Summary of the 2013 ERA-EDTA Registry Annual Report
National and regional renal registries that contributed data to the 2013 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 2013, at day 1
by country

**Unadjusted incidence, by country**
renal registries providing individual patient data

- Estonia: 64
- Iceland: 77
- Spain, Cantabria: 88
- Finland: 89
- United Kingdom, Scotland: 96
- United Kingdom, Northern Ireland: 97
- Norway: 101
- Spain, Castile-La Mancha: 103
- Spain, Castile and León: 108
- Spain, Region of Murcia: 109
- United Kingdom, England: 110
- United Kingdom, Wales: 112
- the Netherlands: 115
- Sweden: 116
- Bosnia and Herzegovina: 116
- Denmark: 117
- Spain, Basque country: 122
- Spain, Community of Madrid: 122
- Spain, Extremadura: 123
- Slovenia: 126
- Spain, Andalusia: 126
- Spain, Aragon: 132
- Spain, Valencian region: 134
- Austria: 142
- Spain, Galicia: 142
- Romania: 145
- Spain, Catalonia: 145
- Serbia: 147
- Spain, Asturias: 159
- France: 159
- Belgium, French-speaking: 183
- Belgium, Dutch-speaking: 187
- Greece: 216

**Unadjusted incidence, by country**
renal registries providing aggregated data

- Montenegro: 27
- Ukraine: 30
- Russia: 50
- Albania: 74
- Latvia: 81
- Switzerland: 94
- Lithuania: 112
- Poland: 133
- Turkey: 138
- Croatia: 157
- Slovakia: 158
- Bulgaria: 166
- Georgia: 181
- Israel: 181
- Cyprus: 187
- Czech Republic: 199
- Portugal: 230

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**Incidence (per million population)**
Incident patients accepted for RRT in 2013, at day 1
by country, adjusted for age and gender

Adjusted incidence, by country
renal registries providing individual patient data

- Estonia: 65
- Spain, Cantabria: 81
- Finland: 84
- Spain, Castile and León: 88
- Iceland: 90
- United Kingdom, Scotland: 102
- Spain, Castile-La Mancha: 106
- United Kingdom, Wales: 108
- United Kingdom, Northern Ireland: 108
- Norway: 108
- Spain, Basque country: 109
- Sweden: 112
- United Kingdom, England: 113
- Spain, Extremadura: 115
- the Netherlands: 116
- Denmark: 116
- Spain, Aragon: 120
- Spain, Galicia: 121
- Slovenia: 123
- Spain, Region of Murcia: 124
- Spain, Asturias: 131
- Spain, Valencian region: 131
- Spain, Community of Madrid: 131
- Spain, Andalusia: 134
- Serbia: 136
- Bosnia and Herzegovina: 137
- Austria: 138
- Romania: 145
- Spain, Catalonia: 146
- France: 157
- Belgium, Dutch-speaking: 172
- Greece: 190
- Belgium, French-speaking: 193
- All countries: 134

Adjusted incidence, by country
renal registries providing aggregated data

- Montenegro: 41
- Estonia: 63
- Albania: 90
- Switzerland: 94
- Lithuania: 113
- Croatia: 150
- Slovakia: 176
- Georgia: 200
- Cyprus: 226
- Israel: 269
- All countries: NA
Incident patients accepted for RRT in 2013, at day 1

Mean age at start RRT
renal registries providing individual patient data

Mean age at start RRT
renal registries providing aggregated data

<table>
<thead>
<tr>
<th>Country</th>
<th>Mean age (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iceland</td>
<td>57.0</td>
</tr>
<tr>
<td>Finland</td>
<td>60.3</td>
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<table>
<thead>
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<th>Mean age (years)</th>
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<td>Cyprus</td>
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<td>Switzerland</td>
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<td>All countries</td>
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</tr>
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</table>
Incident patients accepted for RRT in 2013, at day 1
mean age by gender

Mean age at start RRT
male patients starting RRT in 2013

Iceland 57.0
Finland 59.9
United Kingdom, Scotland 60.5
Romania 60.5
Bosnia and Herzegovina 61.3
Spain, Region of Murcia 61.7
Spain, Andalusia 61.8
Estonia 62.0
United Kingdom, England 62.3
Serbia 62.5
Spain, Cantabria 62.9
United Kingdom, Northern Ireland 63.5
Denmark 63.5
Spain, Castile-La Mancha 63.5
Norway 63.7
Spain, Basque country 64.0
Spain, Community of Madrid 64.1
Sweden 64.4
the Netherlands 64.6
Austria 64.8
Slovenia 64.8
Spain, Catalonia 65.0
Spain, Galicia 65.1
Spain, Extremadura 65.4
Spain, Valencian region 65.6
United Kingdom, Wales 66.0
Spain, Asturias 66.2
Spain, Castile and León 66.8
Belgium, French-speaking 67.3
France 67.5
Spain, Aragon 67.6
Greece 69.1
Belgium, Dutch-speaking 69.5
All countries 65.0

Mean age at start RRT
female patients starting RRT in 2013

Iceland 57.1
Spain, Cantabria 59.9
Bosnia and Herzegovina 60.3
Romania 60.7
United Kingdom, Scotland 60.8
Finland 61.1
United Kingdom, Northern Ireland 61.1
Serbia 61.2
United Kingdom, England 61.5
Spain, Community of Madrid 61.7
the Netherlands 62.3
Norway 62.6
Estonia 62.7
Spain, Andalusia 62.9
Denmark 63.1
Spain, Asturias 63.1
Spain, Basque country 63.3
Sweden 63.3
Spain, Extremadura 63.5
Spain, Region of Murcia 63.7
Spain, Galicia 64.2
Austria 65.3
Spain, Valencian region 65.3
Spain, Aragon 65.5
Spain, Catalonia 66.3
Slovenia 66.9
Spain, Castile-La Mancha 67.1
France 67.8
Spain, Castile and León 68.6
Belgium, French-speaking 70.2
Belgium, Dutch-speaking 70.3
Greece
All countries 64.6

Mean age (years)
Incident patients accepted for RRT in 2013, at day 1
by cause of renal failure and age category

Incidence, by cause of renal failure
patients younger than 65 years of age at start RRT in 2013

- Glomerulonephritis/sclerosis, 16.6%
- Polycystic kidneys, 5.8%
- Diabetes mellitus, 22.2%
- Renal vascular disease, 1.4%
- Hypertension, 9.3%
- Miscellaneous, 17.1%
- Unknown, 14.3%
- Missing, 3.5%

Incidence, by cause of renal failure
patients older than 65 years of age at start RRT in 2013

- Glomerulonephritis/sclerosis, 7.5%
- Hypertension, 22.5%
- Diabetes mellitus, 22.2%
- Polycystic kidneys, adult type, 3.1%
- Miscellaneous, 16.3%
- Pyelonephritis, 5.0%
- Renal vascular disease, 4.1%
- Unknown, 19.4%
- Missing, 2.3%
Incident patients accepted for RRT in 2013, at day 91
by established modality

Incidence at day 91, by established modality
all patients starting RRT in 2013

- Haemodialysis: 98.2%
- Peritoneal dialysis: 17.5%
- Transplant: 6.6%
- Unknown / missing: 1.0%

Incidence at day 91, by established modality
all patients starting RRT in 2013

- Haemodialysis: 79.2%
- Transplant: 5.7%
- Peritoneal dialysis: 15.0%
- Unknown/missing: 0.1%
Incident patients accepted for RRT in 2013, at day 91
by established modality and age category

Incidence at day 91, by established modality

patients younger than 65 years of age at start RRT in 2013

- Transplant, 10.5%
- Peritoneal dialysis, 17.4%
- Haemodialysis, 71.9%
- Unknown/missing, 0.2%

Incidence at day 91, by established modality

patients older than 65 years of age at start RRT in 2013

- Transplant, 1.7%
- Peritoneal dialysis, 13.1%
- Haemodialysis, 85.2%
- Unknown/missing, 0.1%
Incident patients accepted for RRT, trend over time
last 20 years (1994-2013)

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 (1999-2013)

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 (2004-2013)

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 (2009-2013)

Unadjusted incidence over time
all patients starting RRT

Adjusted incidence over time
all patients starting RRT
Prevalent patients on RRT in 2013
by country

Legend:
- ≤750 pmp
- 750-1000 pmp
- 1000-1500 pmp
- >1500 pmp
- No data available
Prevalent patients on RRT in 2013 by country

Unadjusted prevalence, by country
renal registries providing individual patient data

Prevalence (per million population)

Unadjusted prevalence, by country
renal registries providing aggregated data

Prevalence (per million population)
Prevalent patients on RRT in 2013
mean age at December 31

### Mean age at 31 December 2013
renal registries providing individual patient data

<table>
<thead>
<tr>
<th>Country</th>
<th>Mean age (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iceland</td>
<td>55.8</td>
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<tr>
<td>United Kingdom, Scotland</td>
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<td>United Kingdom, Northern Ireland</td>
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<tr>
<td>Serbia</td>
<td>58.1</td>
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<td>United Kingdom, England</td>
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<td>Denmark</td>
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<td>Bosnia and Herzegovina</td>
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<td>Spain, Community of Madrid</td>
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<tr>
<td>Spain, Basque country</td>
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<td>Spain, Castile-La Mancha</td>
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<td>Spain, Castile-La Mancha</td>
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<td>Spain, Aragon</td>
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<td>Greece</td>
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<td>Belgium, French-speaking</td>
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<tr>
<td>Belgium, Dutch-speaking</td>
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</tr>
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### Mean age at 31 December 2013
renal registries providing aggregated data

<table>
<thead>
<tr>
<th>Country</th>
<th>Mean age (years)</th>
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<tbody>
<tr>
<td>Albania</td>
<td>49.1</td>
</tr>
<tr>
<td>Russia</td>
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<td>Latvia</td>
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<td>Georgia</td>
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<td>Montenegro</td>
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<td>Israel</td>
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<tr>
<td>Israel</td>
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<td>Croatia</td>
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<td>Portugal</td>
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<tr>
<td>Switzerland</td>
<td>68.8</td>
</tr>
</tbody>
</table>

All countries = 60.6
Prevalent patients on RRT in 2013
mean age by gender at December 31

Mean age at 31 December 2013
male patients on RRT in 2013

- Estonia
- UK, Scotland
- Iceland
- UK, Northern Island
- Bosnia and Herzegovina
- Serbia
- UK, England
- Denmark
- Romania
- Finland
- Spain, Andalusia
- Norway
- the Netherlands
- UK, Wales
- Sweden
- Spain, Extremadura
- Austria
- Spain, Community of Madrid
- Spain, Castile-La Mancha
- Spain, Region of Murcia
- Slovenia
- Spain, Basque country
- Spain, Cantabria
- Spain, Galicia
- France
- Spain, Catalonia
- Spain, Valencian region
- Spain, Asturias
- Spain, Aragon
- Spain, Castile and León
- Greece
- Belgium, French-speaking
- Belgium, Dutch-speaking
- All countries

Mean age: 56.1 to 66.0

Mean age at 31 December 2013
female patients on RRT in 2013

- Iceland
- UK, Scotland
- Estonia
- UK, England
- UK, Northern Island
- Denmark
- Serbia
- Finland
- Norway
- Sweden
- UK, Wales
- Spain, Cantabria
- the Netherlands
- Romania
- Spain, Basque country
- Bosnia and Herzegovina
- Austria
- Spain, Andalusia
- Spain, Community of Madrid
- Spain, Galicia
- Spain, Extremadura
- Spain, Aragon
- Spain, Asturias
- Spain, Catalonia
- Spain, Castile-La Mancha
- Spain, Region of Murcia
- Spain, Valencian region
- Greece
- Spain, Castile and León
- Belgium, French-speaking
- Belgium, Dutch-speaking
- All countries

Mean age: 54.9 to 66.0
Prevalent patients on RRT in 2013
by cause of renal failure

Prevalence, by cause of renal failure
all patients on RRT in 2013

- Glomerulonephritis/sclerosis: 207.6
- Pyelonephritis: 90.3
- Polycystic kidneys, adult type: 93.4
- Diabetes mellitus: 159.1
- Hypertension: 108.6
- Renal vascular disease: 22.3
- Miscellaneous: 172.0
- Unknown: 149.3
- Missing: 17.1

Prevalence (per million population)

Prevalence, by cause of renal failure
all patients on RRT in 2013

- Glomerulonephritis/sclerosis: 20.4%
- Pyelonephritis: 14.6%
- Miscellaneous: 16.9%
- Diabetes mellitus: 15.6%
- Polycystic kidneys, adult type: 9.2%
- Renal vascular disease: 2.2%
- Hypertension: 10.7%
- Unknown: 14.6%
- Missing: 1.7%
Prevalent patients on RRT in 2013
by cause of renal failure and age category

Prevalence, by cause of renal failure
patients younger than 65 years of age in 2013

- Missing, 1.9%
- Unknown, 12.9%
- Miscellaneous, 18.8%
- Glomerulonephritis/sclerosis, 25.2%
- Pyelonephritis, 10.4%
- Renal vascular disease, 1.0%
- Hypertension, 6.8%
- Diabetes mellitus, 13.4%
- Polycystic kidneys, adult type, 9.8%

Prevalence, by cause of renal failure
patients older than 65 years of age in 2013

- Missing, 1.4%
- Glomerulonephritis/sclerosis, 13.9%
- Pyelonephritis, 6.9%
- Polycystic kidneys, adult type, 8.4%
- Renal vascular disease, 3.8%
- Hypertension, 15.9%
- Diabetes mellitus, 18.6%
- Miscellaneous, 14.3%
Prevalent patients on RRT in 2013
by established modality

Prevalence, by established modality
all patients on RRT in 2013

<table>
<thead>
<tr>
<th>Modality</th>
<th>Prevalence (per million population)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haemodialysis</td>
<td>501.0</td>
</tr>
<tr>
<td>Peritoneal dialysis</td>
<td>57.5</td>
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<tr>
<td>Transplant</td>
<td>459.3</td>
</tr>
<tr>
<td>Unknown / missing</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Prevalence, by established modality
all patients on RRT in 2013

- Transplant: 45.0%
- Haemodialysis: 49.1%
- Peritoneal dialysis: 5.6%
- Unknown / missing: 0.2%
Prevalent patients on RRT in 2013
by established modality and age category

**Prevalence, by established modality**
patients younger than 65 years in 2013

- Unknown/missing, 0.2%
- Transplant, 58.7%
- Haemodialysis, 36.2%
- Peritoneal dialysis, 5.0%

**Prevalence, by established modality**
patients older than 65 years of age in 2013

- Unknown/missing, 0.2%
- Transplant, 26.8%
- Haemodialysis, 66.5%
- Peritoneal dialysis, 6.6%
Renal transplants performed in 2013
by donor type

**Transplantation activity, by donor type**
*all patients transplanted in 2013*

- **Living donor**: 10.3
- **Deceased donor**: 32.2
- **Unknown donor type**: 0.6

**Prevalence (per million population)**

**Transplantation activity, by donor type**
*all patients transplanted in 2013*

- **Donor type unknown**: 1.4%
- **Living donor**: 23.9%
- **Deceased donor**: 74.7%
Renal transplants performed in 2013
by donor type and age category

Transplantation activity, by donor type
patients younger than 65 years of age at transplantation

- Living donor, 26.5%
- Deceased donor, 72.2%
- Donor type unknown, 1.3%

Transplantation activity, by donor type
patients older than 65 years of age at transplantation

- Living donor, 12.9%
- Deceased donor, 85.2%
- Donor type unknown, 1.8%
Adjusted survival* (cohort 2004-2008) 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 2004-2008) 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 2004-2008)

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 2004-2008)

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
Survival probability
by modality and primary diagnosis

Adjusted survival* (cohort 2004-2008)
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 2004-2008)
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
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), and Scotland (UK).

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

Survival probability

Years since start RRT

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), and Scotland (UK).

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 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), and Scotland (UK).
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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), and Scotland (UK).

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

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), and Scotland (UK).

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).