Summary of the 2014 ERA-EDTA Registry Annual Report
National and regional renal registries that contributed data to the 2014 ERA-EDTA Registry Annual Report

- Red: Renal registries contributing with individual patient data
- Orange: Renal registries contributing with aggregated data
Incident patients accepted for RRT in 2014, at day 1
by country

Unadjusted incidence
renal registries providing individual patient data

Iceland: 58
Finland: 84
Estonia: 87
UK, Northern Ireland: 92
Montenegro: 93
Norway: 102
Spain, Cantabria: 104
UK, Scotland: 104
Spain, Extremadura: 113
the Netherlands: 115
UK, England: 116
UK, Wales: 118
Bosnia and Herzegovina: 120
Spain, Castile and León: 120
Sweden: 120
Austria: 122
Spain, Castile-La Mancha: 122
Spain, Aragon: 123
Spain, Andalusia: 125
Spain, Community of Madrid: 128
Spain, Navarre: 130
Denmark: 131
Spain, Region of Murcia: 132
Serbia: 138
Spain, Asturias: 139
Spain, Valencian region: 141
Spain, Galicia: 145
Romania: 152
Spain, Catalonia: 157
France: 163
Belgium, French-speaking: 173
Belgium, Dutch-speaking: 178
Greece: 218
All countries: 218

Unadjusted incidence
renal registries providing aggregated data

Ukraine: 23
Albania: 88
Latvia: 96
Switzerland: 97
Lithuania: 104
Poland: 119
Macedonia: 133
Spain (All): 133
Tunisia, Sfax region: 139
Turkey: 147
Italy (6 of 20 regions): 152
Slovakia: 153
Croatia: 157
Georgia: 165
Bulgaria: 166
Czech Republic: 197
Israel: 203
Cyprus: 204
Portugal: 237
All countries: 237
Incident patients accepted for RRT in 2014, at day 1
by country, adjusted for age and gender

Adjusted incidence
renal registries providing individual patient data

Adjusted incidence
renal registries providing aggregated data
Incident patients accepted for RRT in 2014, at day 1

Mean age at start of RRT
renal registries providing individual patient data

Montenegro: 56.2
UK, Scotland: 58.8
Finland: 59.3
Bosnia and Herzegovina: 60.7
Romania: 61.1
Estonia: 61.1
Serbia: 61.2
Spain, Cantabria: 61.4
Iceland: 62.0
UK, England: 62.3
Norway: 62.4
Sweden: 62.5
Spain, Andalusia: 62.6
Spain, Region of Murcia: 62.9
the Netherlands: 63.6
Spain, Castile-La Mancha: 63.7
Spain, Aragon: 64.1
Denmark: 64.2
Austria: 64.2
Spain, Community of Madrid: 64.3
Spain, Asturias: 64.5
UK, Northern Ireland: 64.6
Spain, Galicia: 65.0
Spain, Navarre: 65.0
UK, Wales: 65.5
Spain, Basque country: 65.5
Spain, Valencian region: 65.9
Spain, Catalonia: 66.0
Spain, Extremadura: 66.0
Belgium, French-speaking: 67.5
France: 67.6
Spain, Castile and León: 67.6
Greece: 69.7
Belgium, Dutch-speaking: 70.1

Mean age at start of RRT
renal registries providing aggregated data

Albania: 55.1
Lithuania: 57.8
Georgia: 58.4
Tunisia, Sfax region: 60.1
Spain (All): 63.0
Macedonia: 63.2
Latvia: 63.3
Croatia: 63.7
Slovakia: 63.8
Switzerland: 64.5
Cyprus: 64.6
Israel: 64.6
Italy (6 of 20 regions): 68.6

All countries: 64.9
All countries: 64.0
### Mean age at start of RRT

#### Male patients starting RRT in 2014

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<td>All countries</td>
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</tbody>
</table>
Incident patients accepted for RRT in 2014, at day 1

by age category

Incidence by age category
for all registries

- 75+: 505.5
- 65-74: 394.0
- 45-64: 170.3
- 20-44: 45.2
- 0-19: 5.6

Incidence (per million age-related population)

Incidence by age category
by type of data provided by registry

- 75+: 29 30 29
- 65-74: 26 26 27
- 45-64: 32 32 32
- 20-44: 32 32 32
- 0-19: 11 11 11

All countries  Individual data  Aggregated data
Incident patients accepted for RRT in 2014, at day 1
by gender

Incidence by gender
for all registries

Women: 92.5
Men: 164.4

Incidence by gender
by type of data provided by registry

- All countries:
  - Women: 37%
  - Men: 63%
- Individual data:
  - Women: 36%
  - Men: 64%
- Aggregated data:
  - Women: 38%
  - Men: 62%
Incident patients accepted for RRT in 2014, at day 1
by primary renal disease

Incidence by primary renal disease
for all registries

- Unknown/missing: 17.7
- Miscellaneous: 18.4
- Renal vascular disease: 2.7
- Hypertension: 17.5
- Diabetes mellitus: 28.0
- Polycystic kidneys, adult type: 6.5
- Pyelonephritis: 6.1
- Glomerulonephritis/sclerosis: 13.3

Incidence by primary renal disease
by type of data provided by registry

- All countries
  - Unknown/missing: 19
  - Miscellaneous: 15
  - Renal vascular disease: 2
  - Hypertension: 2
  - Diabetes mellitus: 26
  - Polycystic kidneys, adult type: 22
  - Pyelonephritis: 5
  - Glomerulonephritis/sclerosis: 11

- Individual data
  - Unknown/missing: 21
  - Miscellaneous: 17
  - Renal vascular disease: 3
  - Hypertension: 2
  - Diabetes mellitus: 22
  - Polycystic kidneys, adult type: 6
  - Pyelonephritis: 5
  - Glomerulonephritis/sclerosis: 11

- Aggregated data
  - Unknown/missing: 18
  - Miscellaneous: 12
  - Renal vascular disease: 2
  - Hypertension: 2
  - Diabetes mellitus: 30
  - Polycystic kidneys, adult type: 15
  - Pyelonephritis: 4
  - Glomerulonephritis/sclerosis: 20

Incidence (per million population)
Incident patients accepted for RRT in 2014, at day 1
by primary renal disease and age category

Incidence by primary renal disease
patients from registries providing individual patient data only

all patients
- Glomerulonephritis/ sclerosis, 11.4%
- Pyelonephritis, 5.1%
- Polycystic kidneys, adult type, 5.6%
- Miscellaneous, 17.2%
- Diabetes mellitus, 22.3%
- Renal vascular disease, 2.6%
- Hypertension, 14.7%

patients younger than 65 years of age at the start of RRT
- Unkn/miss, 7.5%
- GN, 16.4%
- PN, 5.7%
- PKD, 8.9%
- Miscellaneous, 16.5%
- DM, 22.0%
- RVD, 1.2%
- HT, 8.8%

patients aged 65 years or older at the start of RRT
- Unkn/miss, 22.8%
- PN, 4.7%
- PKD, 3.1%
- DM, 22.5%
- HT, 19.3%
- RVD, 3.7%
Incident patients accepted for RRT in 2014, at day 91
by established modality

Incidence at day 91
by established modality
for all registries

- Haemodialysis: 109.6
- Peritoneal dialysis: 16.7
- Transplant: 6.9
- Unknown / missing: 0.1

Incidence (per million population)

Incidence at day 91
by established modality
by type of data provided by registry

- All countries
  - Tx: 81
  - PD: 78
  - HD: 88
- Individual data
  - Tx: 6
  - PD: 15
  - HD: 3
- Aggregated data
  - Tx: 6
  - PD: 8
  - HD: 8
Incident patients accepted for RRT in 2014, at day 91
by established modality and age category

Incidence at day 91 by established modality
patients from registries providing individual patient data only

all patients
- Transplant, 5.8%
- Peritoneal dialysis, 14.5%
- Haemodialysis, 79.6%

patients younger than 65 years of age at the start of RRT
- Transplant, 10.9%
- Peritoneal dialysis, 12.7%
- Haemodialysis, 72.3%

patients aged 65 years or older at the start of RRT
- Transplant, 1.9%
- Peritoneal dialysis, 12.7%
- Haemodialysis, 85.5%
Incident patients accepted for RRT, trend over time
last 20 years (1995-2014)

Unadjusted incidence over time
all patients starting RRT

Adjusted incidence over time
all patients starting RRT
Incident patients accepted for RRT, trend over time
last 15 years (2000-2014)

Unadjusted incidence over time
all patients starting RRT

Adjusted incidence over time
all patients starting RRT
Incident patients accepted for RRT, trend over time
last 10 years (2005-2014)

Unadjusted incidence over time
all patients starting RRT

Adjusted incidence over time
all patients starting RRT
Incident patients accepted for RRT, trend over time
last 5 years (2010-2014)

Unadjusted incidence over time
all patients starting RRT

Adjusted incidence over time
all patients starting RRT

Incidence (per million population)


Incidence (per million population)

Prevalent patients on RRT in 2014 by country
Prevalent patients on RRT in 2014 by country

Unadjusted prevalence
renal registries providing individual patient data

- Montenegro: 476
- Estonia: 634
- Iceland: 675
- Bosnia and Herzegovina: 759
- Serbia: 822
- Finland: 837
- UK, Northern Ireland: 868
- UK, Scotland: 890
- Romania: 894
- Denmark: 906
- UK, Wales: 915
- UK, England: 915
- Norway: 918
- Sweden: 955
- the Netherlands: 967
- Spain, Cantabria: 1025
- Spain, Community of Madrid: 1044
- Spain, Castile-La Mancha: 1054
- Austria: 1062
- Spain, Castile and León: 1084
- Spain, Extremadura: 1110
- Spain, Navarre: 1122
- Spain, Andalusia: 1136
- Spain, Aragon: 1147
- Spain, Asturias: 1160
- Spain, Basque country: 1187
- Greece: 1203
- France: 1209
- Belgium, Dutch-speaking: 1238
- Belgium, French-speaking: 1250
- Spain, Region of Murcia: 1258
- Spain, Galicia: 1265
- Spain, Valencian region: 1298
- Spain, Catalonia: 1312

All countries: 1048

Unadjusted prevalence
renal registries providing aggregated data

- Ukraine: 157
- Switzerland: 344
- Albania: 374
- Georgia: 467
- Bulgaria: 578
- Spain (All): 604
- Slovakia: 627
- Latvia: 678
- Lithuania: 729
- Macedonia: 763
- Israel: 765
- Poland: 856
- Turkey: 918
- Croatia: 1055
- Czech Republic: 1069
- Italy (6 of 20 regions): 1162
- Spain (All): 1177
- Portugal: 1794

All countries: 842

Prevalence (per million population)
Prevalent patients on RRT in 2014
by country, adjusted for age and gender

Adjusted prevalence
renal registries providing individual patient data

Montenegro 492
Estonia 640
Iceland 762
Serbia 763
Finland 797
UK, Scotland 880
Romania 888
Bosnia and Herzegovina 889
Denmark 895
UK, Wales 896
Spain, Castile and León 908
Spain, Cantabria 935
Sweden 936
UK, Northern Ireland 939
UK, England 940
the Netherlands 953
Norway 963
Spain, Asturias 972
Austria 1028
Spain, Aragon 1051
Spain, Extremadura 1053
Spain, Castile-La Mancha 1060
Spain, Basque country 1068
Spain, Navarre 1083
Spain, Community of Madrid 1085
Spain, Galicia 1093
Greece 1095
Belgium, Dutch-speaking 1153
Spain, Andalusia 1172
France 1209
Spain, Valencian region 1261
Spain, Catalonia 1302
Belgium, French-speaking 1317
Spain, Region of Murcia 1393
All countries 1041

Prevalence (per million population)

Adjusted prevalence
renal registries providing aggregated data

Switzerland 418
Albania 437
Georgia 510
Latvia 601
Slovakia 658
Macedonia 986
Tunisia, Sfax region 1000
Croatia 1007
Italy (6 of 20 regions) 1048
Spain (All) 1102
Israel 1150
All countries 962

Prevalence (per million population)
Prevalent patients on RRT in 2014

Mean age at 31 December 2014
renal registries providing individual patient data

- Montenegro: 52.4
- Iceland: 56.0
- UK, Scotland: 56.5
- Estonia: 57.8
- UK, Northern Ireland: 58.2
- Serbia: 58.3
- Denmark: 58.4
- UK, England: 58.4
- Finland: 58.8
- Norway: 59.1
- Bosnia and Herzegovina: 59.4
- Sweden: 59.5
- Romania: 59.9
- the Netherlands: 59.9
- Spain, Andalusia: 60.0
- Austria: 60.8
- Spain, Cantabria: 61.0
- Spain, Community of Madrid: 61.4
- Spain, Extremadura: 61.4
- Spain, Basque country: 61.5
- Spain, Castile-La Mancha: 61.6
- Spain, Region of Murcia: 61.7
- Spain, Galicia: 61.9
- Spain, Navarre: 61.9
- France: 62.2
- Spain, Catalonia: 62.3
- Spain, Asturias: 62.4
- Spain, Aragon: 62.5
- Spain, Valencian region: 62.7
- Spain, Castile and Leon: 63.8
- Greece: 63.8
- Belgium, French-speaking: 64.6
- Belgium, Dutch-speaking: 65.5

Mean age at 31 December 2014
renal registries providing aggregated data

- Albania: 51.4
- Latvia: 55.7
- Georgia: 56.1
- Macedonia: 56.9
- Tunisia, Sfax region: 58.2
- Spain (All): 59.5
- Israel: 60.9
- Italy (6 of 20 regions): 61.8
- Slovakia: 62.7
- Croatia: 64.6
- Portugal: 66.4
- Switzerland: 68.1

Mean age (years)

- All countries: 60.9
- Mean age (years)

50 55 60 65 70
Prevalent patients on RRT in 2014
mean age by gender, for registries providing individual patient data only

Mean age at 31 December 2014
male patients on RRT in 2014

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<tr>
<th>Country</th>
<th>Male Mean Age</th>
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<tbody>
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Mean age at 31 December 2014
female patients on RRT in 2014

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<tr>
<td>Finland</td>
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<tr>
<td>UK, Wales</td>
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<tr>
<td>Estonia</td>
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<td>58.7</td>
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<tr>
<td>Sweden</td>
<td>58.7</td>
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<tr>
<td>Spain, Cantabria</td>
<td>59.7</td>
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<tr>
<td>the Netherlands</td>
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<tr>
<td>Bosnia and Herzegovina</td>
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<tr>
<td>Romania</td>
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<tr>
<td>Austria</td>
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<tr>
<td>Spain, Community of Madrid</td>
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<tr>
<td>Spain, Andalusia</td>
<td>60.9</td>
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<tr>
<td>Spain, Basque country</td>
<td>61.0</td>
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<tr>
<td>Spain, Navarre</td>
<td>61.8</td>
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<tr>
<td>Spain, Region of Murcia</td>
<td>61.8</td>
</tr>
<tr>
<td>Spain, Galicia</td>
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<tr>
<td>Spain, Aragon</td>
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<tr>
<td>Spain, Castile-La Mancha</td>
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<tr>
<td>Spain, Asturias</td>
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<tr>
<td>France</td>
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<td>Spain, Extremadura</td>
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<tr>
<td>Spain, Catalonia</td>
<td>62.4</td>
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<tr>
<td>Spain, Valencian region</td>
<td>63.1</td>
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<tr>
<td>Spain, Castile and León</td>
<td>64.2</td>
</tr>
<tr>
<td>Greece</td>
<td>64.4</td>
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<tr>
<td>Belgium, French-speaking</td>
<td>64.6</td>
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<tr>
<td>Belgium, Dutch-speaking</td>
<td>66.1</td>
</tr>
<tr>
<td>All countries</td>
<td>60.9</td>
</tr>
</tbody>
</table>
Prevalent patients on RRT in 2014
by age category

Prevalence by age category

for all registries

- 75+: 2519
- 65-74: 2473
- 45-64: 1480
- 20-44: 463
- 0-19: 39

Prevalence (per million age-related population)

Prevalence by age category

by type of data provided by registry

- All countries
- Individual data
- Aggregated data

75+: 21%
65-74: 23%
45-64: 23%
20-44: 39%
0-19: 16%
Prevalent patients on RRT in 2014
by gender

Prevalence by gender

for all registries

- Women: 308
- Men: 518

Prevalence by gender
by type of data provided by registry

- All countries: Women 40%, Men 60%
- Individual data: Women 39%, Men 61%
- Aggregated data: Women 40%, Men 60%
Prevalent patients on RRT in 2014
by primary renal disease and age category

Prevalence by primary renal disease
patients from registries providing individual patient data only

all patients

patients younger than 65 years of age at 31 December 2014

patients aged 65 years or older at 31 December 2014
Prevalent patients on RRT in 2014
by modality

Prevalence by modality
for all registries

- Haemodialysis: 529
- Peritoneal dialysis: 50
- Transplant: 340
- Unknown / missing: 6

Prevalence by modality
by type of data provided by registry

- Unkn
- TX
- PD
- HD

- All countries
- Individual data
- Aggregated data

Prevalence (per million population)
Prevalent patients on RRT in 2014
by modality and age category

Prevalence by modality
patients from registries providing individual patient data only

- all patients
  - Transplant, 45.4%
  - Haemodialysis, 49.0%
  - Peritoneal dialysis, 5.4%

- patients younger than 65 years of age at 31 December 2014
  - Transplant, 59.1%
  - Haemodialysis, 36.0%
  - Peritoneal dialysis, 6.4%

- patients aged 65 years or older at 31 December 2014
  - Transplant, 27.8%
  - Haemodialysis, 65.7%
Prevalent patients on RRT, trend over time
last 20 years (1995-2014)

**Unadjusted prevalence over time**
*all patients on RRT*

**Adjusted prevalence over time**
*all patients on RRT*
Prevalent patients on RRT, trend over time

last 15 years (2000-2014)

Unadjusted prevalence over time
all patients on RRT

Adjusted prevalence over time
all patients on RRT
Prevalent patients on RRT, trend over time
last 10 years (2005-2014)

Unadjusted prevalence over time
all patients on RRT

Adjusted prevalence over time
all patients on RRT
Prevalent patients on RRT, trend over time

last 5 years (2010-2014)

Unadjusted prevalence over time

all patients on RRT

Adjusted prevalence over time

all patients on RRT
Renal transplants performed in 2014
by country

Renal transplant rate
renal registries providing individual patient data

Renal transplant rate
renal registries providing aggregated data
Renal transplants performed in 2014
transplants from deceased donors, by country

Deceased donor transplant rate
renal registries providing individual patient data

Deceased donor transplant rate
renal registries providing aggregated data

Renal transplants (per million population)
Renal transplants performed in 2014
by donor type

Renal transplants by donor type
for all registries

- Unknown donor: 0.4
- Deceased donor: 24.8
- Living donor: 11.3

Renal transplants by donor type
by type of data provided by registry

- All countries:
  - Unknown: 68
  - Deceased: 74
  - Living: 63

- Individual data:
  - Unknown: 31
  - Deceased: 24
  - Living: 35

- Aggregated data:
  - Unknown: 68
  - Deceased: 74
  - Living: 63
Renal transplants performed in 2014
by donor type

Renal transplants by donor type
patients from registries providing individual patient data only

- **all patients**
  - Donor type unknown, 1.9%
  - Living donor, 24.8%
  - Deceased donor, 73.3%

- **patients younger than 65 years of age at transplantation**
  - Donor type unknown, 2.0%
  - Living donor, 27.5%
  - Deceased donor, 70.5%

- **patients aged 65 years or older at transplantation**
  - Donor type unknown, 1.4%
  - Living donor, 14.5%
  - Deceased donor, 84.2%
Survival probability
by modality

Adjusted survival* (cohort 2005-2009)
incident dialysis patients and patients receiving
a first transplant
from day 91, by modality
adjusted for age, gender and cause of renal failure
*with transplantation as a censored observation in dialysis survival

Adjusted survival* (cohort 2005-2009)
incident dialysis patients and patients receiving
a first transplant
from day 91, by modality
adjusted for age, gender and cause of renal failure
*with transplantation as a competing event in dialysis survival
Adjusted survival* (cohort 2005-2009)
incident haemodialysis patients
from day 91, by modality
adjusted for age, gender and cause of renal failure
*with transplantation as a censored observation in dialysis survival

Adjusted survival* (cohort 2005-2009)
incident haemodialysis patients
from day 91, by modality
adjusted for age, gender and cause of renal failure
* with transplantation as a competing event in dialysis survival

[Graphs showing survival probability by years for different diagnoses such as Diabetes, Hypertension/renal vascular disease, Glomerulonephritis, Other cause, and All.]

Survival probability (%)

0 1 2 3 4 5
Years

Diabetes
Hypertension/renal vascular disease
Glomerulonephritis
Other cause
All
Adjusted survival* (cohort 2005-2009)
incident peritoneal dialysis patients
from day 91, by modality
adjusted for age, gender and cause of renal failure
*with transplantation as a censored observation in dialysis survival

Adjusted survival* (cohort 2005-2009)
incident peritoneal dialysis patients
from day 91, by modality
adjusted for age, gender and cause of renal failure
*with transplantation as a competing event in dialysis survival
Analyses included data from the following countries and regions: Austria, Belgium (French-speaking part), Denmark, Finland, Greece, Iceland, the Netherlands, Norway, Andalusia (Spain), Catalonia (Spain), Scotland (UK) and Sweden.

Survival probabilities were adjusted for fixed values for age (60 years), gender (60% men), and the primary renal disease distribution (20% diabetes mellitus, 17% hypertension/renal vascular disease, 15% glomerulonephritis and 48% other primary renal diseases).
Patient survival on renal replacement therapy

by cohort

Patient survival:
incident RRT patients

adjusted for age, gender and cause of renal failure

Analyses included data from the following countries and regions: Austria, Belgium (French-speaking part), Denmark, Finland, Greece, Iceland, the Netherlands, Norway, Andalusia (Spain), Catalonia (Spain), Scotland (UK) and Sweden.

Survival probabilities were adjusted for fixed values for age (60 years), gender (60% men), and the primary renal disease distribution (20% diabetes mellitus, 17% hypertension/renal vascular disease, 15% glomerulonephritis and 48% other primary renal diseases).
Patient survival on dialysis
by cohort

Patient survival:
incident dialysis patients

adjusted for age, gender and cause of renal failure

Survival was examined using the Fine and Gray competing risk method, with kidney transplantation as a competing event.

Analyses included data from the following countries and regions: Austria, Belgium (French-speaking part), Denmark, Finland, Greece, Iceland, the Netherlands, Norway, Andalusia (Spain), Catalonia (Spain), Scotland (UK) and Sweden.

Survival probabilities were adjusted for fixed values for age (60 years), gender (60% men), and the primary renal disease distribution (20% diabetes mellitus, 17% hypertension / renal vascular disease, 15% glomerulonephritis and 48% other primary renal diseases).
Patient survival was examined using the Fine and Gray competing risk method, with kidney transplantation as a competing event. Analyses included data from the following countries and regions: Austria, Belgium (French-speaking part), Denmark, Finland, Greece, Iceland, the Netherlands, Norway, Andalusia (Spain), Catalonia (Spain), Scotland (UK) and Sweden. Survival probabilities were adjusted for fixed values for age (60 years), gender (60% men), and the primary renal disease distribution (20% diabetes mellitus, 17% hypertension/renal vascular disease, 15% glomerulonephritis and 48% other primary renal diseases).
Analyses included data from the following countries and regions: Austria, Belgium (French-speaking part), Denmark, Finland, Greece, Iceland, the Netherlands, Norway, Andalusia (Spain), Catalonia (Spain), Scotland (UK) and Sweden.

Survival probabilities were adjusted for fixed values for age (60 years), gender (60% men), and the primary renal disease distribution (20% diabetes mellitus, 17% hypertension / renal vascular disease, 15% glomerulonephritis and 48% other primary renal diseases).
Patient survival after first kidney transplantation
by cohort

Patient survival:
after first kidney transplantation
adjusted for age, gender and cause of renal failure

Analyses included data from the following countries and regions: Austria, Belgium (French-speaking part), Denmark, Finland, Greece, Iceland, the Netherlands, Norway, Andalusia (Spain), Catalonia (Spain), Scotland (UK) and Sweden.

Survival probabilities were adjusted for fixed values for age (60 years), gender (60% men), and the primary renal disease distribution (20% diabetes mellitus, 17% hypertension / renal vascular disease, 15% glomerulonephritis and 48% other primary renal diseases).