	59.3
United Kingdom, Wales *	100	51.8	14.1	53.1	42.5	63.3	59.0	51.2	14.6	53.0	40.6	63.3	41.0	52.7	13.7	53.7	44.5	61.7

Categories may not add up because of missing values or rounding off

* Patients younger than 20 years of age are not reported

|| The transplantation activity is underestimated by approximately 30%

Table B.6.1
Incident RRT patients, from day 1, unadjusted
by age, sex, and primary renal disease

	Survival probabilities as % (95% CI)						
	cohort 2008 - 2012				cohort 2011 - 2015		
	90 day	1 year	2 year	5 year	90 day	1 year	2 year
0-19	99.0 (98.4-99.4)	97.1 (96.2-97.8)	95.9 (94.9-96.8)	94.3 (93.1-95.3)	99.4 (98.9-99.7)	98.5 (97.8-99.0)	97.5 (96.6-98.2)
20-44	99.2 (99.0-99.3)	97.1 (96.9-97.3)	94.7 (94.4-95.0)	89.3 (88.9-89.7)	99.2 (99.0-99.3)	97.2 (97.0-97.5)	95.1 (94.8-95.4)
45-64	97.2 (97.0-97.3)	90.9 (90.7-91.2)	84.5 (84.2-84.7)	68.0 (67.7-68.3)	97.4 (97.3-97.5)	91.5 (91.2-91.7)	85.5 (85.2-85.7)
65-74	94.1 (93.9-94.3)	82.6 (82.3-82.9)	71.1 (70.7-71.4)	44.2 (44.0-44.4)	94.7 (94.5-94.9)	84.0 (83.7-84.3)	73.2 (72.8-73.5)
75+	90.1 (89.8-90.3)	72.9 (72.6-73.2)	57.2 (56.9-57.5)	24.2 (24.1-24.3)	90.7 (90.5-91.0)	74.5 (74.2-74.8)	58.6 (58.3-58.8)
Men	94.4 (94.3-94.6)	83.9 (83.7-84.0)	73.5 (73.3-73.7)	50.1 (49.9-50.2)	94.8 (94.6-94.9)	84.7 (84.5-84.9)	74.4 (74.2-74.6)
Women	94.3 (94.1-94.5)	83.9 (83.6-84.1)	74.1 (73.9-74.4)	52.1 (51.9-52.4)	94.8 (94.6-94.9)	84.9 (84.6-85.1)	75.4 (75.1-75.7)
Diabetes	95.2 (95.0-95.4)	84.5 (84.2-84.8)	72.5 (72.2-72.9)	43.9 (43.7-44.2)	95.6 (95.4-95.8)	85.9 (85.6-86.2)	74.3 (74.0-74.6)
Hypertension / renal vascular disease	94.1 (93.9-94.4)	82.2 (81.8-82.6)	69.5 (69.1-69.8)	41.4 (41.2-41.6)	94.4 (94.1-94.6)	83.1 (82.8-83.5)	70.9 (70.6-71.3)
Glomerulonephritis	97.4 (97.1-97.6)	92.2 (91.8-92.6)	86.8 (86.3-87.2)	72.9 (72.4-73.4)	97.5 (97.2-97.7)	92.3 (92.0-92.7)	87.1 (86.7-87.6)
Other causes	93.6 (93.5-93.8)	82.6 (82.4-82.9)	73.3 (73.1-73.6)	53.1 (52.9-53.3)	94.0 (93.8-94.1)	83.2 (83.0-83.4)	73.7 (73.5-74.0)
All	94.4 (94.3-94.5)	83.9 (83.7-84.0)	73.7 (73.6-73.9)	50.8 (50.7-51.0)	94.8 (94.7-94.9)	84.8 (84.6-84.9)	74.8 (74.6-74.9)

* Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)

Table B.6.2
Incident RRT patients, from day 1, adjusted
adjusted for age, sex, and primary renal disease

	Survival probabilities as % (95% CI)						
	cohort 2008 - 2012				cohort 2011 - 2015		
	90 day	1 year	2 year	5 year	90 day	1 year	2 year
0-19	98.8 (98.3-99.4)	96.9 (96.0-97.8)	95.7 (94.6-96.7)	93.9 (92.6-95.1)	99.3 (98.9-99.7)	98.5 (97.8-99.1)	97.4 (96.6-98.2)
20-44	99.1 (99.0-99.3)	97.0 (96.8-97.3)	94.5 (94.2-94.9)	88.8 (88.3-89.3)	99.2 (99.1-99.3)	97.2 (96.9-97.5)	94.9 (94.6-95.3)
45-64	97.3 (97.1-97.4)	91.2 (91.0-91.5)	84.8 (84.5-85.2)	68.3 (67.8-68.7)	97.4 (97.3-97.6)	91.6 (91.4-91.8)	85.6 (85.3-85.9)
65-74	94.5 (94.2-94.7)	83.4 (83.0-83.8)	72.2 (71.7-72.6)	45.3 (44.8-45.8)	94.9 (94.7-95.1)	84.5 (84.2-84.9)	73.9 (73.4-74.3)
75+	90.3 (90.1-90.6)	73.5 (73.2-73.9)	58.0 (57.6-58.5)	24.8 (24.4-25.2)	90.9 (90.7-91.2)	75.0 (74.6-75.3)	59.2 (58.8-59.6)
Men	95.5 (95.4-95.6)	86.4 (86.2-86.6)	76.7 (76.5-77.0)	51.2 (50.8-51.5)	95.7 (95.6-95.8)	87.0 (86.9-87.3)	77.5 (77.3-77.8)
Women	95.5 (95.4-95.7)	86.8 (86.6-87.1)	78.0 (77.6-78.3)	54.4 (53.9-54.8)	95.8 (95.6-95.9)	87.5 (87.2-87.7)	78.8 (78.5-79.1)
Diabetes	95.8 (95.6-96.0)	86.0 (85.6-86.3)	74.5 (74.1-74.9)	44.2 (43.7-44.7)	96.1 (95.9-96.3)	87.4 (87.0-87.7)	76.4 (76.0-76.8)
Hypertension / renal vascular disease	96.3 (96.1-96.5)	88.5 (88.2-88.8)	79.2 (78.8-79.6)	53.8 (53.2-54.4)	96.4 (96.3-96.6)	88.9 (88.6-89.2)	80.1 (79.7-80.5)
Glomerulonephritis	96.8 (96.6-97.1)	90.6 (90.1-91.0)	83.6 (83.0-84.3)	64.8 (63.9-65.6)	97.0 (96.8-97.3)	90.8 (90.4-91.3)	84.4 (83.8-85.0)
Other causes	94.5 (94.3-94.7)	84.5 (84.3-84.8)	75.5 (75.1-75.8)	52.6 (52.2-53.0)	94.8 (94.6-95.0)	85.1 (84.9-85.4)	75.9 (75.6-76.3)
All	95.5 (95.4-95.6)	86.6 (86.4-86.7)	77.2 (77.0-77.4)	52.4 (52.1-52.7)	95.7 (95.7-95.8)	87.2 (87.1-87.4)	78.0 (77.8-78.2)

* Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)

Table B.6.3
Incident RRT patients, from day 91, unadjusted
by age, sex, and primary renal disease

	Survival probabilities as % (95% CI)				
	cohort 2008 - 2012			cohort 2011 - 2015	
	1 year	2 year	5 year	1 year	2 year
0-19	97.7 (96.8-98.3)	96.8 (95.9-97.6)	95.2 (94.0-96.1)	98.8 (98.1-99.3)	98.1 (97.2-98.6)
20-44	97.3 (97.1-97.6)	95.1 (94.8-95.4)	89.6 (89.2-90.0)	97.5 (97.2-97.7)	95.3 (95.0-95.6)
45-64	91.9 (91.7-92.1)	85.5 (85.2-85.8)	68.5 (68.2-68.8)	92.5 (92.3-92.7)	86.2 (86.0-86.5)
65-74	84.7 (84.4-85.0)	72.8 (72.4-73.1)	44.7 (44.5-45.0)	85.9 (85.6-86.2)	74.5 (74.2-74.9)
75+	76.6 (76.3-76.9)	59.7 (59.4-59.9)	24.7 (24.6-24.8)	77.8 (77.5-78.1)	60.7 (60.4-61.0)
Men	86.0 (85.8-86.2)	75.4 (75.2-75.6)	51.2 (51.0-51.4)	86.7 (86.5-86.9)	76.0 (75.8-76.2)
Women	86.4 (86.2-86.7)	76.3 (76.1-76.6)	53.6 (53.4-53.8)	87.2 (87.0-87.4)	77.3 (77.1-77.6)
Diabetes	85.5 (85.2-85.9)	73.3 (73.0-73.7)	43.9 (43.6-44.1)	86.8 (86.5-87.1)	74.8 (74.4-75.1)
Hypertension / renal vascular disease	83.9 (83.6-84.3)	70.9 (70.5-71.2)	42.0 (41.7-42.2)	84.9 (84.6-85.3)	72.4 (72.0-72.8)
Glomerulonephritis	93.4 (93.0-93.7)	87.7 (87.2-88.1)	73.7 (73.2-74.2)	93.5 (93.1-93.8)	87.8 (87.4-88.2)
Other causes	85.8 (85.6-86.0)	76.3 (76.0-76.5)	55.1 (54.9-55.4)	86.1 (85.9-86.4)	76.2 (76.0-76.5)
All	86.2 (86.0-86.3)	75.8 (75.6-75.9)	52.1 (51.9-52.2)	86.9 (86.7-87.0)	76.5 (76.3-76.7)

** Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)*

Table B.6.4
Incident RRT patients, from day 91, adjusted
adjusted for age, sex, and primary renal disease

	Survival probabilities as % (95% CI)				
	cohort 2008 - 2012			cohort 2011 - 2015	
	1 year	2 year	5 year	1 year	2 year
0-19	97.5 (96.7-98.4)	96.6 (95.6-97.5)	94.8 (93.6-96.0)	98.8 (98.2-99.3)	97.9 (97.2-98.7)
20-44	97.2 (97.0-97.5)	94.9 (94.5-95.2)	89.1 (88.6-89.6)	97.4 (97.1-97.6)	95.2 (94.8-95.5)
45-64	92.1 (91.9-92.4)	85.8 (85.5-86.1)	69.0 (68.6-69.5)	92.6 (92.4-92.8)	86.4 (86.1-86.8)
65-74	85.3 (85.0-85.7)	73.8 (73.3-74.2)	46.3 (45.8-46.8)	86.3 (85.9-86.6)	75.4 (74.9-75.8)
75+	77.1 (76.7-77.5)	60.4 (59.9-60.9)	25.7 (25.3-26.1)	78.2 (77.8-78.5)	61.5 (61.1-62.0)
Men	88.0 (87.8-88.2)	78.1 (77.8-78.3)	51.9 (51.6-52.3)	88.5 (88.3-88.7)	78.7 (78.5-79.0)
Women	88.7 (88.4-88.9)	79.4 (79.1-79.8)	55.4 (54.9-55.8)	89.2 (88.9-89.4)	80.3 (79.9-80.6)
Diabetes	86.7 (86.4-87.1)	75.0 (74.5-75.4)	44.1 (43.5-44.6)	88.0 (87.7-88.3)	76.7 (76.3-77.2)
Hypertension / renal vascular disease	89.5 (89.2-89.8)	80.0 (79.6-80.4)	54.1 (53.6-54.7)	90.0 (89.7-90.3)	81.1 (80.7-81.5)
Glomerulonephritis	91.8 (91.3-92.2)	84.4 (83.8-85.1)	65.5 (64.7-66.4)	92.1 (91.7-92.5)	85.1 (84.5-85.7)
Other causes	87.1 (86.8-87.4)	77.7 (77.4-78.0)	54.1 (53.6-54.5)	87.5 (87.2-87.7)	77.9 (77.6-78.3)
All	88.3 (88.1-88.4)	78.6 (78.4-78.8)	53.2 (52.9-53.5)	88.8 (88.6-88.9)	79.3 (79.1-79.5)

** Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)*

Table B.6.5
Incident dialysis patients, from day 1, unadjusted
by age, sex, and primary renal disease

	Survival probabilities as % (95% CI)						
	cohort 2008 - 2012				cohort 2011 - 2015		
	90 day	1 year	2 year	5 year	90 day	1 year	2 year
0-19	98.8 (98.0-99.3)	96.0 (94.6-97.1)	93.4 (91.5-94.9)	88.9 (85.9-91.3)	99.3 (98.6-99.7)	98.1 (97.0-98.8)	95.5 (93.6-96.8)
20-44	99.1 (98.9-99.2)	96.5 (96.2-96.8)	93.0 (92.6-93.5)	82.3 (81.6-83.0)	99.1 (98.9-99.2)	96.7 (96.4-97.0)	93.4 (92.9-93.8)
45-64	97.0 (96.8-97.1)	90.1 (89.8-90.3)	82.3 (82.0-82.6)	59.4 (59.0-59.7)	97.2 (97.1-97.4)	90.6 (90.3-90.8)	83.2 (82.9-83.5)
65-74	94.0 (93.8-94.2)	82.1 (81.8-82.4)	70.0 (69.7-70.4)	40.7 (40.5-41.0)	94.5 (94.3-94.7)	83.4 (83.1-83.7)	71.8 (71.5-72.2)
75+	90.0 (89.8-90.3)	72.8 (72.5-73.1)	57.0 (56.8-57.3)	23.9 (23.8-24.0)	90.7 (90.5-90.9)	74.4 (74.1-74.6)	58.4 (58.1-58.6)
Men	94.2 (94.0-94.3)	82.8 (82.6-83.0)	71.0 (70.8-71.2)	41.4 (41.2-41.5)	94.5 (94.4-94.6)	83.6 (83.4-83.8)	71.8 (71.6-72.0)
Women	94.0 (93.8-94.2)	82.7 (82.4-83.0)	71.6 (71.3-71.8)	43.7 (43.5-43.9)	94.4 (94.3-94.6)	83.7 (83.4-83.9)	72.7 (72.4-73.0)
Diabetes	95.1 (94.9-95.3)	84.0 (83.7-84.3)	71.2 (70.9-71.6)	38.7 (38.5-39.0)	95.5 (95.3-95.7)	85.5 (85.1-85.8)	73.0 (72.6-73.3)
Hypertension / renal vascular disease	94.0 (93.7-94.3)	81.7 (81.3-82.1)	68.2 (67.9-68.6)	36.7 (36.4-36.9)	94.3 (94.0-94.5)	82.6 (82.3-83.0)	69.6 (69.3-70.0)
Glomerulonephritis	97.1 (96.9-97.4)	91.2 (90.8-91.6)	84.1 (83.6-84.6)	62.1 (61.5-62.6)	97.2 (97.0-97.5)	91.3 (90.8-91.6)	84.5 (84.0-85.0)
Other causes	93.2 (93.1-93.4)	81.1 (80.9-81.4)	70.3 (70.0-70.5)	43.4 (43.2-43.6)	93.5 (93.4-93.7)	81.6 (81.4-81.8)	70.4 (70.1-70.6)
All	94.1 (94.0-94.2)	82.8 (82.6-82.9)	71.2 (71.0-71.4)	42.2 (42.1-42.4)	94.5 (94.4-94.6)	83.6 (83.5-83.8)	72.1 (72.0-72.3)

* Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)

Table B.6.6
Incident dialysis patients, from day 1, adjusted
adjusted for age, sex, and primary renal disease

	Survival probabilities as % (95% CI)						
	cohort 2008 - 2012				cohort 2011 - 2015		
	90 day	1 year	2 year	5 year	90 day	1 year	2 year
0-19	98.5 (97.8-99.3)	95.8 (94.5-97.2)	93.1 (91.2-95.1)	86.8 (82.9-91.0)	99.2 (98.7-99.8)	98.2 (97.3-99.0)	95.4 (93.6-97.1)
20-44	99.1 (98.9-99.3)	96.5 (96.2-96.9)	92.9 (92.4-93.4)	80.8 (79.8-81.7)	99.1 (99.0-99.3)	96.7 (96.4-97.0)	93.3 (92.8-93.8)
45-64	97.1 (96.9-97.3)	90.4 (90.1-90.7)	82.8 (82.4-83.1)	58.8 (58.3-59.4)	97.3 (97.1-97.4)	90.8 (90.5-91.0)	83.5 (83.1-83.8)
65-74	94.3 (94.1-94.5)	82.8 (82.4-83.2)	70.9 (70.5-71.4)	41.2 (40.6-41.7)	94.7 (94.5-94.9)	83.9 (83.5-84.3)	72.5 (72.0-72.9)
75+	90.2 (90.0-90.5)	73.3 (72.9-73.7)	57.6 (57.2-58.1)	24.2 (23.8-24.6)	90.8 (90.6-91.1)	74.8 (74.4-75.1)	58.8 (58.4-59.3)
Men	95.0 (94.8-95.1)	84.8 (84.6-85.0)	74.0 (73.7-74.3)	44.4 (44.1-44.8)	95.3 (95.2-95.4)	85.8 (85.6-86.0)	75.1 (74.9-75.4)
Women	95.0 (94.8-95.1)	85.1 (84.8-85.4)	75.1 (74.7-75.5)	47.9 (47.4-48.4)	95.3 (95.2-95.5)	86.2 (85.9-86.4)	76.4 (76.1-76.8)
Diabetes	95.4 (95.2-95.6)	84.9 (84.6-85.3)	72.7 (72.2-73.1)	39.8 (39.2-40.3)	95.9 (95.7-96.1)	86.6 (86.3-86.9)	74.8 (74.4-75.3)
Hypertension / renal vascular disease	95.7 (95.5-95.9)	86.7 (86.3-87.0)	76.1 (75.7-76.6)	47.3 (46.7-48.0)	96.0 (95.8-96.2)	87.6 (87.3-87.9)	77.7 (77.2-78.1)
Glomerulonephritis	96.6 (96.3-96.9)	89.8 (89.3-90.3)	81.8 (81.1-82.5)	57.1 (56.1-58.1)	96.8 (96.5-97.1)	90.1 (89.6-90.6)	82.6 (82.0-83.3)
Other causes	93.9 (93.7-94.0)	82.7 (82.4-83.0)	72.5 (72.1-72.8)	45.5 (45.1-46.0)	94.3 (94.1-94.4)	83.6 (83.3-83.9)	73.2 (72.9-73.6)
All	95.0 (94.9-95.1)	84.9 (84.8-85.1)	74.4 (74.2-74.6)	45.7 (45.4-46.1)	95.3 (95.2-95.4)	85.9 (85.8-86.1)	75.6 (75.4-75.9)

* Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)

Table B.6.7
Incident dialysis patients, from day 91, unadjusted
by age, sex, and primary renal disease

	Survival probabilities as % (95% CI)				
	cohort 2008 - 2012			cohort 2011 - 2015	
	1 year	2 year	5 year	1 year	2 year
0-19	96.5 (95.0-97.5)	94.3 (92.2-95.8)	89.6 (86.3-92.1)	98.2 (96.9-98.9)	95.9 (93.9-97.3)
20-44	96.6 (96.3-96.9)	93.2 (92.7-93.6)	81.8 (81.1-82.5)	96.7 (96.4-97.0)	93.3 (92.9-93.7)
45-64	90.9 (90.6-91.2)	83.0 (82.7-83.3)	58.9 (58.6-59.3)	91.5 (91.2-91.7)	83.6 (83.3-84.0)
65-74	84.2 (83.9-84.5)	71.6 (71.2-71.9)	40.9 (40.6-41.1)	85.2 (84.9-85.5)	73.0 (72.7-73.3)
75+	76.5 (76.2-76.8)	59.5 (59.2-59.7)	24.3 (24.2-24.4)	77.7 (77.4-78.0)	60.5 (60.2-60.7)
Men	84.8 (84.6-85.0)	72.5 (72.3-72.8)	41.5 (41.3-41.6)	85.5 (85.3-85.7)	73.0 (72.8-73.2)
Women	85.2 (84.9-85.4)	73.4 (73.1-73.7)	44.2 (44.0-44.4)	85.9 (85.6-86.1)	74.3 (74.0-74.5)
Diabetes	85.0 (84.6-85.3)	71.7 (71.4-72.1)	38.1 (37.8-38.3)	86.2 (85.9-86.5)	73.2 (72.8-73.5)
Hypertension / renal vascular disease	83.4 (83.0-83.7)	69.4 (69.0-69.8)	36.7 (36.4-36.9)	84.3 (83.9-84.7)	70.8 (70.5-71.2)
Glomerulonephritis	92.2 (91.8-92.6)	84.6 (84.0-85.1)	61.8 (61.2-62.4)	92.3 (91.9-92.7)	84.7 (84.1-85.2)
Other causes	84.2 (84.0-84.5)	72.7 (72.5-73.0)	44.3 (44.1-44.5)	84.4 (84.2-84.7)	72.4 (72.1-72.7)
All	84.9 (84.8-85.1)	72.8 (72.7-73.0)	42.5 (42.4-42.6)	85.6 (85.5-85.8)	73.4 (73.3-73.6)

* Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)

Table B.6.8
Incident dialysis patients, from day 91, adjusted
adjusted for age, sex, and primary renal disease

	Survival probabilities as % (95% CI)				
	cohort 2008 - 2012			cohort 2011 - 2015	
	1 year	2 year	5 year	1 year	2 year
0-19	96.3 (94.9-97.7)	93.8 (91.8-95.9)	87.0 (82.7-91.6)	98.0 (97.0-99.1)	95.7 (93.9-97.5)
20-44	96.6 (96.2-96.9)	93.0 (92.5-93.4)	80.2 (79.2-81.2)	96.7 (96.3-97.0)	93.2 (92.7-93.7)
45-64	91.2 (90.9-91.5)	83.4 (83.0-83.8)	58.7 (58.1-59.3)	91.7 (91.4-91.9)	84.0 (83.6-84.4)
65-74	84.7 (84.3-85.1)	72.4 (71.9-72.9)	41.7 (41.1-42.2)	85.6 (85.2-85.9)	73.8 (73.3-74.3)
75+	76.8 (76.4-77.2)	59.9 (59.5-60.4)	25.0 (24.6-25.4)	77.9 (77.6-78.3)	61.1 (60.6-61.5)
Men	86.4 (86.2-86.6)	75.1 (74.8-75.4)	44.6 (44.2-45.0)	87.2 (87.0-87.4)	76.1 (75.8-76.4)
Women	87.1 (86.8-87.4)	76.4 (76.1-76.8)	48.3 (47.8-48.9)	87.8 (87.6-88.1)	77.7 (77.3-78.1)
Diabetes	85.7 (85.3-86.1)	72.9 (72.5-73.4)	39.2 (38.7-39.8)	87.2 (86.8-87.5)	75.0 (74.5-75.5)
Hypertension / renal vascular disease	87.7 (87.3-88.0)	76.7 (76.2-77.2)	47.1 (46.5-47.8)	88.6 (88.3-89.0)	78.5 (78.0-78.9)
Glomerulonephritis	90.9 (90.4-91.5)	82.3 (81.6-83.0)	57.2 (56.1-58.2)	91.3 (90.8-91.8)	83.0 (82.3-83.7)
Other causes	85.4 (85.1-85.7)	74.6 (74.2-74.9)	46.3 (45.8-46.8)	86.0 (85.7-86.2)	75.0 (74.7-75.4)
All	86.7 (86.5-86.8)	75.6 (75.4-75.9)	46.0 (45.6-46.3)	87.5 (87.3-87.6)	76.7 (76.5-77.0)

* Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)

Table B.6.9
First transplant patients (deceased donor), from day of transplant, unadjusted
by age, sex, and primary renal disease

	Survival probabilities as % (95% CI)				
	cohort 2008 - 2012			cohort 2011 - 2015	
	1 year	2 year	5 year	1 year	2 year
0-19	98.8 (97.7-99.4)	98.2 (97.0-99.0)	97.4 (96.0-98.3)	98.6 (97.4-99.2)	98.0 (96.7-98.8)
20-44	98.6 (98.3-98.8)	97.8 (97.5-98.1)	95.8 (95.4-96.2)	98.8 (98.5-99.0)	98.2 (97.9-98.5)
45-64	96.8 (96.5-97.1)	94.8 (94.5-95.2)	88.4 (87.9-88.8)	96.9 (96.7-97.2)	95.1 (94.8-95.4)
65+	92.0 (91.3-92.6)	88.0 (87.3-88.7)	72.8 (71.9-73.6)	92.6 (92.1-93.1)	88.3 (87.7-88.9)
Men	96.1 (95.8-96.4)	93.8 (93.5-94.1)	86.2 (85.7-86.6)	96.3 (96.0-96.5)	93.9 (93.6-94.2)
Women	96.7 (96.4-97.0)	95.1 (94.7-95.5)	89.2 (88.7-89.7)	96.5 (96.1-96.8)	94.8 (94.4-95.2)
Diabetes	94.6 (94.0-95.2)	91.5 (90.8-92.2)	81.2 (80.3-82.1)	94.6 (94.0-95.1)	91.3 (90.6-91.9)
Hypertension / renal vascular disease	94.4 (93.6-95.1)	91.6 (90.6-92.4)	82.1 (81.0-83.1)	95.1 (94.4-95.7)	92.0 (91.2-92.7)
Glomerulonephritis	97.5 (97.1-97.8)	96.0 (95.5-96.5)	90.7 (90.0-91.3)	97.6 (97.3-98.0)	96.1 (95.7-96.5)
Other causes	96.9 (96.6-97.1)	95.1 (94.8-95.4)	89.1 (88.6-89.5)	96.7 (96.4-97.0)	95.0 (94.7-95.3)
All	96.3 (96.1-96.5)	94.3 (94.0-94.5)	87.3 (87.0-87.6)	96.3 (96.1-96.5)	94.2 (94.0-94.5)

** Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)*

Table B.6.10
First transplant patients (deceased donor), from day of transplant, adjusted
adjusted for age, sex, and primary renal disease

	Survival probabilities as % (95% CI)				
	cohort 2008 - 2012			cohort 2011 - 2015	
	1 year	2 year	5 year	1 year	2 year
0-19	98.6 (97.8-99.5)	98.0 (97.0-99.1)	97.1 (95.8-98.4)	98.5 (97.5-99.4)	97.8 (96.7-99.0)
20-44	98.7 (98.4-98.9)	97.9 (97.6-98.2)	96.0 (95.6-96.5)	98.8 (98.6-99.1)	98.3 (98.0-98.6)
45-64	97.0 (96.7-97.3)	95.1 (94.8-95.4)	88.9 (88.4-89.4)	97.1 (96.9-97.4)	95.4 (95.1-95.7)
65+	92.7 (92.0-93.3)	89.0 (88.2-89.8)	74.6 (73.5-75.7)	93.3 (92.7-93.8)	89.3 (88.7-90.0)
Men	97.8 (97.6-97.9)	96.4 (96.2-96.6)	91.6 (91.2-92.0)	98.0 (97.9-98.2)	96.7 (96.5-96.9)
Women	97.9 (97.7-98.2)	96.9 (96.6-97.2)	92.9 (92.5-93.4)	98.0 (97.8-98.2)	97.0 (96.7-97.3)
Diabetes	96.6 (96.2-97.0)	94.6 (94.1-95.1)	87.4 (86.6-88.3)	96.9 (96.6-97.3)	95.0 (94.5-95.4)
Hypertension / renal vascular disease	97.3 (96.9-97.7)	95.9 (95.4-96.4)	90.9 (90.1-91.7)	97.8 (97.5-98.1)	96.4 (96.0-96.8)
Glomerulonephritis	98.3 (98.1-98.6)	97.3 (97.0-97.7)	93.5 (93.0-94.1)	98.5 (98.3-98.7)	97.5 (97.2-97.8)
Other causes	97.9 (97.7-98.1)	96.7 (96.5-97.0)	92.5 (92.1-92.9)	98.0 (97.8-98.2)	96.9 (96.7-97.2)
All	97.8 (97.7-98.0)	96.6 (96.4-96.8)	92.1 (91.8-92.4)	98.0 (97.9-98.1)	96.8 (96.7-97.0)

** Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)*

Table B.6.11
First transplant patients (living donor), from day of transplant, unadjusted
by age, sex, and primary renal disease

	Survival probabilities as % (95% CI)				
	cohort 2008 - 2012			cohort 2011 - 2015	
	1 year	2 year	5 year	1 year	2 year
0-19	99.6 (98.3-99.9)	99.6 (98.3-99.9)	98.9 (97.5-99.5)	99.6 (98.4-99.9)	99.6 (98.4-99.9)
20-44	99.6 (99.3-99.7)	99.2 (98.9-99.5)	97.6 (97.1-98.0)	99.7 (99.5-99.8)	99.4 (99.1-99.6)
45-64	98.5 (98.1-98.8)	97.5 (97.0-97.9)	92.9 (92.2-93.6)	98.9 (98.6-99.2)	97.8 (97.4-98.2)
65+	96.5 (95.1-97.4)	93.1 (91.4-94.5)	80.1 (77.9-82.0)	96.7 (95.6-97.5)	93.8 (92.5-94.9)
Men	98.8 (98.4-99.0)	97.9 (97.6-98.2)	93.8 (93.2-94.3)	98.9 (98.6-99.1)	98.0 (97.7-98.3)
Women	98.9 (98.5-99.2)	97.9 (97.4-98.3)	94.1 (93.4-94.8)	99.1 (98.8-99.4)	98.2 (97.7-98.5)
Diabetes	96.8 (95.4-97.8)	95.2 (93.6-96.4)	84.5 (82.2-86.5)	97.4 (96.2-98.3)	95.6 (94.2-96.7)
Hypertension / renal vascular disease	97.5 (96.2-98.4)	95.9 (94.3-97.0)	89.4 (87.4-91.2)	98.5 (97.5-99.1)	96.5 (95.2-97.4)
Glomerulonephritis	99.4 (99.0-99.6)	98.8 (98.3-99.2)	96.5 (95.7-97.1)	99.2 (98.8-99.5)	98.5 (98.0-98.9)
Other causes	99.1 (98.8-99.3)	98.3 (97.9-98.6)	94.9 (94.4-95.5)	99.2 (99.0-99.4)	98.5 (98.1-98.8)
All	98.8 (98.6-99.0)	97.9 (97.6-98.2)	93.9 (93.5-94.4)	99.0 (98.8-99.2)	98.1 (97.8-98.3)

** Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)*

Table B.6.12
First transplant patients (living donor), from day of transplant, adjusted
adjusted for age, sex, and primary renal disease

	Survival probabilities as % (95% CI)				
	cohort 2008 - 2012			cohort 2011 - 2015	
	1 year	2 year	5 year	1 year	2 year
0-19	99.5 (98.8-100)	99.5 (98.8-100)	98.8 (97.7-99.8)	99.5 (98.9-100)	99.5 (98.9-100)
20-44	99.5 (99.3-99.7)	99.2 (98.9-99.5)	97.3 (96.8-97.9)	99.7 (99.5-99.9)	99.4 (99.1-99.6)
45-64	98.6 (98.3-99.0)	97.7 (97.2-98.1)	93.1 (92.4-93.9)	98.9 (98.7-99.2)	97.9 (97.5-98.3)
65+	96.6 (95.4-97.7)	93.6 (92.1-95.2)	81.8 (79.3-84.4)	96.7 (95.8-97.7)	94.1 (92.8-95.4)
Men	99.0 (98.7-99.2)	98.3 (98.0-98.6)	94.8 (94.2-95.4)	99.1 (98.9-99.3)	98.4 (98.1-98.7)
Women	99.0 (98.7-99.3)	98.0 (97.6-98.5)	94.4 (93.6-95.1)	99.2 (99.0-99.5)	98.3 (97.9-98.7)
Diabetes	97.8 (97.0-98.7)	96.7 (95.7-97.8)	88.9 (87.0-90.8)	98.3 (97.7-99.0)	97.2 (96.3-98.0)
Hypertension / renal vascular disease	98.5 (97.9-99.2)	97.5 (96.7-98.4)	93.5 (92.1-94.9)	99.1 (98.6-99.6)	97.9 (97.2-98.6)
Glomerulonephritis	99.3 (99.0-99.7)	98.8 (98.3-99.2)	96.2 (95.4-97.0)	99.2 (98.8-99.5)	98.4 (98.0-98.9)
Other causes	99.1 (98.8-99.3)	98.4 (98.0-98.7)	95.1 (94.5-95.7)	99.3 (99.1-99.5)	98.6 (98.3-98.9)
All	99.0 (98.8-99.2)	98.2 (98.0-98.5)	94.6 (94.2-95.1)	99.2 (99.0-99.3)	98.4 (98.1-98.6)

** Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)*

Table B.6.13
First graft (deceased donor), from day of transplant, unadjusted
by age, sex, and primary renal disease

	Survival probabilities as % (95% CI)				
	cohort 2008 - 2012			cohort 2011 - 2015	
	1 year	2 year	5 year	1 year	2 year
0-19	93.0 (91.0-94.5)	89.8 (87.7-91.6)	84.4 (82.1-86.5)	93.8 (91.9-95.3)	91.2 (89.1-93.0)
20-44	94.4 (93.9-94.9)	92.3 (91.7-92.9)	86.0 (85.3-86.7)	94.6 (94.1-95.0)	92.8 (92.2-93.3)
45-64	91.8 (91.4-92.2)	89.1 (88.6-89.5)	80.2 (79.7-80.7)	92.3 (92.0-92.7)	89.6 (89.2-90.0)
65+	85.7 (84.9-86.4)	81.1 (80.2-81.9)	64.5 (63.7-65.3)	86.2 (85.6-86.8)	81.3 (80.6-82.0)
Men	91.0 (90.6-91.4)	87.9 (87.5-88.3)	77.8 (77.3-78.2)	91.3 (90.9-91.6)	88.0 (87.6-88.3)
Women	91.6 (91.1-92.0)	89.0 (88.4-89.5)	80.0 (79.4-80.6)	91.6 (91.1-92.0)	89.0 (88.5-89.5)
Diabetes	90.2 (89.4-91.0)	86.6 (85.7-87.4)	74.0 (73.1-74.9)	89.9 (89.1-90.5)	86.0 (85.3-86.8)
Hypertension / renal vascular disease	88.4 (87.4-89.3)	84.7 (83.7-85.7)	71.7 (70.6-72.8)	88.8 (87.9-89.6)	84.8 (83.9-85.7)
Glomerulonephritis	91.9 (91.2-92.5)	89.0 (88.3-89.7)	80.4 (79.6-81.2)	92.5 (91.9-93.0)	89.6 (88.9-90.2)
Other causes	91.9 (91.5-92.3)	89.3 (88.9-89.8)	80.9 (80.3-81.4)	92.1 (91.7-92.5)	89.5 (89.1-89.9)
All	91.2 (90.9-91.5)	88.3 (88.0-88.6)	78.6 (78.2-79.0)	91.4 (91.1-91.7)	88.3 (88.0-88.6)

** Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)*

Table B.6.14
First graft (deceased donor), from day of transplant, adjusted
adjusted for age, sex, and primary renal disease

	Survival probabilities as % (95% CI)				
	cohort 2008 - 2012			cohort 2011 - 2015	
	1 year	2 year	5 year	1 year	2 year
0-19	92.4 (90.4-94.4)	89.0 (86.7-91.4)	83.2 (80.4-86.0)	93.3 (91.4-95.2)	90.5 (88.3-92.8)
20-44	94.5 (94.0-95.0)	92.5 (91.9-93.1)	86.3 (85.5-87.1)	94.7 (94.2-95.1)	92.9 (92.3-93.4)
45-64	92.0 (91.5-92.4)	89.3 (88.8-89.8)	80.6 (80.0-81.2)	92.5 (92.1-92.9)	89.9 (89.4-90.3)
65+	86.4 (85.6-87.3)	81.9 (81.0-82.9)	65.9 (64.7-67.1)	86.9 (86.2-87.7)	82.2 (81.4-83.0)
Men	92.6 (92.2-92.9)	89.9 (89.4-90.3)	81.0 (80.4-81.6)	93.2 (92.8-93.5)	90.5 (90.1-90.9)
Women	92.6 (92.1-93.0)	90.2 (89.7-90.8)	82.1 (81.4-82.8)	93.0 (92.6-93.4)	90.8 (90.3-91.3)
Diabetes	91.5 (90.8-92.3)	88.3 (87.4-89.1)	76.8 (75.7-78.0)	91.8 (91.2-92.5)	88.7 (87.9-89.4)
Hypertension / renal vascular disease	91.2 (90.3-92.1)	88.3 (87.3-89.3)	77.7 (76.4-79.0)	92.1 (91.3-92.8)	89.1 (88.3-90.0)
Glomerulonephritis	92.7 (92.1-93.3)	90.0 (89.3-90.8)	82.1 (81.2-83.1)	93.5 (92.9-94.0)	91.0 (90.3-91.6)
Other causes	92.8 (92.4-93.2)	90.5 (90.0-90.9)	82.7 (82.0-83.3)	93.3 (92.9-93.7)	91.1 (90.6-91.5)
All	92.6 (92.3-92.9)	90.0 (89.7-90.4)	81.4 (80.9-81.9)	93.1 (92.9-93.4)	90.6 (90.3-91.0)

** Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)*

Table B.6.15
First graft (living donor), from day of transplant, unadjusted
by age, sex, and primary renal disease

	Survival probabilities as % (95% CI)				
	cohort 2008 - 2012			cohort 2011 - 2015	
	1 year	2 year	5 year	1 year	2 year
0-19	97.2 (95.3-98.4)	96.4 (94.3-97.7)	91.4 (88.7-93.4)	96.8 (95.0-98.0)	95.1 (92.9-96.6)
20-44	97.0 (96.5-97.5)	95.6 (95.0-96.2)	89.6 (88.7-90.4)	97.4 (96.9-97.8)	96.2 (95.6-96.7)
45-64	96.0 (95.5-96.6)	94.3 (93.7-95.0)	87.5 (86.6-88.3)	96.8 (96.3-97.2)	95.0 (94.4-95.5)
65+	94.2 (92.6-95.5)	90.4 (88.6-92.0)	76.4 (74.2-78.4)	95.4 (94.2-96.4)	92.2 (90.7-93.4)
Men	96.3 (95.9-96.8)	94.9 (94.3-95.4)	87.8 (87.1-88.5)	96.8 (96.4-97.2)	95.3 (94.8-95.7)
Women	96.3 (95.7-96.9)	94.1 (93.3-94.8)	87.0 (86.0-87.9)	96.9 (96.4-97.4)	94.9 (94.2-95.5)
Diabetes	93.9 (92.1-95.2)	91.8 (89.9-93.3)	78.4 (76.1-80.6)	94.8 (93.2-96.0)	92.0 (90.2-93.4)
Hypertension / renal vascular disease	95.2 (93.6-96.5)	92.9 (91.0-94.3)	83.8 (81.5-85.8)	96.5 (95.2-97.4)	93.6 (92.0-94.9)
Glomerulonephritis	96.3 (95.5-96.9)	94.6 (93.7-95.3)	87.6 (86.4-88.7)	97.0 (96.3-97.5)	95.3 (94.5-96.0)
Other causes	96.8 (96.4-97.3)	95.3 (94.7-95.8)	89.3 (88.6-90.0)	97.1 (96.6-97.5)	95.6 (95.1-96.1)
All	96.3 (96.0-96.7)	94.6 (94.2-95.0)	87.5 (86.9-88.1)	96.9 (96.5-97.2)	95.1 (94.7-95.5)

* Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)

Table B.6.16
First graft (living donor), from day of transplant, adjusted
adjusted for age, sex, and primary renal disease

	Survival probabilities as % (95% CI)				
	cohort 2008 - 2012			cohort 2011 - 2015	
	1 year	2 year	5 year	1 year	2 year
0-19	96.8 (95.1-98.5)	96.1 (94.2-98.0)	90.5 (87.7-93.5)	96.3 (94.6-98.1)	94.2 (92.1-96.5)
20-44	96.8 (96.3-97.4)	95.4 (94.7-96.1)	89.0 (88.0-90.0)	97.3 (96.8-97.8)	96.1 (95.5-96.7)
45-64	96.1 (95.6-96.7)	94.5 (93.8-95.2)	87.5 (86.5-88.5)	96.7 (96.3-97.2)	94.9 (94.3-95.6)
65+	94.0 (92.5-95.6)	90.4 (88.5-92.4)	76.9 (74.1-79.7)	95.2 (94.0-96.4)	92.0 (90.5-93.6)
Men	96.2 (95.7-96.7)	94.8 (94.2-95.4)	87.4 (86.5-88.3)	96.7 (96.3-97.1)	95.2 (94.7-95.7)
Women	95.9 (95.3-96.6)	93.5 (92.6-94.3)	85.6 (84.4-86.8)	96.6 (96.0-97.2)	94.4 (93.7-95.1)
Diabetes	94.2 (92.6-95.8)	92.2 (90.4-94.0)	79.2 (76.5-82.0)	95.1 (93.7-96.4)	92.4 (90.8-94.1)
Hypertension / renal vascular disease	95.6 (94.2-97.0)	93.3 (91.7-95.0)	84.7 (82.3-87.2)	96.7 (95.6-97.8)	94.0 (92.5-95.5)
Glomerulonephritis	96.0 (95.2-96.8)	94.1 (93.1-95.0)	86.4 (85.0-87.8)	96.7 (96.0-97.4)	94.9 (94.1-95.8)
Other causes	96.6 (96.1-97.1)	95.0 (94.4-95.6)	88.7 (87.8-89.5)	96.9 (96.5-97.4)	95.5 (94.9-96.0)
All	96.1 (95.7-96.5)	94.3 (93.8-94.8)	86.7 (86.0-87.4)	96.7 (96.3-97.0)	94.9 (94.5-95.3)

** Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland)*

Figure B.6.1
Adjusted patient survival by primary renal disease: Incident RRT patients
from day 1, adjusted for age and sex

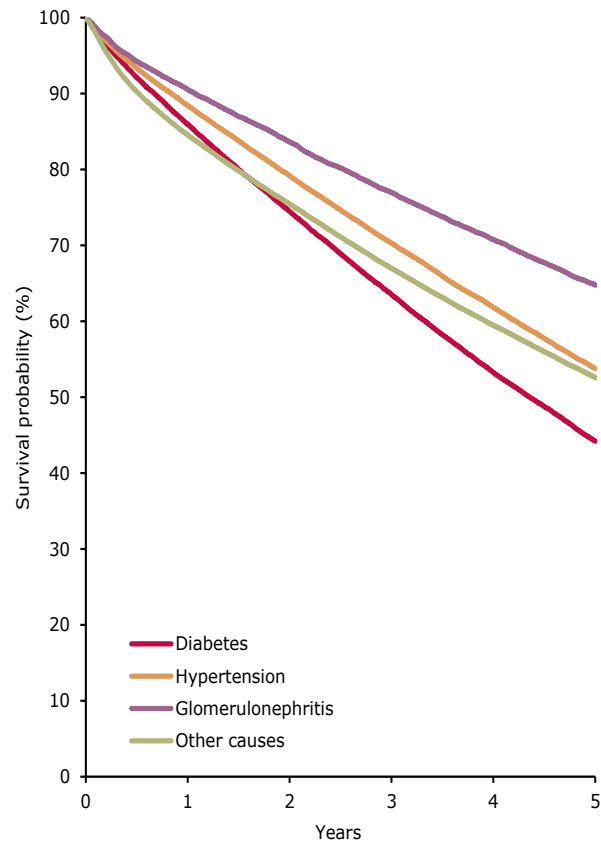


Figure B.6.2
Adjusted patient survival by modality: Incident dialysis patients
from day 91, adjusted for age, sex, and primary renal disease

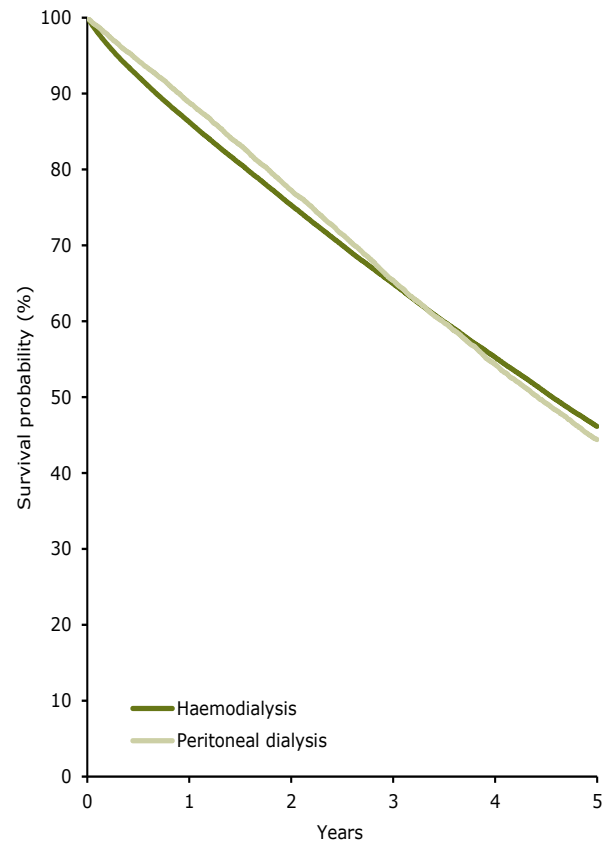
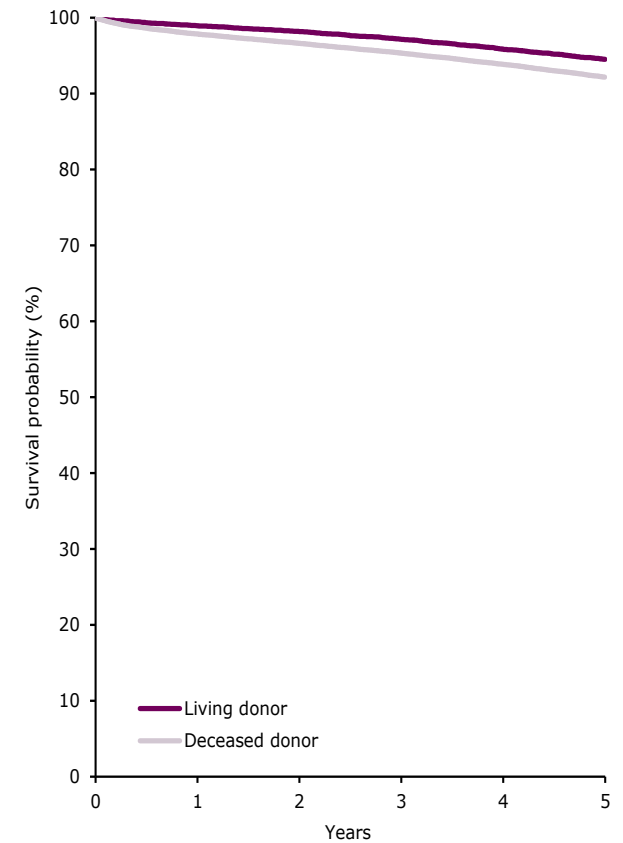
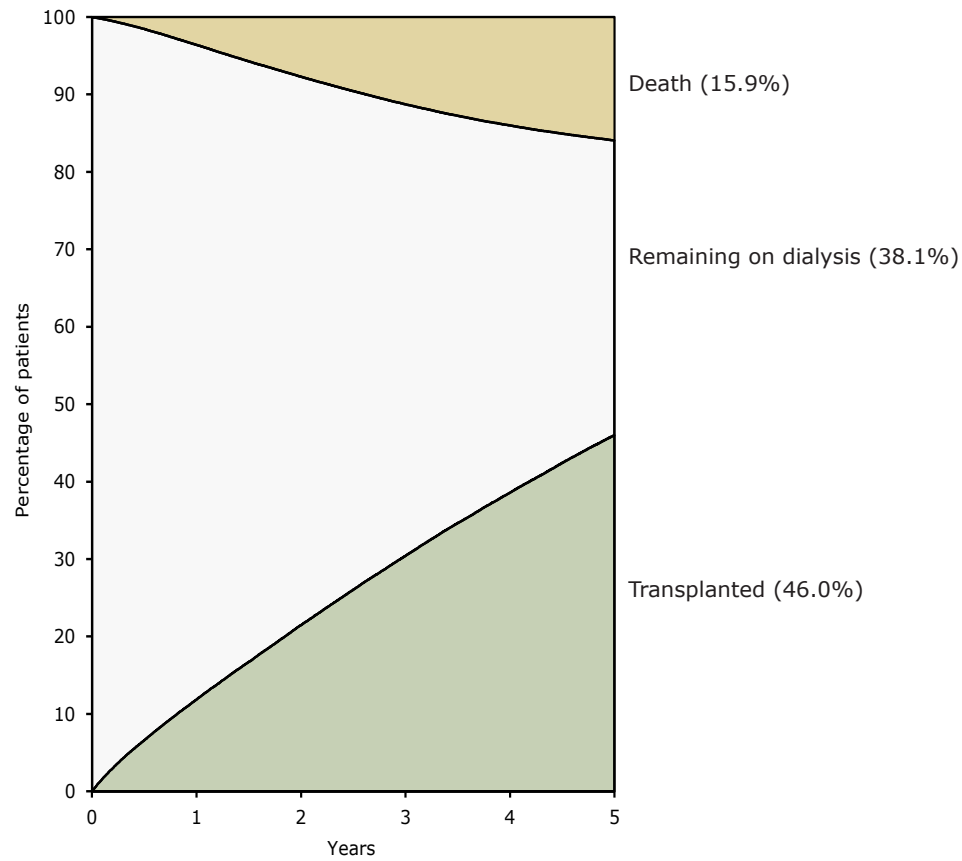


Figure B.6.3
Adjusted patient survival by donor type: Patients receiving a first kidney transplant
from day of transplant, adjusted for age, sex, and primary renal disease



Survival on dialysis was examined using the Cox regression method, with transplantation as a censored observation (see methods)

Figure B.6.4
Adjusted cumulative incidence of death and receiving a kidney transplant: Incident dialysis patients
from day 1, adjusted for age, sex and primary renal disease



Survival on dialysis was examined using the Fine and Gray competing risk method, with transplantation as a competing event (see methods)

Table B.7.1

Expected remaining lifetimes (years) of the general population (cohort 2013-2017) and of prevalent dialysis and kidney transplant patients (cohort 2013-2017)

by age and sex

General population				ESRD: Dialysis				ESRD: Transplant			
Age	All	Men	Women	Age	All	Men	Women	Age	All	Men	Women
0	81.5	79.0	83.8	0-19	39.0	39.8	37.8	0-19	62.9	62.7	63.5
5	76.8	74.4	79.1								
10	71.8	69.4	74.2								
15	66.8	64.4	69.2								
20	61.9	59.5	64.2	20-24	21.6	22.3	20.6	20-24	43.7	43.2	44.5
25	57.0	54.7	59.3	25-29	18.8	19.2	18.1	25-29	39.3	38.8	40.2
30	52.1	49.8	54.4	30-34	16.2	16.3	16.0	30-34	35.0	34.6	35.9
35	47.3	45.0	49.5	35-39	13.9	13.9	13.8	35-39	30.7	30.3	31.5
40	42.5	40.2	44.6	40-44	11.9	11.8	12.1	40-44	26.7	26.2	27.6
45	37.7	35.5	39.8	45-49	10.1	9.9	10.5	45-49	22.9	22.4	23.8
50	33.0	30.9	35.0	50-54	8.5	8.4	8.9	50-54	19.2	18.6	20.1
55	28.5	26.5	30.4	55-59	7.3	7.1	7.6	55-59	15.9	15.4	16.7
60	24.2	22.3	25.9	60-64	6.2	6.0	6.5	60-64	12.9	12.5	13.5
65	20.1	18.4	21.6	65-69	5.4	5.3	5.6	65-69	10.2	9.8	10.7
70	16.1	14.6	17.4	70-74	4.7	4.6	4.9	70-74	7.8	7.6	8.2
75	12.5	11.2	13.4	75-79	4.0	3.9	4.2	75-79	5.8	5.7	5.9
80	9.1	8.2	9.8	80-84	3.3	3.3	3.4	80-84	3.7	3.7	3.9
85	6.3	5.7	6.7	85-89	2.2	2.2	2.2				

Based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque Country), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Sweden, the Netherlands, United Kingdom (England, Northern Ireland and Wales), United Kingdom (Scotland)

Section C: Aggregated data reference tables

Table C.1.1
General population data and number of renal centres

	General population of country/region in thousands	% Coverage of general population by the registry	Total number of renal centres of country/region	Number of renal centres collaborating with the registry
Albania	2876	99.0	14	13
Belarus	9492	100	48	48
Bulgaria	7050	100	80	80
Croatia	4125	90.0	44	39
Cyprus	864	100	7	7
Czech Republic	10610	93.5	108	101
Georgia	3726	100	25	25
Israel	8713	100	76	76
Italy (8 of 20 regions) §	26564	99.0	192	192
Kosovo	1740	97.0	9	8
Latvia	1934	80.0	28	23
Lithuania	2848	100	63	63
North Macedonia	2022	100	23	23
Poland	38430	100	284	284
Portugal	10310	100	123	123
Russia	146879	97.0	557	540
Slovakia	5437	100	71	71
Spain	46572	100	351	351
Tunisia, Sfax region ‡	990	100	17	17
Turkey	80811	100	1057	1057
Ukraine	42415	100	111	111

§ The 8 regions cover 43.9% of the general population of Italy

‡ Sfax region covers 8.7% of the general population of Tunisia

Table C.2.1
Incident counts and percentages by age and sex
at day 1

	All			0-19						20-44						45-64						65-74						75+					
	All	Men	Women	All		Men		Women		All		Men		Women		All		Men		Women		All		Men		Women							
	N (100%)	N (100%)	N (100%)	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%						
Albania	255	166	89	6	2	4	2	2	2	56	22	38	23	18	20	108	42	68	41	40	45	58	23	40	24	18	20	27	11	16	10	11	12
Belarus	952	551	401	8	1	6	1	2	0	229	24	142	26	87	22	390	41	249	45	141	35	237	25	115	21	122	30	88	9	39	7	49	12
Bulgaria	1195	657	538																														
Croatia	710	449	261	0	0	0	0	0	0	67	9	45	10	22	8	272	38	176	39	96	37	204	29	131	29	73	28	167	24	97	22	70	27
Cyprus	204	141	63	0	0	0	0	0	0	9	4	7	5	2	3	64	31	39	28	25	40	69	34	51	36	18	29	62	30	44	31	18	29
Czech Republic †	2301																																
Georgia	782	528	254	10	1	5	1	5	2	96	12	65	12	31	12	323	41	221	42	102	40	222	28	153	29	69	27	131	17	84	16	47	19
Israel	1683	1104	579	40	2	24	2	16	3	147	9	96	9	51	9	493	29	335	30	158	27	493	29	336	30	157	27	510	30	313	28	197	34
Italy (8 of 20 regions)	3722	2444	1278	16	0	11	0	5	0	267	7	171	7	96	8	945	25	635	26	310	24	1005	27	684	28	321	25	1489	40	943	39	546	43
Kosovo	321	187	134	6	2	3	2	3	2	24	7	14	7	10	7	122	38	73	39	49	37	100	31	49	26	51	38	69	21	48	26	21	16
Latvia	177	108	69	1	1	0	0	1	1	18	10	10	9	8	12	79	45	53	49	26	38	46	26	21	19	25	36	33	19	24	22	9	13
Lithuania	341	191	150	0	0	0	0	0	0	53	16	32	17	21	14	131	38	76	40	55	37	67	20	39	20	28	19	90	26	44	23	46	31
North Macedonia	365	211	154	2	1	1	0	1	1	36	10	25	12	11	7	149	41	87	41	62	40	96	26	57	27	39	25	82	22	41	19	41	27
Poland †	6550																																
Portugal	2372																																
Russia †	9495	4969	4526	220	2	162	3	58	1	2066	22	1157	23	909	20	4579	48	2557	51	2022	45	2088	22	877	18	1211	27	542	6	216	4	326	7
Slovakia †	927	583	344	6	1	1	0	5	1	108	12	67	11	41	12	339	37	225	39	114	33	307	33	197	34	110	32	167	18	93	16	74	22
Spain §	6567	4431	2136	41	1	30	1	11	1	637	10	405	9	232	11	2027	31	1374	31	653	31	1883	29	1322	30	561	26	1979	30	1300	29	679	32
Tunisia, Sfax region †	239	149	90	3	1	0	0	3	3	31	13	18	12	13	14	88	37	63	42	25	28	58	24	36	24	22	24	59	25	32	21	27	30
Turkey	11837																																
Ukraine #	1551			12	1					539	35					710	46					242	16			48	3						

Categories may not add up because of missing values or rounding off

When cells are left empty, the data are unavailable

† Data include dialysis patients only

§ Data presented in the column 0-19 refer to patients aged 0-14 years and data presented in the column 20-44 refer to patients aged 15-44 years

Data presented in the column 0-19 refer to patients aged 18-19 years

Table C.2.2
Incidence per million (age-related) population by age and sex, unadjusted
at day 1

	All			0-19			20-44			45-64			65-74			75+		
	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women
	Pmp	Pmp	Pmp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp
Albania	89.6	115.4	63.2	8.1	10.5	5.6	56.2	74.1	37.3	145.3	185.6	106.0	262.7	367.3	160.9	179.4	227.6	137.2
Belarus	100.3	124.6	79.1	3.9	5.7	2.0	68.1	83.8	52.2	146.6	205.6	97.2	306.6	392.5	254.2	136.0	229.4	102.7
Bulgaria	169.5	192.0	148.3															
Croatia	191.2	250.7	135.8	0	0	0	56.2	74.3	37.5	259.4	343.7	179.0	519.9	754.2	333.8	484.5	792.5	314.9
Cyprus	236.1	334.9	142.2	0	0	0	27.4	44.0	11.8	307.7	382.4	235.8	862.5	1342.1	428.6	1087.7	1760.0	562.5
Czech Republic †	231.9																	
Georgia	209.9	295.7	130.9	10.5	10.1	11.1	75.5	102.2	48.8	334.0	492.5	196.8	784.0	1325.9	411.3	511.4	956.4	279.2
Israel	193.2	255.5	131.8	12.7	14.9	10.4	50.2	65.4	35.0	300.1	419.9	187.0	856.1	1252.3	510.4	1208.2	1794.7	795.3
Italy (8 of 20 regions)	140.1	189.1	93.7	3.3	4.4	2.1	33.8	42.7	24.6	120.5	165.6	77.4	343.8	496.3	207.8	485.3	773.1	295.4
Kosovo	190.2	220.1	159.9	9.3	9.0	9.7	37.2	43.3	31.0	427.8	519.0	339.0	1321.7	1329.4	1314.4	1823.9	2910.9	984.1
Latvia	114.4	151.9	82.5	3.2	0	6.6	36.3	39.8	32.8	184.6	269.3	112.5	293.4	354.7	256.1	214.8	566.0	80.9
Lithuania	119.7	145.6	97.7	0	0	0	58.2	69.7	46.6	161.1	203.8	125.0	243.6	375.0	163.7	327.3	543.2	237.1
North Macedonia	180.5	207.9	152.9	3.4	3.3	3.5	47.3	64.3	29.6	326.8	386.7	268.4	657.5	838.2	500.0	1205.9	1413.8	1051.3
Poland †	170.4																	
Portugal	230.1																	
Russia †	66.6	75.2	59.2	7.0	10.0	3.8	40.1	45.0	35.2	118.9	147.6	95.4	181.5	203.4	168.5	58.3	85.4	48.2
Slovakia †	170.5	219.8	123.5	5.4	1.7	9.2	52.7	63.8	41.0	233.1	316.5	153.4	620.2	929.2	388.7	521.9	877.4	345.8
Spain §	141.0	194.1	90.0	5.9	8.4	3.2	35.8	44.8	26.4	155.6	213.0	99.3	428.0	641.4	239.8	453.5	761.6	255.6
Tunisia, Sfax region †	241.5	303.1	180.7	6.1	0	19.9	62.2	97.5	66.0	414.9	601.9	232.7	1194.7	1521.3	884.2	1712.5	1966.9	1484.9
Turkey	146.5																	
Ukraine	36.6			1.4			34.7			61.2			67.8			14.5		

When cells are left empty, the data are unavailable

† Data include dialysis patients only

§ Data presented in the column 0-19 refer to patients aged 0-14 years and data presented in the column 20-44 refer to patients aged 15-44 years

Table C.2.3
Sex, mean age, and median age of incident patients
at day 1

	All						Men						Women					
	%	Mean (years)	SD	Median (years)	P25	P75	%	Mean (years)	SD	Median (years)	P25	P75	%	Mean (years)	SD	Median (years)	P25	P75
Albania	100	51.2	15.4	52.1	26.9	73.8	65.1	55.1	15.5	57.5	28.3	77.6	34.9	47.2	15.4	46.1	25.4	68.4
Belarus	100						57.9						42.1					
Bulgaria	100						55.0						45.0					
Croatia	100	67.6	12.4	69.0	61.0	77.0	63.2	67.0	12.2	68.0	60.0	76.0	36.8	68.5	12.8	71.0	61.0	78.0
Cyprus	100	68.0	12.6	69.0	60.7	78.0	69.1	68.3	12.6	69.0	62.0	78.0	30.9	67.4	12.6	67.0	58.5	76.0
Czech Republic																		
Georgia	100	60.9	14.7	63.3	52.6	70.6	67.5	61.0	14.3	63.5	52.8	70.6	32.5	60.8	15.7	63.0	53.0	71.2
Israel	100	65.6	16.6	68.4	57.7	77.3	65.6	65.4	16.3	68.1	57.6	76.6	34.4	66.0	17.3	69.3	58.0	78.2
Italy (8 of 20 regions)	100	68.9	14.9	71.8	60.4	79.6	65.7	68.7	13.3	71.5	60.5	79.3	34.3	69.2	15.0	72.4	60.6	80.0
Kosovo	100	62.9	14.8	65.0	57.0	73.0	58.3	63.3	14.4	65.0	57.5	75.0	41.7	62.4	15.1	65.0	56.0	72.0
Latvia	100	60.9	14.9	62.0	52.0	72.0	61.0	61.2	15.0	61.0	51.0	73.0	39.0	60.5	15.0	64.0	53.0	70.0
Lithuania	100	61.7	16.4	62.7	51.1	76.1	56.0	60.4	16.3	61.5	50.0	74.2	44.0	63.3	16.2	63.6	52.8	78.3
North Macedonia	100	62.7	14.1	63.0	55.0	73.0	57.8	61.6	14.3	63.0	53.0	72.0	42.2	64.2	13.8	65.0	57.0	75.0
Poland																		
Portugal																		
Russia †	100	55.8	15.2	58.0	45.0	66.0	52.3	53.3	14.7	55.0	44.0	64.0	47.7	58.4	15.3	61.0	48.0	68.0
Slovakia †	100	62.0	14.2	65.0	55.0	72.0	62.9	61.9	13.6	64.0	55.0	71.0	37.1	62.0	15.3	66.0	54.0	73.0
Spain	100	63.5	15.0	68.1	54.5	76.8	67.5	63.6	14.8	68.1	54.8	76.3	32.5	63.3	15.4	68.0	53.9	77.6
Tunisia, Sfax region †	100	62.3	16.1	64.0	53.0	74.0	62.3	62.6	14.3	64.0	53.0	73.0	37.7	61.8	18.8	66.5	51.8	77.0
Turkey																		
Ukraine	100	52.2	14.0	55.0	41.0	63.0	52.3	52.3	13.7	55.0	42.0	62.0	52.1	52.1	14.5	55.0	40.0	64.0

Categories may not add up because of missing values or rounding off

When cells are left empty, the data are unavailable

† Data include dialysis patients only

Table C.2.4
Incidence per million population, adjusted
at day 1, adjusted for age and sex

	All	Men	Women
	Pmp	Pmp	Pmp
Albania	87.4	113.1	61.8
Belarus			
Bulgaria			
Croatia	183.4	244.6	125.1
Cyprus	244.9	340.5	153.7
Czech Republic			
Georgia	255.0	371.2	144.2
Israel	295.7	391.1	204.7
Italy (8 of 20 regions)	121.8	162.4	83.0
Kosovo	429.4	493.6	368.2
Latvia	117.9	161.1	76.7
Lithuania	121.7	154.8	90.2
North Macedonia	282.2	314.9	251.0
Poland			
Portugal			
Russia †	71.1	83.1	59.1
Slovakia †	168.7	207.9	131.3
Spain	128.5	172.0	83.5
Tunisia, Sfax region †	374.8	460.7	292.8
Turkey			
Ukraine			

When cells are left empty, the data are unavailable

† Data include dialysis patients only

Table C.2.5
Incidence per million population and percentages by primary renal disease, unadjusted
at day 1

	All		GN		PN		PKD		DM						HT		RVD		Misc		Unkn		Missing	
	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Type 1		Type 2		Both		Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%
									Pmp	%	Pmp	%	Pmp	%										
Albania	89.6	100	15.5	17.3	14.0	15.7	4.6	5.1	1.1	1.2	16.9	18.8	17.9	20.0	9.5	10.6	1.4	1.6	14.4	16.1	12.3	13.7	0	0
Belarus	100.3	100	21.7	21.6	5.4	5.4	5.9	5.9	6.2	6.2	16.5	16.5	22.8	22.7	12.9	12.8	5.9	5.9	25.5	25.4	0.3	0.3	0	0
Bulgaria	169.5	100	22.4	13.2	13.2	7.8	12.3	7.3					45.7	26.9	26.1	15.4	18.0	10.6	20.6	12.1	7.2	4.3	4.0	2.3
Croatia	191.2	100	19.1	10.0	12.1	6.3	3.2	1.7	5.4	2.8	49.6	25.9	54.9	28.7	26.4	13.8	5.4	2.8	46.9	24.5	23.2	12.1	0	0
Cyprus	236.1	100	30.1	12.7	9.3	3.9	17.4	7.4	1.2	0.5	89.1	37.7	90.3	38.2	31.3	13.2	1.2	0.5	26.6	11.3	30.1	12.7	0	0
Czech Republic																								
Georgia	209.9	100	5.1	2.4	18.8	9.0	17.4	8.3	13.7	6.5	38.4	18.3	52.1	24.8	25.2	12.0	9.1	4.3	8.9	4.2	67.6	32.2	5.6	2.7
Israel	193.2	100	12.9	6.7	3.2	1.7	4.0	2.1	9.2	4.8	80.2	41.5	89.4	46.3	20.3	10.5	1.6	0.8	21.1	10.9	29.8	15.4	10.8	5.6
Italy (8 of 20 regions)	140.1	100	17.8	12.7	6.4	4.5	8.3	5.9					25.4	18.1	23.2	16.5	5.5	3.9	14.3	10.2	35.5	25.4	3.9	2.8
Kosovo	190.2	100	4.1	2.2	61.6	32.4	7.1	3.7	2.4	1.2	59.2	31.2	61.6	32.4	34.4	18.1	1.2	0.6	15.4	8.1	4.7	2.5	0	0
Latvia	114.4	100	19.4	16.9	11.0	9.6	7.8	6.8	5.2	4.5	13.6	11.9	18.7	16.4	11.6	10.2	0.6	0.6	19.4	16.9	25.9	22.6	0	0
Lithuania	119.7	100	20.4	17.0	14.0	11.7	8.1	6.7					17.6	14.7	24.9	20.8	2.5	2.1	26.3	22.0	6.0	5.0	0	0
North Macedonia	180.5	100	16.3	9.0	10.9	6.0	9.9	5.5	1.0	0.5	48.5	26.8	49.5	27.4	49.5	27.4	0	0	22.3	12.3	22.3	12.3	0	0
Poland †	170.4	100	25.6	15.0	4.1	2.4	7.3	4.3					38.3	22.4	24.1	14.1	1.4	0.8	16.7	9.8	28.9	17.0	24.1	14.2
Portugal + &	230.1	100	24.5	10.7			12.3	5.4					73.0	31.7	34.0	14.8			45.4	19.7	37.3	16.2	3.4	1.5
Russia †	66.6	100	20.5	30.7	8.6	12.9	6.1	9.2	4.6	6.9	7.2	10.8	11.8	17.7	6.6	9.9	2.0	3.0	10.5	15.8	0.5	0.8	0	0
Slovakia †	170.5	100	16.2	9.5	14.5	8.5	7.0	4.1					63.3	37.1	13.4	7.9	7.4	4.3	45.1	26.4	3.7	2.2	0	0
Spain ¶	141.0	100	18.1	12.8	10.0	7.1	9.3	6.6					33.8	23.9	18.3	12.9			21.2	15.0	30.5	21.6	0	0
Tunisia, Sfax region † §	241.5	100	19.2	7.9	32.3	13.4	10.1	4.2					66.7	27.6			10.1	4.2	0	0	103.1	42.7	0	0
Turkey ‡	146.5	100	1.5	1.0	0.3	0.2	0.7	0.5	0.6	0.4	8.1	5.6	8.7	5.9	6.4	4.4	0.2	0.1	2.0	1.4	3.5	2.4	123.1	84.0
Ukraine +	36.6	100	11.1	30.4	4.6	12.6	2.9	8.0	3.3	9.0	4.4	12.1	7.7	21.1	2.8	7.6			3.6	9.8	0.2	0.6	3.6	9.9

Abbreviations used: GN: glomerulonephritis/sclerosis; PN: pyelonephritis; PKD: polycystic kidneys, adult type; DM: diabetes mellitus; HT: hypertension; RVD: renal vascular disease; Misc: miscellaneous; Unkn: unknown
Categories may not add up because of rounding off

When cells are left empty, the data are unavailable

† Data include dialysis patients only

+ Renal vascular disease is not reported separately, but is included into miscellaneous

& Pyelonephritis is not reported separately, but is included into miscellaneous

¶ Renal vascular disease is not reported separately, but is included into hypertension

§ Hypertension is not reported separately, but is included into renal vascular disease

‡ Data on primary renal disease are available for 1893 dialysis patients (16.0%, total N=11837)

C2 INCIDENT PATIENTS ACCEPTED FOR RRT IN 2017, AT DAY 1

Table C.2.6
Incident counts by treatment modality
at day 1

	All	Haemodialysis						Peritoneal dialysis				Preemptive kidney transplant				Missing
		HD hospital/ centre	HD home	HD type Unkn	HF	HDF	Total HD/ HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx	
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Albania	255	242	0	0	0	0	242	0	2	0	2	4	0	0	4	7
Belarus	952	827	0	0	1	25	853	4	77	0	81	1	17	0	18	0
Bulgaria	1195	1004	0	0	0	148	1152	8	11	0	19	2	3	0	5	19
Croatia	710	441	0	0	0	167	608	20	63	0	83	5	12	0	17	2
Cyprus	204	114	0	0	0	58	172	7	24	0	31	1	0	0	1	0
Czech Republic †	2301		10	2197			2207			94	94					0
Georgia	782	745	0	0	0	0	745	37	0	0	37	0	0	0	0	0
Israel	1683	1407	0	0	0	31	1438	18	152	1	171	62	3	9	74	0
Italy (8 of 20 regions)	3722	2750	10	5	32	306	3103	263	304	0	567	15	22	15	52	0
Kosovo	321	317	0	0	0	0	317	0	1	0	1	3	0	0	3	0
Latvia	177	136	0	0	0	0	136			38	38	2	1	0	3	0
Lithuania	341	323	0	0	0	0	323			16	16			2	2	0
North Macedonia	365	358	0	0	0	0	358	0	0	0	0	7	0	0	7	0
Poland †	6550	6145	0	0	0	0	6145	135	270	0	405					0
Portugal	2372	2113					2113			228	228	31	0	0	31	0
Russia †	9495	7364	0	0	0	1383	8747	126	622	0	748					0
Slovakia †	927	268	0	0	0	629	897	13	17	0	30					
Spain	6567			5120			5120			1126	1126			321	321	0
Tunisia, Sfax region †	239	235	0	0	0	0	235	3	1	0	4					0
Turkey	11837	9468	2	43	8	155	9676	682	194	0	876	1267	18	0	1285	0
Ukraine	1551	952	0	0	0	462	1414	14	123	0	137	0	0	0	0	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
 When cells are left empty, the data are unavailable

† Data include dialysis patients only

Table C.2.7
Incidence per million population by treatment modality, unadjusted
at day 1

	All	Haemodialysis						Peritoneal dialysis				Preemptive kidney transplant				Missing
		HD hospital/ centre	HD home	HD type Unkn	HF	HDF	Total HD/ HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx	
	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp
Albania	89.6	85.0	0	0	0	0	85.0	0	0.7	0	0.7	1.4	0	0	1.4	2.5
Belarus	100.3	87.1	0	0	0.1	2.6	89.9	0.4	8.1	0	8.5	0.1	1.8	0	1.9	0
Bulgaria	169.5	142.4	0	0	0	21.0	163.4	1.1	1.6	0	2.7	0.3	0.4	0	0.7	2.7
Croatia	191.2	118.8	0	0	0	45.0	163.8	5.4	17.0	0	22.4	1.3	3.2	0	4.6	0.5
Cyprus	236.1	131.9	0	0	0	67.1	199.1	8.1	27.8	0	35.9	1.2	0	0	1.2	0
Czech Republic †	231.9		1.0	221.5			222.5			9.5	9.5					0
Georgia	209.9	199.9	0	0	0	0	199.9	9.9	0	0	9.9	0	0	0	0	0
Israel	193.2	161.5	0	0	0	3.6	165.0	2.1	17.4	0.1	19.6	7.1	0.3	1.0	8.5	0
Italy (8 of 20 regions)	140.1	103.5	0.4	0.2	1.2	11.5	116.8	9.9	11.4	0	21.3	0.6	0.8	0.6	2.0	0
Kosovo	190.2	187.8	0	0	0	0	187.8	0	0.6	0	0.6	1.8	0	0	1.8	0
Latvia	114.4	87.9	0	0	0	0	87.9			24.6	24.6	1.3	0.6	0	1.9	0
Lithuania	119.7	113.4	0	0	0	0	113.4			5.6	5.6			0.7	0.7	0
North Macedonia	180.5	177.1	0	0	0	0	177.1	0	0	0	0	3.5	0	0	3.5	0
Poland †	170.4	159.9	0	0	0	0	159.9	3.5	7.0	0	10.5					0
Portugal	230.1	204.9					204.9			22.1	22.1	3.0	0	0	3.0	0
Russia †	66.6	51.7	0	0	0	9.7	61.4	0.9	4.4	0	5.3					0
Slovakia †	170.5	49.3	0	0	0	115.7	165.0	2.4	3.1	0	5.5					
Spain	141.0			109.9			109.9			24.2	24.2			6.9	6.9	0
Tunisia, Sfax region †	241.5	237.5	0	0	0	0	237.5	3.0	1.0	0	4.0					0
Turkey	146.5	117.2	0	0.5	0.1	1.9	119.7	8.4	2.4	0	10.8	15.7	0.2	0	15.9	0
Ukraine	36.6	22.4	0	0	0	10.9	33.3	0.3	2.9	0	3.2	0	0	0	0	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
Categories may not add up because of rounding off
When cells are left empty, the data are unavailable
† Data include dialysis patients only

Table C.2.8
Treatment modality distribution, unadjusted
at day 1

	All	Haemodialysis						Peritoneal dialysis				Preemptive kidney transplant				Missing
		HD hospital/ centre	HD home	HD type Unkn	HF	HDF	Total HD/ HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	
Albania	100	94.9	0	0	0	0	94.9	0	0.8	0	0.8	1.6	0	0	1.6	2.7
Belarus	100	86.9	0	0	0.1	2.6	89.6	0.4	8.1	0	8.5	0.1	1.8	0	1.9	0
Bulgaria	100	84.0	0	0	0	12.4	96.4	0.7	0.9	0	1.6	0.2	0.3	0	0.4	1.6
Croatia	100	62.1	0	0	0	23.5	85.6	2.8	8.9	0	11.7	0.7	1.7	0	2.4	0.3
Cyprus	100	55.9	0	0	0	28.4	84.3	3.4	11.8	0	15.2	0.5	0	0	0.5	0
Czech Republic †	100		0.4	95.5			95.9			4.1	4.1					0
Georgia	100	95.3	0	0	0	0	95.3	4.7	0	0	4.7	0	0	0	0	0
Israel	100	83.6	0	0	0	1.8	85.4	1.1	9.0	0.1	10.2	3.7	0.2	0.5	4.4	0
Italy (8 of 20 regions)	100	73.9	0.3	0.1	0.9	8.2	83.4	7.1	8.2	0	15.2	0.4	0.6	0.4	1.4	0
Kosovo	100	98.8	0	0	0	0	98.8	0	0.3	0	0.3	0.9	0	0	0.9	0
Latvia	100	76.8	0	0	0	0	76.8			21.5	21.5	1.1	0.6	0	1.7	0
Lithuania	100	94.7	0	0	0	0	94.7			4.7	4.7			0.6	0.6	0
North Macedonia	100	98.1	0	0	0	0	98.1	0	0	0	0	1.9	0	0	1.9	0
Poland †	100	93.8	0	0	0	0	93.8	2.1	4.1	0	6.2					0
Portugal	100	89.1					89.1			9.6	9.6	1.3	0	0	1.3	0
Russia †	100	77.6	0	0	0	14.6	92.1	1.3	6.6	0	7.9					0
Slovakia †	100	28.9	0	0	0	67.9	96.8	1.4	1.8	0	3.2					
Spain	100			78.0			78.0			17.1	17.1			4.9	4.9	0
Tunisia, Sfax region †	100	98.3	0	0	0	0	98.3	1.3	0.4	0	1.7					0
Turkey	100	80.0	0	0.4	0.1	1.3	81.7	5.8	1.6	0	7.4	10.7	0.2	0	10.9	0
Ukraine	100	61.4	0	0	0	29.8	91.2	0.9	7.9	0	8.8	0	0	0	0	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
 Categories may not add up because of rounding off

When cells are left empty, the data are unavailable

† Data include dialysis patients only

C3 INCIDENT PATIENTS ACCEPTED FOR RRT IN 2017, AT DAY 91

Table C.3.1
Incident counts and percentages by age and sex
at day 91

	All			0-19						20-44						45-64						65-74						75+					
	All	Men	Women	All		Men		Women		All		Men		Women		All		Men		Women		All		Men		Women							
	N (100%)	N (100%)	N (100%)	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%						
Albania	239	154	85	6	3	4	3	2	2	54	23	37	24	17	20	104	44	64	42	40	47	54	23	37	24	17	20	21	9	12	8	9	11
Belarus	718	398	320	6	1	5	1	1	0	208	29	121	30	87	27	309	43	187	47	122	38	153	21	70	18	83	26	42	6	15	4	27	8
Bulgaria	1026	567	459																														
Croatia	608	389	219	0	0	0	0	0	0	60	10	40	10	20	9	251	41	164	42	87	40	169	28	99	25	70	32	128	21	86	22	42	19
Cyprus	193	135	58	0	0	0	0	0	0	9	5	7	5	2	3	62	32	38	28	24	41	67	35	51	38	16	28	55	28	39	29	16	28
Czech Republic																																	
Georgia	631	427	204	10	2	5	1	5	2	90	14	58	14	32	16	295	47	207	48	88	43	146	23	102	24	44	22	90	14	55	13	35	17
Israel	1598	1040	558	40	3	24	2	16	3	144	9	94	9	50	9	479	30	325	31	154	28	471	29	318	31	153	27	464	29	279	27	185	33
Italy (8 of 20 regions)	3503	2301	1202	15	0	11	0	4	0	265	8	170	7	95	8	926	26	625	27	301	25	952	27	649	28	303	25	1345	38	846	37	499	42
Kosovo	226	137	89	2	1	2	1	0	0	19	8	11	8	8	9	99	44	58	42	41	46	66	29	35	26	31	35	40	18	31	23	9	10
Latvia	160	100	60	1	1	0	0	1	2	17	11	10	10	7	12	75	47	51	51	24	40	38	24	17	17	21	35	29	18	22	22	7	12
Lithuania	319	180	139	0	0	0	0	0	0	52	16	32	18	20	14	128	40	74	41	54	39	58	18	34	19	24	17	81	25	40	22	41	29
North Macedonia	277	161	116	2	1	1	1	1	1	32	12	23	14	9	8	126	45	73	45	53	46	61	22	39	24	22	19	56	20	25	16	31	27
Poland																																	
Portugal	2249																																
Russia																																	
Slovakia †	806	516	290	5	1	0	0	5	2	100	12	61	12	39	13	304	38	205	40	99	34	267	33	175	34	92	32	130	16	75	15	55	19
Spain																																	
Tunisia, Sfax region †	206	130	76	3	1	0	0	3	4	31	15	18	14	13	17	77	37	54	42	23	30	51	25	32	25	19	25	44	21	26	20	18	24
Turkey																																	
Ukraine	1086																																

Categories may not add up because of missing values or rounding off
When cells are left empty, the data are unavailable
 † Data include dialysis patients only

Table C.3.2
Incidence per million (age-related) population by age and sex, unadjusted
at day 91

	All			0-19			20-44			45-64			65-74			75+		
	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women
	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp
Albania	83.9	107.1	60.3	8.1	10.5	5.6	54.2	72.2	35.2	139.9	174.7	106.0	244.6	339.8	152.0	139.6	170.7	112.2
Belarus	75.6	90.0	63.1	2.9	4.7	1.0	61.8	71.4	52.2	116.1	154.4	84.1	197.9	238.9	172.9	64.9	88.2	56.6
Bulgaria	145.5	165.7	126.5															
Croatia	163.8	217.2	114.0	0	0	0	50.4	66.0	34.1	239.4	320.3	162.2	430.7	569.9	320.1	371.3	702.6	188.9
Cyprus	223.4	320.7	130.9	0	0	0	27.4	44.0	11.8	298.1	372.5	226.4	837.5	1342.1	381.0	964.9	1560.0	500.0
Czech Republic																		
Georgia	169.3	239.1	105.1	10.5	10.1	11.1	70.8	91.2	50.4	305.0	461.3	169.7	515.6	884.0	262.3	351.4	626.2	207.9
Israel	183.4	240.7	127.1	12.7	14.9	10.4	49.2	64.0	34.3	291.6	407.4	182.3	817.9	1185.2	497.4	1099.3	1599.8	746.9
Italy (8 of 20 regions)	131.9	178.1	88.1	3.1	4.4	1.7	33.5	42.5	24.3	118.1	162.9	75.1	325.7	470.9	196.1	438.3	693.5	269.9
Kosovo	133.9	161.2	106.2	3.1	6.0	0	29.4	34.1	24.8	347.1	412.4	283.7	872.3	949.5	799.0	1057.4	1879.9	421.7
Latvia	103.4	140.6	71.8	3.2	0	6.6	34.3	39.8	28.7	175.2	259.1	103.8	242.3	287.2	215.2	188.8	518.9	62.9
Lithuania	112.0	137.2	90.5	0	0	0	57.1	69.7	44.3	157.4	198.4	122.7	210.9	326.9	140.4	294.5	493.8	211.3
North Macedonia	137.0	158.6	115.2	3.4	3.3	3.5	42.0	59.1	24.2	276.3	324.4	229.4	417.8	573.5	282.1	823.5	862.1	794.9
Poland																		
Portugal	218.1																	
Russia																		
Slovakia †	148.2	194.6	104.1	4.5	0	9.2	48.8	58.1	39.0	209.1	288.3	133.2	539.4	825.5	325.1	406.3	707.5	257.0
Spain																		
Tunisia, Sfax region †	208.2	264.5	152.6	6.1	0	19.9	62.2	97.5	66.0	363.0	516.0	214.1	1050.6	1352.3	763.6	1277.1	1598.1	989.9
Turkey																		
Ukraine	25.6																	

When cells are left empty, the data are unavailable

† Data include dialysis patients only

Table C.3.3
Sex, mean age, and median age of incident patients
at day 91

	All						Men						Women					
	%	Mean (years)	SD	Median (years)	P25	P75	%	Mean (years)	SD	Median (years)	P25	P75	%	Mean (years)	SD	Median (years)	P25	P75
Albania	100	51.9	15.1	53.5	28.7	75.9	64.4	55.1	15.1	55.8	26.8	76.6	35.6	48.7	14.7	49.2	26.2	73.7
Belarus	100						55.4						44.6					
Bulgaria	100						55.3						44.7					
Croatia	100	67.5	12.4	69.0	61.0	77.0	64.0	67.1	12.1	69.0	60.5	76.0	36.0	68.3	13.0	71.5	61.0	78.0
Cyprus	100	67.6	12.6	69.0	60.0	77.0	69.9	67.9	12.6	69.0	61.5	77.5	30.1	66.9	12.6	66.5	57.2	75.0
Czech Republic																		
Georgia	100	56.8	14.5	54.4	47.3	64.7	67.7	57.6	14.7	55.3	47.6	65.9	32.3	55.1	14.1	52.2	46.3	62.7
Israel	100	65.2	16.7	67.9	57.5	76.8	65.1	64.9	16.4	67.4	57.3	76.1	34.9	65.7	17.3	68.9	57.9	77.9
Italy (8 of 20 regions)	100	68.4	14.9	71.3	59.9	79.1	65.7	68.1	14.9	71.0	59.7	78.8	34.3	68.9	15.1	71.9	60.1	79.8
Kosovo	100	62.4	13.9	63.0	56.3	72.0	60.6	62.7	14.3	63.0	57.0	74.0	39.4	61.9	13.9	63.0	56.0	70.0
Latvia	100	60.2	15.2	61.0	51.0	71.3	62.5	60.5	15.1	61.0	50.0	73.0	37.5	59.8	15.3	63.0	53.0	71.0
Lithuania	100	61.3	16.2	61.7	51.1	75.6	56.4	60.2	16.2	61.5	50.0	72.2	43.6	62.8	16.1	63.2	52.8	78.0
North Macedonia	100	60.9	14.6	62.0	52.0	72.0	58.1	59.4	14.3	61.0	51.0	70.0	41.9	63.0	14.7	63.0	56.0	75.0
Poland																		
Portugal																		
Russia																		
Slovakia †	100	61.3	14.2	64.0	54.0	71.0	64.0	61.6	13.4	64.0	55.0	71.0	36.0	60.9	15.7	65.0	52.7	72.0
Spain																		
Tunisia, Sfax region †	100	61.0	16.4	63.5	51.0	73.3	63.1	61.9	14.6	63.5	51.8	72.3	36.9	59.5	19.2	63.5	50.0	74.0
Turkey																		
Ukraine																		

Categories may not add up because of missing values or rounding off

When cells are left empty, the data are unavailable

† Data include dialysis patients only

Table C.3.4
Incidence per million population, adjusted
at day 91, adjusted for age and sex

	All	Men	Women
	Pmp	Pmp	Pmp
Albania	81.5	105.2	57.9
Belarus			
Bulgaria			
Croatia	129.0	178.9	81.5
Cyprus	232.8	327.1	142.8
Czech Republic			
Georgia	200.0	290.4	113.9
Israel	279.7	366.9	196.6
Italy (8 of 20 regions)	115.1	153.6	78.3
Kosovo	297.2	350.6	246.2
Latvia	106.8	148.3	67.3
Lithuania	113.6	144.9	83.8
North Macedonia	210.4	228.5	193.1
Poland			
Portugal			
Russia			
Slovakia †	145.3	182.9	109.5
Spain			
Tunisia, Sfax region †	317.7	399.7	239.6
Turkey			
Ukraine			

Categories may not add up because of rounding off

When cells are left empty, the data are unavailable

† Data include dialysis patients only

Table C.3.5
Incidence per million population and percentages by primary renal disease, unadjusted
at day 91

	All		GN		PN		PKD		DM						HT		RVD		Misc		Unkn		Missing	
	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Type 1		Type 2		Both		Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%
									Pmp	%	Pmp	%	Pmp	%										
Albania	83.9	100	14.0	16.7	13.0	15.5	3.5	4.2	0.7	0.8	15.8	18.8	16.5	19.7	8.8	10.5	1.1	1.3	10.9	13.0	11.2	13.4	4.9	5.9
Belarus	75.6	100	19.8	26.2	4.6	6.1	5.6	7.4	5.2	6.8	11.2	14.8	16.3	21.6	9.7	12.8	2.6	3.5	17.0	22.4	0	0	0	0
Bulgaria	145.5	100	20.3	13.9	12.1	8.3	11.6	8.0					38.4	26.4	22.6	15.5	16.6	11.4	17.2	11.8	4.0	2.7	2.8	1.9
Croatia	163.8	100	18.0	11.0	8.9	5.4	2.4	1.5	4.6	2.8	40.9	25.0	45.5	27.8	23.2	14.1	4.0	2.5	42.6	26.0	19.1	11.7	0	0
Cyprus	223.4	100	28.9	13.0	8.1	3.6	16.2	7.3	1.2	0.5	83.3	37.3	84.5	37.8	30.1	13.5	1.2	0.5	25.5	11.4	28.9	13.0	0	0
Czech Republic																								
Georgia	169.3	100	3.8	2.2	16.1	9.5	14.0	8.2	11.8	7.0	25.8	15.2	37.6	22.2	20.7	12.2	8.3	4.9	7.0	4.1	59.3	35.0	2.7	1.6
Israel	183.4	100	12.9	7.0	3.2	1.8	3.9	2.1	8.6	4.7	76.6	41.7	85.2	46.4	19.7	10.8	1.6	0.9	19.1	10.4	27.8	15.1	10.1	5.5
Italy (8 of 20 regions)	131.9	100	17.4	13.2	6.1	4.6	8.2	6.3					24.7	18.7	21.8	16.5	4.9	3.7	13.3	10.0	32.3	24.5	3.2	2.5
Kosovo	133.9	100	3.6	2.7	45.6	34.1	5.9	4.4	2.4	1.8	40.9	30.5	43.3	32.3	27.3	20.4	1.2	0.9	7.1	5.3	0	0	0	0
Latvia	103.4	100	19.4	18.8	9.0	8.8	7.8	7.5	3.9	3.8	10.3	10.0	14.2	13.8	11.0	10.6	0	0	19.4	18.8	22.6	21.9	0	0
Lithuania	112.0	100	20.4	18.2	12.6	11.3	8.1	7.2					15.8	14.1	24.6	21.9	1.8	1.6	25.3	22.6	3.5	3.1	0	0
North Macedonia	137.0	100	13.8	10.1	9.4	6.9	9.9	7.2	1.0	0.7	33.1	24.2	34.1	24.9	42.5	31.0	0	0	7.9	5.8	19.3	14.1	0	0
Poland																								
Portugal																								
Russia																								
Slovakia †	148.2	100	15.8	10.7	8.3	5.6	6.8	4.6					57.6	38.8	12.5	8.4	6.8	4.6	37.5	25.3	2.9	2.0	0	0
Spain																								
Tunisia, Sfax region † §	208.2	100	19.2	9.2	28.3	13.6	9.1	4.4					59.6	28.6			9.1	4.4	0	0	82.9	39.8	0	0
Turkey																								
Ukraine +	25.6	100	7.5	29.3	3.6	14.1	2.7	10.5	2.7	10.5	3.7	14.4	6.4	24.9	2.1	8.2			3.2	12.5	0.1	0.6	0	0

Abbreviations used: GN: glomerulonephritis/sclerosis; PN: pyelonephritis; PKD: polycystic kidneys, adult type; DM: diabetes mellitus; HT: hypertension; RVD: renal vascular disease; Misc: miscellaneous; Unkn: unknown
Categories may not add up because of rounding off

When cells are left empty, the data are unavailable

† Data include dialysis patients only

+ Renal vascular disease is not reported separately, but is included into miscellaneous

§ Hypertension is not reported separately, but is included into renal vascular disease

C3 INCIDENT PATIENTS ACCEPTED FOR RRT IN 2017, AT DAY 91

Table C.3.6
Incident counts by treatment modality
at day 91

	All	Haemodialysis						Peritoneal dialysis				Kidney transplant				Missing
		HD hospital/ centre	HD home	HD type Unkn	HF	HDF	Total HD/ HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx	
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Albania	239	225	0	0	0	0	225	0	3	0	3	6	0	0	6	5
Belarus	718	558	0	0	3	50	611	11	80	0	91	1	15	0	16	0
Bulgaria	1026	858	0	0	0	130	988	8	9	0	17	2	3	0	5	16
Croatia	608	371	0	0	0	145	516	23	54	0	77	5	10	0	15	0
Cyprus	193	104	0	0	0	57	161	7	24	0	31	1	0	0	1	0
Czech Republic																
Georgia	631	598	0	0	0	0	598	29	0	0	29	0	0	0	0	4
Israel	1598	1314	0	0	0	31	1345	18	149	1	168	71	4	10	85	0
Italy (8 of 20 regions)	3503	2582	10	3	27	269	2891	260	300	0	560	15	22	15	52	0
Kosovo	226	218	0	0	0	0	218	0	0	0	0	8	0	0	8	0
Latvia	160	119	0	0	0	0	119			38	38	2	1	0	3	0
Lithuania	319	301	0	0	0	0	301			16	16			2	2	0
North Macedonia	277	269	0	0	0	0	269	0	1	0	1	7	0	0	7	0
Poland																
Portugal #	2249	1995	0	0	0	0	1995			223	223	31	0	0	31	0
Russia																
Slovakia †	806	226	0	0	0	549	775	13	18	0	31					0
Spain																
Tunisia, Sfax region †	206	202	0	0	0	0	202	3	1	0	4					0
Turkey																
Ukraine	1086	731	249	0	0	0	980	9	97	0	106	0	0	0	0	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
 When cells are left empty, the data are unavailable
 # Only pre-emptive transplantations (at day 1) are included
 † Data include dialysis patients only

C3 INCIDENT PATIENTS ACCEPTED FOR RRT IN 2017, AT DAY 91

Table C.3.7
Incidence per million population by treatment modality, unadjusted
at day 91

	Incidence per million population by treatment modality, unadjusted at day 91															
	All	Haemodialysis						Peritoneal dialysis				Kidney transplant				Missing
	Pmp	HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx	Pmp
Albania	83.9	79.0	0	0	0	0	79.0	0	1.1	0	1.1	2.1	0	0	2.1	1.8
Belarus	75.6	58.8	0	0	0.3	5.3	64.4	1.2	8.4	0	9.6	0.1	1.6	0	1.7	0
Bulgaria	145.5	121.7	0	0	0	18.4	140.1	1.1	1.3	0	2.4	0.3	0.4	0	0.7	2.3
Croatia	163.8	99.9	0	0	0	39.1	139.0	6.2	14.5	0	20.7	1.3	2.7	0	4.0	0
Cyprus	223.4	120.4	0	0	0	66.0	186.3	8.1	27.8	0	35.9	1.2	0	0	1.2	0
Czech Republic																
Georgia	169.3	160.5	0	0	0	0	160.5	7.8	0	0	7.8	0	0	0	0	1.1
Israel	183.4	150.8	0	0	0	3.6	154.4	2.1	17.1	0.1	19.3	8.1	0.5	1.1	9.8	0
Italy (8 of 20 regions)	131.9	97.2	0.4	0.1	1.0	10.1	108.9	9.8	11.3	0	21.1	0.6	0.8	0.6	2.0	0
Kosovo	133.9	129.2	0	0	0	0	129.2	0	0	0	0	4.7	0	0	4.7	0
Latvia	103.4	76.9	0	0	0	0	76.9			24.6	24.6	1.3	0.6	0	1.9	0
Lithuania	112.0	105.7	0	0	0	0	105.7			5.6	5.6			0.7	0.7	0
North Macedonia	137.0	133.0	0	0	0	0	133.0	0	0.5	0	0.5	3.5	0	0	3.5	0
Poland																
Portugal #	218.1	193.5	0	0	0	0	193.5			21.6	21.6	3.0	0	0	3.0	0
Russia																
Slovakia †	148.2	41.6	0	0	0	101.0	142.5	2.4	3.3	0	5.7					0
Spain																
Tunisia, Sfax region †	208.2	204.1	0	0	0	0	204.1	3.0	1.0	0	4.0					0
Turkey																
Ukraine	25.6	17.2	5.9	0	0	0	23.1	0.2	2.3	0	2.5	0	0	0	0	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
Categories may not add up because of rounding off
When cells are left empty, the data are unavailable
Only pre-emptive transplantations (at day 1) are included
† Data include dialysis patients only

Table C.3.8
Treatment modality distribution, unadjusted
at day 91

	All	Haemodialysis						Peritoneal dialysis				Kidney transplant				Missing
		HD hospital/ centre	HD home	HD type Unkn	HF	HDF	Total HD/ HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	
Albania	100	94.1	0	0	0	0	94.1	0	1.3	0	1.3	2.5	0	0	2.5	2.1
Belarus	100	77.7	0	0	0.4	7.0	85.1	1.5	11.1	0	12.7	0.1	2.1	0	2.2	0
Bulgaria	100	83.6	0	0	0	12.7	96.3	0.8	0.9	0	1.7	0.2	0.3	0	0.5	1.6
Croatia	100	61.0	0	0	0	23.8	84.9	3.8	8.9	0	12.7	0.8	1.6	0	2.5	0
Cyprus	100	53.9	0	0	0	29.5	83.4	3.6	12.4	0	16.1	0.5	0	0	0.5	0
Czech Republic																
Georgia	100	94.8	0	0	0	0	94.8	4.6	0	0	4.6	0	0	0	0	0.6
Israel	100	82.2	0	0	0	1.9	84.2	1.1	9.3	0.1	10.5	4.4	0.3	0.6	5.3	0
Italy (8 of 20 regions)	100	73.7	0.3	0.1	0.8	7.7	82.5	7.4	8.6	0	16.0	0.4	0.6	0.4	1.5	0
Kosovo	100	96.5	0	0	0	0	96.5	0	0	0	0	3.5	0	0	3.5	0
Latvia	100	74.4	0	0	0	0	74.4			23.8	23.8	1.3	0.6	0	1.9	0
Lithuania	100	94.4	0	0	0	0	94.4			5.0	5.0			0.6	0.6	0
North Macedonia	100	97.1	0	0	0	0	97.1	0	0.4	0	0.4	2.5	0	0	2.5	0
Poland																
Portugal #	100	88.7	0	0	0	0	88.7			9.9	9.9	1.4	0	0	1.4	0
Russia																
Slovakia †	100	28.0	0	0	0	68.1	96.2	1.6	2.2	0	3.8					0
Spain																
Tunisia, Sfax region †	100	98.1	0	0	0	0	98.1	1.5	0.5	0	1.9					0
Turkey																
Ukraine	100	67.3	22.9	0	0	0	90.2	0.8	8.9	0	9.8	0	0	0	0	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
 Categories may not add up because of rounding off
 When cells are left empty, the data are unavailable
 # Only pre-emptive transplantations (at day 1) are included
 † Data include dialysis patients only

Table C.4.1
Prevalent counts and percentages by age and sex
prevalent patients on December 31

	All			0-19						20-44						45-64						65-74						75+					
	All	Men	Women	All		Men		Women		All		Men		Women		All		Men		Women		All		Men		Women							
	N (100%)	N (100%)	N (100%)	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%						
Albania	1557	985	572	15	1	9	1	6	1	564	36	348	35	216	38	691	44	438	44	253	44	248	16	168	17	80	14	39	3	22	2	17	3
Belarus	4295	2196	2099	84	2	43	2	41	2	1414	33	741	34	673	32	1963	46	1029	47	934	44	655	15	306	14	349	17	179	4	77	4	102	5
Bulgaria	4421	2213	2208																														
Croatia	4635	2754	1881	14	0	9	0	5	0	372	8	225	8	147	8	1583	34	1028	37	555	30	1288	28	782	28	506	27	1378	30	710	26	668	36
Cyprus																																	
Czech Republic ‡	11666			4	0					720	6					2302	20					2233	19					1509	13				
Georgia	2972	1938	1034	16	1	11	1	5	0	348	12	226	12	122	12	1422	48	923	48	499	48	819	28	521	27	298	29	367	12	257	13	110	11
Israel †	6692	4129	2563	56	1	29	1	27	1	523	8	336	8	187	7	2142	32	1391	34	751	29	1915	29	1187	29	728	28	2056	31	1186	29	870	34
Italy (8 of 20 regions)	30191	19191	11000	436	1	266	1	170	2	4099	14	2580	13	1519	14	10743	36	6829	36	3914	36	7131	24	4623	24	2508	23	7782	26	4893	25	2889	26
Kosovo	539	298	241	9	2	4	1	5	2	49	9	32	11	17	7	185	34	109	37	76	32	171	32	77	26	94	39	125	23	76	26	49	20
Latvia	1058	566	492	11	1	6	1	5	1	204	19	114	20	90	18	491	46	274	48	217	44	226	21	112	20	114	23	126	12	60	11	66	13
Lithuania	2268																																
North Macedonia	1761	1048	713	9	1	5	0	4	1	256	15	159	15	97	14	852	48	534	51	318	45	396	22	207	20	189	27	248	14	143	14	105	15
Poland	30278																																
Portugal	20259	12295	7964																														
Russia	47486	25364	22122	1096	2	678	3	418	2	10333	22	6130	24	4203	19	22903	48	12186	48	10717	48	10442	22	5013	20	5429	25	2712	6	1357	5	1355	6
Slovakia †	3559	2100	1459	8	0	3	0	5	0	347	10	207	10	140	10	1261	35	833	40	428	29	1227	34	722	34	505	35	716	20	335	16	381	26
Spain	59810	38046	21764	330	1	210	1	120	1	8994	15	5546	15	3448	16	23205	39	14945	39	8260	38	14559	24	9483	25	5076	23	12722	21	7862	21	4860	22
Tunisia, Sfax region †	1007	582	425	9	1	2	0	7	2	196	19	121	21	75	18	407	40	249	43	158	37	209	21	119	20	90	21	186	18	91	16	95	22
Turkey	77311	33402	25233	443	1	234	1	209	1	7788	10	4698	14	3090	12	24097	31	14576	44	9521	38	15850	21	8638	26	7212	29	10457	14	5256	16	5201	21
Ukraine #	8904	5016	3888	101	1					3304	37					4157	47					1130	13					212	2				

Categories may not add up because of missing values or rounding off

When cells are left empty, the data are unavailable

‡ Data per age category include dialysis patients only (total N=6768)

† Data include dialysis patients only

|| Data on age are available for 58635 dialysis patients (75.8%, total N=77311)

Data presented in the column 0-19 refer to patients aged 18-19 years

Table C.4.2
Prevalence per million (age-related) population by age and sex, unadjusted
prevalent patients on December 31

	All			0-19			20-44			45-64			65-74			75+		
	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women	All	Men	Women
	Pmp	Pmp	Pmp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp
Albania	546.8	684.8	406.0	20.4	23.7	16.8	566.3	678.6	447.1	929.4	1195.7	670.7	1123.3	1542.7	715.1	259.2	313.0	212.0
Belarus	452.5	496.6	414.0	41.0	40.8	41.2	420.5	437.2	403.5	737.7	849.7	644.1	847.3	1044.4	727.1	276.7	452.9	213.8
Bulgaria	627.1	646.7	608.6															
Croatia	1248.5	1537.7	978.9	19.0	23.9	14.0	312.2	371.5	250.9	1509.8	2007.4	1034.7	3282.4	4502.0	2313.7	3997.7	5800.7	3004.9
Cyprus																		
Czech Republic ‡	1176.0																	
Georgia	797.6	1085.3	532.8	16.9	22.1	11.1	273.7	355.2	192.1	1470.3	2057.0	962.6	2892.3	4515.1	1776.2	1432.8	2926.1	653.6
Israel †	768.1	955.5	583.6	17.8	18.0	17.6	178.8	228.9	128.3	1304.0	1743.5	889.0	3325.2	4424.2	2366.7	4870.9	6800.5	3512.3
Italy (8 of 20 regions)	1136.8	1485.2	806.6	90.4	107.0	72.8	518.5	644.7	389.2	1370.0	1780.5	977.1	2439.5	3354.0	1623.6	2536.1	4011.2	1562.8
Kosovo	319.4	350.7	287.6	14.0	12.0	16.1	75.8	99.1	52.6	648.7	775.0	525.8	2260.1	2089.0	2422.7	3304.3	4608.9	2296.2
Latvia	683.8	795.8	588.5	35.1	37.1	32.9	412.0	453.8	368.9	1147.2	1392.3	938.6	1441.3	1891.9	1168.0	820.3	1415.1	593.5
Lithuania	796.3																	
North Macedonia	870.9	1032.5	708.0	15.2	16.4	13.9	336.4	408.7	260.8	1868.4	2373.3	1376.6	2712.3	3044.1	2423.1	3647.1	4931.0	2692.3
Poland	787.9																	
Portugal	1965.0	2517.9	1467.5															
Russia	333.3	383.9	289.6	34.6	41.8	27.1	200.6	238.7	162.8	594.7	703.5	505.7	907.9	1162.4	755.2	291.6	536.4	200.2
Slovakia †	654.6	791.9	523.9	7.2	5.2	9.2	169.3	197.1	140.0	867.3	1171.6	576.0	2478.8	3405.7	1784.5	2237.5	3160.4	1780.4
Spain	1284.2	1666.3	916.8	47.4	58.7	35.5	504.8	613.8	392.6	1781.4	2316.7	1256.3	3308.9	4601.2	2170.2	2915.2	4605.7	1829.1
Tunisia, Sfax region †	1017.6	1184.0	853.3	18.3	12.3	46.5	393.5	655.1	380.9	1918.9	2379.1	1470.5	4305.2	5028.7	3617.1	5398.8	5593.5	5224.7
Turkey	956.7	824.0	626.5	17.3	17.8	16.8	248.9	296.5	200.1	1411.8	1708.0	1115.6	3730.1	4376.8	3169.3	3951.7	4959.3	3278.5
Ukraine	209.9	255.3	170.8	12.0			212.7			358.4			316.6			64.3		

When cells are left empty, the data are unavailable

‡ Data per age category include dialysis patients only (total N=6768)

† Data include dialysis patients only

|| Data on age are available for 58635 dialysis patients (75.8%, total N=77311)

Table C.4.3
Sex, mean age, and median age
prevalent patients on December 31

	All						Men						Women					
	%	Mean (years)	SD	Median (years)	P25	P75	%	Mean (years)	SD	Median (years)	P25	P75	%	Mean (years)	SD	Median (years)	P25	P75
Albania	100	49.5	14.9	50.5	25.5	72.6	63.3	52.4	15.1	53.1	27.8	76.6	36.7	46.7	14.8	47.9	23.8	69.7
Belarus	100						51.1						48.9					
Bulgaria	100						50.1						49.9					
Croatia	100	65.7	13.7	67.0	58.0	76.0	59.4	64.9	13.4	66.0	57.0	75.0	40.6	67.0	14.0	69.0	59.0	78.0
Cyprus																		
Czech Republic																		
Georgia	100	59.8	12.9	61.0	52.7	68.8	65.2	59.9	12.8	61.0	52.7	69.0	34.8	59.7	12.9	60.9	52.8	68.4
Israel †	100	66.3	15.0	68.3	58.0	77.3	61.7	65.9	14.9	67.7	57.6	76.9	38.3	66.9	15.2	69.6	59.0	78.0
Italy (8 of 20 regions)	100	62.6	16.9	64.8	51.9	75.4	63.6	62.6	16.8	64.9	52.0	75.2	36.4	62.6	17.2	64.3	51.7	75.6
Kosovo	100	63.2	15.2	66.0	57.0	74.0	55.3	62.7	15.4	65.0	56.0	75.0	44.7	63.8	14.8	67.0	58.0	73.0
Latvia	100	56.4	15.5	58.0	47.0	67.0	53.5	55.3	15.6	56.0	47.0	67.0	46.5	57.6	15.3	59.0	48.0	68.0
Lithuania																		
North Macedonia	100	59.0	14.0	60.0	50.0	69.0	59.5	58.4	13.9	59.0	50.0	69.0	40.5	59.8	14.2	62.0	52.0	69.0
Poland																		
Portugal †	100	67.9		68.4			60.7	54.8					39.3					
Russia	100	54.2	15.9	57.0	43.0	66.0	53.4	53.5	16.1	55.5	43.0	65.0	46.6	55.0	15.7	57.0	44.0	67.0
Slovakia †	100	63.6	13.5	66.0	57.0	73.0	59.0	62.6	13.0	65.0	56.0	71.0	41.0	65.2	14.1	68.0	58.0	75.0
Spain	100	59.5	15.9	62.7	49.9	73.5	63.6	59.6	15.7	62.8	50.0	73.3	36.4	59.4	16.2	62.7	49.5	73.9
Tunisia, Sfax region †	100	58.6	16.3	60.0	47.0	71.0	57.8	57.9	15.8	60.0	46.8	70.0	42.2	59.7	16.9	61.0	48.0	74.0
Turkey																		
Ukraine	100	50.0	13.8	51.0	39.0	61.0	56.3	50.0	13.7	51.0	39.0	61.0	43.7	49.9	13.9	51.0	39.0	61.0

Categories may not add up because of missing values or rounding off
When cells are left empty, the data are unavailable
 † Data include dialysis patients only

Table C.4.4
Prevalence per million population, adjusted
prevalent patients on December 31, adjusted for age and sex

	All	Men	Women
	Pmp	Pmp	Pmp
Albania	520.0	659.0	382.0
Belarus			
Bulgaria			
Croatia	1188.8	1517.7	875.1
Cyprus			
Czech Republic			
Georgia	814.8	1149.7	495.5
Israel †	1191.6	1475.5	920.8
Italy (8 of 20 regions)	1029.0	1331.2	740.8
Kosovo	734.4	789.6	681.7
Latvia	685.3	836.5	541.2
Lithuania			
North Macedonia	1242.2	1471.4	1023.7
Poland			
Portugal			
Russia	358.7	431.8	289.0
Slovakia †	657.0	745.4	572.8
Spain	1190.8	1513.3	862.6
Tunisia, Sfax region †	1469.7	1668.3	1280.3
Turkey			
Ukraine			

When cells are left empty, the data are unavailable

† Data include dialysis patients only

Table C.4.5
Prevalence per million population and percentages by primary renal disease, unadjusted
prevalent patients on December 31

	All		GN		PN		PKD		DM						HT		RVD		Misc		Unkn		Missing	
									Type 1		Type 2		Both											
	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%
Albania	546.8	100	76.2	13.9	131.7	24.1	40.7	7.5	11.6	2.1	104.7	19.1	116.3	21.3	41.1	7.5	13.3	2.4	62.9	11.5	54.4	10.0	10.2	1.9
Belarus	452.5	100	185.0	40.9	31.0	6.8	44.0	9.7	23.8	5.3	38.7	8.5	62.5	13.8	32.2	7.1	29.1	6.4	67.3	14.9	0.7	0.2	0.6	0.1
Bulgaria																								
Croatia	1248.5	100	142.8	11.4	95.6	7.7	56.6	4.5	17.0	1.4	230.6	18.5	247.5	19.8	160.3	12.8	29.4	2.4	353.9	28.3	162.4	13.0	0	0
Cyprus																								
Czech Republic																								
Georgia	797.6	100	83.2	10.4	71.7	9.0	55.6	7.0	30.3	3.8	128.0	16.0	158.3	19.9	95.8	12.0	30.6	3.8	29.3	3.7	270.0	33.8	3.2	0.4
Israel †	768.1	100	70.1	9.1	21.1	2.7	28.5	3.7	79.9	10.4	279.6	36.4	359.5	46.8	79.3	10.3	15.3	2.0	85.4	11.1	105.7	13.8	3.2	0.4
Italy (8 of 20 regions)	1136.8	100	230.8	20.3	69.7	6.1	105.5	9.3					147.6	13.0	149.7	13.2	37.2	3.3	99.0	8.7	222.2	19.5	75.2	6.6
Kosovo	319.4	100	5.9	1.9	82.9	26.0	7.1	2.2	3.6	1.1	90.7	28.4	94.2	29.5	37.3	11.7	1.2	0.4	45.6	14.3	45.0	14.1	0	0
Latvia	683.8	100	212.6	31.1	91.1	13.3	87.9	12.9	31.0	4.5	34.9	5.1	65.9	9.6	75.6	11.1	2.6	0.4	113.1	16.5	34.9	5.1	0	0
Lithuania																								
North Macedonia	870.9	100	146.9	16.9	79.1	9.1	82.1	9.4	15.8	1.8	132.5	15.2	148.4	17.0	220.6	25.3	1.0	0.1	70.2	8.1	122.7	14.1	0	0
Poland	787.9	100	95.6	12.1	54.0	6.9	38.5	4.9					135.3	17.2	81.3	10.3	1.4	0.2	68.0	8.6	31.4	4.0	282.3	35.8
Portugal + & □	1965.0	100	156.2	7.9			75.2	3.8					340.5	17.3	162.1	8.2			250.3	12.7	232.8	11.8	18.7	1.0
Russia	333.3	100	135.3	40.6	35.7	10.7	36.0	10.8	19.7	5.9	27.3	8.2	47.0	14.1	20.0	6.0	4.7	1.4	48.3	14.5	6.3	1.9	0	0
Slovakia †	654.6	100	84.6	12.9	71.5	10.9	38.6	5.9					216.5	33.1	69.3	10.6	25.7	3.9	138.9	21.2	9.4	1.4	0	0
Spain ¶	1284.2	100	259.7	20.2	128.4	10.0	130.1	10.1					208.6	16.2	131.7	10.3			164.0	12.8	261.8	20.4	0	0
Tunisia, Sfax region † §	1017.6	100	140.5	13.8	181.9	17.9	69.7	6.9					213.2	21.0			33.3	3.3	3.0	0.3	375.9	36.9	0	0
Turkey ‡	956.7	100	6.2	0.6	1.2	0.1	3.9	0.4	2.0	0.2	27.3	2.9	29.3	3.1	23.7	2.5	0.7	0.1	9.4	1.0	10.7	1.1	871.5	91.1
Ukraine +	209.9	100	86.6	41.3	30.1	14.3	22.4	10.7	21.5	10.3	10.5	5.0	32.0	15.3	11.2	5.3			21.6	10.3	0.6	0.3	5.3	2.5

Abbreviations used: GN: glomerulonephritis/sclerosis; PN: pyelonephritis; PKD: polycystic kidneys, adult type; DM: diabetes mellitus; HT: hypertension; RVD: renal vascular disease; Misc: miscellaneous; Unkn: unknown
When cells are left empty, the data are unavailable

† Data include dialysis patients only

+ Renal vascular disease is not reported separately, but is included into miscellaneous

& Pyelonephritis is not reported separately, but is included into miscellaneous

□ Data on primary renal disease are available for dialysis patients only (62.9%, total N=20259)

¶ Renal vascular disease is not reported separately, but is included into hypertension

§ Hypertension is not reported separately, but is included into renal vascular disease

‡ Data on primary renal disease are available for 6888 dialysis patients (8.9%, total N=77311)

Table C.4.6
Prevalent counts by treatment modality
prevalent patients on December 31

	All	Haemodialysis						Peritoneal dialysis				Kidney transplant				Missing
		HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx	
		N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Albania	1557	1211	0	0	0	0	1211	48	0	0	48	216	46	14	276	22
Belarus	4295	1954	0	0	0	235	2189	16	307	0	323	96	1687	0	1783	0
Bulgaria	4421	3484	0	0	0	143	3627	44	92	0	136	121	497	40	658	0
Croatia	4635	2050	0	0	0	451	2501	71	168	0	239	23	1861	7	1891	4
Cyprus																
Czech Republic	11666		22	1481		4860	6373			395	395			4898	4898	0
Georgia	2972	2506	0	0	0	0	2506	91	0	0	91	366	3	2	371	4
Israel †	6692	5939	2	0	0	293	6234	171	286	1	458					0
Italy (8 of 20 regions)	30191	12617	93	141	291	3785	16927	1148	1017	6	2171	5418	5675	0	11093	0
Kosovo	539	524	0	0	0	0	524	0	1	0	1	14	0	0	14	0
Latvia	1058	384	0	0	0	0	384			98	98			576	576	0
Lithuania	2268	1340	0	0	0	0	1340	30	23	0	53			875	875	0
North Macedonia	1761	1520	1	0	0	0	1521	0	22	0	22	202	16	0	218	0
Poland	30278	18452	0	0	0	0	18452	472	654	0	1126			10700	10700	0
Portugal	20259	323	0	0	5166	6496	11985	316	440	0	756	699	6819	0	7518	0
Russia	47486	34074	0	0	0	1822	35896	126	2295	0	2421	1450	5992	1727	9169	0
Slovakia †	3559	692	0	0	0	2793	3485	37	37	0	74					0
Spain	59810			24522			24522			3107	3107			32181	32181	0
Tunisia, Sfax region	1176	965	0	0	0	0	965	16	26	0	42			169	169	0
Turkey	77311	55579	414	769	6	1867	58635	2267	1079	0	3346	0	0	15330	15330	0
Ukraine	8904	4961	0	0	0	1798	6759	80	806	0	886	816	352	91	1259	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
 When cells are left empty, the data are unavailable

† Data include dialysis patients only

Table C.4.7
Prevalence per million population by treatment modality, unadjusted
prevalent patients on December 31

	All	Haemodialysis						Peritoneal dialysis				Kidney transplant				Missing
		HD hospital/ centre	HD home	HD type Unkn	HF	HDF	Total HD/ HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx	
	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp
Albania	546.8	425.3	0	0	0	0	425.3	16.9	0	0	16.9	75.9	16.2	4.9	96.9	7.7
Belarus	452.5	205.9	0	0	0	24.8	230.6	1.7	32.3	0	34.0	10.1	177.7	0	187.8	0
Bulgaria	627.1	494.2	0	0	0	20.3	514.5	6.2	13.0	0	19.3	17.2	70.5	5.7	93.3	0
Croatia	1248.5	552.2	0	0	0	121.5	673.7	19.1	45.3	0	64.4	6.2	501.3	1.9	509.4	1.1
Cyprus																
Czech Republic	1176.0		2.2	149.3			489.9			39.8	39.8			493.7	493.7	0
Georgia	797.6	672.5	0	0	0	0	672.5	24.4	0	0	24.4	98.2	0.8	0.5	99.6	1.1
Israel †	768.1	681.6	0.2	0	0	33.6	715.5	19.6	32.8	0.1	52.6					0
Italy (8 of 20 regions)	1136.8	475.1	3.5	5.3	11.0	142.5	637.3	43.2	38.3	0.2	81.7	204.0	213.7	0	417.7	0
Kosovo	319.4	310.5	0	0	0	0	310.5	0	0.6	0	0.6	8.3	0	0	8.3	0
Latvia	683.8	248.2	0	0	0	0	248.2			63.3	63.3			372.3	372.3	0
Lithuania	796.3	470.5	0	0	0	0	470.5	10.5	8.1	0	18.6			307.2	307.2	0
North Macedonia	870.9	751.7	0.5	0	0	0	752.2	0	10.9	0	10.9	99.9	7.9	0	107.8	0
Poland	787.9	480.1	0	0	0	0	480.1	12.3	17.0	0	29.3			278.4	278.4	0
Portugal	1965.0	31.3	0	0	501.1	630.1	1162.5	30.6	42.7	0	73.3	67.8	661.4	0	729.2	0
Russia	333.3	239.2	0	0	0	12.8	252.0	0.9	16.1	0	17.0	10.2	42.1	12.1	64.4	0
Slovakia †	654.6	127.3	0	0	0	513.7	641.0	6.8	6.8	0	13.6					0
Spain	1284.2			526.5			526.5			66.7	66.7			691.0	691.0	0
Tunisia, Sfax region	1017.6	975.1	0	0	0	0	975.1	16.2	26.3	0	42.4				170.8	0
Turkey	956.7	687.8	5.1	9.5	0.1	23.1	725.6	28.1	13.4	0	41.4	0	0	189.7	189.7	0
Ukraine	209.9	117.0	0	0	0	42.4	159.4	1.9	19.0	0	20.9	19.2	8.3	2.1	29.7	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
 Categories may not add up because of rounding off
 When cells are left empty, the data are unavailable
 † Data include dialysis patients only

Table C.4.8
Treatment modality distribution, unadjusted
prevalent patients on December 31

	All	Haemodialysis						Peritoneal dialysis				Kidney transplant				Missing
		HD hospital/centre	HD home	HD type Unkn	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD type Unkn	Total PD	Living donor	Deceased donor	Tx type Unkn	Total Tx	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	
Albania	100	77.8	0	0	0	0	77.8	3.1	0	0	3.1	13.9	3.0	0.9	17.7	1.4
Belarus	100	45.5	0	0	0	5.5	51.0	0.4	7.1	0	7.5	2.2	39.3	0	41.5	0
Bulgaria	100	78.8	0	0	0	3.2	82.0	1.0	2.1	0	3.1	2.7	11.2	0.9	14.9	0
Croatia	100	44.2	0	0	0	9.7	54.0	1.5	3.6	0	5.2	0.5	40.2	0.2	40.8	0.1
Cyprus	100															
Czech Republic	100		0.2	12.7			41.7			3.4	3.4			42.0	42.0	0
Georgia	100	84.3	0	0	0	0	84.3	3.1	0	0	3.1	12.3	0.1	0.1	12.5	0.1
Israel †	100	88.7	0	0	0	4.4	93.2	2.6	4.3	0	6.8					0
Italy (8 of 20 regions)	100	41.8	0.3	0.5	1.0	12.5	56.1	3.8	3.4	0	7.2	17.9	18.8	0	36.7	0
Kosovo	100	97.2	0	0	0	0	97.2	0	0.2	0	0.2	2.6	0	0	2.6	0
Latvia	100	36.3	0	0	0	0	36.3			9.3	9.3			54.4	54.4	0
Lithuania	100	59.1	0	0	0	0	59.1	1.3	1.0	0	2.3			38.6	38.6	0
North Macedonia	100	86.3	0.1	0	0	0	86.4	0	1.2	0	1.2	11.5	0.9	0	12.4	0
Poland	100	60.9	0	0	0	0	60.9	1.6	2.2	0	3.7			35.3	35.3	0
Portugal	100	1.6	0	0	25.5	32.1	59.2	1.6	2.2	0	3.7	3.5	33.7	0	37.1	0
Russia	100	71.8	0	0	0	3.8	75.6	0.3	4.8	0	5.1	3.1	12.6	3.6	19.3	0
Slovakia †	100	19.4	0	0	0	78.5	97.9	1.0	1.0	0	2.1					0
Spain	100			41.0			41.0			5.2	5.2			53.8	53.8	0
Tunisia, Sfax region	100	82.1	0	0	0	0	82.1	1.4	2.2	0	3.6				14.4	0
Turkey	100	71.9	0.5	1.0	0	2.4	75.8	2.9	1.4	0	4.3	0	0	19.8	19.8	0
Ukraine	100	55.7	0	0	0	20.2	75.9	0.9	9.1	0	10.0	9.2	4.0	1.0	14.1	0

Abbreviations used: HD: haemodialysis; Unkn: unknown; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant
 Categories may not add up because of rounding off
 When cells are left empty, the data are unavailable
 † Data include dialysis patients only

Table C.5.1
Kidney transplant counts and percentages by donor type

	All		Living donor						Deceased donor		Donor type Unkn			
	N	%	Related		Unrelated		Type Unkn		All		N	%	N	%
			N	%	N	%	N	%	N	%				
Albania	25	100	25	100	0	0	0	0	25	100	0	0	0	0
Belarus	301	100					7	2.3	7	2.3	294	97.7	0	0
Bulgaria	40	100	8	20.0	0	0	0	0	8	20.0	32	80.0	0	0
Croatia	190	100	5	2.6	0	0	0	0	5	2.6	185	97.4	0	0
Cyprus	17	100	5	29.4	4	23.5	0	0	9	52.9	8	47.1	0	0
Czech Republic	469	100					51	10.9	51	10.9	418	89.1	0	0
Georgia	23	100	20	87.0	0	0	0	0	20	87.0	3	13.0	0	0
Israel	409	100					222	54.3	222	54.3	144	35.2	43	10.5
Italy (8 of 20 regions)	907	100	23	2.5	28	3.1	34	3.7	85	9.4	822	90.6	0	0
Kosovo	10	100	6	60.0	4	40.0	0	0	10	100	0	0	0	0
Latvia	48	100	7	14.6	5	10.4	0	0	12	25.0	36	75.0	0	0
Lithuania	77	100					6	7.8	6	7.8	71	92.2	0	0
North Macedonia	16	100	14	87.5	2	12.5	0	0	16	100	0	0	0	0
Poland	1060	100					56	5.3	56	5.3	1004	94.7	0	0
Portugal	493	100					77	15.6	77	15.6	416	84.4	0	0
Russia	1175	100	201	17.1	0	0	0	0	201	17.1	974	82.9	0	0
Slovakia +	153	100	8	5.2	3	2.0	0	0	11	7.2	142	92.8	0	0
Spain □	3269	100	318	9.7	14	0.4	0	0	332	10.2	2937	89.8	0	0
Tunisia, Sfax region	6	100	3	50.0	3	50.0	0	0	6	100	0	0	0	0
Turkey	3342	100	2359	70.6	290	8.7	0	0	2649	79.3	693	20.7	0	0
Ukraine	112	100	67	59.8	6	5.4	0	0	73	65.2	39	34.8	0	0

Categories may not add up because of rounding off

When cells are left empty, the data are unavailable

+ Data from: Slovak Centre of Organ Transplantation

□ Data from: Organización Nacional de Trasplantes (ONT), 2017 from total Spanish population

Table C.5.2
Kidney transplants per million population by donor type, unadjusted

	All	Living donor			Deceased donor	Donor type Unkn
		Related	Unrelated	Type Unkn	All	
	Pmp	Pmp	Pmp	Pmp	Pmp	Pmp
Albania	8.8	8.8	0	0	8.8	0
Belarus	31.7			0.7	0.7	31.0
Bulgaria	5.7	1.1	0	0	1.1	4.5
Croatia	51.2	1.3	0	0	1.3	49.8
Cyprus	19.7	5.8	4.6	0	10.4	9.3
Czech Republic	47.3			5.1	5.1	42.1
Georgia	6.2	5.4	0	0	5.4	0.8
Israel	46.9			25.5	25.5	16.5
Italy (8 of 20 regions)	34.2	0.9	1.1	1.3	3.2	31.0
Kosovo	5.9	3.6	2.4	0	5.9	0
Latvia	31.0	4.5	3.2	0	7.8	23.3
Lithuania	27.0			2.1	2.1	24.9
North Macedonia	7.9	6.9	1.0	0	7.9	0
Poland	27.6			1.5	1.5	26.1
Portugal	47.8			7.5	7.5	40.3
Russia	8.2	1.4	0	0	1.4	6.8
Slovakia +	28.1	1.5	0.6	0	2.0	26.1
Spain ☐	70.2	6.8	0.3	0	7.1	63.1
Tunisia, Sfax region	6.1	3.0	3.0	0	6.1	0
Turkey	41.4	29.2	3.6	0	32.8	8.6
Ukraine	2.6	1.6	0.1	0	1.7	0.9

Categories may not add up because of rounding off

When cells are left empty, the data are unavailable

+ Data from: Slovak Centre of Organ Transplantation

☐ Data from: Organización Nacional de Trasplantes (ONT), 2017 from total Spanish population

Section D: Paediatric data reference tables

Section D: Paediatric data reference tables

The incidence and prevalence of RRT in paediatric patients are based on data from 24 registries from 16 countries that provided individual patient data on children via the ERA-EDTA Registry, including Austria, Bosnia and Herzegovina, Denmark, Estonia, Finland, France, Greece, Iceland, Norway, Romania, Serbia, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Catalonia), Spain (Community of Madrid), Spain (Extremadura), Spain (Galicia), Spain (Murcia), Sweden, Switzerland, the Netherlands, and United Kingdom (Scotland). In the analyses the data collected between 2012 and 2017 were used. As not all countries provided data over the complete period or had a complete coverage over the entire follow-up and to allow for comparison over the years, data are shown both including and excluding the data from Estonia, Romania, Serbia, Switzerland, and the Netherlands. The methods that were applied to the data on paediatric patients were similar to those applied to the data on adult patients and are described in the Methods section. However, as not all regions in Spain had specialised paediatric centres, non-residents were also included in the incidence and prevalence.

D1 GENERAL POPULATION AGE DISTRIBUTION

Table D.1.1
Population covered (in thousands)
by age and cohort

Cohort	All	0-4	5-9	10-14	15-19
	N	N	N	N	N
2012	34699	8717	8697	8546	8739
2013	34674	8648	8794	8592	8640
2014	34697	8536	8892	8653	8615
2015	34643	8433	8916	8681	8613
2016	34722	8318	8955	8749	8700
2017	34657	8204	8913	8815	8724
2012 *	42765	10651	10682	10613	10819
2013 *	43009	10610	10871	10742	10786
2014 *	42946	10455	10959	10781	10751
2015 *	44469	10742	11373	11175	11179
2016 *	45685	10907	11681	11526	11571
2017 *	45488	10784	11589	11555	11559
2012-2017 *	264362	64150	67154	66393	66665

* Including data from Estonia since 2013, Romania (coverage from 100% in 2012 to 97% in 2017), Serbia since 2016 (coverage 100% in 2016 and 97% in 2017), Switzerland since 2015 (coverage 99.9% in 2015 and 100% in 2016 and 2017), and the Netherlands (coverage 94% for incidence and 96% for prevalence in 2016, 93% for incidence and 97% for prevalence in 2017, and 100% in all other years)

D2 INCIDENT PATIENTS ACCEPTED FOR RRT, AT DAY 1

Table D.2.1
Incident counts by age and cohort
at day 1

Cohort	All	0-4	5-9	10-14	15-19
	N	N	N	N	N
2012-2013	552	110	78	145	219
2014-2015	588	131	85	148	224
2016-2017	612	135	89	153	235
2012-2013 *	664	131	94	172	267
2014-2015 *	716	150	105	170	291
2016-2017 *	787	188	109	190	300
2012-2017 *	2167	469	308	532	858

* Including data from Estonia since 2013, Romania (coverage from 100% in 2012 to 97% in 2017), Serbia since 2016 (coverage 100% in 2016 and 97% in 2017), Switzerland since 2015 (coverage 99.9% in 2015 and 100% in 2016 and 2017), and the Netherlands (coverage 94% in 2016, 93% in 2017, and 100% in all other years)

Table D.2.2
Incident counts by age, treatment modality, and cohort
at day 1

Cohort	All			0-4			5-9			10-14			15-19		
	HD	PD	Tx	HD	PD	Tx	HD	PD	Tx	HD	PD	Tx	HD	PD	Tx
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2012-2013	277	137	128	30	66	11	35	18	25	68	25	47	144	28	45
2014-2015	267	170	143	33	83	12	26	27	32	81	21	42	127	39	57
2016-2017	313	136	160	54	66	15	42	16	29	66	27	60	151	27	56
2012-2013 *	341	157	156	35	78	15	44	20	30	84	27	56	178	32	55
2014-2015 *	349	188	171	39	90	18	38	31	36	99	22	45	173	45	72
2016-2017 *	419	164	200	93	75	20	48	22	37	90	31	68	188	36	75
2012-2017 * †	1109	509	527	167	243	53	130	73	103	273	80	169	539	113	202

* Including data from Estonia since 2013, Romania (coverage from 100% in 2012 to 97% in 2017), Serbia since 2016 (coverage 100% in 2016 and 97% in 2017), Switzerland since 2015 (coverage 99.9% in 2015 and 100% in 2016 and 2017), and the Netherlands (coverage 94% in 2016, 93% in 2017, and 100% in all other years)

† For 22 patients information on treatment modality at start was unavailable

Table D.2.3
Incident counts by age and primary renal disease
between 2012 and 2017, at day 1

	All	0-4	5-9	10-14	15-19
	N	N	N	N	N
CAKUT	651	158	110	176	207
Glomerulonephritis	371	66	50	69	186
Cystic kidney disease	203	42	45	68	48
Hereditary Nephropathy	187	69	19	37	62
Ischaemic Renal Failure	33	7	3	8	15
HUS	60	17	6	12	25
Metabolic disorders	46	8	7	17	14
Vasculitis	35	0	1	11	23
Miscellaneous	252	68	24	42	118
Missing, unknown	329	34	43	92	160

Including data from Estonia since 2013, Romania (coverage from 100% in 2012 to 97% in 2017), Serbia since 2016 (coverage 100% in 2016 and 97% in 2017), Switzerland since 2015 (coverage 99.9% in 2015 and 100% in 2016 and 2017), and the Netherlands (coverage 94% in 2016, 93% in 2017, and 100% in all other years)

D2 INCIDENT PATIENTS ACCEPTED FOR RRT, AT DAY 1

Table D.2.4
Incidence per million age-related population by age and cohort
at day 1

Cohort	All	0-4	5-9	10-14	15-19
	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp
2012-2013	8.0	6.3	4.5	8.5	12.6
2014-2015	8.5	7.7	4.8	8.5	13.0
2016-2017	8.8	8.2	5.0	8.7	13.5
2012-2013 *	7.7	6.2	4.4	8.1	12.4
2014-2015 *	8.2	7.1	4.7	7.7	13.3
2016-2017 *	8.6	8.7	4.7	8.2	13.0
2012-2017 *	8.2	7.3	4.6	8.0	12.9

* Including data from Estonia since 2013, Romania (coverage from 100% in 2012 to 97% in 2017), Serbia since 2016 (coverage 100% in 2016 and 97% in 2017), Switzerland since 2015 (coverage 99.9% in 2015 and 100% in 2016 and 2017), and the Netherlands (coverage 94% in 2016, 93% in 2017, and 100% in all other years)

Table D.2.5
Incidence per million age-related population by age, treatment modality, and cohort
at day 1

Cohort	All			0-4			5-9			10-14			15-19		
	HD	PD	Tx	HD	PD	Tx	HD	PD	Tx	HD	PD	Tx	HD	PD	Tx
	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp
2012-2013	4.0	2.0	1.8	1.7	3.8	0.6	2.0	1.0	1.4	4.0	1.5	2.7	8.3	1.6	2.6
2014-2015	3.9	2.5	2.1	1.9	4.9	0.7	1.5	1.5	1.8	4.7	1.2	2.4	7.4	2.3	3.3
2016-2017	4.5	2.0	2.3	3.3	4.0	0.9	2.4	0.9	1.6	3.8	1.5	3.4	8.7	1.5	3.2
2012-2013 *	4.0	1.8	1.8	1.6	3.7	0.7	2.0	0.9	1.4	3.9	1.3	2.6	8.2	1.5	2.5
2014-2015 *	4.0	2.2	2.0	1.8	4.2	0.8	1.7	1.4	1.6	4.5	1.0	2.0	7.9	2.1	3.3
2016-2017 *	4.6	1.8	2.2	4.3	3.5	0.9	2.1	0.9	1.6	3.9	1.3	2.9	8.1	1.6	3.2
2012-2017 * †	4.2	1.9	2.0	2.6	3.8	0.8	1.9	1.1	1.5	4.1	1.2	2.5	8.1	1.7	3.0

* Including data from Estonia since 2013, Romania (coverage from 100% in 2012 to 97% in 2017), Serbia since 2016 (coverage 100% in 2016 and 97% in 2017), Switzerland since 2015 (coverage 99.9% in 2015 and 100% in 2016 and 2017), and the Netherlands (coverage 94% in 2016, 93% in 2017, and 100% in all other years)

† For 22 patients information on treatment modality at start was unavailable

Table D.2.6
Incidence per million age-related population by age and primary renal disease
between 2012 and 2017, at day 1

	All	0-4	5-9	10-14	15-19
	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp
CAKUT	2.5	2.5	1.6	2.7	3.1
Glomerulonephritis	1.4	1.0	0.7	1.0	2.8
Cystic kidney disease	0.8	0.7	0.7	1.0	0.7
Hereditary Nephropathy	0.7	1.1	0.3	0.6	0.9
Ischaemic Renal Failure	0.1	0.1	0.0	0.1	0.2
HUS	0.2	0.3	0.1	0.2	0.4
Metabolic disorders	0.2	0.1	0.1	0.3	0.2
Vasculitis	0.1	0.0	0.0	0.2	0.3
Miscellaneous	1.0	1.1	0.4	0.6	1.8
Missing, unknown	1.2	0.5	0.6	1.4	2.4

Including data from Estonia since 2013, Romania (coverage from 100% in 2012 to 97% in 2017), Serbia since 2016 (coverage 100% in 2016 and 97% in 2017), Switzerland since 2015 (coverage 99.9% in 2015 and 100% in 2016 and 2017), and the Netherlands (coverage 94% in 2016, 93% in 2017, and 100% in all other years)

D3 PREVALENT PATIENTS ON RRT

Table D.3.1
Prevalent counts by age and cohort
prevalent patients on December 31

Cohort	All	0-4	5-9	10-14	15-19
	N	N	N	N	N
2012	2078	182	349	549	998
2013	2079	171	357	573	978
2014	2064	174	361	585	944
2015	2105	185	365	601	954
2016	2162	189	376	597	1000
2017	2200	177	381	609	1033
2012 *	2434	210	399	645	1180
2013 *	2447	196	407	671	1173
2014 *	2429	193	426	671	1139
2015 *	2461	207	432	687	1135
2016 *	2592	211	464	704	1213
2017 *	2718	235	462	727	1294

* Including data from Estonia since 2013, Romania (coverage from 100% in 2012 to 97% in 2017), Serbia since 2016 (coverage 100% in 2016 and 97% in 2017), Switzerland since 2015 (coverage 99.9% in 2015 and 100% in 2016 and 2017), and the Netherlands (coverage 96% in 2016, 97% in 2017, and 100% in all other years)

Table D.3.2
Prevalent counts by age, treatment modality, and cohort
prevalent patients on December 31

Cohort	All			0-4			5-9			10-14			15-19		
	HD	PD	Tx	HD	PD	Tx	HD	PD	Tx	HD	PD	Tx	HD	PD	Tx
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2012	291	145	1596	36	65	77	37	25	280	56	23	460	162	32	779
2013	293	141	1605	33	52	80	36	25	291	57	26	480	167	38	754
2014	270	132	1630	33	58	77	31	27	299	64	18	494	142	29	760
2015	285	139	1655	35	60	87	46	28	288	73	22	497	131	29	783
2016	286	154	1695	41	61	84	51	22	299	57	35	494	137	36	818
2017	282	148	1752	37	51	89	46	28	306	66	34	505	133	35	852
2012 *	368	191	1829	42	75	89	43	32	317	65	37	533	218	47	890
2013 *	393	181	1833	40	60	90	44	34	324	77	35	549	232	52	870
2014 *	376	172	1849	36	60	91	46	38	338	83	25	554	211	49	866
2015 *	378	179	1878	38	67	99	61	37	331	95	28	555	184	47	893
2016 *	388	201	1976	48	68	92	65	32	363	86	45	562	189	56	959
2017 *	417	203	2079	69	67	99	56	36	369	95	42	585	197	58	1026

* Including data from Estonia since 2013, Romania (coverage from 100% in 2012 to 97% in 2017), Serbia since 2016 (coverage 100% in 2016 and 97% in 2017), Switzerland since 2015 (coverage 99.9% in 2015 and 100% in 2016 and 2017), and the Netherlands (coverage 96% in 2016, 97% in 2017, and 100% in all other years)

Table D.3.3
Prevalent counts by age and primary renal disease
prevalent patients on December 31, 2017

	All	0-4	5-9	10-14	15-19
	N	N	N	N	N
CAKUT	936	77	171	260	428
Glomerulonephritis	396	33	63	97	203
Cystic kidney disease	278	23	45	91	119
Hereditary Nephropathy	280	38	61	74	107
Ischaemic Renal Failure	44	2	8	15	19
HUS	90	8	15	25	42
Metabolic disorders	66	3	12	23	28
Vasculitis	24	0	1	5	18
Miscellaneous	293	41	40	64	148
Missing, unknown	311	10	46	73	182

Including data from Romania, Serbia, and the Netherlands (coverage 97% in 2017)

D3 PREVALENT PATIENTS ON RRT

Table D.3.4
Prevalence per million age-related population by age and cohort
prevalent patients on December 31

Cohort	All	0-4	5-9	10-14	15-19
	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp
2012	59.9	20.9	40.1	64.2	114.2
2013	60.0	19.8	40.6	66.7	113.2
2014	59.5	20.4	40.6	67.6	109.6
2015	60.8	21.9	40.9	69.2	110.8
2016	62.3	22.7	42.0	68.2	114.9
2017	63.5	21.6	42.7	69.1	118.4
2012 *	56.9	19.7	37.4	60.8	109.1
2013 *	56.9	18.5	37.4	62.5	108.7
2014 *	56.6	18.5	38.9	62.2	105.9
2015 *	55.3	19.3	38.0	61.5	101.5
2016 *	56.6	19.3	39.7	61.0	104.6
2017 *	59.6	21.7	39.7	62.7	111.5

* Including data from Estonia since 2013, Romania (coverage from 100% in 2012 to 97% in 2017), Serbia since 2016 (coverage 100% in 2016 and 97% in 2017), Switzerland since 2015 (coverage 99.9% in 2015 and 100% in 2016 and 2017), and the Netherlands (coverage 96% in 2016, 97% in 2017, and 100% in all other years)

Table D.3.5
Prevalence per million age-related population by age, treatment modality, and cohort
prevalent patients on December 31

Cohort	All			0-4			5-9			10-14			15-19		
	HD	PD	Tx	HD	PD	Tx	HD	PD	Tx	HD	PD	Tx	HD	PD	Tx
	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp
2012	8.4	4.2	46.0	4.1	7.5	8.8	4.3	2.9	32.2	6.6	2.7	53.8	18.5	3.7	89.1
2013	8.5	4.1	46.3	3.8	6.0	9.3	4.1	2.8	33.1	6.6	3.0	55.9	19.3	4.4	87.3
2014	7.8	3.8	47.0	3.9	6.8	9.0	3.5	3.0	33.6	7.4	2.1	57.1	16.5	3.4	88.2
2015	8.2	4.0	47.8	4.2	7.1	10.3	5.2	3.1	32.3	8.4	2.5	57.3	15.2	3.4	90.9
2016	8.2	4.4	48.8	4.9	7.3	10.1	5.7	2.5	33.4	6.5	4.0	56.5	15.7	4.1	94.0
2017	8.1	4.3	50.6	4.5	6.2	10.8	5.2	3.1	34.3	7.5	3.9	57.3	15.2	4.0	97.7
2012 *	8.6	4.5	42.8	3.9	7.0	8.4	4.0	3.0	29.7	6.1	3.5	50.2	20.2	4.3	82.3
2013 *	9.1	4.2	42.6	3.8	5.7	8.5	4.0	3.1	29.8	7.2	3.3	51.1	21.5	4.8	80.7
2014 *	8.8	4.0	43.1	3.4	5.7	8.7	4.2	3.5	30.8	7.7	2.3	51.4	19.6	4.6	80.6
2015 *	8.5	4.0	42.2	3.5	6.2	9.2	5.4	3.3	29.1	8.5	2.5	49.7	16.5	4.2	79.9
2016 *	8.5	4.4	43.2	4.4	6.2	8.4	5.6	2.7	31.0	7.4	3.9	48.7	16.3	4.8	82.7
2017 *	9.1	4.4	45.6	6.4	6.2	9.2	4.8	3.1	31.7	8.2	3.6	50.5	17.0	5.0	88.4

* Including data from Estonia since 2013, Romania (coverage from 100% in 2012 to 97% in 2017), Serbia since 2016 (coverage 100% in 2016 and 97% in 2017), Switzerland since 2015 (coverage 99.9% in 2015 and 100% in 2016 and 2017), and the Netherlands (coverage 96% in 2016, 97% in 2017, and 100% in all other years)

Table D.3.6
Prevalence per million age-related population by age and primary renal disease
prevalent patients on December 31, 2017

	All	0-4	5-9	10-14	15-19
	Pmarp	Pmarp	Pmarp	Pmarp	Pmarp
CAKUT	20.5	7.1	14.7	22.4	36.9
Glomerulonephritis	8.7	3.1	5.4	8.4	17.5
Cystic kidney disease	6.1	2.1	3.9	7.8	10.3
Hereditary Nephropathy	6.1	3.5	5.2	6.4	9.2
Ischaemic Renal Failure	1.0	0.2	0.7	1.3	1.6
HUS	2.0	0.7	1.3	2.2	3.6
Metabolic disorders	1.4	0.3	1.0	2.0	2.4
Vasculitis	0.5		0.1	0.4	1.6
Miscellaneous	6.4	3.8	3.4	5.5	12.8
Missing, unknown	6.8	0.9	4.0	6.3	15.7

Including data from Romania, Serbia, and the Netherlands (coverage 97% in 2017)

Methods

VI Methods

The ERA-EDTA Registry is located at the Department of Medical Informatics in the Amsterdam University Medical center, location Academic Medical Center in Amsterdam, the Netherlands. This department hosts several clinical registries which share a quality management system with standard operating procedures for data collection, data storage, data analysis, and the production of the annual report. The quality management system has been certified according to the ISO 9001:2000 norm since 2004, according to the ISO 9001:2008 norm since 2010 and according to the ISO 9001:2015 norm since September 2016. In addition, ISO 27001 certification for information security management was obtained in November 2018.

Data collection and preparation

Individual patient data

General Data Protection Regulation (GDPR)

With the exception the Austrian renal registry (OEDTR), all registries participating with individual patient data in this annual report have signed a Data Transfer Agreement with the AMC Medical Research B.V., where the ERA-EDTA Registry is located. The Austrian renal registry has agreements with all patients included, allowing the provision of individual patient data to the ERA-EDTA Registry till 31 December 2017. From 2018 a Data Transfer Agreement will be used for the provision of Austrian patient data.

Data collection

On an annual basis data sets containing individual patient data are uploaded to the ERA-EDTA Registry office in Amsterdam. Supported file formats for data delivery include Microsoft Access, Microsoft Excel, SPSS, SAS, and delimited text files. Collaborating registries upload their data via a secure data upload portal.

Variables

The ERA-EDTA Registry asks national and regional registries for the data shown in Table 1.

Table 1: Variables collected for individual patients

Patient data	Transaction data
Patient identifier	Patient identifier
Country of registry	Date of event
Month and year of birth	Type of event / treatment
Sex	Cause of death
Primary Renal Disease	Treatment centre
Date of first RRT	Source registry
	Destination registry

Collaborating registries and participating countries

Individual patient data from 32 national and regional registries in 17 countries were used to create the tables in Section B of this annual report.

Registry data are subject to continuous alteration and improvement. Small differences between ERA-EDTA Registry data and the data presented in the national and regional registry's own annual reports may result from different times of data extraction. Minor differences between the numbers reported by the UK Renal Registry and this annual report may occur because the prevalence as reported in the UK Renal Registry Report is based on quarterly data returns, whereas the prevalence as reported in this annual report is based on data derived from the treatment modality timeline.

The data on Spain presented in Section B of this report are based on separate data sets received from 14 of 19 regions: Andalusia, Aragon, Asturias, Basque country, Canary Islands, Cantabria, Castile and León, Castile-La Mancha, Catalonia, Extremadura, Galicia, Community of Madrid, Murcia, and Navarre.

Differences between collaborating registries

Definitions and collection of data

In the comparison of data between registries it should be recognized that there may be small differences between registries in definitions and in the collection of their data. For example, the different registries do not collect data at the same level of detail, especially with regard to the various subtypes of treatment modalities.

Patient population

The data from Belgium (Dutch-speaking), Belgium (French-speaking), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Navarre) and the United Kingdom (England/Northern Ireland/Wales) is comprised of patients older than 20 years of age. It has been estimated that the inclusion of data on children would add approximately 2 per million population (Pmp) to the incidence rate and about 13 Pmp to the prevalence.

For the calculation of the incidence of those alive and on RRT on day 91, registries were asked to provide data with follow-up until 31st March 2018. For the following registries data were only available until 31st December 2017: Estonia, France, Serbia, Spain (Asturias), Spain (Canary Islands), Spain (Catalonia), Switzerland and the United Kingdom (England, Wales and Northern Ireland). For these registries the incidence on day 91 was estimated as explained in the paragraph on statistical analyses.

Data loading and cleaning

The data from the registries were imported using an in-house developed import utility. This program first uniformes the data and then translates any non-standard codes. Consistency checks were performed, and thereafter the data were converted to the desired format in order to make the storage of the data in the relational and event-driven database possible. The new data, provided by the national and regional registries, replaced all existing data in the ERA-EDTA Registry database. In this way changes in the data sets made by the national and regional registries were adopted by the ERA-EDTA Registry. The import utility performed extensive logging and the logging-results were used to provide the national and regional registries with feedback concerning inconsistencies or other problems identified in the data.

After data analysis, the results were checked by the national and regional registries. In the case of discrepancies potential problems regarding (the interpretation of) the data set were solved. Thereafter, more detailed reports were produced which needed approval from the registry representative before publication in this ERA-EDTA Registry Annual Report.

ERA-EDTA Registry database

Microsoft SQL Server (a database management system) was used to manage the ERA-EDTA Registry database. This relational and event-driven database consists of a patient and a transaction table which can be extended according to future needs.

General population data

Midyear population data of the contributing countries were provided by Eurostat [1] or the national bureau of statistics. The sources of the population data used for the analyses in Section B are shown in Table 2.

Reference population

In this year's Annual Report, the age and sex distribution of the EU28 of 2015 as provided by Eurostat [1] was used for the adjustment of incidence rates and prevalence for age and sex. The age and sex distribution of EU28 in 2015 is shown in Table 3.

Table 2: Sources of the general population data for the national and regional registries participating with individual patient data in Section B

Registry	Sources of general population data of 2017
Austria	https://www.statistik.at/
Belgium, Dutch-speaking	https://ec.europa.eu/eurostat/
Belgium, French-speaking	https://ec.europa.eu/eurostat/
Bosnia and Herzegovina	http://www.popis2013.ba/
Denmark	https://ec.europa.eu/eurostat/
Greenland	http://www.stat.gl/
Estonia	https://ec.europa.eu/eurostat/
Finland	https://ec.europa.eu/eurostat/
France	https://ec.europa.eu/eurostat/
Greece	https://ec.europa.eu/eurostat/
Iceland	https://ec.europa.eu/eurostat/
Norway	https://ec.europa.eu/eurostat/
Romania	https://ec.europa.eu/eurostat/
Serbia	https://ec.europa.eu/eurostat/
Spain, Andalusia	https://www.ine.es/
Spain, Aragon	https://www.ine.es/
Spain, Asturias	https://www.ine.es/
Spain, Basque country	https://www.ine.es/
Spain, Canary Islands	https://www.ine.es/
Spain, Cantabria	https://www.ine.es/
Spain, Castile and León	https://www.ine.es/
Spain, Castile-La Mancha	https://www.ine.es/
Spain, Catalonia	https://www.ine.es/
Spain, Community of Madrid	https://www.ine.es/
Spain, Extremadura	https://www.ine.es/
Spain, Galicia	https://www.ine.es/
Spain, Murcia	https://www.ine.es/
Spain, Navarre	https://www.ine.es/
Sweden	https://ec.europa.eu/eurostat/
Switzerland	https://ec.europa.eu/eurostat/
the Netherlands	https://ec.europa.eu/eurostat/
United Kingdom, England/Northern Ireland/Wales	https://www.ons.gov.uk/
United Kingdom, Scotland	https://www.ons.gov.uk/

Table 3: The age and sex distribution of the reference population EU28 (2015)

Age groups	All	Men	Women
	N	N	N
0-4	26.080.215	13.376.223	12.703.992
5-9	27.002.227	13.850.526	13.151.701
10-14	26.227.134	13.452.249	12.774.885
15-19	27.066.270	13.899.601	13.166.669
20-24	29.807.980	15.216.810	14.591.170
25-29	32.114.517	16.237.856	15.876.661
30-34	33.691.738	16.937.719	16.754.019
35-39	34.895.079	17.541.655	17.353.424
40-44	36.308.691	18.206.486	18.102.205
45-49	37.694.663	18.841.293	18.853.370
50-54	36.604.020	18.149.554	18.454.466
55-59	33.996.743	16.626.202	17.370.541
60-64	31.045.915	14.911.173	16.134.742
65-69	27.676.825	13.064.797	14.612.028
70-74	22.290.449	10.167.747	12.122.702
75-79	19.271.582	8.274.167	10.997.415
80-84	14.094.690	5.520.132	8.574.558
85+	12.671.365	3.958.804	8.712.561
Total	508.540.103	248.232.994	260.307.109

Aggregated data

Data collection

Section C relates to national and regional registries providing the ERA-EDTA Registry with aggregated data. Data were provided via a Microsoft Excel template and imported for inclusion in this annual report.

Collaborating registries

Aggregated data from 21 national and regional registries were used for the preparation of the tables in Section C. The following countries participated in Section C of this year's annual report: Albania, Belarus, Bulgaria, Croatia, Cyprus, Czech Republic, Georgia, Israel, Italy, Kosovo*, Latvia, Lithuania, North Macedonia, Poland, Portugal, Russia, Slovakia, Spain, Tunisia (Sfax region), Turkey, and Ukraine.

Data from Italy are based on eight of the 20 regions: Calabria, Emilia-Romagna, Liguria, Marche, Piedmont, Puglia, Tuscany, and Veneto.

Data loading and cleaning

The Microsoft Excel templates used for data collection include automated consistency checks. Additional checks were performed manually.

General population data

The population data needed for the calculation of incidence rates and prevalence Pmp were reported by the collaborating registries.

Reference population

As in Section B, we used the age and sex distribution of the EU28 of 2015 (see Table 3) as provided by Eurostat [1] for the adjustment of incidence rates and prevalence.

Coding systems

Primary renal disease

Renal diseases were defined according to both the old and new (2018) ERA-EDTA coding systems and subsequently classified into groups (Appendix 1 and 2). When the 2018 PRD codes were provided, they were categorized into the old PRD groups, which resulted in a somewhat different distribution of the PRD groups.

Causes of death

Causes of death were defined according to the ERA-EDTA coding systems and subsequently classified into groups (Appendix 3).

Event type codes

Appendix 4 provides an overview of the coding currently used for event type codes in the ERA-EDTA database.

Statistical analyses

An overview of the renal registries contributing data for the different types of analyses is given in Appendix 5. For the data analyses SAS 9.4 [2] was used. This statistical software package is able to maintain large datasets, is syntax driven which increases reproducibility of results, and has extensive capabilities with regard to statistics and data management.

** This designation is without prejudice to positions on status, and is in line with UNSCR 1244/99 and the ICJ Opinion on the Kosovo declaration of independence*

Summary section

The tables and figures in the summary section are based on data both from registries providing individual patient data and registries providing aggregated data. Summary statistics were calculated for all registries providing individual patient data, for all registries providing aggregated data and for all registries combined. Where possible these summary statistics were calculated as the sum of the individual values. In all other cases summary statistics were calculated as weighted averages. The weights were dependent on the denominator (i.e. the population size for Pmp values and the total incident count or prevalent count for percentages) and were calculated as the contribution of the registry to the total of the registries.

Individual patient data

Incidence and prevalence

The incidence and prevalence tables were based on 32 data sets from national or regional registries from 17 countries that provided individual patient data for 2017, including Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Bosnia and Herzegovina, Denmark, Estonia, Finland, France, Greece, Iceland, Norway, Romania, Serbia, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Canary Islands), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Extremadura), Spain (Galicia), Spain (Community of Madrid), Spain (Murcia), Spain (Navarre), Sweden, Switzerland, the Netherlands, United Kingdom (England/Northern Ireland/Wales) and United Kingdom (Scotland).

Methods for calculating incidence and prevalence

The incidence rate and the prevalence of those alive and on RRT were calculated for the total population and for subgroups based on sex, age group, treatment modality, and primary renal disease. The incidence rate or prevalence Pmp is the observed incident or prevalent count divided by the general population in that year and multiplied by one million. For the incidence rate or prevalence per million age-related population (Pmarp) the observed incident or prevalent count per age category was divided by the general population in that age category and multiplied by one million.

For those registries that had no data available with a follow-up until March 31st, 2018, the incidence of RRT on day 91 was estimated. We assumed that the relative difference between the incidence on day 1 and the incidence on day 91 was similar for patients who started RRT in the first nine months of 2017, when compared to patients who started RRT in the last three months of 2017.

For the calculation of the mean and median age for incident patients on day 91, we used the actual age on day 91.

Adjustment of incidence and prevalence

Differences in the unadjusted incidence rate and prevalence across countries might be due to the differences in the age and sex distribution of the general population. The EU28 age and sex distribution of the European population (Table 3) was therefore used to adjust incidence rates and prevalence for age and sex [1]. Adjusted rates were derived by applying the weights of the reference population to the observed variable-specific rates (e.g. incidence rate per age group) in a country. This weighted average provides a single summary rate for each country that would be expected if that country had the age and sex distribution of the reference population. The following example shows how to calculate the age-adjusted incidence rate. In this example the incidence rate of country A is 269 Pmp, the age-specific rates of country A and the reference population distribution with respect to age are shown in Table 4.

Table 4: Calculation of the adjusted incidence rate

Age groups	Incidence rate country A	Reference population
	Pmp	%
0-19	332	31.7
20-44	261	39.3
45-64	64	29.0
Total	269	100

The adjusted incident rate of country A is: $(0.317 * 332) + (0.393 * 261) + (0.29 * 64) = 226$ Pmp

Performed kidney transplants

For all participating countries and regions the number of kidney transplants performed during the year was presented by donor type. In Iceland the number of transplants was somewhat lower, because several patients received transplants in other countries. Rates are expressed as numbers, percentages and Pmp.

Survival probability

In this annual report, patient survival on RRT, patient survival on dialysis, patient survival after the first transplant, and graft survival after the first transplant are presented in tables by age, sex and primary renal disease. In addition, patient survival is presented in figures by primary renal disease and by treatment modality. Survival probabilities are presented as percentages from 0 to 100.

For this report the survival analyses were based on data from Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Extremadura), Spain (Galicia), Spain (Community of Madrid), Sweden, the Netherlands, United Kingdom (England/Wales/ Northern Ireland) and United Kingdom (Scotland). The differences between the survival probabilities in this annual report and survival probabilities published in earlier annual reports of the ERA-EDTA Registry may be partly due to differences in participating countries.

Survival was analysed from day 1 and from day 91 onwards for those patients alive and on RRT on those days. For the analysis of survival data two five-year cohorts were used:

- 2008-2012 - for the presentation of 90-day, one-, two- and five-year survival probabilities.
- 2011-2015 - for the presentation of 90-day, one- and two-year survival probabilities.

31st December 2017 was applied as censoring date for all survival analyses. For the different types of survival analysis the events, competing events and censoring were defined as shown in Table 5.

Table 5: Overview of the events, competing events, and censoring as defined for the survival analyses in Section B

Survival type	Event	Competing event	Censoring
Patients on renal replacement therapy	Death of patient		Recovery of renal function * Loss to follow-up End of follow-up time
Patients on dialysis			
1)	Death of patient		Transplantation Recovery of renal function * Loss to follow-up End of follow-up time
2)	Death of patient	Transplantation	Recovery of renal function * Loss to follow-up End of follow-up time
First transplant recipients	Death of patient		Loss to follow-up End of follow-up time
First graft	Death of patient Graft failure Re-transplantation		Loss to follow-up End of follow-up time

* This was only considered as a censored observation when a patient's renal function had recovered for a period of more than 30 days.

Unadjusted survival probabilities

Unadjusted survival probabilities were calculated using the Kaplan-Meier method. In the unadjusted survival analysis the cells in the tables were left blank when there were less than 100 patients in that cell.

Adjusted survival probabilities

The Cox regression model was used to calculate survival probabilities while accounting for confounders [3]. Survival probabilities were adjusted for age, sex and primary renal disease. As the RRT population changes over time, it was decided to adjust for fixed values for a number of variables in the survival analyses to make the results comparable across time periods. The fixed values of variables used for the survival tables are shown in Table 6.

In the tables presenting the adjusted survival probabilities, cells with less than 100 patients were left empty. Patients for whom age, sex, or primary renal disease was missing were excluded.

For Figure B.6.4 the Fine and Gray competing risks method (cause-specific cumulative incidence method) [4,5] was used to estimate the adjusted cumulative probability of death in 5 years for patients starting dialysis, taking into account that these patients can experience a competing event, i.e. a kidney transplantation. This method was also used to estimate the adjusted cumulative probability of receiving a kidney transplant (competing event) and the adjusted cumulative probability of remaining on dialysis (event free).

Table 6: Overview of the variables used to adjust the survival probabilities in Section B

Survival type	Age	Sex	Renal disease
Patients on renal replacement therapy	67 years	63% men	24% Diabetes 19% Hypertension / renal vascular disease 11% Glomerulonephritis 46% Other causes
Patients on dialysis	67 years	63% men	24% Diabetes 19% Hypertension / renal vascular disease 11% Glomerulonephritis 46% Other causes
First transplant recipients (deceased donor)	50 years	63% men	14% Diabetes 10% Hypertension / renal vascular disease 23% Glomerulonephritis 53% Other causes
First transplant recipients (living donor)	50 years	63% men	14% Diabetes 10% Hypertension / renal vascular disease 23% Glomerulonephritis 53% Other causes

Confidence intervals

When survival probabilities were calculated using the Kaplan-Meier method or Cox regression method, the corresponding confidence intervals were calculated according to Bie et al. [6], using the standard error.

Expected remaining lifetimes

Expected remaining lifetimes represent the average number of years of life remaining for those who have reached a given age. In this annual report, expected remaining lifetimes were calculated for patients receiving RRT and for the general population. For the calculation of expected remaining lifetimes of both groups, we adopted the methodology used by the United States Renal Data System (USRDS)[7]. In order to calculate expected remaining lifetimes we used data from registries providing complete follow-up data for the period from 2013 to 2017. Consequently, the data of the following national or regional registries from 12 countries were suitable for this analysis: Austria, Belgium (Dutch-speaking), Belgium (French-speaking), Denmark, Finland, France, Greece, Iceland, Norway, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque Country), Spain (Cantabria), Spain (Castile and León), Spain (Castile-La Mancha), Spain (Catalonia), Spain (Extremadura), Spain (Galicia), Spain (Community of Madrid), Sweden, the Netherlands, United Kingdom (England, Northern Ireland and Wales), United Kingdom (Scotland). With regard to the inclusion of the data, it should be noted that the differences between the expected remaining lifetimes of this annual report and expected remaining lifetimes published in earlier annual reports of the ERA-EDTA Registry may be partly due to differences in participating countries.

RRT population

The expected remaining lifetimes for RRT patients are presented by age, sex and treatment modality. The expected remaining lifetime for a certain patient group is the average of the remaining life expectancies for the patients in that group. Although this cannot be known until all the patients in the group have died, the expected remaining lifetime can be projected by assuming that patients in the patient group will die at the same rates as those observed among older groups of recent prevalent RRT patients.

General population

The death rates Pmp by sex and age of the general population of the contributing countries were provided by Eurostat [1] (based on the EU28 in 2015). The size of the contribution of each country to the general population that was used to calculate expected remaining lifetimes was in proportion to the size of the general population covered by its renal registry.

Aggregated data

Incidence and prevalence counts were provided by the contributing registries. To increase the consistency of the data, general explanations of how to complete the Microsoft Excel template and how to calculate the adjusted incidence rate and prevalence were provided to support the participating registries.

Paediatric Section

The incidence and prevalence tables in Section D of this annual report were based on data from 24 national or regional registries from 16 countries that provided complete individual patient data in their paediatric population for 2012 to 2017, including Austria, Bosnia and Herzegovina, Denmark, Estonia, Finland, France, Greece, Iceland, Norway, Romania, Serbia, Spain (Andalusia), Spain (Aragon), Spain (Asturias), Spain (Basque country), Spain (Catalonia), Spain (Extremadura), Spain (Galicia), Spain (Community of Madrid), Spain (Murcia), Sweden, Switzerland, the Netherlands, and United Kingdom (Scotland). For Romania the coverage decreased from 100% in 2012 to 97% in 2017, and for the Netherlands the coverage was 94% for the incidence and 96% for the prevalence in 2016, 93% for the incidence and 97% for the prevalence in 2017, and 100% in all other years, for Switzerland the coverage was 99.9 in 2015 and 100% in 2016 and 2017, and for Serbia the coverage decreased from 100% in 2016 to 97% in 2017.

Estonia provided data since 2013, Switzerland since 2015, and Serbia since 2016. Furthermore, as not every region in Spain had a specialised paediatric centre, paediatric patients could be treated in other regions than their resident region. This would result in an underestimation of the incidence and prevalence in these regions. To allow for this, non-resident paediatric patients were not excluded from the paediatric tables.

Incidence (on day 1) and prevalence on RRT were calculated for subgroups based on age, treatment modality, and primary renal disease. Incidence on RRT by 2-year cohorts was presented for paediatric patients who started RRT between 2012 and 2017. The cohorts 2012-2013, 2014-2015 and 2016-2017 were presented twice, once including and once excluding the countries with a limited follow-up to allow for a comparison over time. The incidence rate on RRT Pmarp was the observed incident count in that particular time period divided by the age-related general population in that time period (for example the total population in 2016 plus the total population in 2017) multiplied by one million. The grouping of primary renal disease codes for the paediatric population is described in Table 7 as it differs from the grouping in the adult population.

Table 7: Grouping of primary renal diseases for paediatric patients in Section D
Groups and codes included

Primary renal disease group	Primary renal disease code (see appendix 1)
Congenital anomalies of the kidney and urinary tract (CAKUT)	20, 21, 22, 23, 24, 25, 29, 60, 61, 63, and 66
Glomerulonephritis	10, 11, 12, 13, 14, 15, 16, 17, 19, and 86
Cystic kidney disease	40, 41, 42, 43, and 49
Hereditary nephropathy	50, 51, and 59
Ischaemic renal failure	90
Haemolytic uraemic syndrome (HUS)	88
Metabolic disorders	52, 53, 54, 92, and 93
Vasculitis	73, 74, 84, 85, and 87
Miscellaneous	30, 31, 32, 33, 34, 39, 70, 71, 72, 75, 76, 78, 79, 80, 81, 82, 83, 89, 91, 94, 95, 96, and 99
Missing, unknown	missing and 00

The prevalence on RRT was presented on 31st December of each year from 2012 to 2017 and were presented twice, once including and once excluding the above mentioned countries and periods to allow for a comparison over time. The prevalence on RRT by primary renal disease was calculated for patients prevalent on 31st December, 2017.

Bibliography

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- 4) Noordzij M, Leffondré K, van Stralen KJ, Zoccali C, Dekker FW, Jager KJ. When do we need competing risks methods for survival analysis in nephrology? *Nephrol Dial Transplant*. 2013 Nov; 28 :2670-2677.
- 5) Wolbers M, Koller MT, Stel VS, Schaer B, Jager KJ, Leffondré K, Heinze G. Competing risks analyses: objectives and approaches. *Eur Heart J*. 2014; 35: 2936-41.
- 6) Bie O, Borgan O and Liestol K. Confidence intervals and confidence bands for the cumulative hazard rate function and their small sample properties. *Scandinavian Journal of Statistics* 1987; 14: 221-233.
- 7) U.S. Renal Data System, *USRDS 2012 Annual Data Report: Atlas of End-Stage Renal Disease in the United States*, National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD, 2012.

Appendices

Appendix 1 - Grouping of primary renal diseases

1994 code	1995 code	PRD group	Primary renal disease
10	10	I	Glomerulonephritis; histologically NOT examined
11	11	I	Focal segmental glomerulosclerosis with nephrotic syndrome in children
12	12	I	IgA nephropathy (proven by immunofluorescence, not code 76 or 85)
13	13	I	Dense deposit disease; membrano-proliferative GN; type II (proven by immunofluorescence / electron microscopy)
14	14	I	Membranous nephropathy
15	15	I	Membrano-proliferative GN; type I (proven by immunofluorescence / electron microscopy, not code 84 or 89)
16	16	I	Crescentic (extracapillary) glomerulonephritis (type I, II, III)
17	17	I	Focal segmental glomerulosclerosis with nephrotic syndrome in adults
19	19	I	Glomerulonephritis; histologically examined, not given above
20	20	II	Pyelonephritis; cause not specified
21	21	II	Pyelonephritis associated with neurogenic bladder
22	22	II	Pyelonephritis due to congenital obstructive uropathy with/without vesico-ureteric reflux
23	23	II	Pyelonephritis due to acquired obstructive uropathy
24	24	II	Pyelonephritis due to vesico-ureteric reflux without obstruction
25	25	II	Pyelonephritis due to urolithiasis
29	29	II	Pyelonephritis due to other cause
30	30	VII	Interstitial nephritis (not pyelonephritis) due to other cause, or unspecified (not mentioned above)
31	31	VII	Nephropathy (interstitial) due to analgesic drugs
32	32	VII	Nephropathy (interstitial) due to cis-platinum
33	33	VII	Nephropathy (interstitial) due to cyclosporin A
	34	VII	Lead induced nephropathy (interstitial)
39	39	VII	Drug induced nephropathy (interstitial) not mentioned above
40	40	VII	Cystic kidney disease - type unspecified
41	41	III	Polycystic kidneys; adult type (dominant)
42	42	VII	Polycystic kidneys; infantile (recessive)
43	43	VII	Medullary cystic disease; including nephronophthisis
49	49	VII	Cystic kidney disease - other specified type
50	50	VII	Hereditary / Familial nephropathy - type unspecified
51	51	VII	Hereditary nephritis with nerve deafness (Alport's Syndrome)
52	52	VII	Cystinosis
53	53	VII	Primary oxalosis
54	54	VII	Fabry's disease
59	59	VII	Hereditary nephropathy - other specified type
60	60	VII	Renal hypoplasia (congenital) - type unspecified
61	61	VII	Oligomeganephronic hypoplasia
63	63	VII	Congenital renal dysplasia with or without urinary tract malformation
66	66	VII	Syndrome of agenesis of abdominal muscles (Prune Belly)
70	70	V	Renal vascular disease - type unspecified
71	71	IV	Renal vascular disease due to malignant hypertension
72	72	IV	Renal vascular disease due to hypertension
73	73	VII	Renal vascular disease due to polyarteritis
74	74	VII	Wegener's granulomatosis
	75	VII	Ischaemic renal disease/cholesterol embolism (1998 prd code)
76	76	VII	Glomerulonephritis related to liver cirrhosis
	78	VII	Cryoglobulinaemic glomerulonephritis
79	79	V	Renal vascular disease - due to other cause (not given above and not code 84-88)
80	80	VI	Diabetes glomerulosclerosis or diabetic nephropathy - Type I
81	80	VI	Diabetes glomerulosclerosis or diabetic nephropathy - Type II
82	82	VII	Myelomatosis / light chain deposit disease
83	83	VII	Amyloid
84	84	VII	Lupus erythematosus
85	85	VII	Henoch-Schoenlein purpura
86	86	VII	Goodpasture's Syndrome
87	87	VII	Systemic sclerosis (scleroderma)
88	88	VII	Haemolytic Uraemic Syndrome (including Moschowitz Syndrome)
89	89	VII	Multi-system disease - other (not mentioned above)
90	90	VII	Tubular necrosis (irreversible) or cortical necrosis (different from 88)
91	91	VII	Tuberculosis
92	92	VII	Gout
93	93	VII	Nephrocalcinosis and hypercalcaemic nephropathy
94	94	VII	Balkan nephropathy
95	95	VII	Kidney tumour
96	96	VII	Traumatic or surgical loss of kidney
99	99	VII	Other identified renal disorders
00	00	VIII	Chronic renal failure; aetiology uncertain

PRD group: I: glomerulonephritis / sclerosis; II: pyelonephritis; III: polycystic kidneys, adult type; IV: hypertension; V: renal vascular disease; VI: diabetes; VII: miscellaneous; VIII: unknown

Appendix 2 - Grouping of primary renal disease codes 2018

I: GLOMERULAR DISEASE

Code Primary renal disease

1003	Adult nephrotic syndrome - no histology
1472	Anti-Glomerular basement membrane (GBM) disease / Goodpasture's syndrome - histologically proven
1464	Anti-Glomerular basement membrane (GBM) disease / Goodpasture's syndrome - no histology
1440	Churg-Strauss syndrome - histologically proven
1438	Churg-Strauss syndrome - no histology
1088	Congenital nephrotic syndrome (CNS) - congenital infection
1057	Congenital nephrotic syndrome (CNS) - diffuse mesangial sclerosis
1042	Congenital nephrotic syndrome (CNS) - Finnish type - histologically proven
1035	Congenital nephrotic syndrome (CNS) - Finnish type - no histology
1061	Congenital nephrotic syndrome (CNS) - focal segmental glomerulosclerosis (FSGS)
1026	Congenital nephrotic syndrome (CNS) - no histology
1570	Cryoglobulinaemia secondary to hepatitis C - histologically proven
1562	Cryoglobulinaemia secondary to hepatitis C - no histology
1591	Cryoglobulinaemia secondary to systemic disease - histologically proven
1589	Cryoglobulinaemia secondary to systemic disease - no histology
1074	Denys-Drash syndrome
1331	Diffuse endocapillary glomerulonephritis
1558	Essential mixed cryoglobulinaemia - histologically proven
1543	Essential mixed cryoglobulinaemia - no histology
1308	Familial focal segmental glomerulosclerosis (FSGS) - autosomal dominant - histologically proven
1298	Familial focal segmental glomerulosclerosis (FSGS) - autosomal dominant - no histology
1280	Familial focal segmental glomerulosclerosis (FSGS) - autosomal recessive - histologically proven
1279	Familial focal segmental glomerulosclerosis (FSGS) - autosomal recessive - no histology
1144	Familial IgA nephropathy - histologically proven
1137	Familial IgA nephropathy - no histology
1354	Focal and segmental proliferative glomerulonephritis
3754	Focal segmental glomerulosclerosis (FSGS) secondary to HIV
3765	Focal segmental glomerulosclerosis (FSGS) secondary to lithium
1320	Focal segmental glomerulosclerosis (FSGS) secondary to obesity - histologically proven
1312	Focal segmental glomerulosclerosis (FSGS) secondary to obesity - no histology
3777	Focal segmental glomerulosclerosis (FSGS) secondary to sickle cell
1377	Glomerulonephritis - histologically indeterminate
3749	Glomerulonephritis - no histology
1365	Glomerulonephritis - secondary to systemic disease
1417	Granulomatosis with polyangiitis - histologically proven
1401	Granulomatosis with polyangiitis - no histology
1515	Henoch-Schönlein purpura / nephritis - histologically proven
1504	Henoch-Schönlein purpura / nephritis - no histology
1251	Idiopathic rapidly progressive (crescentic) glomerulonephritis
1128	IgA nephropathy - histologically proven
1116	IgA nephropathy - no histology
1163	IgA nephropathy secondary to liver cirrhosis - histologically proven
1159	IgA nephropathy secondary to liver cirrhosis - no histology
1171	IgM - associated nephropathy
1205	Membranous nephropathy - drug induced
1185	Membranous nephropathy - idiopathic
1214	Membranous nephropathy - infection associated
1192	Membranous nephropathy - malignancy associated
1349	Mesangial proliferative glomerulonephritis
1222	Mesangiocapillary glomerulonephritis type 1
1233	Mesangiocapillary glomerulonephritis type 2 (dense deposit disease)
1246	Mesangiocapillary glomerulonephritis type 3
1429	Microscopic polyangiitis - histologically proven
1100	Minimal change nephropathy - histologically proven
1090	Minimal change nephropathy - no histology
3615	Nephrotic syndrome of childhood - no trial of steroids - no histology
3604	Nephrotic syndrome of childhood - steroid resistant - no histology
1019	Nephrotic syndrome of childhood - steroid sensitive - no histology
1455	Polyarteritis nodosa
1267	Primary focal segmental glomerulosclerosis (FSGS)
1536	Renal scleroderma / systemic sclerosis - histologically proven
1527	Renal scleroderma / systemic sclerosis - no histology
1493	Systemic lupus erythematosus / nephritis - histologically proven
1486	Systemic lupus erythematosus / nephritis - no histology
1383	Systemic vasculitis - ANCA negative - histologically proven
3847	Systemic vasculitis - ANCA negative - no histology
3852	Systemic vasculitis - ANCA positive - histologically proven
1396	Systemic vasculitis - ANCA positive - no histology

II: TUBULOINTERSTITIAL DISEASE**Code Primary renal disease**

1768	Acquired obstructive nephropathy due to neurogenic bladder
1752	Acquired obstructive uropathy / nephropathy
2196	Acute urate nephropathy - histologically proven
2183	Acute urate nephropathy - no histology
1995	Aristolochic acid nephropathy (Balkan / Chinese herb / endemic nephropathy) - histologically proven
1982	Aristolochic acid nephropathy (Balkan / Chinese herb / endemic nephropathy) - no histology
1710	Bladder exstrophy
1845	Calcium oxalate urolithiasis
1832	Calculus nephropathy / urolithiasis
2203	Chronic urate nephropathy - histologically proven
3636	Chronic urate nephropathy - no histology
1625	Congenital dysplasia / hypoplasia
1706	Congenital neurogenic bladder
1660	Congenital pelvi-ureteric junction obstruction
1673	Congenital vesico-ureteric junction obstruction
2005	Drug-induced tubulointerstitial nephritis - no histology
2014	Drug-induced tubulointerstitial nephritis - histologically proven
1850	Enteric hyperoxaluria
1911	Familial interstitial nephropathy - histologically proven
1907	Familial interstitial nephropathy - no histology
1618	Familial reflux nephropathy
1656	Glomerulocystic disease
2257	Hantavirus nephropathy
3662	Hypercalcaemic nephropathy
1813	Idiopathic retroperitoneal fibrosis
2177	Lead induced nephropathy - histologically proven
2165	Lead induced nephropathy - no histology
2242	Leptospirosis
1866	Magnesium ammonium phosphate (struvite) urolithiasis
1723	Megacystis-megaureter
1639	Multicystic dysplastic kidneys
2098	Nephropathy due to aminoglycosides - histologically proven
2080	Nephropathy due to aminoglycosides - no histology
2112	Nephropathy due to amphotericin - histologically proven
2108	Nephropathy due to amphotericin - no histology
2033	Nephropathy due to analgesic drugs - histologically proven
2022	Nephropathy due to analgesic drugs - no histology
2051	Nephropathy due to ciclosporin - histologically proven
2046	Nephropathy due to ciclosporin - no histology
2131	Nephropathy due to cisplatin - histologically proven
2120	Nephropathy due to cisplatin - no histology
2154	Nephropathy due to lithium - histologically proven
2149	Nephropathy due to lithium - no histology
2079	Nephropathy due to tacrolimus - histologically proven
2067	Nephropathy due to tacrolimus - no histology
2288	Nephropathy related to HIV - histologically proven
2274	Nephropathy related to HIV - no histology
1799	Obstructive nephropathy due to bladder cancer
1809	Obstructive nephropathy due to other malignancies
1781	Obstructive nephropathy due to prostate cancer
1775	Obstructive nephropathy due to prostatic hypertrophy
1734	Oligomeganephronia
2300	Other specific infection
1687	Posterior urethral valves
1602	Primary reflux nephropathy - sporadic
2219	Radiation nephritis
2226	Renal / perinephric abscess
3627	Renal cysts and diabetes syndrome
1641	Renal dysplasia due to fetal ACE-inhibitor exposure
1747	Renal papillary necrosis
3796	Renal papillary necrosis caused by analgesics
3783	Renal papillary necrosis caused by diabetes
3806	Renal papillary necrosis caused by sickle cell
1976	Renal sarcoidosis - histologically proven
1969	Renal sarcoidosis - no histology

II: TUBULOINTERSTITIAL DISEASE (continued)**Code Primary renal disease**

2235	Renal tuberculosis
3689	Retroperitoneal fibrosis secondary to drugs
1821	Retroperitoneal fibrosis secondary to malignancies
3670	Retroperitoneal fibrosis secondary to peri-aortitis
2290	Schistosomiasis
1694	Syndrome of agenesis of abdominal muscles - prune belly syndrome
1897	Tubulointerstitial nephritis - histologically proven
1884	Tubulointerstitial nephritis - no histology
1930	Tubulointerstitial nephritis associated with autoimmune disease - histologically proven
1924	Tubulointerstitial nephritis associated with autoimmune disease - no histology
1953	Tubulointerstitial nephritis with uveitis (TINU) - histologically proven
1948	Tubulointerstitial nephritis with uveitis (TINU) - no histology
1878	Uric acid urolithiasis
2261	Xanthogranulomatous pyelonephritis

III: DIABETES MELLITUS**Code Primary renal disease**

2328	Diabetic nephropathy in type I diabetes - histologically proven
2316	Diabetic nephropathy in type I diabetes - no histology
2344	Diabetic nephropathy in type II diabetes - histologically proven
2337	Diabetic nephropathy in type II diabetes - no histology

IV: HYPERTENSION / RENAL VASCULAR DISEASE**Code Primary renal disease**

2392	Ageing kidney - no histology
2448	Atheroembolic renal disease - histologically proven
2430	Atheroembolic renal disease - no histology
2363	Chronic hypertensive nephropathy - histologically proven
2359	Chronic hypertensive nephropathy - no histology
2453	Fibromuscular dysplasia of renal artery
2407	Ischaemic nephropathy - no histology
2411	Ischaemic nephropathy / microvascular disease - histologically proven
2385	Malignant hypertensive nephropathy / accelerated hypertensive nephropathy - histologically proven
2371	Malignant hypertensive nephropathy / accelerated hypertensive nephropathy - no histology
2469	Renal arterial thrombosis / occlusion
2424	Renal artery stenosis

V: OTHER SYSTEMIC DISEASES AFFECTING THE KIDNEY**Code Primary renal disease**

2513	AA amyloid secondary to chronic inflammation
2521	AL amyloid secondary to plasma cell dyscrasia
2623	Atypical haemolytic uraemic syndrome (HUS) - diarrhoea negative
2482	Cardiorenal syndrome
2652	Congenital haemolytic uraemic syndrome (HUS)
2566	Familial AA amyloid secondary to familial Mediterranean fever / TRAPS (Hibernian fever) - histologically proven
2550	Familial AA amyloid secondary to familial Mediterranean fever / TRAPS (Hibernian fever) - no histology
2545	Familial amyloid secondary to protein mutations - histologically proven
2532	Familial amyloid secondary to protein mutations - no histology
2668	Familial haemolytic uraemic syndrome (HUS)
2675	Familial thrombotic thrombocytopenic purpura (TTP)
2610	Haemolytic uraemic syndrome (HUS) - diarrhoea associated
2647	Haemolytic uraemic syndrome (HUS) secondary to systemic disease
2495	Hepatorenal syndrome
2606	Immunotactoid / fibrillary nephropathy
2597	Light chain deposition disease
2584	Myeloma cast nephropathy - histologically proven
2578	Myeloma kidney - no histology
2681	Nephropathy due to eclampsia
3834	Nephropathy due to pre-eclampsia
2509	Renal amyloidosis
2476	Renal vein thrombosis
2702	Sickle cell nephropathy - histologically proven
2699	Sickle cell nephropathy - no histology
2634	Thrombotic thrombocytopenic purpura (TTP)

VI: FAMILIAL / HEREDITARY NEPHROPATHIES**Code Primary renal disease**

3071	Alagille syndrome
2760	Alport syndrome - histologically proven
2756	Alport syndrome - no histology
3118	Apparent mineralocorticoid excess
2718	Autosomal dominant (AD) polycystic kidney disease
2725	Autosomal dominant (AD) polycystic kidney disease type I
2739	Autosomal dominant (AD) polycystic kidney disease type II
2741	Autosomal recessive (AR) polycystic kidney disease
3085	Bartter syndrome
2773	Benign familial haematuria
3322	Branchio-oto-renal syndrome
2794	Cystic kidney disease
2964	Cystinosis
2955	Cystinuria
2929	Dent disease
3028	Distal renal tubular acidosis (RTA) - type I
3037	Distal renal tubular acidosis with sensorineural deafness - gene mutations
3230	Fabry disease - histologically proven
3224	Fabry disease - no histology
3173	Familial hypercalciuric hypocalcaemia
3160	Familial hypocalciuric hypercalcaemia
3187	Familial hypomagnesaemia
3379	Familial nephropathy
3314	Frasier syndrome
3092	Gitelman syndrome
3125	Glucocorticoid suppressible hyperaldosteronism
3305	Horse-shoe kidney
2993	Hypophosphataemic rickets autosomal recessive (AR)
2986	Hypophosphataemic rickets X-linked (XL)
3139	Inherited / genetic diabetes mellitus type II
2940	Inherited aminoaciduria
2972	Inherited renal glycosuria
3810	Kidney stones due to ARPT deficiency
3351	Lawrence-Moon-Biedl / Bardet-Biedl syndrome
3059	Lesch Nyhan syndrome - hypoxanthine guanine phosphoribosyl transferase deficiency
3102	Liddle syndrome
2938	Lowe syndrome (oculocerebrorenal syndrome)
2804	Medullary cystic kidney disease type I
2815	Medullary cystic kidney disease type II
3295	Medullary sponge kidneys
3367	Mitochondrial cytopathy
3253	Nail-patella syndrome
3044	Nephrogenic diabetes insipidus
2836	Nephronophthisis
2843	Nephronophthisis - type 1 (juvenile type)
2858	Nephronophthisis - type 2 (infantile type)
2862	Nephronophthisis - type 3 (adolescent type)
2870	Nephronophthisis - type 4 (juvenile type)
2889	Nephronophthisis - type 5
2891	Nephronophthisis - type 6
3063	Phosphoribosyl pyrophosphate synthetase (PRPPS) superactivity
2901	Primary Fanconi syndrome
3194	Primary hyperoxaluria
3207	Primary hyperoxaluria type I
3211	Primary hyperoxaluria type II
3731	Primary hyperoxaluria type III
3000	Primary renal tubular acidosis (RTA)
3016	Proximal renal tubular acidosis (RTA) - type II
3141	Pseudohypoaldosteronism type 1
3156	Pseudohypoaldosteronism type 2 (Gordon syndrome)
3658	Renal coloboma syndrome
3269	Rubinstein-Taybi syndrome
2787	Thin basement membrane disease
3346	Townes-Brocks syndrome
3276	Tuberous sclerosis
2917	Tubular disorder as part of inherited metabolic diseases
2827	Uromodulin-associated nephropathy (familial juvenile hyperuricaemic nephropathy)
3282	Von Hippel-Lindau disease
3333	Williams syndrome
3248	Xanthinuria

VII: MISCELLANEOUS RENAL DISORDERS

Code	Primary renal disease
3442	Acute cortical necrosis
3380	Acute kidney injury
3403	Acute kidney injury due to circulatory failure
3398	Acute kidney injury due to hypovolaemia
3435	Acute kidney injury due to nephrotoxicity
3426	Acute kidney injury due to rhabdomyolysis
3419	Acute kidney injury due to sepsis
3457	Acute pyelonephritis
3564	Chronic kidney disease (CKD) / chronic renal failure (CRF) - aetiology uncertain / unknown - histologically proven
3555	Chronic kidney disease (CKD) / chronic renal failure (CRF) - aetiology uncertain / unknown - no histology
3529	Chronic kidney disease (CKD) / chronic renal failure (CRF) caused by tumour nephrectomy
3540	Chronic kidney disease (CKD) / chronic renal failure (CRF) due to donor nephrectomy
3538	Chronic kidney disease (CKD) / chronic renal failure (CRF) due to traumatic loss of kidney
3708	Chronic renal failure
3643	Chronic renal failure due to systemic infection
3572	Haematuria and proteinuria - no histology
3823	Infiltration by lymphoma - histologically proven
3712	Isolated haematuria - no histology
3720	Isolated proteinuria - no histology
3461	Kidney tumour
3501	Mesoblastic nephroma - histologically proven
3474	Renal cell carcinoma - histologically proven
3691	Renal failure
3517	Single kidney identified in adulthood
3488	Transitional cell carcinoma - histologically proven
3490	Wilms tumour - histologically proven

Appendix 3 - Grouping of causes of death

1994 code	1995 code	COD group	Cause of death
0	0	XI	Cause of death uncertain / not determined
11	11	I	Myocardial ischaemia and infarction
12	12	X	Hyperkalaemia
13	13	X	Haemorrhagic pericarditis
14	14	II	Other causes of cardiac failure
15	15	III	Cardiac arrest / sudden death; other cause or unknown
16	16	II	Hypertensive cardiac failure
17	17	X	Hypokalaemia
18	18	II	Fluid overload / pulmonary oedema
21	21	X	Pulmonary embolus
22	22	IV	Cerebro-vascular accident, other cause or unspecified
23	23	X	Gastro-intestinal haemorrhage
24	24	X	Haemorrhage from graft site
25	25	X	Haemorrhage from vascular access or dialysis circuit
26	26	X	Haemorrhage from ruptured vascular aneurysm (not code 22 or 23)
27	27	X	Haemorrhage from surgery (not code 23, 24 or 26)
28	28	X	Other haemorrhage (not codes 23-27)
29	29	X	Mesenteric infarction
31	31	V	Pulmonary infection (bacterial - not code 73)
32	32	V	Pulmonary infection (viral)
33	33	V	Pulmonary infection (fungal or protozoal; parasitic)
34		V	Infections elsewhere except virus hepatitis
35	35	V	Septicaemia
36	36	V	Tuberculosis (lung)
37	37	V	Tuberculosis (elsewhere)
38	38	V	Generalized viral infection
39	39	V	Peritonitis (all causes except for Peritoneal Dialysis)
41	41	X	Liver disease due to hepatitis B virus
42	42	X	Liver disease due to other viral hepatitis
43	43	X	Liver disease due to drug toxicity
44	44	X	Cirrhosis - not viral
45	45	X	Cystic liver disease
46	46	X	Liver failure - cause unknown
51	51	VI	Patient refused further treatment for ESRF
52	52	VI	Suicide
53	53	VII	ESRF treatment ceased for any other reason
	54	VII	ESRF treatment withdrawn for medical reasons
61		X	Uremia caused by graft failure
62	62	X	Pancreatitis
63	63	X	Bone marrow depression
64	64	VIII	Cachexia
66	66	IX	Malignant disease, possibly induced by immunosuppressive therapy
67	67	IX	Malignant disease: solid tumors except those of 66
	68	IX	Malignant disease: lymphoproliferative disorders except those of 66
69	69	X	Dementia
70	70	V	Peritonitis (sclerosing, with peritoneal dialysis)
71	71	X	Perforation of peptic ulcer
72	72	X	Perforation of colon
73	73	X	Chronic obstructive airways disease
81	81	X	Accident related to ESRF treatment (not code 25)
82	82	X	Accident unrelated to ESRF treatment
	100	V	Peritonitis (bacterial, with peritoneal dialysis)
	101	V	Peritonitis (fungal, with peritoneal dialysis)
	102	V	Peritonitis (due to other cause, with peritoneal dialysis)
99	99	X	Other identified cause of death

COD group: I: myocardial ischaemia and infarction; II: heart failure; III: cardiac arrest, other cause / unknown; IV: cerebrovascular accident; V: infection; VI: suicide / refusal treatment; VII: withdrawal; VIII: cachexia; IX: malignancies; X: miscellaneous; XI: unknown / unavailable

Appendix 4 - Event type codes

Event code	Event
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001	Home haemodialysis
002	Centre haemodialysis
003	Haemofiltration
004	Haemodiafiltration
009	Haemodialysis, type unknown
011	Continuous Ambulatory Peritoneal Dialysis (CAPD)
012	Intermittent Ambulatory Peritoneal Dialysis (CAPD)
013	Continuous Automated Peritoneal Dialysis (APD)
014	Intermittent Automated Peritoneal Dialysis (APD)
019	Peritoneal Dialysis, type unknown
090	Unknown dialysis
020	Transplantation, living donor
021	Transplantation, living related donor
022	Transplantation, living unrelated donor
023	Transplantation, deceased donor
029	Transplantation, donor type unknown
060	Transplantation follow-up (still functioning)
061	Graft failure
031	Treatment type unknown / unavailable
051	Recovery Renal Function
052	Death
053	Transfer out to other registry
054	Transfer in from other registry
055	Lost to follow-up
071	Limited care / stopped treatment (without recovery of renal function)

Appendix 5 - Renal registries contributing data for the different types of analyses

	Registries providing individual patient data			Registries providing aggregated data	Registries providing paediatric data
	Incidence and prevalence	Survival	Expected remaining lifetimes	Incidence and prevalence	Incidence and prevalence
Albania	-	-	-	+	-
Austria	+	+	+	-	+
Belarus	-	-	-	+	-
Belgium, Dutch-speaking	+	+	+	-	-
Belgium, French-speaking	+	+	+	-	-
Bosnia and Herzegovina	+	-	-	-	+
Bulgaria	-	-	-	+	-
Croatia	-	-	-	+	-
Cyprus	-	-	-	+	-
Czech Republic	-	-	-	+	-
Denmark	+	+	+	-	+
Estonia	+	-	-	-	+
Finland	+	+	+	-	+
France	+	+	+	-	+
Georgia	-	-	-	+	-
Greece	+	+	+	-	+
Iceland	+	+	+	-	+
Israel	-	-	-	+	-
Italy (8 of 20 regions)	-	-	-	+	-
Kosovo	-	-	-	+	-
Latvia	-	-	-	+	-
Lithuania	-	-	-	+	-
North Macedonia	-	-	-	+	-
Norway	+	+	+	-	+
Poland	-	-	-	+	-
Portugal	-	-	-	+	-
Romania	+	-	-	-	+
Russia	-	-	-	+	-
Serbia	+	-	-	-	+
Slovakia	-	-	-	+	-
Spain, Andalusia	+	+	+	+	+
Spain, Aragon	+	+	+	+	+
Spain, Asturias	+	+	+	+	+
Spain, Balearic Islands	-	-	-	+	-
Spain, Basque country	+	+	+	+	+
Spain, Canary Islands	+	-	-	+	-
Spain, Cantabria	+	+	+	+	-
Spain, Castile and León	+	+	+	+	-
Spain, Castile-La Mancha	+	+	+	+	-
Spain, Catalonia	+	+	+	+	+
Spain, Ceuta	-	-	-	+	-
Spain, Community of Madrid	+	+	+	+	+
Spain, Extremadura	+	+	+	+	+
Spain, Galicia	+	+	+	+	+
Spain, Melilla	-	-	-	+	-
Spain, Murcia	+	-	-	+	+
Spain, Navarre	+	-	-	+	-
Spain, La Rioja	-	-	-	+	-
Spain, Valencian region	-	-	-	+	-
Sweden	+	+	+	-	+
Switzerland	+	-	-	-	+
the Netherlands	+	+	+	-	+
Tunisia, Sfax region	-	-	-	+	-
Turkey	-	-	-	+	-
Ukraine	-	-	-	+	-
United Kingdom, England	+	+	+	-	-
United Kingdom, Northern Ireland	+	+	+	-	-
United Kingdom, Scotland	+	+	+	-	+
United Kingdom, Wales	+	+	+	-	-

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