Summary of the 2020 ERA Registry Annual Report
National and regional renal registries that contributed data to the 2020 ERA Registry Annual Report

Renal registries contributing with individual patient data

Renal registries contributing with aggregated data
Incident patients accepted for KRT in 2020, at day 1
by country
Incident patients accepted for KRT in 2020, at day 1
by country

Unadjusted incidence
renal registries providing individual patient data

Unadjusted incidence
renal registries providing aggregated data

* patients younger than 20 years of age are not included; ** patients younger than 18 years of age are not included; *** data includes patients receiving dialysis only
Incident patients accepted for KRT in 2020, at day 1
by country, adjusted for age and sex

Adjusted incidence
renal registries providing individual patient data

Adjusted incidence
renal registries providing aggregated data

* patients younger than 20 years of age are not included; b data includes patients receiving dialysis only
Incident patients accepted for KRT in 2020, at day 1

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

 Mean age (years)

UK, Scotland 60.0
UK, Northern Ireland 60.1
Estonia 60.2
Serbia 60.3
Finland 61.0
UK, England 61.0
Montenegro 61.3
UK, Wales 61.5
Romania 62.2
Norway 62.3
Bosnia and Herzegovina 63.0
Spain, Navarre 63.4
the Netherlands 63.9
Sweden 64.0
Spain, Canary Islands 64.0
Denmark 64.3
Spain, Andalusia 64.4
Spain, Aragon 64.5
Spain, Community of Madrid 64.5
Spain, Murcia 65.0
Austria 65.0
Spain, Castile-La Mancha 65.1
Switzerland 65.2
Iceland 65.3
Spain, Cantabria 65.4
Spain, Basque country 65.4
Spain, Extremadura 65.9
Spain, Valencia region 66.5
Spain, Catalonia 66.8
Spain, Asturias 67.1
France 67.5
Spain, Galicia 67.5
Spain, La Rioja 67.6
Spain, Castile and León 68.2
Belgium, French-speaking 68.0
Belgium, Dutch-speaking 71.0
Greece 71.5
All countries 65.2

Mean age at start of KRT
renal registries providing aggregated data

 Mean age (years)

Lithuania 60.8
Kosovo 61.1
Albania 62.5
Hungary 63.7
Spain (All) 63.8
North Macedonia 63.9
Slovakia 64.4
Israel 64.4
Italy (8 of 20 regions) 67.0
Croatia 68.6
Cyprus 69.4
All countries 65.3

* patients younger than 20 years of age are not included; data includes patients receiving dialysis only
Incident patients accepted for KRT in 2020, at day 1

registries providing individual patient data only

Mean age at start of KRT

**male patients**

<table>
<thead>
<tr>
<th>Country</th>
<th>Mean age (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK, Scotland</td>
<td>59.0</td>
</tr>
<tr>
<td>Serbia</td>
<td>60.9</td>
</tr>
<tr>
<td>UK, Northern Ireland</td>
<td>60.9</td>
</tr>
<tr>
<td>Romania</td>
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</tr>
<tr>
<td>Estonia</td>
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<td>UK, England</td>
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<td>62.5</td>
</tr>
<tr>
<td>Montenegro</td>
<td>62.5</td>
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<tr>
<td>Bosnia and Herzegovina</td>
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<td>Sweden</td>
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<tr>
<td>Sweden</td>
<td>64.2</td>
</tr>
<tr>
<td>Spain, Community of Madrid</td>
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<td>Spain, Andalusia</td>
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<td>the Netherlands</td>
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<td>Spain, Extremadura</td>
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<td>Spain, Cantabria</td>
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<td>Belgium, French-speaking</td>
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<td>Spain, Catalonia</td>
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<td>Spain, Galicia</td>
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<td>France</td>
<td>67.6</td>
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<tr>
<td>Spain, Castile and León</td>
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<td>Spain, La Rioja</td>
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<tr>
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<td>Greece</td>
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<tr>
<td>All countries</td>
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</table>

Mean age at start of KRT

**female patients**

<table>
<thead>
<tr>
<th>Country</th>
<th>Mean age (years)</th>
</tr>
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<tbody>
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<td>UK, Wales</td>
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<tr>
<td>UK, Northern Ireland</td>
<td>58.0</td>
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<tr>
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<td>58.8</td>
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<tr>
<td>Spain, Aragon</td>
<td>59.1</td>
</tr>
<tr>
<td>UK, England</td>
<td>59.8</td>
</tr>
<tr>
<td>Serbia</td>
<td>59.9</td>
</tr>
<tr>
<td>UK, Scotland</td>
<td>60.0</td>
</tr>
<tr>
<td>Spain, Cantabria</td>
<td>61.0</td>
</tr>
<tr>
<td>the Netherlands</td>
<td>62.1</td>
</tr>
<tr>
<td>Norway</td>
<td>62.2</td>
</tr>
<tr>
<td>Spain, Basque country</td>
<td>62.2</td>
</tr>
<tr>
<td>Romania</td>
<td>62.7</td>
</tr>
<tr>
<td>Sweden</td>
<td>63.0</td>
</tr>
<tr>
<td>Bosnia and Herzegovina</td>
<td>63.1</td>
</tr>
<tr>
<td>Switzerland</td>
<td>63.4</td>
</tr>
<tr>
<td>Spain, Canary Islands</td>
<td>63.8</td>
</tr>
<tr>
<td>Spain, Andalusia</td>
<td>64.0</td>
</tr>
<tr>
<td>Spain, Community of Madrid</td>
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<tr>
<td>Spain, Castile-La Mancha</td>
<td>64.4</td>
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<td>Iceland</td>
<td>64.6</td>
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<tr>
<td>Spain, Murcia</td>
<td>64.8</td>
</tr>
<tr>
<td>Norway</td>
<td>65.0</td>
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<tr>
<td>Denmark</td>
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<tr>
<td>Austria</td>
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<tr>
<td>Spain, Catalonia</td>
<td>65.5</td>
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<tr>
<td>Spain, La Rioja</td>
<td>65.7</td>
</tr>
<tr>
<td>France</td>
<td>66.3</td>
</tr>
<tr>
<td>Spain, Valencian region</td>
<td>66.6</td>
</tr>
<tr>
<td>Spain, Galicia</td>
<td>66.8</td>
</tr>
<tr>
<td>Belgium, French-speaking</td>
<td>66.9</td>
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<tr>
<td>Spain, Extremadura</td>
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<tr>
<td>Belgium, Dutch-speaking</td>
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<tr>
<td>Spain, Castile and León</td>
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<td>Spain, Asturias</td>
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<tr>
<td>Belgium, Dutch-speaking</td>
<td>70.0</td>
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<tr>
<td>Greece</td>
<td>71.3</td>
</tr>
<tr>
<td>All countries</td>
<td>64.9</td>
</tr>
</tbody>
</table>

*a patients younger than 20 years of age are not included*
Incident patients accepted for KRT in 2020, at day 1

by age category

Incidence by age category
for all registries

Incidence by age category
by type of data provided by registry
Incident patients accepted for KRT in 2020, at day 1

by sex

Incidence by sex
for all registries

Incidence by sex
by type of data provided by registry

Women
Men

Incidence (per million population)

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

All countries Individual data Aggregated data

Women
Men
Incident patients accepted for KRT in 2020, at day 1

by primary renal disease

Incidence by primary renal disease
for all registries

<table>
<thead>
<tr>
<th>Primary Renal Disease</th>
<th>Incidence (per million population)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown/missing</td>
<td>34.5</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>18.2</td>
</tr>
<tr>
<td>Renal vascular disease</td>
<td>1.8</td>
</tr>
<tr>
<td>Hypertension</td>
<td>17.4</td>
</tr>
<tr>
<td>Diabetes mellitus</td>
<td>27.3</td>
</tr>
<tr>
<td>Polycystic kidneys, adult type</td>
<td>6.5</td>
</tr>
<tr>
<td>Pyelonephritis</td>
<td>6.8</td>
</tr>
<tr>
<td>Glomerulonephritis/sclerosis</td>
<td>14.5</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Primary Renal Disease</th>
<th>All countries</th>
<th>Individual data</th>
<th>Aggregated data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown/missing</td>
<td>27</td>
<td>1</td>
<td>32</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>21</td>
<td>2</td>
<td>18</td>
</tr>
<tr>
<td>Renal vascular disease</td>
<td>14</td>
<td>14</td>
<td>1</td>
</tr>
<tr>
<td>Hypertension</td>
<td>14</td>
<td>14</td>
<td>12</td>
</tr>
<tr>
<td>Diabetes mellitus</td>
<td>21</td>
<td>23</td>
<td>20</td>
</tr>
<tr>
<td>Polycystic kidneys, adult type</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Pyelonephritis</td>
<td>5</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Glomerulonephritis/sclerosis</td>
<td>11</td>
<td>11</td>
<td>12</td>
</tr>
</tbody>
</table>
## Incident patients accepted for KRT in 2020, at day 1

by primary renal disease and age category

### Incidence by primary renal disease

*patients from registries providing individual patient data only*

<table>
<thead>
<tr>
<th>Renal Disease</th>
<th>All Patients</th>
<th>Patients Younger than 65</th>
<th>Patients Aged 65 or Older</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diabetes mellitus</td>
<td>23%</td>
<td>22%</td>
<td>24%</td>
</tr>
<tr>
<td>Renal vascular disease</td>
<td>2%</td>
<td>1%</td>
<td>2%</td>
</tr>
<tr>
<td>Hypertension</td>
<td>15%</td>
<td>9%</td>
<td>18%</td>
</tr>
<tr>
<td>Glomerulonephritis/sclerosis</td>
<td>11%</td>
<td>16%</td>
<td>7%</td>
</tr>
<tr>
<td>Pyelonephritis</td>
<td>5%</td>
<td>5%</td>
<td>4%</td>
</tr>
<tr>
<td>Polycystic kidneys, adult type</td>
<td>5%</td>
<td>19%</td>
<td>9%</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>18%</td>
<td>19%</td>
<td>18%</td>
</tr>
<tr>
<td>Unknown/missing</td>
<td>22%</td>
<td>22%</td>
<td>23%</td>
</tr>
</tbody>
</table>

### Incidence by primary renal disease

- **All patients**
  - Diabetes mellitus: 23%
  - Renal vascular disease: 2%
  - Hypertension: 15%
  - Glomerulonephritis/sclerosis: 11%
  - Pyelonephritis: 5%
  - Polycystic kidneys, adult type: 5%
  - Miscellaneous: 18%
  - Unknown/missing: 22%

- **Patients younger than 65 years**
  - Diabetes mellitus: 22%
  - Renal vascular disease: 1%
  - Hypertension: 9%
  - Glomerulonephritis/sclerosis: 16%
  - Pyelonephritis: 5%
  - Polycystic kidneys, adult type: 19%
  - Miscellaneous: 19%
  - Unknown/missing: 22%

- **Patients aged 65 years or older**
  - Diabetes mellitus: 24%
  - Renal vascular disease: 2%
  - Hypertension: 18%
  - Glomerulonephritis/sclerosis: 16%
  - Pyelonephritis: 5%
  - Polycystic kidneys, adult type: 9%
  - Miscellaneous: 18%
  - Unknown/missing: 7%
Incident patients accepted for KRT in 2020, at day 91
by established modality

Incidence at day 91
by established modality
for all registries

Haemodialysis: 103.1
Peritoneal dialysis: 17.4
Transplant: 5.5
Unknown / missing: 0.0

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

All countries
- Unkn: 4
- Tx: 82
- PD: 80
- HD: 87

Individual data
- Unkn: 14
- Tx: 15
- PD: 87
- HD: 87

Aggregated data
- Unkn: 2
- Tx: 5
- PD: 11
- HD: 11

Incidence (per million population)
Incident patients accepted for KRT in 2020, 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

patients younger than 65 years of age at the start of KRT

patients aged 65 years or older at the start of KRT
Incident patients accepted for KRT, at day 1
last 20 years (2002-2020)

Unadjusted incidence over time
all patients starting KRT

Adjusted incidence over time
all patients starting KRT
Incident patients accepted for KRT, at day 1

last 15 years (2006-2020)

Unadjusted incidence over time

all patients starting KRT

Adjusted incidence over time

all patients starting KRT
Incident patients accepted for KRT, at day 1

last 10 years (2011-2020)

Unadjusted incidence over time
all patients starting KRT

Adjusted incidence over time
all patients starting KRT
Incident patients accepted for KRT, at day 1
last 5 years (2016-2020)

Unadjusted incidence over time
all patients starting KRT

Adjusted incidence over time
all patients starting KRT
Prevalent patients on KRT in 2020
by country
Prevalent patients on KRT in 2020 by country

Unadjusted prevalence
renal registries providing individual patient data

Prevalence (per million population)

Unadjusted prevalence
renal registries providing aggregated data

Prevalence (per million population)

\* patients younger than 20 years of age are not included; \^ patients younger than 18 years of age are not included; \(\) data includes patients receiving dialysis only
Prevalent patients on KRT in 2020
by country, adjusted for age and sex

**Adjusted prevalence**
renal registries providing individual patient data

- **Montenegro**: 405
- **Bosnia and Herzegovina**: 788
- **Estonia**: 806
- **Serbia**: 837
- **Finland**: 914
- **Iceland**: 938
- **Denmark**: 957
- **Switzerland**: 969
- **UK, Scotland**: 983
- **Austria**: 1001
- **Sweden**: 1004
- **UK, England**: 1006
- **UK, Wales**: 1032
- **Spain, Cantabria**: 1041
- **the Netherlands**: 1043
- **Norway**: 1049
- **Spain, Castile and León**: 1088
- **Spain, La Rioja**: 1113
- **Spain, Basque country**: 1140
- **UK, Northern Ireland**: 1144
- **Spain, Castile-La Mancha**: 1174
- **Spain, Community of Madrid**: 1175
- **Spain, Asturias**: 1184
- **Spain, Extremadura**: 1193
- **Romania**: 1209
- **Belgium, Dutch-speaking**: 1214
- **Spain, Galicia**: 1241
- **Spain, Aragon**: 1273
- **Greece**: 1275
- **Spain, Andalusia**: 1307
- **Spain, Navarre**: 1319
- **France**: 1367
- **Spain, Valencia region**: 1417
- **Spain, Aragon region**: 1459
- **Spain, Catalonia**: 1479
- **Spain, Canary Islands**: 1509
- **Spain, Murcia**: 1558
- **All countries**: 1161

*patients younger than 20 years of age are not included; data includes patients receiving dialysis only

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**Adjusted prevalence**
renal registries providing aggregated data

- **Croatia**: 546
- **Albania**: 641
- **Slovakia**: 772
- **Kosovo**: 925
- **North Macedonia**: 926
- **Israel**: 1142
- **Italy (8 of 20 regions)**: 1159
- **All countries**: 1020
Prevalent patients on KRT in 2020

Mean age on 31 December 2020
renal registries providing individual patient data

<table>
<thead>
<tr>
<th>Country</th>
<th>Mean age (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK, Scotland</td>
<td>57.3</td>
</tr>
<tr>
<td>Montenegro</td>
<td>58.2 a</td>
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<tr>
<td>UK, England</td>
<td>58.3</td>
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<td>UK, Northern Ireland</td>
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<td>Iceland</td>
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<td>UK, Wales</td>
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<td>Estonia</td>
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<td>Denmark</td>
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<td>Bosnia and Herzegovina</td>
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<td>Finland</td>
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<td>Austria</td>
<td>62.1</td>
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<td>Spain, Basque country</td>
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<td>Switzerland</td>
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<td>Spain, Murcia</td>
<td>62.8</td>
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<tr>
<td>Spain, Extremadura</td>
<td>63.0</td>
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<tr>
<td>Romania</td>
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<td>Spain, Castile-La Mancha</td>
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<tr>
<td>Spain, Navarre</td>
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</tr>
<tr>
<td>Spain, Valencian region</td>
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<td>63.7</td>
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<tr>
<td>Spain, Aragon</td>
<td>63.7</td>
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<tr>
<td>Belgium, French-speaking</td>
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<tr>
<td>Greece</td>
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<tr>
<td>Spain, Castile and León</td>
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<td>Belgium, Dutch-speaking</td>
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<tr>
<td>All countries</td>
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</tbody>
</table>

* patients younger than 20 years of age are not included; a data includes patients receiving dialysis only

Mean age on 31 December 2020
renal registries providing aggregated data

<table>
<thead>
<tr>
<th>Country</th>
<th>Mean age (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albania</td>
<td>52.2</td>
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<tr>
<td>North Macedonia</td>
<td>59.8</td>
</tr>
<tr>
<td>Kosovo</td>
<td>60.2</td>
</tr>
<tr>
<td>Spain (All)</td>
<td>63.1 b</td>
</tr>
<tr>
<td>Italy (8 of 20 regions)</td>
<td>66.4 b</td>
</tr>
<tr>
<td>Poland</td>
<td>67.4</td>
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<tr>
<td>Portugal</td>
<td>67.7</td>
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<tr>
<td>All countries</td>
<td>62.6</td>
</tr>
</tbody>
</table>

a patients younger than 20 years of age are not included; b data includes patients receiving dialysis only
Prevalent patients on KRT in 2020
for registries providing individual patient data only

### Mean age on 31 December 2020

#### male patients

- **UK, Scotland**: 57.3, 58.4
- **UK, Northern Ireland**: 58.5, 59.0
- **UK, England**: 59.0, 59.1
- **Estonia**: 59.1, 59.3
- **Denmark**: 59.7, 59.8
- **Bosnia and Herzegovina**: 59.8
- **Iceland**: 60.3
- **Montenegro**: 60.5, 60.6
- **Finland**: 60.6
- **Serbia**: 60.7
- **Norway**: 61.0
- **Sweden**: 61.1
- **Spain, Andalusia**: 61.3, 61.4
- **the Netherlands**: 62.2
- **Spain, La Rioja**: 62.3
- **Austria**: 62.4
- **Spain, Canary Islands**: 62.7
- **Spain, Community of Madrid**: 62.7
- **Romania**: 62.8
- **Spain, Murcia**: 62.8
- **Switzerland**: 62.9
- **Spain, Basque country**: 62.9
- **Spain, Extremadura**: 63.0
- **Spain, Catalonia**: 63.1
- **France**: 63.1
- **Spain, Castile-La Mancha**: 63.5
- **Spain, Galicia**: 63.6
- **Spain, Valencian region**: 63.7
- **Spain, Asturias**: 63.9
- **Spain, Navarre**: 64.3
- **Spain, Cantabria**: 64.5
- **Belgium, French-speaking**: 64.5
- **Spain, Aragon**: 65.3
- **Spain, Valencian region**: 65.5
- **Greece**: 65.6
- **Spain, Castile and León**: 66.0
- **Belgium, Dutch-speaking**: 66.3
- **All countries**: 62.1

#### female patients

- **Montenegro**: 55.5
- **Iceland**: 56.4
- **UK, Scotland**: 57.3
- **UK, England**: 57.9
- **UK, Wales**: 58.0
- **UK, Northern Ireland**: 58.1
- **Estonia**: 59.1
- **Norway**: 59.4
- **Sweden**: 59.6
- **Denmark**: 59.7
- **Finland**: 60.0
- **Serbia**: 60.9
- **the Netherlands**: 61.1
- **Bosnia and Herzegovina**: 61.1
- **Spain, Basque country**: 61.4
- **Spain, Castile-La Mancha**: 61.7
- **Spain, Murcia**: 61.9
- **Spain, La Rioja**: 62.3
- **Austria**: 62.7
- **Spain, Canary Islands**: 63.0
- **Spain, Cantabria**: 63.1
- **Spain, Aragon**: 63.6
- **Spain, Castile-La Mancha**: 63.8
- **Spain, Asturias**: 63.9
- **Spain, Castile and León**: 64.0
- **Spain, Valencian region**: 64.0
- **Spain, Aragon**: 64.3
- **Spain, Galicia**: 64.4
- **Spain, Asturias**: 65.2
- **Spain, Castile-La Mancha**: 65.8
- **Spain, Aragon**: 66.4
- **Spain, Castile and León**: 66.4
- **Belgium, French-speaking**: 66.7
- **All countries**: 62.0

*a patients younger than 20 years of age are not included;
Prevalent patients on KRT in 2020
by age category

**Prevalence by age category**

*for all registries*

- 75+: 2077
- 65-74: 2162
- 45-64: 1288
- 20-44: 415
- 0-19: 47

**Prevalence by age category**

*by type of data provided by registry*

- All countries:
  - 75+: 20
  - 65-74: 25
  - 45-64: 39
  - 20-44: 39
  - 0-19: 15
- Individual data:
  - 75+: 22
  - 65-74: 25
  - 45-64: 38
  - 20-44: 39
  - 0-19: 14
- Aggregated data:
  - 75+: 18
  - 65-74: 25
  - 45-64: 39
  - 20-44: 39
  - 0-19: 16
Prevalent patients on KRT in 2020

by sex

Prevalence by sex
for all registries

Women: 712
Men: 1134

Prevalence by sex
by type of data provided by registry

- All countries
  - Women: 40
  - Men: 60
- Individual data
  - Women: 38
  - Men: 62
- Aggregated data
  - Women: 42
  - Men: 58
Prevalent patients on KRT in 2020
by primary renal disease

Prevalence by primary renal disease
for all registries

Prevalence by primary renal disease
by type of data provided by registry
Prevalent patients on KRT in 2020
by primary renal disease and age category

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

all patients

- Glomerulonephritis/sclerosis, 19%
- Miscellaneous, 18%
- Pyelonephritis, 8%
- Polycystic kidneys, adult type, 9%
- Diabetes mellitus, 16%
- Renal vascular disease, 1%
- Hypertension, 11%
- Unknown/missing, 17%

patients younger than 65 years of age

- Glomerulonephritis/sclerosis, 19%
- Miscellaneous, 20%
- Pyelonephritis, 7%
- Polycystic kidneys, adult type, 9%
- Diabetes mellitus, 14%
- Renal vascular disease, 1%
- Hypertension, 11%
- Unknown/missing, 15%

patients aged 65 years or older

- Glomerulonephritis/sclerosis, 14%
- Miscellaneous, 15%
- Pyelonephritis, 9%
- Polycystic kidneys, adult type, 10%
- Diabetes mellitus, 19%
- Renal vascular disease, 2%
- Hypertension, 16%
- Unknown/missing, 17%
Prevalent patients on KRT in 2020

by modality

Prevalence by modality
for all registries

<table>
<thead>
<tr>
<th>Modality</th>
<th>Prevalence (per million population)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haemodialysis</td>
<td>538</td>
</tr>
<tr>
<td>Peritoneal dialysis</td>
<td>45</td>
</tr>
<tr>
<td>Transplant</td>
<td>348</td>
</tr>
<tr>
<td>Unknown / missing</td>
<td>1</td>
</tr>
</tbody>
</table>

Prevalence by modality
by type of data provided by registry

- All countries
  - Haemodialysis: 538
  - Peritoneal dialysis: 45
  - Transplant: 348
  - Unknown / missing: 1

- Individual data
  - Haemodialysis: 58
  - Peritoneal dialysis: 5
  - Transplant: 48
  - Unknown / missing: 5

- Aggregated data
  - Haemodialysis: 37
  - Peritoneal dialysis: 47
  - Transplant: 30
Prevalent patients on KRT in 2020
by modality and age category

Prevalence by modality
patients from registries providing individual patient data only

all patients

- Haemodialysis, 48%
- Transplant, 47%
- Peritoneal dialysis, 5%

patients younger than 65 years of age

- Haemodialysis, 35%
- Transplant, 61%
- Peritoneal dialysis, 6%

patients aged 65 years or older

- Haemodialysis, 62%
- Transplant, 32%
- Peritoneal dialysis, 6%
Prevalent patients on KRT
last 20 years (2001-2020)

Unadjusted prevalence over time
all patients on KRT

Adjusted prevalence over time
all patients on KRT
Prevalent patients on KRT
last 15 years (2006-2020)

Unadjusted prevalence over time
all patients on KRT

Adjusted prevalence over time
all patients on KRT
Prevalent patients on KRT
(last 10 years (2011-2020))

Unadjusted prevalence over time
(all patients on KRT)

Adjusted prevalence over time
(all patients on KRT)
Prevalent patients on KRT
last 5 years (2016-2020)

Unadjusted prevalence over time
all patients on KRT

Adjusted prevalence over time
all patients on KRT

Prevalence (per million population)
Kidney transplantations performed in 2020
by country

**Kidney transplantation rate**
renal registries providing individual patient data

<table>
<thead>
<tr>
<th>Country</th>
<th>Transplantations (per million population)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Montenegro</td>
<td>0</td>
</tr>
<tr>
<td>Serbia</td>
<td>1&lt;sup&gt;a&lt;/sup&gt;</td>
</tr>
<tr>
<td>Bosnia and Herzegovina</td>
<td>3</td>
</tr>
<tr>
<td>Romania</td>
<td>10&lt;sup&gt;c&lt;/sup&gt;</td>
</tr>
<tr>
<td>Greece</td>
<td>17</td>
</tr>
<tr>
<td>UK, Wales</td>
<td>20</td>
</tr>
<tr>
<td>Belgium, French-speaking</td>
<td>23&lt;sup&gt;a&lt;/sup&gt;</td>
</tr>
<tr>
<td>Iceland</td>
<td>27</td>
</tr>
<tr>
<td>Spain, Castile-La Mancha</td>
<td>28&lt;sup&gt;a&lt;/sup&gt;</td>
</tr>
<tr>
<td>Belgium, Dutch-speaking</td>
<td>30&lt;sup&gt;a&lt;/sup&gt;</td>
</tr>
<tr>
<td>Switzerland</td>
<td>34</td>
</tr>
<tr>
<td>Austria</td>
<td>34</td>
</tr>
<tr>
<td>UK, England</td>
<td>35</td>
</tr>
<tr>
<td>Estonia</td>
<td>37</td>
</tr>
<tr>
<td>France</td>
<td>38</td>
</tr>
<tr>
<td>Spain, Extremadura</td>
<td>40</td>
</tr>
<tr>
<td>Rwanda</td>
<td>40</td>
</tr>
<tr>
<td>Spain, Aragon</td>
<td>42</td>
</tr>
<tr>
<td>UK, Scotland</td>
<td>43</td>
</tr>
<tr>
<td>Norway</td>
<td>45</td>
</tr>
<tr>
<td>Spain, Navarre</td>
<td>46&lt;sup&gt;a&lt;/sup&gt;</td>
</tr>
<tr>
<td>the Netherlands</td>
<td>46</td>
</tr>
<tr>
<td>Spain, Valencian region</td>
<td>46</td>
</tr>
<tr>
<td>Spain, Murcia</td>
<td>46</td>
</tr>
<tr>
<td>Spain, Castile and Leon</td>
<td>46&lt;sup&gt;a&lt;/sup&gt;</td>
</tr>
<tr>
<td>Denmark</td>
<td>47</td>
</tr>
<tr>
<td>Finland</td>
<td>48</td>
</tr>
<tr>
<td>Spain, Community of Madrid</td>
<td>49</td>
</tr>
<tr>
<td>Spain, Andalusia</td>
<td>50</td>
</tr>
<tr>
<td>Spain, La Rioja</td>
<td>51</td>
</tr>
<tr>
<td>Spain, Galicia</td>
<td>52</td>
</tr>
<tr>
<td>Spain, Canary Islands</td>
<td>66</td>
</tr>
<tr>
<td>Spain, Basque country</td>
<td>69</td>
</tr>
<tr>
<td>Spain, Asturias</td>
<td>82</td>
</tr>
<tr>
<td>UK, Northern Ireland</td>
<td>82</td>
</tr>
<tr>
<td>Spain, Catalonia</td>
<td>87</td>
</tr>
<tr>
<td>Spain, Cantabria</td>
<td>108&lt;sup&gt;a&lt;/sup&gt;</td>
</tr>
<tr>
<td>All countries</td>
<td>38</td>
</tr>
</tbody>
</table>

*patients younger than 20 years of age are not included; <sup>a</sup> transplantation rates are underestimated by 15% (b), 30% (c); <sup>d</sup> patients younger than 18 years of age are not included

**Kidney transplantation rate**
renal registries providing aggregated data

<table>
<thead>
<tr>
<th>Country</th>
<th>Transplantations (per million population)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albania</td>
<td>5</td>
</tr>
<tr>
<td>Kosovo</td>
<td>6</td>
</tr>
<tr>
<td>North Macedonia</td>
<td>7</td>
</tr>
<tr>
<td>Russia</td>
<td>8</td>
</tr>
<tr>
<td>Cyprus</td>
<td>15</td>
</tr>
<tr>
<td>Poland</td>
<td>19</td>
</tr>
<tr>
<td>Hungary</td>
<td>21</td>
</tr>
<tr>
<td>Belarus</td>
<td>26&lt;sup&gt;d&lt;/sup&gt;</td>
</tr>
<tr>
<td>Italy (8 of 20 regions)</td>
<td></td>
</tr>
<tr>
<td>Croatia</td>
<td>28</td>
</tr>
<tr>
<td>Lithuania</td>
<td>28</td>
</tr>
<tr>
<td>Turkey</td>
<td>29</td>
</tr>
<tr>
<td>Slovakia</td>
<td>30</td>
</tr>
<tr>
<td>Portugal</td>
<td>30</td>
</tr>
<tr>
<td>Czech Republic</td>
<td>38</td>
</tr>
<tr>
<td>Israel</td>
<td>42</td>
</tr>
<tr>
<td>Spain (All)</td>
<td>45</td>
</tr>
<tr>
<td>All countries</td>
<td>57</td>
</tr>
<tr>
<td>All countries</td>
<td>24</td>
</tr>
</tbody>
</table>

patients younger than 18 years of age are not included
Kidney transplantations performed in 2020
transplants from deceased donors, by country

Deceased donor transplantation rate
renal registries providing individual patient data

- Montenegro: 0*
- Bosnia and Herzegovina: 1*
- Serbia: 1*
- Romania: 7*
- Iceland: 8
- Greece: 9
- UK, Wales: 14
- Belgium, French-speaking: 20
- Switzerland: 25
- Belgium, Dutch-speaking: 27
- UK, England: 28
- Spain, Castile-La Mancha: 28
- Sweden: 29
- Austria: 30
- UK, Scotland: 30
- France: 33
- Estonia: 33
- Norway: 34
- Denmark: 34
- Spain, Aragon: 36
- Spain, Extremadura: 39
- Finland: 42
- Spain, Castile and León: 43
- Spain, Valencian region: 44
- Spain, Navarre: 44
- Spain, La Rioja: 44
- Spain, Community of Madrid: 45
- Spain, Murcia: 46
- Spain, Galicia: 46
- Spain, Andalusia: 47
- Spain, Basque country: 58
- Spain, Canary Islands: 64
- UK, Northern Ireland: 65
- Spain, Catalonia: 73
- Spain, Asturias: 81
- Spain, Cantabria: 106*
- All countries: 30

Kidney transplantations (per million population)

Deceased donor transplantation rate
renal registries providing aggregated data

- Albania: 0
- Kosovo: 0
- North Macedonia: 2
- Turkey: 3
- Kosovo: 7
- Russia: 13
- Cyprus: 19
- Israel: 26
- Hungary: 26
- Poland: 28
- Italy (8 of 20 regions): 28
- Belarus: 29
- Slovakia: 34
- Croatia: 40
- Lithuania: 51
- Czech Republic: 16
- Spain (All): 51
- All countries: 16

Note: *patients younger than 20 years of age are not included; transplantation rates are underestimated by 16% (b), 30% (c); patients younger than 18 years of age are not included
Kidney transplantations performed in 2020
transplants from living donors, by country

**Living donor transplantation rate**
renal registries providing individual patient data

- Montenegro: 0
- Spain, Castile-La Mancha: 0
- Serbia: 0
- Spain, Murcia: 1
- Spain, Extremadura: 1
- Spain, Asturias: 1
- Spain, Canary Islands: 1
- Spain, Navarre: 2
- Spain, Cantabria: 2
- Bosnia and Herzegovina: 1
- Belgium, Dutch-speaking: 1
- Spain, Valencian region: 3
- Belgium, French-speaking: 3
- Romania: 3
- Spain, Andalusia: 3
- Spain, Castile and Leon: 4
- Estonia: 4
- Spain, Community of Madrid: 4
- Austria: 5
- Finland: 5
- UK, Wales: 6
- France: 6
- Spain, Aragon: 6
- Spain, Galicia: 6
- Spain, La Rioja: 6
- UK, England: 7
- Greece: 8
- Switzerland: 9
- Norway: 11
- Sweden: 11
- Spain, Basque country: 11
- Denmark: 13
- UK, Scotland: 13
- Spain, Catalonia: 16
- UK, Northern Ireland: 16
- Iceland: 19
- the Netherlands: 21

**Living donor transplantation rate**
renal registries providing aggregated data

- Belarus: 0
- Poland: 1
- Croatia: 1
- Lithuania: 1
- Russia: 1
- Czech Republic: 3
- Hungary: 3
- Portugal: 4
- Slovakia: 4
- Italy (8 of 20 regions): 4
- North Macedonia: 5
- Bulgaria: 5
- Spain (All): 5
- Kosovo: 6
- Cyprus: 6
- Turkey: 7
- Israel: 8

* patients younger than 20 years of age are not included; ** transplant rates are underestimated by 12% (b), 30% (c); * patients younger than 18 years of age are not included
Kidney transplantations performed in 2020
by donor type

Kidney transplantations by donor type
for all registries

Unknown donor 0.1
Deceased donor 19.9
Living donor 7.9

Transplantation rate (per million population)

Kidney transplantations by donor type
by type of data provided by registry

All countries
Unknown 0
Deceased 71
Living 28

Individual data
Unknown 0
Deceased 80
Living 19

Aggregated data
Unknown 1
Deceased 66
Living 33

Transplantation rate (per million population)
Kidney transplantations performed in 2020
by donor type

Kidney transplantations by donor type
patients from registries providing individual patient data only

all patients
Donor type unknown, 0%
Living donor, 22%
Deceased donor, 77%

patients younger than 65 years of age at transplantation
Donor type unknown, 0%
Living donor, 26%
Deceased donor, 74%

patients aged 65 years or older at transplantation
Donor type unknown, 0%
Living donor, 12%
Deceased donor, 88%
Adjusted patient survival by primary renal disease

Incident KRT patients

from day 1, adjusted for age and sex

Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diabetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.
Survival probability, cohort 2011-2015
by dialysis modality

Adjusted patient survival by modality
Incident dialysis patients

from day 91, adjusted for age, sex, and primary renal disease

Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diabetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.
Survival probability, cohort 2011-2015
by kidney donor

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 probability, cohort 2011-2015 by kidney donor

Survival probability (%)
Living donor
Deceased donor

Years since kidney transplantation
0 1 2 3 4 5
0 10 20 30 40 50 60 70 80 90 100

Survival probabilities were adjusted for fixed values for age (50 years), sex (63% men), and the primary renal disease distribution (14% diabetes mellitus, 10% hypertension / renal vascular disease, 23% glomerulonephritis and 53% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.
Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diabetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases). Cox regression model was used to calculate survival probabilities.
Patient survival incident KRT patients
adjusted for age, sex and cause of renal failure

Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diabetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.
Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diabetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.
Patient survival
incident dialysis patients
adjusted for age, sex and cause of renal failure

Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diabetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.
Patient survival after first kidney transplantation
adjusted for age, sex and cause of renal failure

Survival probabilities were adjusted for fixed values for age (50 years), sex (63% men), and the primary renal disease distribution (14% diabetes mellitus, 10% hypertension / renal vascular disease, 23% glomerulonephritis and 53% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.
Survival probabilities were adjusted for fixed values for age (50 years), sex (63% men), and the primary renal disease distribution (14% diabetes mellitus, 10% hypertension / renal vascular disease, 23% glomerulonephritis and 53% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.
Graft survival after first kidney transplantation

adjusted for age, sex and cause of renal failure

Survival probabilities were adjusted for fixed values for age (50 years), sex (63% men), and the primary renal disease distribution (14% diabetes mellitus, 10% hypertension / renal vascular disease, 23% glomerulonephritis and 53% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.
Graft survival after first kidney transplantation

adjusted for age, sex and cause of renal failure

Survival probabilities were adjusted for fixed values for age (50 years), sex (63% men), and the primary renal disease distribution (14% diabetes mellitus, 10% hypertension / renal vascular disease, 23% glomerulonephritis and 53% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.