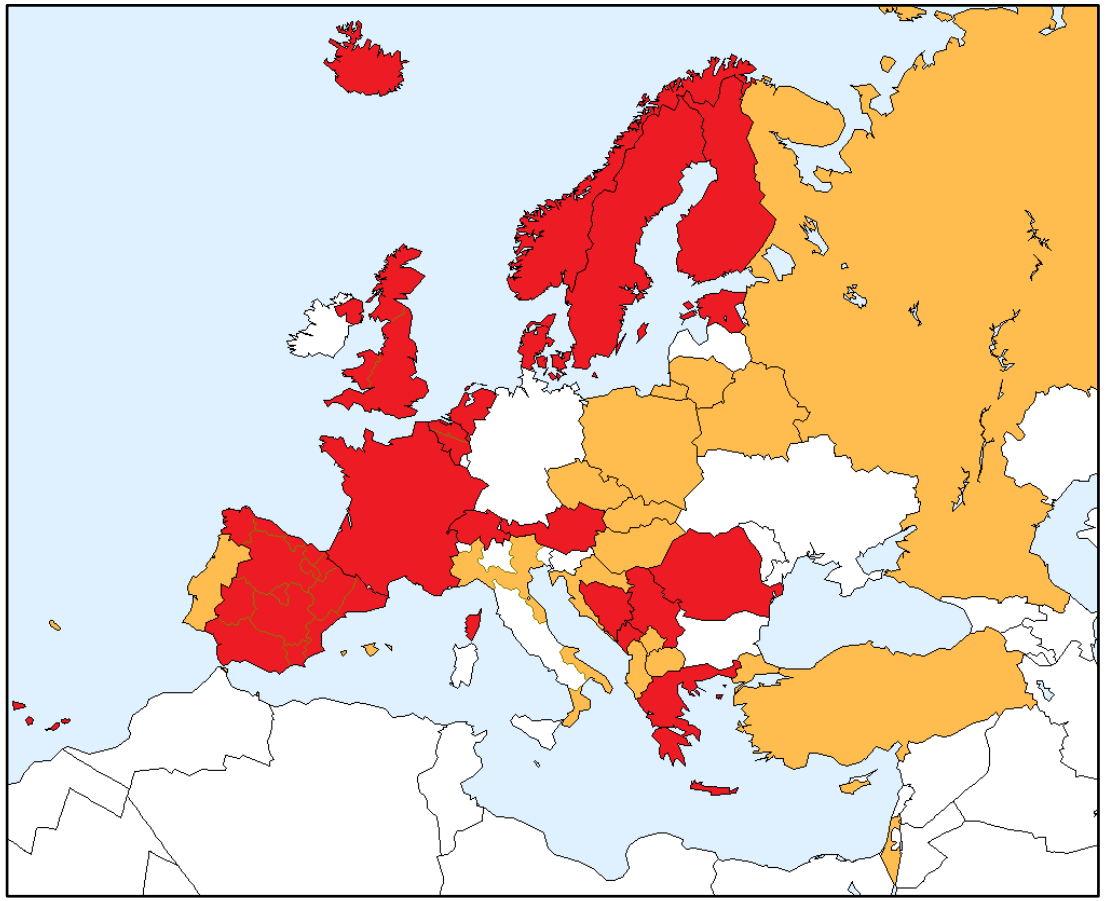
Summary of the 2020 ERA Registry Annual Report

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

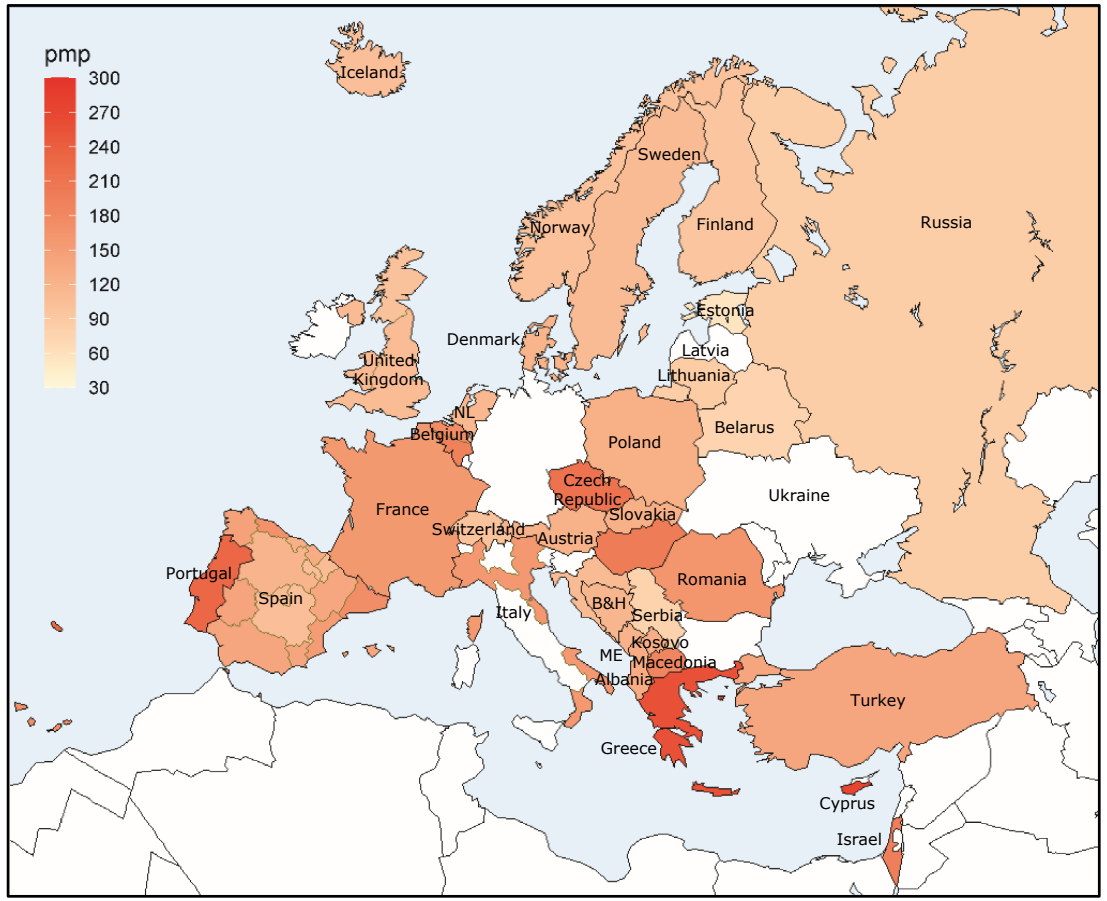


Renal registries contributing with individual patient data

Renal registries contributing with aggregated data

Incident patients accepted for KRT in 2020, at day 1

by country

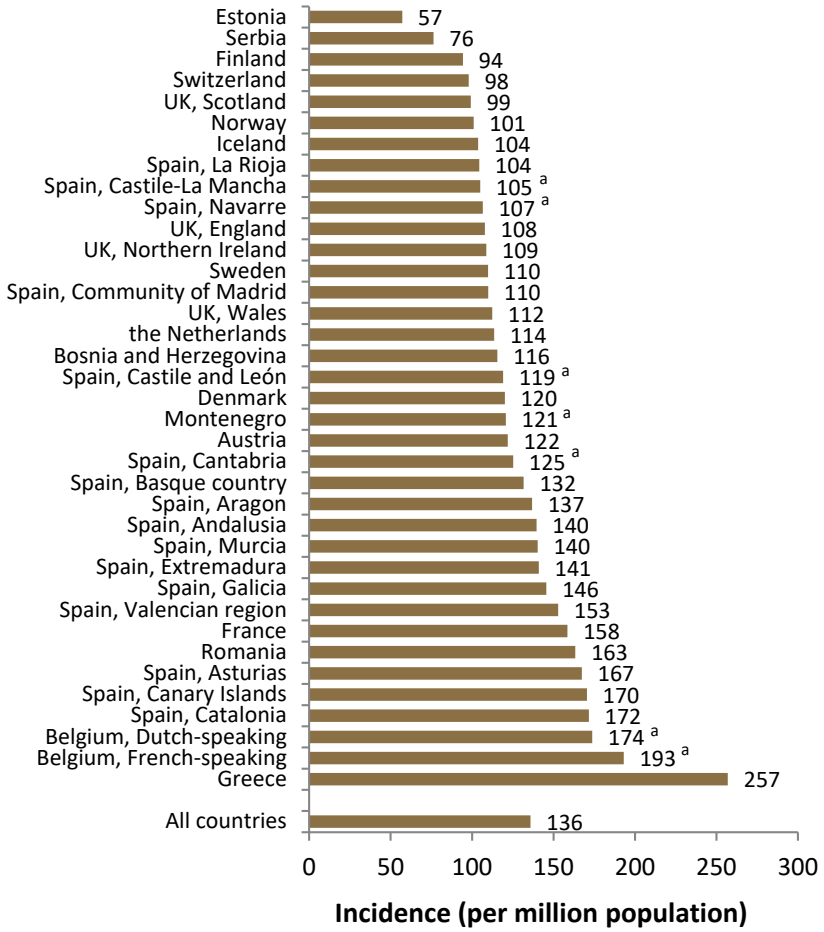


Incident patients accepted for KRT in 2020, at day 1

by country

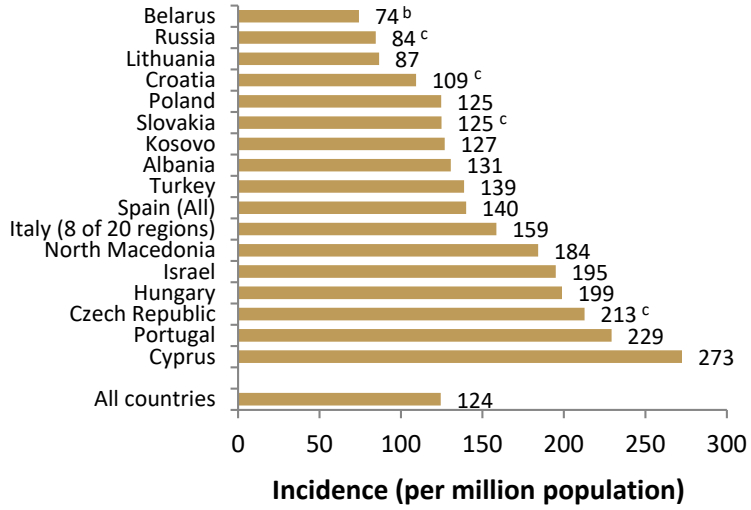
Unadjusted incidence

renal registries providing individual patient data



Unadjusted incidence

renal registries providing aggregated data



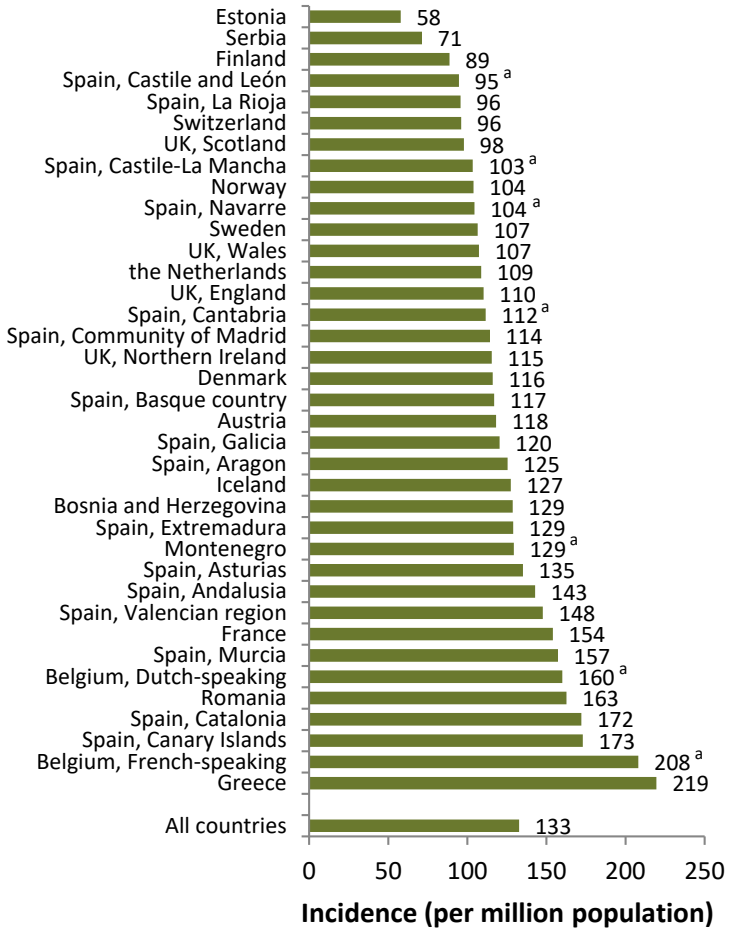
[a] patients younger than 20 years of age are not included; [b] patients younger than 18 years of age are not included; [c] data includes patients receiving dialysis only

Incident patients accepted for KRT in 2020, at day 1

by country, adjusted for age and sex

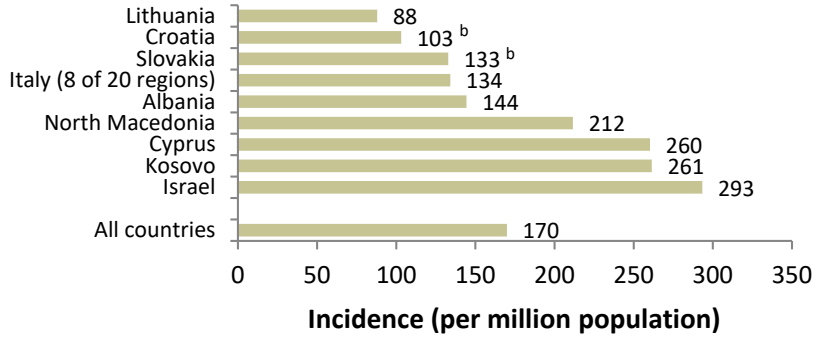
Adjusted incidence

renal registries providing individual patient data



Adjusted incidence

renal registries providing aggregated data



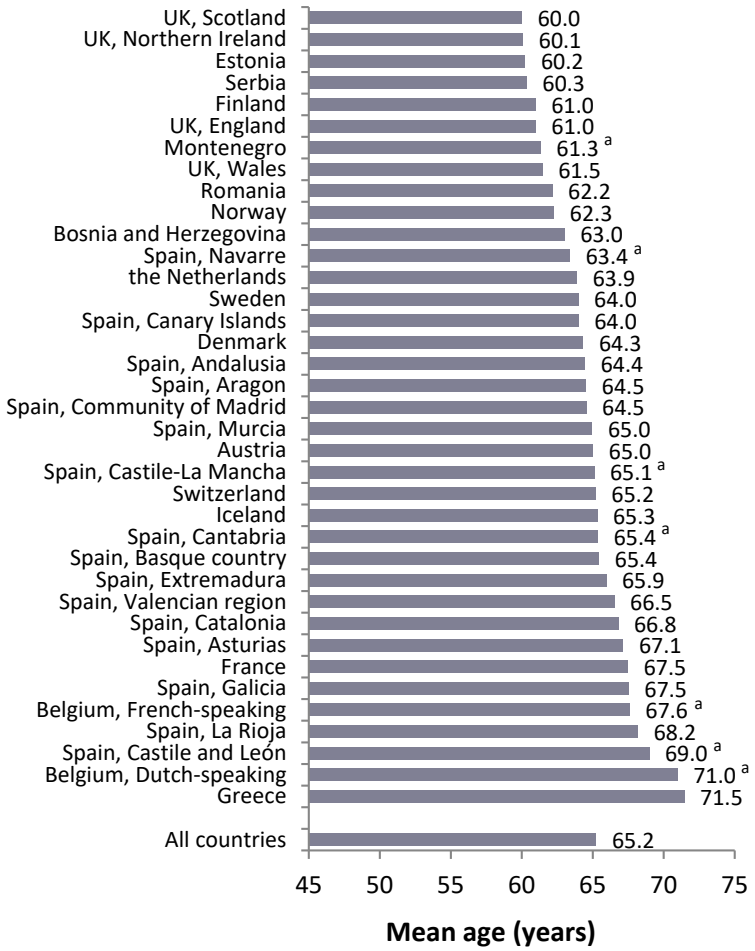
[a] patients younger than 20 years of age are not included; [b] data includes patients receiving dialysis only

Incident patients accepted for KRT in 2020, at day 1

mean age

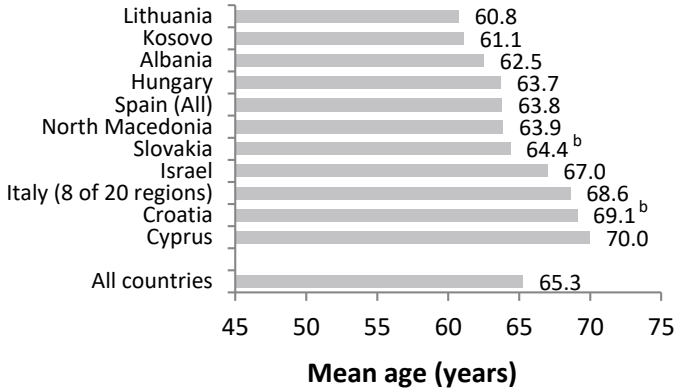
Mean age at start of KRT

renal registries providing individual patient data



Mean age at start of KRT

renal registries providing aggregated data



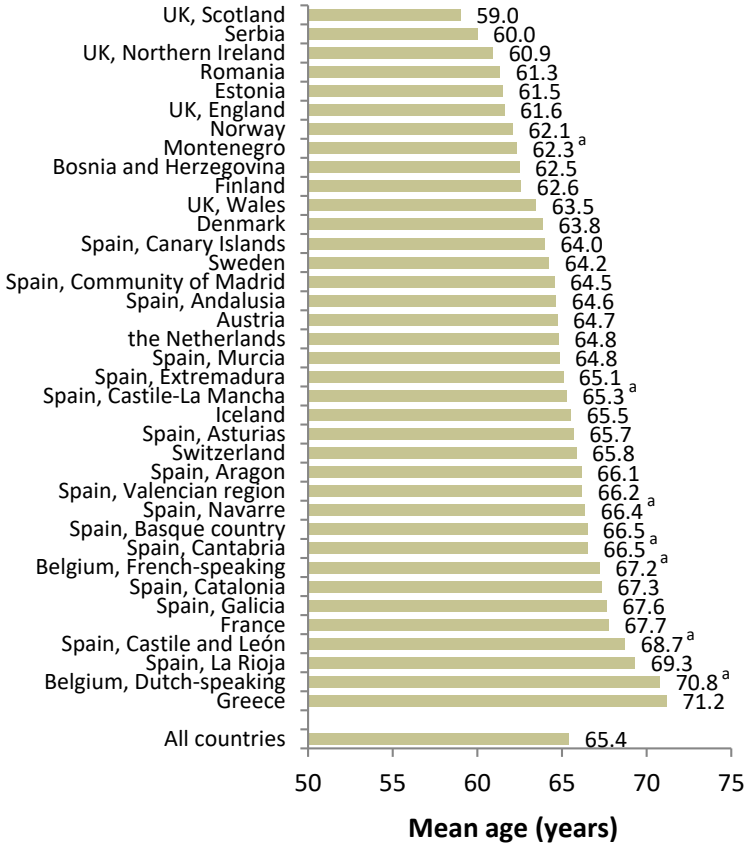
[a] patients younger than 20 years of age are not included; [b] data includes patients receiving dialysis only

Incident patients accepted for KRT in 2020, at day 1

registries providing individual patient data only

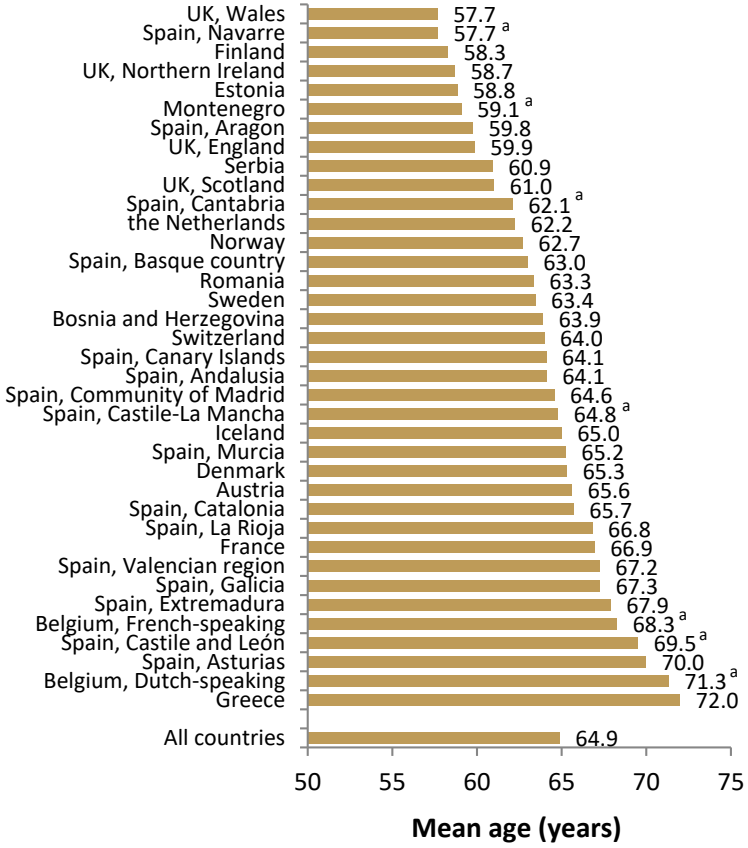
Mean age at start of KRT

male patients



Mean age at start of KRT

female patients



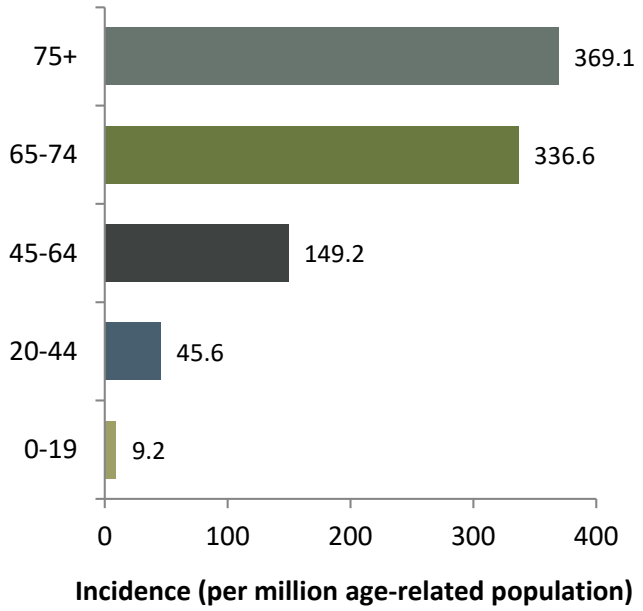
[a] *patients younger than 20 years of age are not included*

Incident patients accepted for KRT in 2020, at day 1

by age category

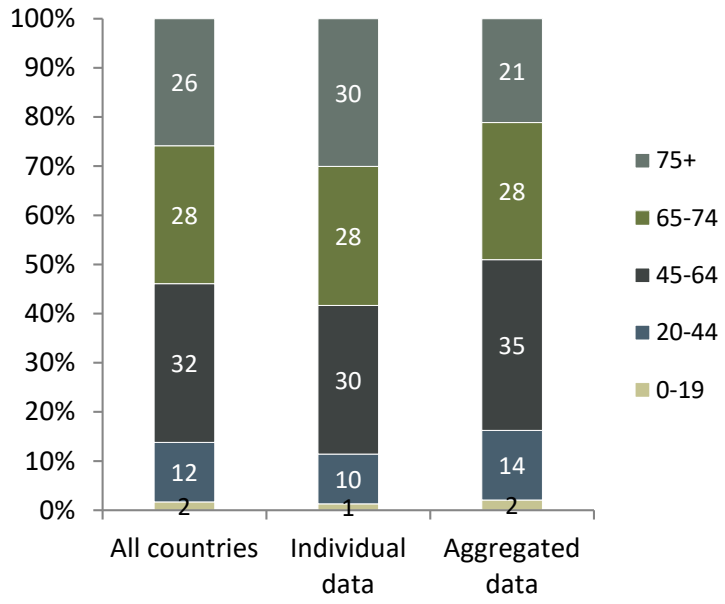
Incidence by age category

for all registries



Incidence by age category

by type of data provided by registry

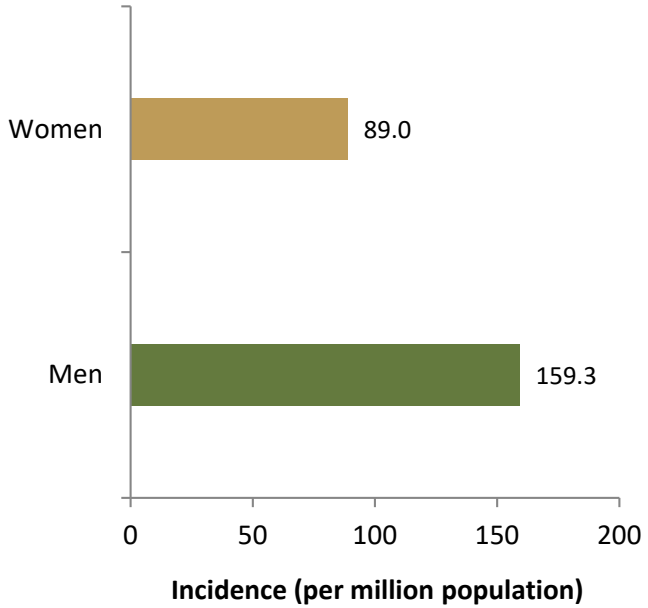


Incident patients accepted for KRT in 2020, at day 1

by sex

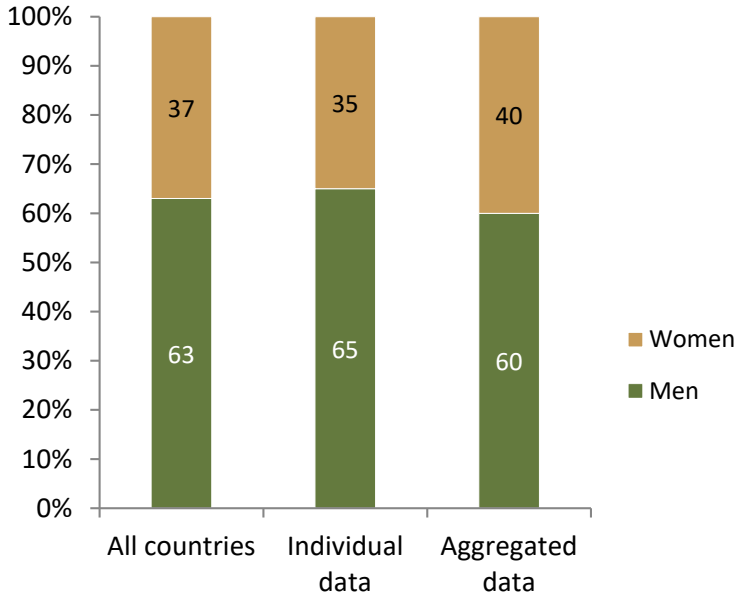
Incidence by sex

for all registries



Incidence by sex

by type of data provided by registry

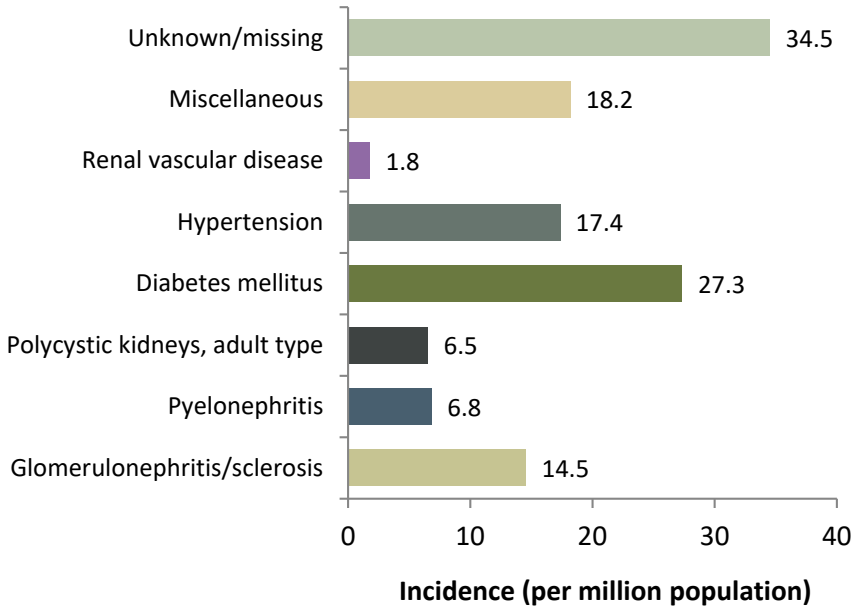


Incident patients accepted for KRT in 2020, at day 1

by primary renal disease

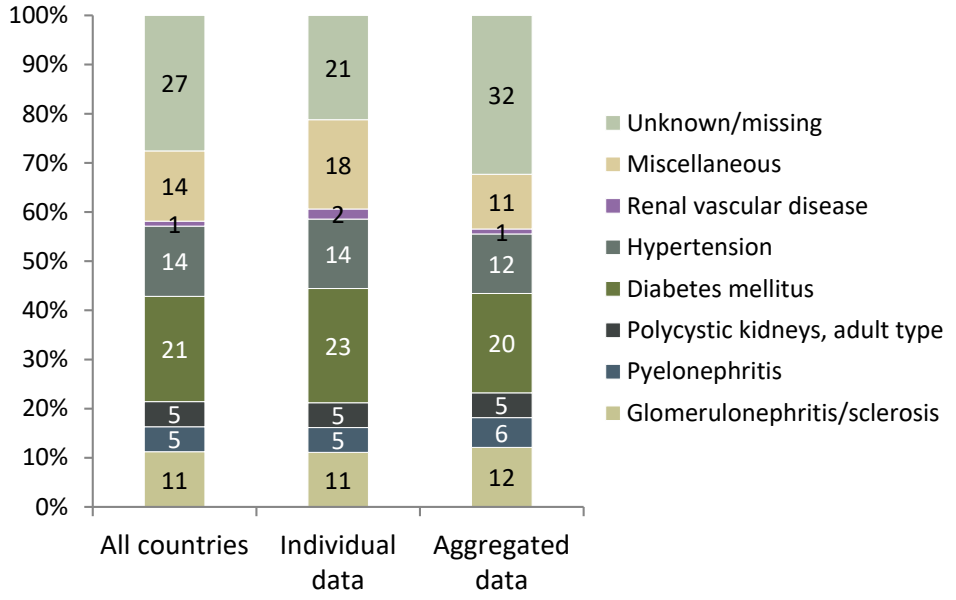
Incidence by primary renal disease

for all registries



Incidence by primary renal disease

by type of data provided by registry



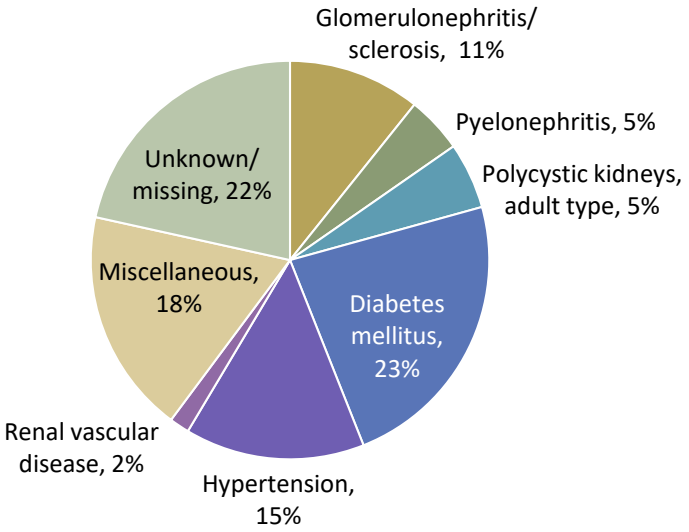
Incident patients accepted for KRT in 2020, at day 1

by primary renal disease and age category

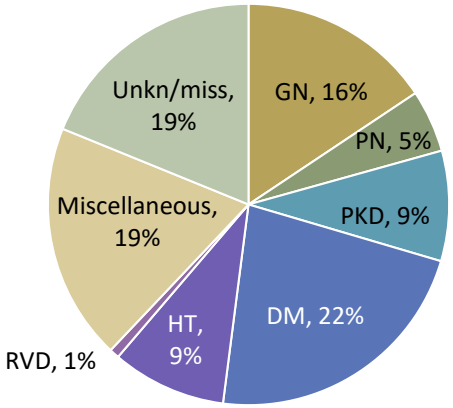
Incidence by primary renal disease

patients from registries providing individual patient data only

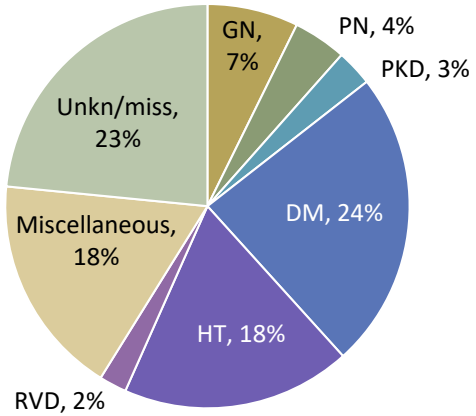
all patients



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



patients aged 65 years or older at the start of KRT

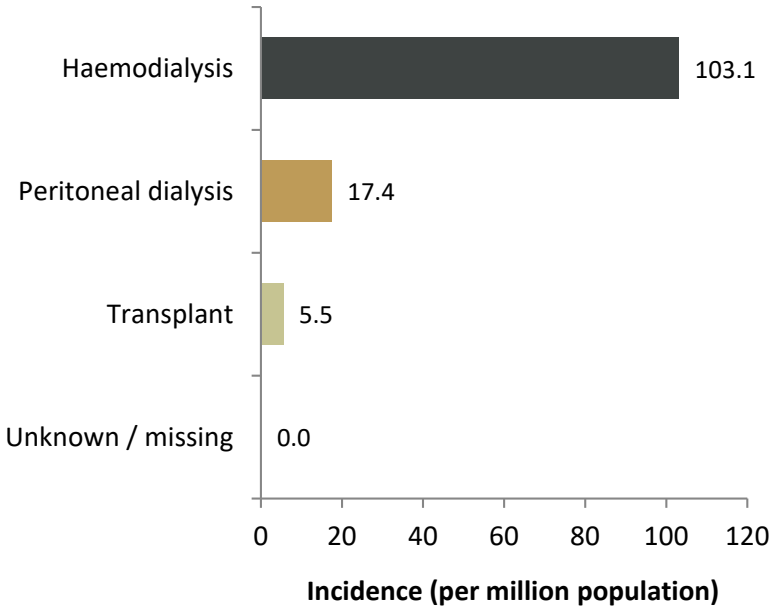


Incident patients accepted for KRT in 2020, at day 91

by established modality

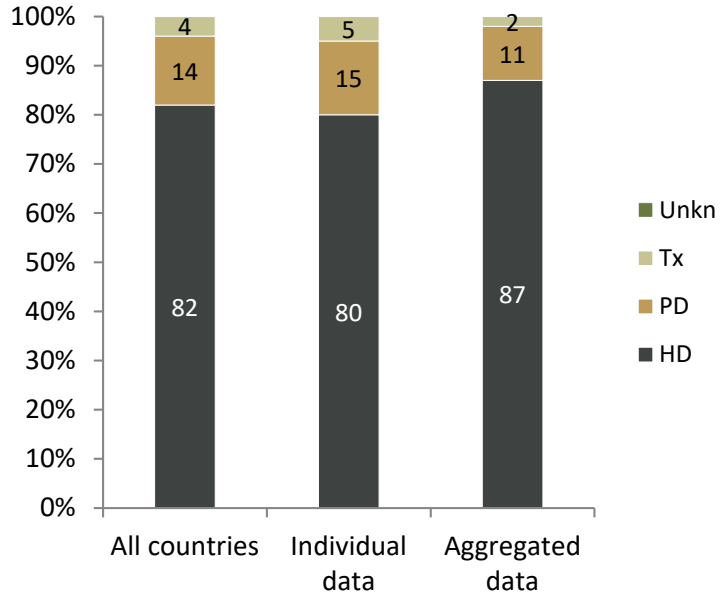
Incidence at day 91 by established modality

for all registries



Incidence at day 91 by established modality

by type of data provided by registry



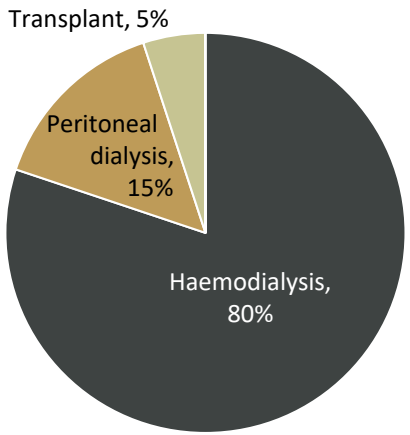
Incident patients accepted for KRT in 2020, at day 91

by established modality and age category

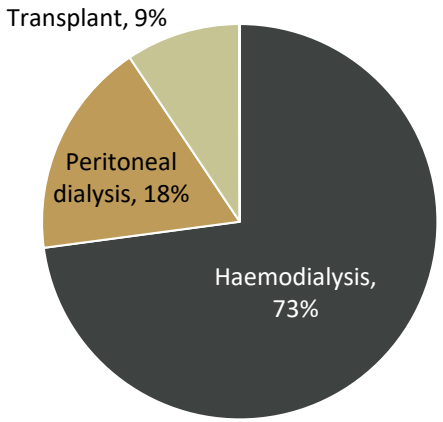
Incidence at day 91 by established modality

patients from registries providing individual patient data only

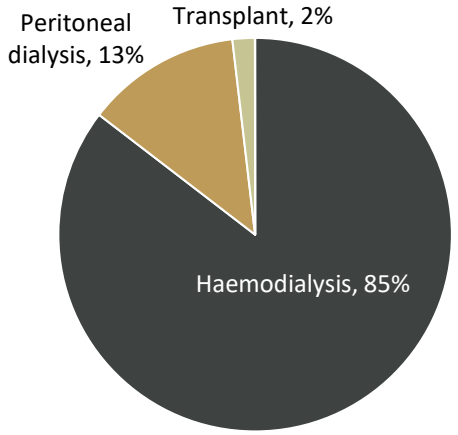
all patients



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



patients aged 65 years or older at the start of KRT

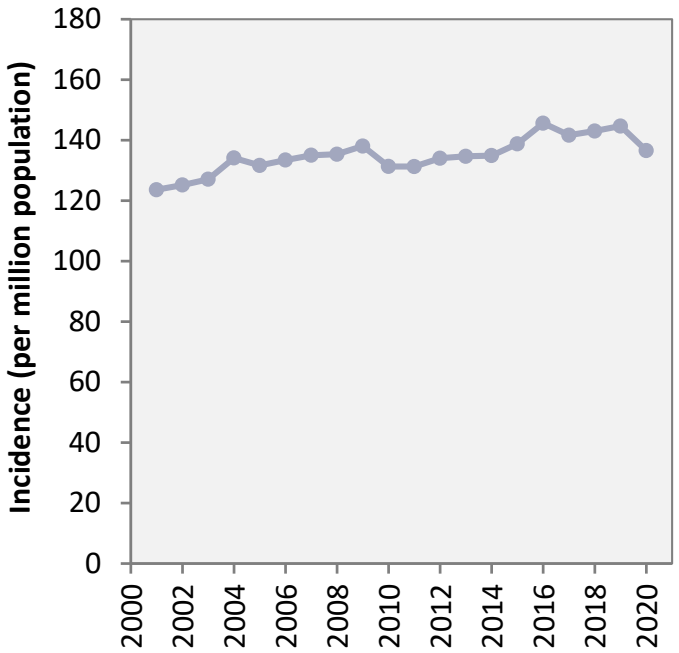


Incident patients accepted for KRT, at day 1

last 20 years (2002-2020)

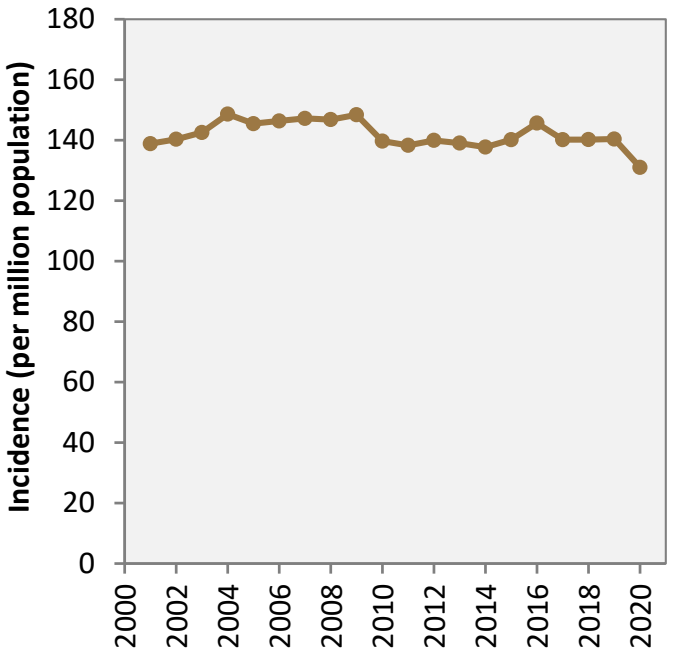
Unadjusted incidence over time

all patients starting KRT



Adjusted incidence over time

all patients starting KRT

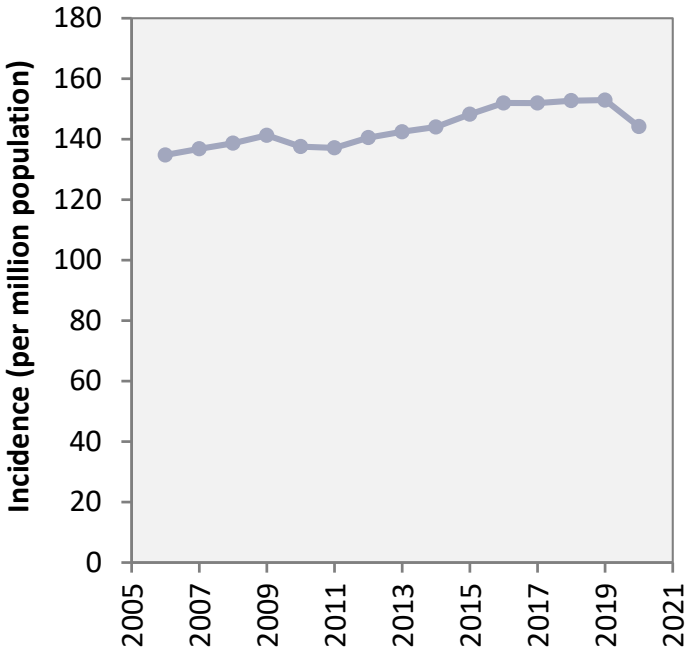


Incident patients accepted for KRT, at day 1

last 15 years (2006-2020)

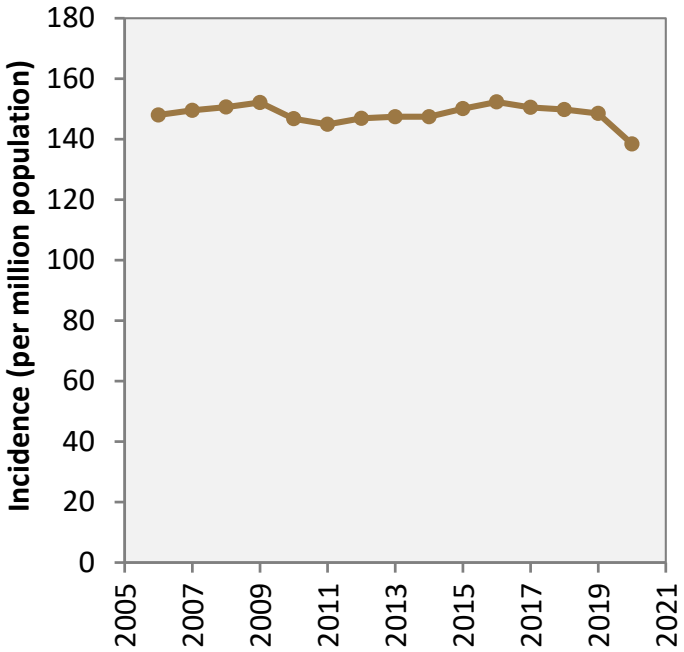
Unadjusted incidence over time

all patients starting KRT



Adjusted incidence over time

all patients starting KRT

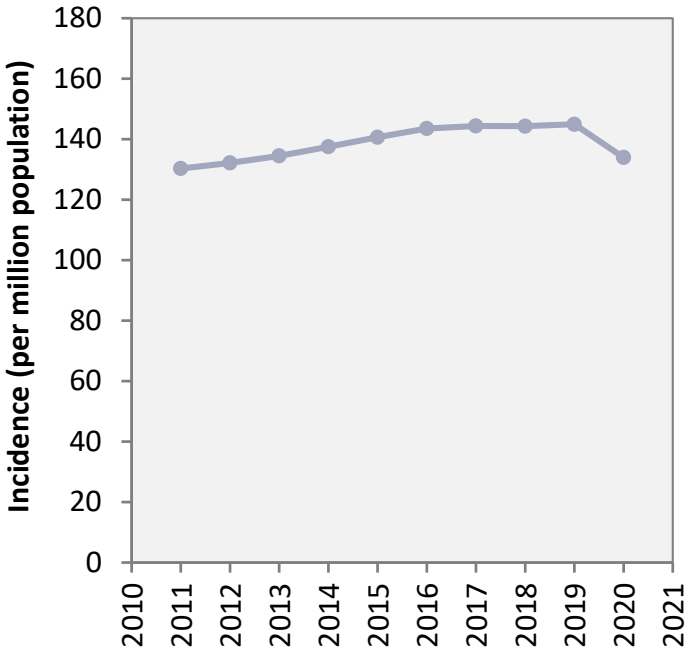


Incident patients accepted for KRT, at day 1

last 10 years (2011-2020)

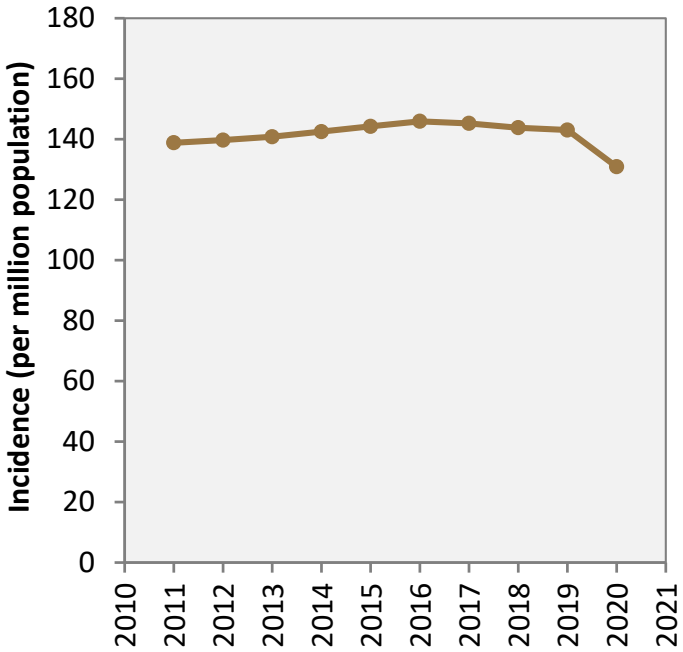
Unadjusted incidence over time

all patients starting KRT



Adjusted incidence over time

all patients starting KRT

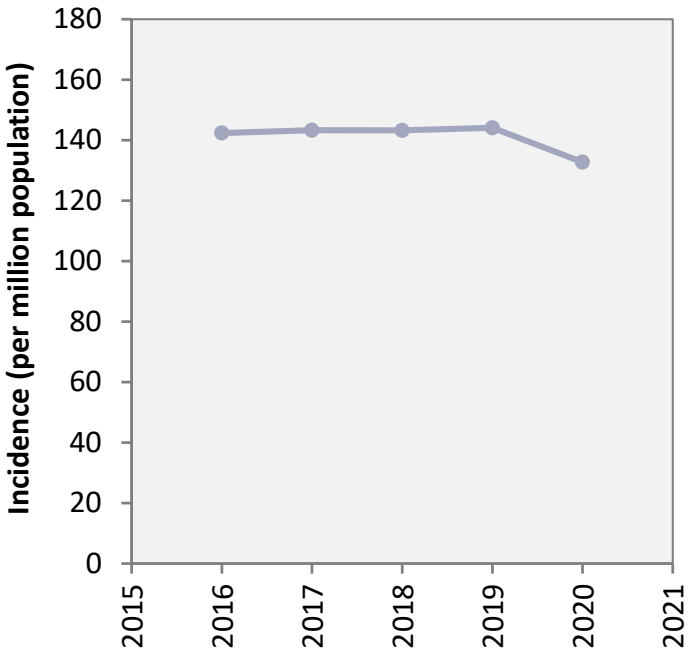


Incident patients accepted for KRT, at day 1

last 5 years (2016-2020)

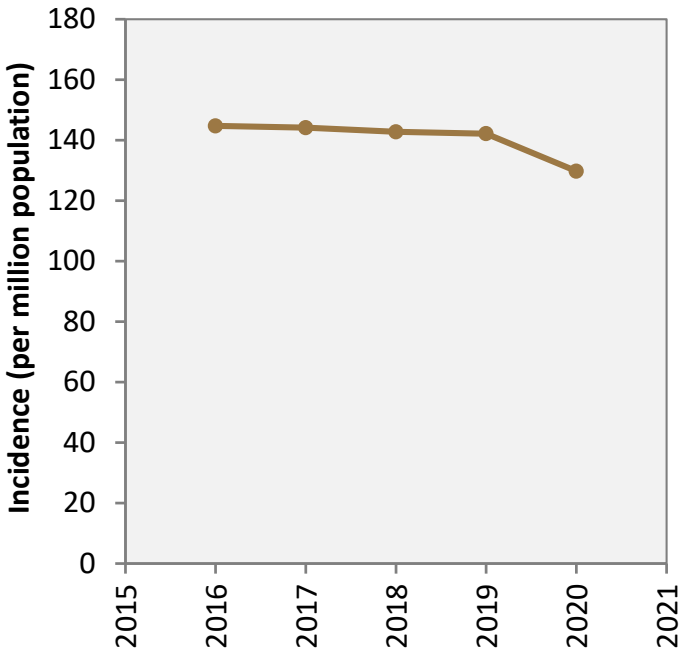
Unadjusted incidence over time

all patients starting KRT



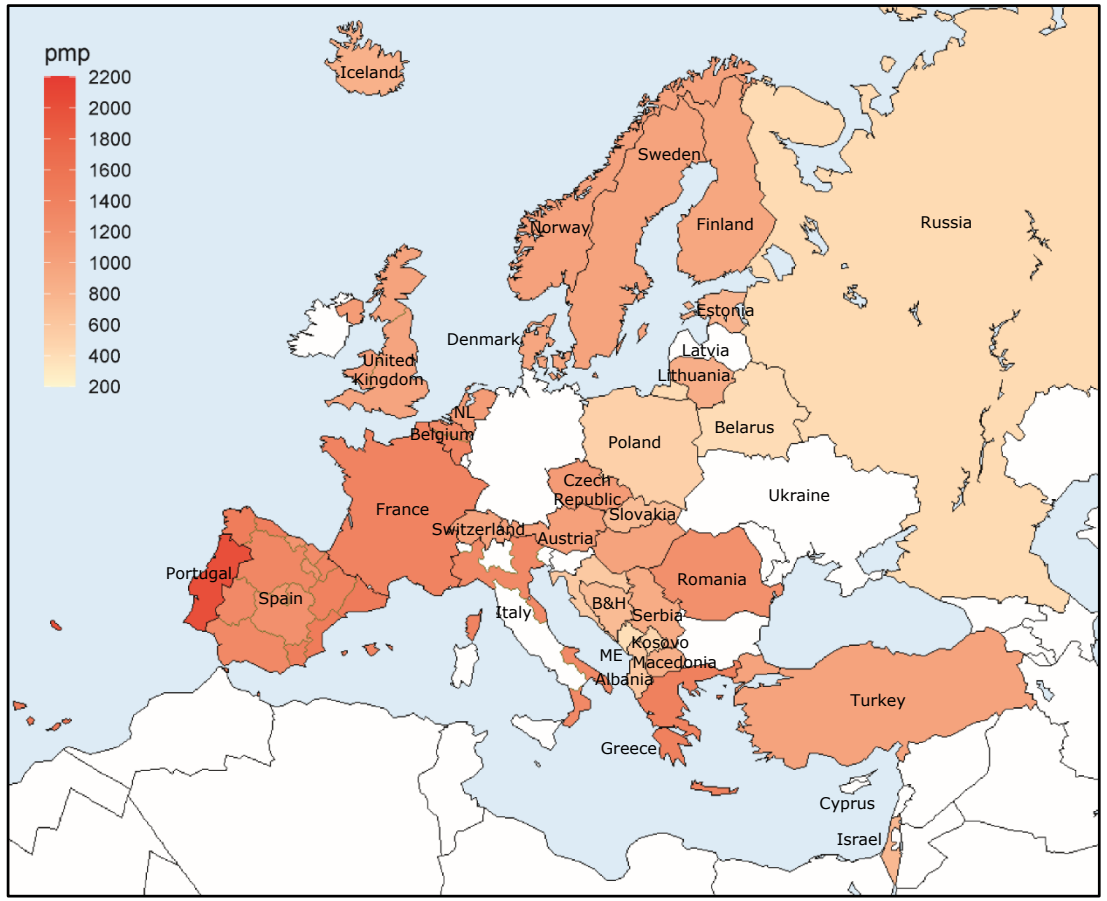
Adjusted incidence over time

all patients starting KRT



Prevalent patients on KRT in 2020

by country

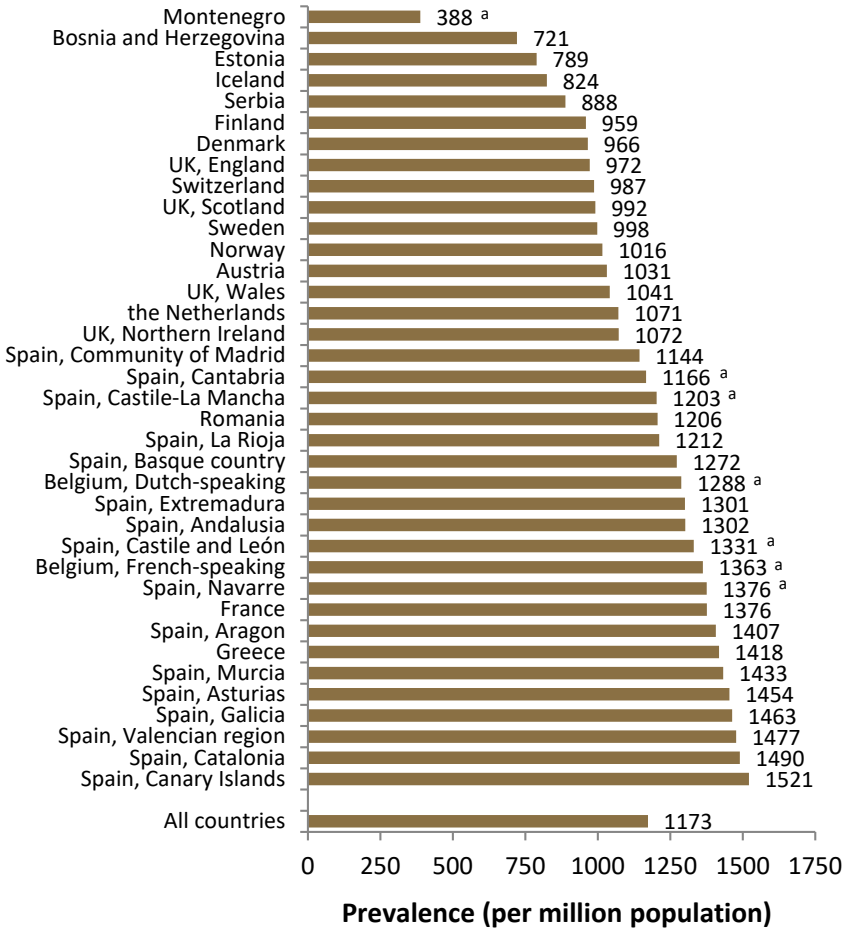


Prevalent patients on KRT in 2020

by country

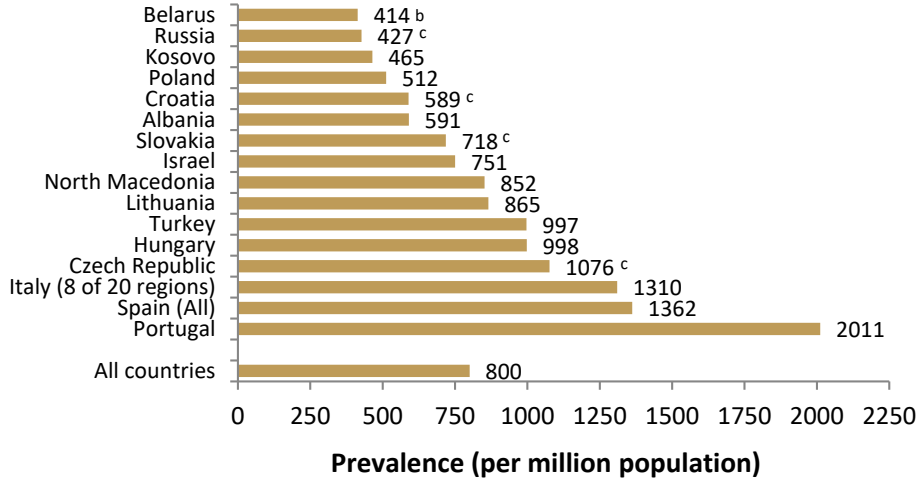
Unadjusted prevalence

renal registries providing individual patient data



Unadjusted prevalence

renal registries providing aggregated data



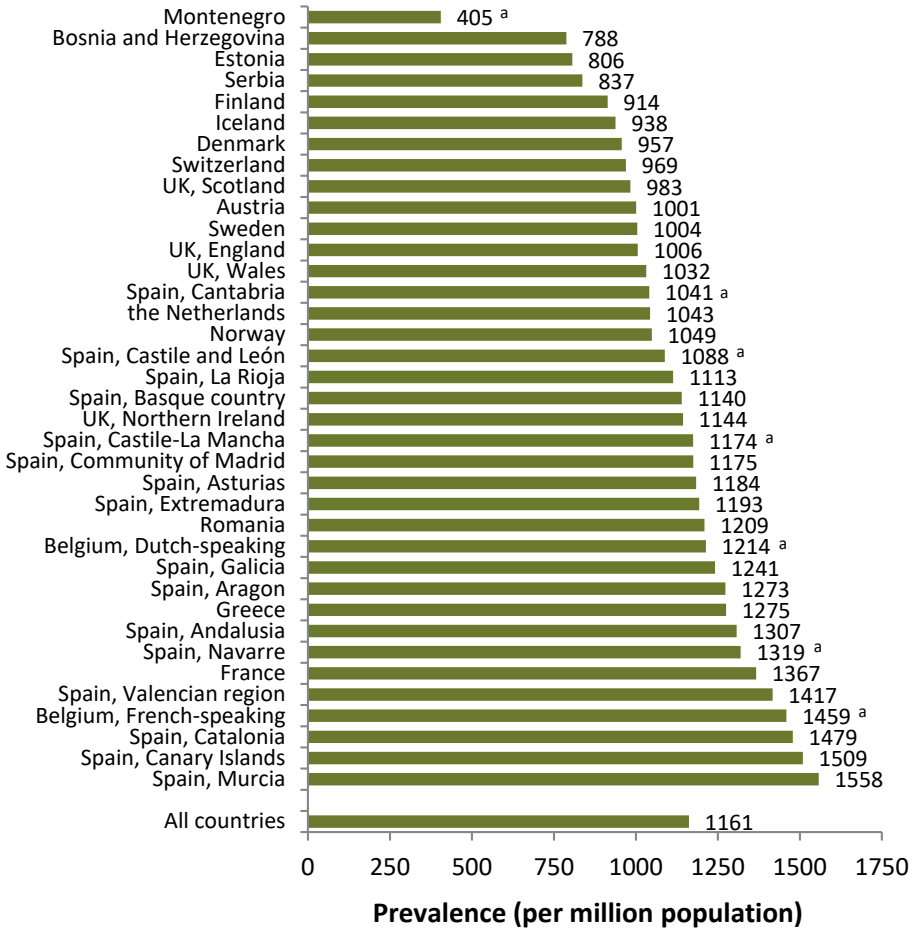
[a] patients younger than 20 years of age are not included; [b] patients younger than 18 years of age are not included; [c] data includes patients receiving dialysis only

Prevalent patients on KRT in 2020

by country, adjusted for age and sex

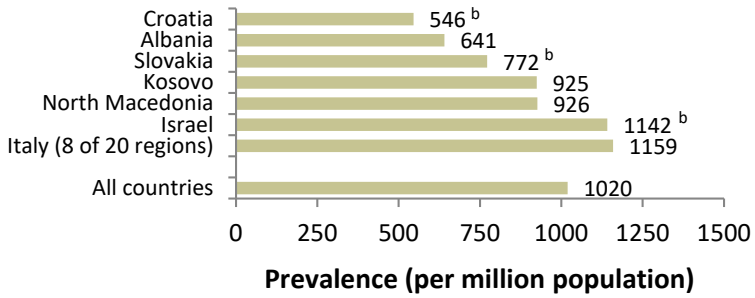
Adjusted prevalence

renal registries providing individual patient data



Adjusted prevalence

renal registries providing aggregated data



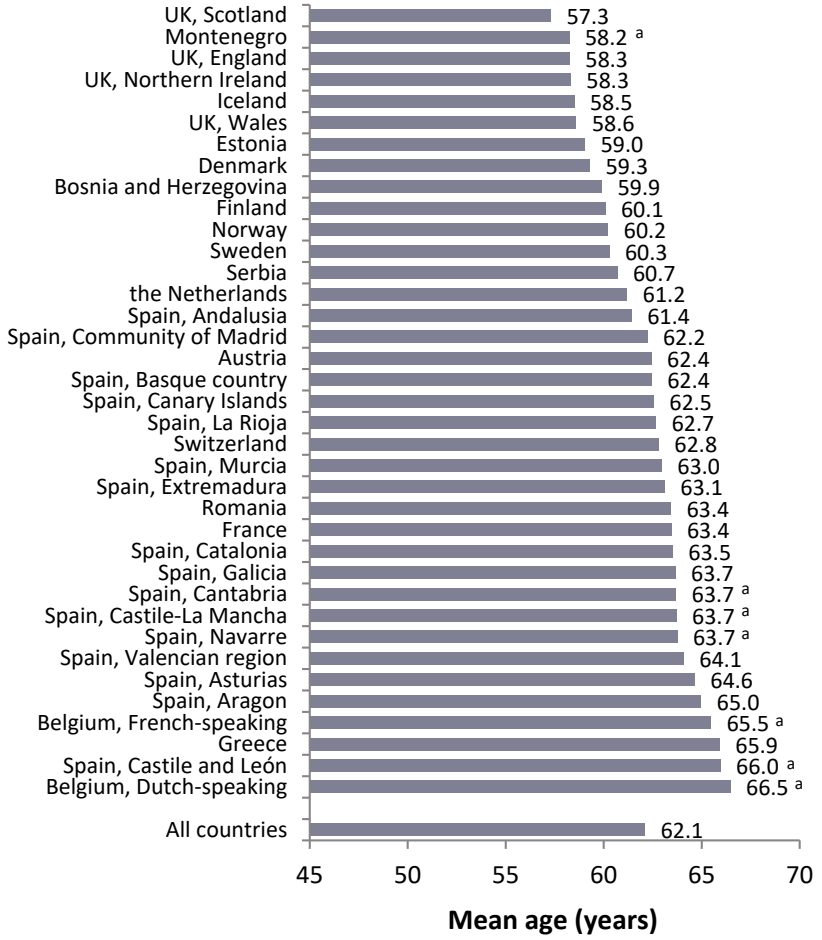
[a] patients younger than 20 years of age are not included; [b] data includes patients receiving dialysis only

Prevalent patients on KRT in 2020

mean age

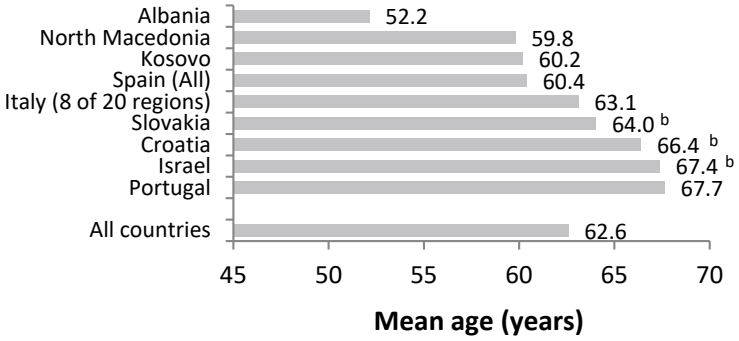
Mean age on 31 December 2020

renal registries providing individual patient data



Mean age on 31 December 2020

renal registries providing aggregated data



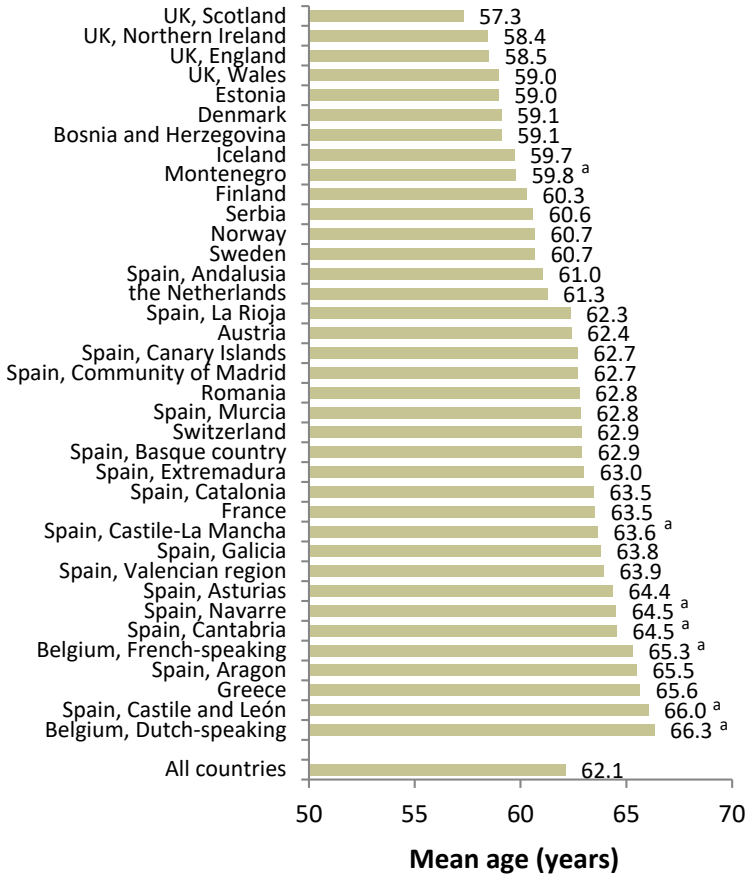
[a] patients younger than 20 years of age are not included; [b] data includes patients receiving dialysis only

Prevalent patients on KRT in 2020

for registries providing individual patient data only

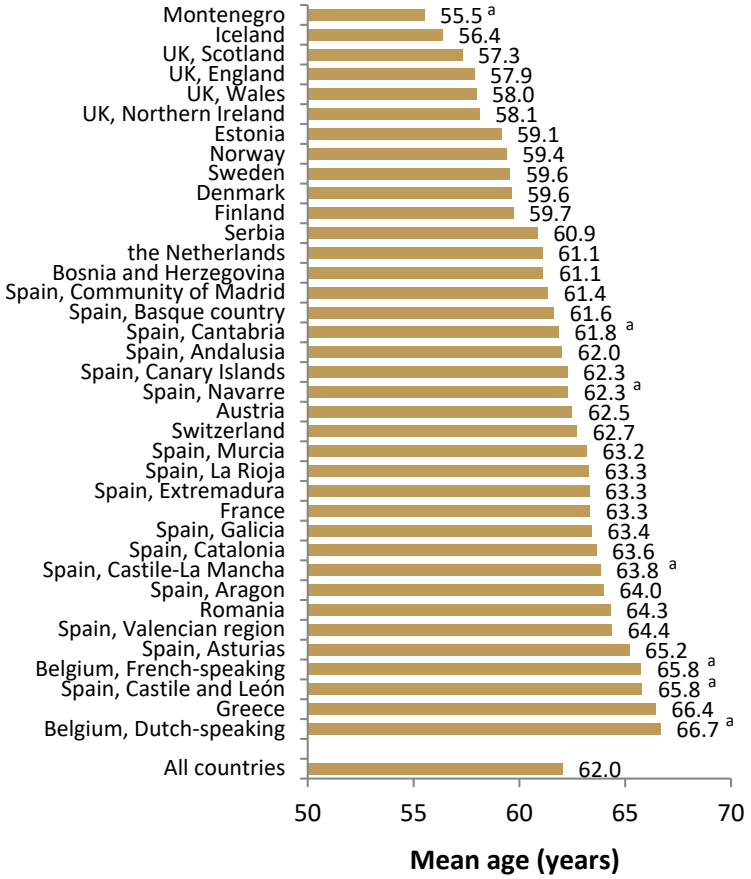
Mean age on 31 December 2020

male patients



Mean age on 31 December 2020

female patients



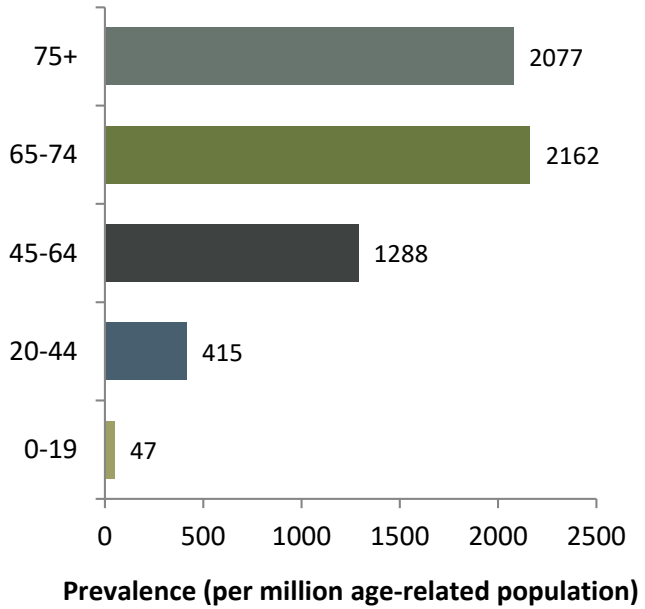
[a] *patients younger than 20 years of age are not included;*

Prevalent patients on KRT in 2020

by age category

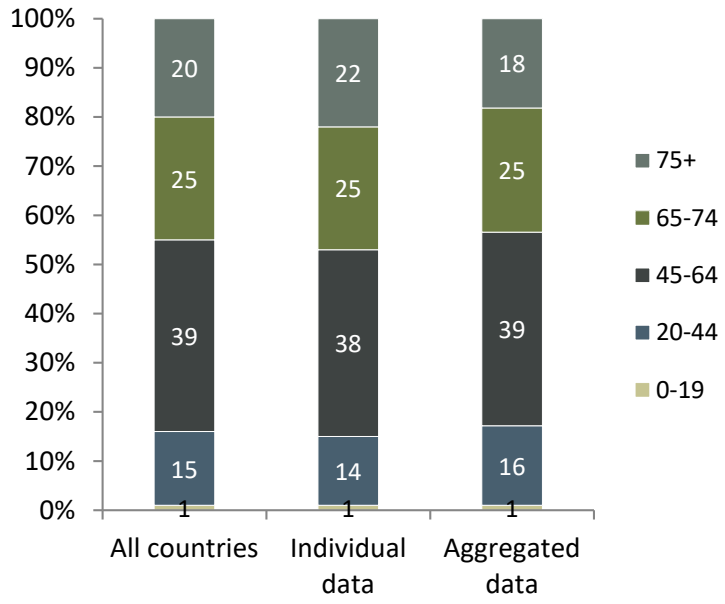
Prevalence by age category

for all registries



Prevalence by age category

by type of data provided by registry

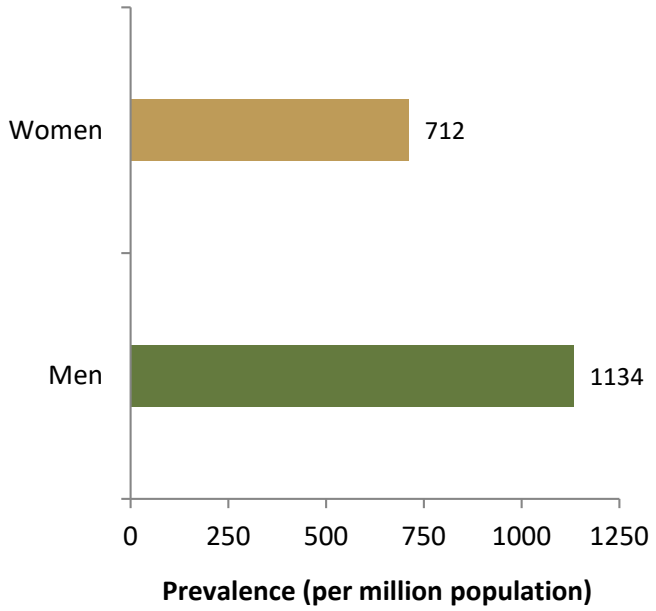


Prevalent patients on KRT in 2020

by sex

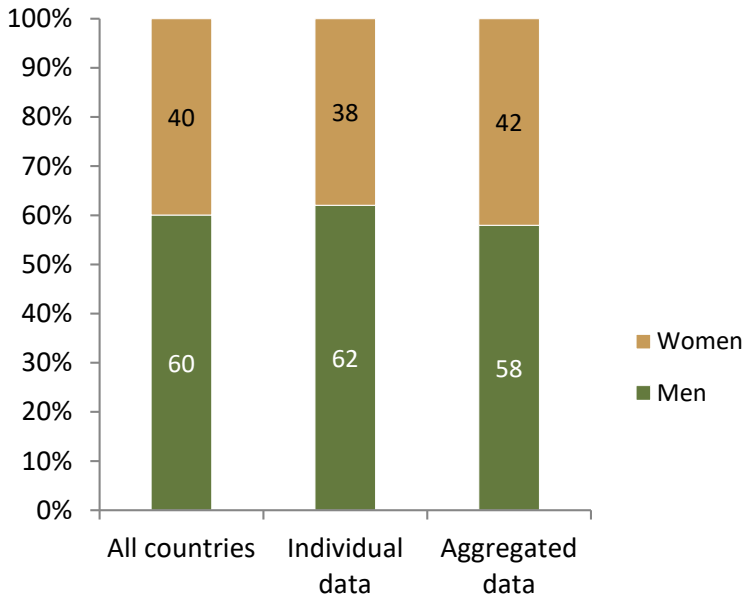
Prevalence by sex

for all registries



Prevalence by sex

by type of data provided by registry

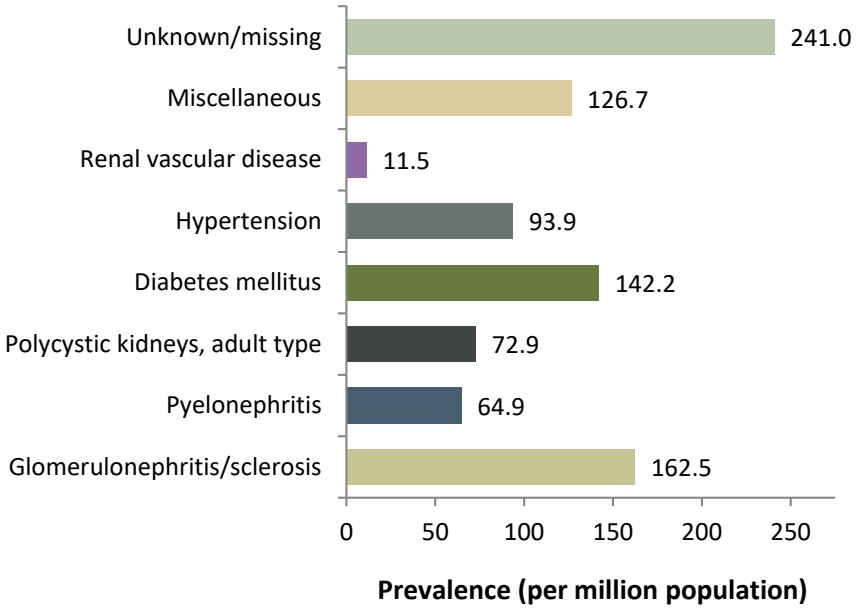


Prevalent patients on KRT in 2020

by primary renal disease

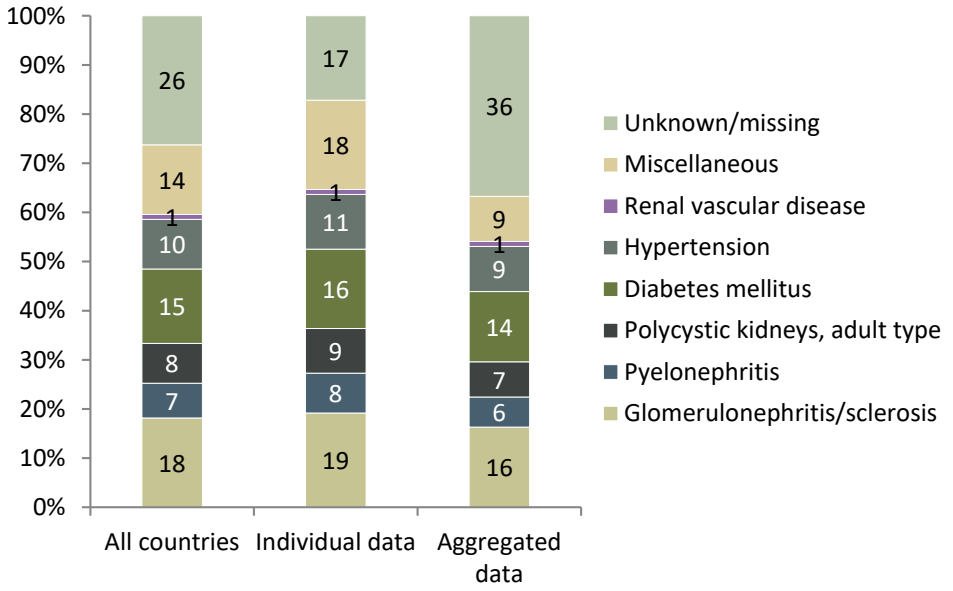
Prevalence by primary renal disease

for all registries



Prevalence by primary renal disease

by type of data provided by registry



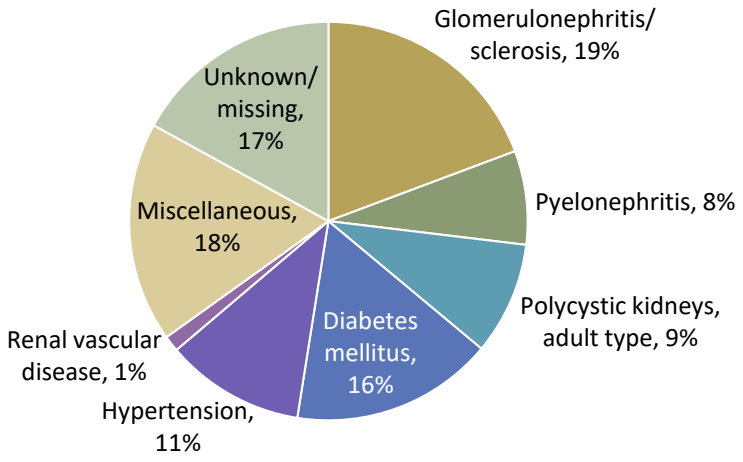
Prevalent patients on KRT in 2020

by primary renal disease and age category

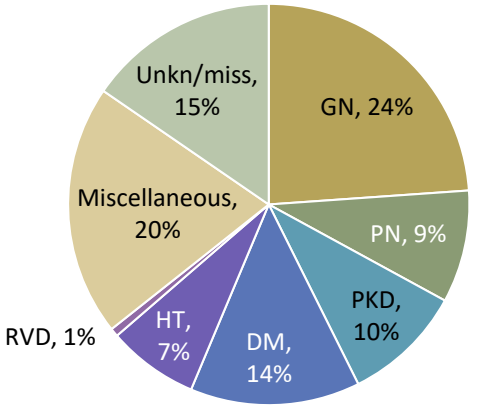
Prevalence by primary renal disease

patients from registries providing individual patient data only

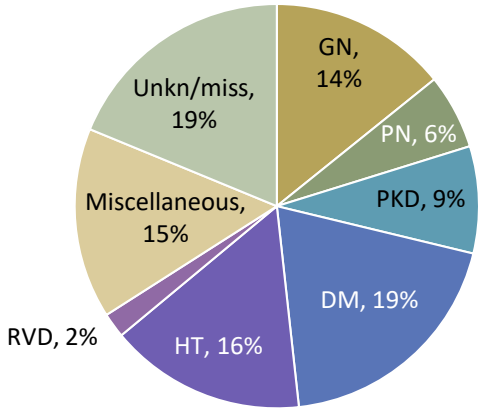
all patients



patients younger than 65 years of age



patients aged 65 years or older

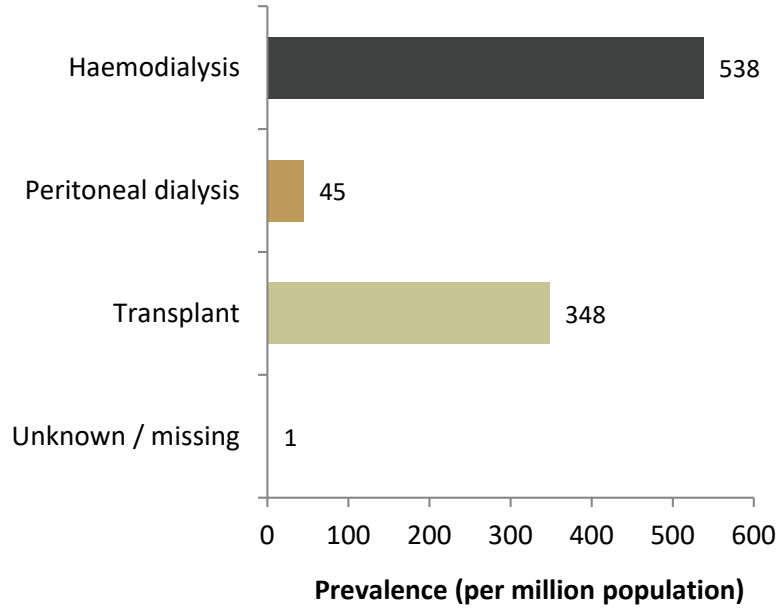


Prevalent patients on KRT in 2020

by modality

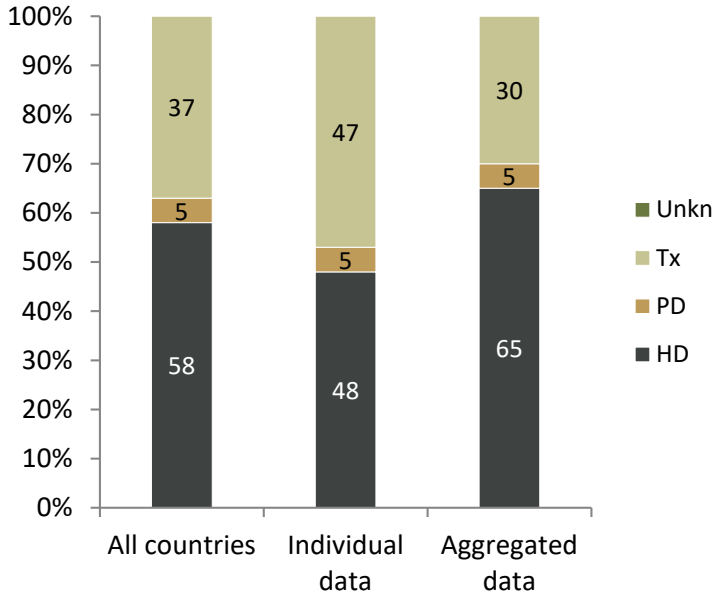
Prevalence by modality

for all registries



Prevalence by modality

by type of data provided by registry



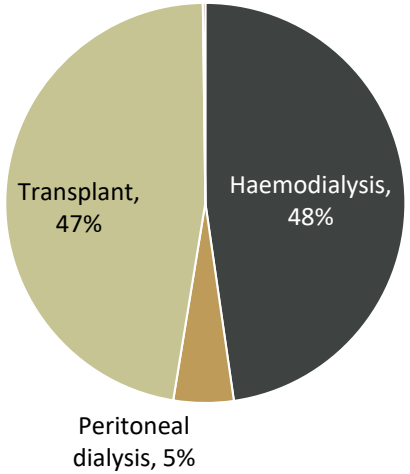
Prevalent patients on KRT in 2020

by modality and age category

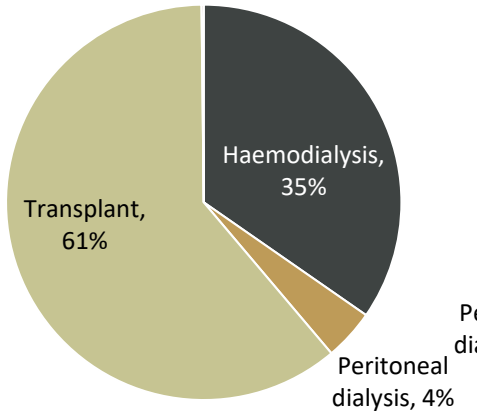
Prevalence by modality

patients from registries providing individual patient data only

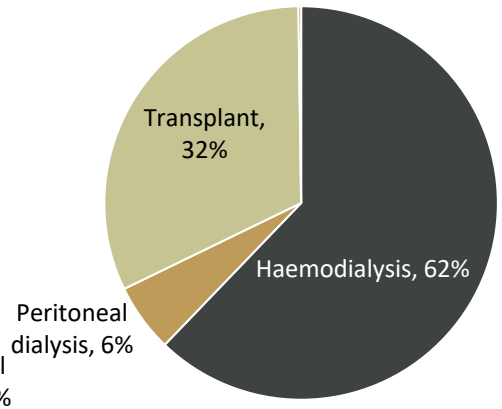
all patients



patients younger than 65 years of age



patients aged 65 years or older

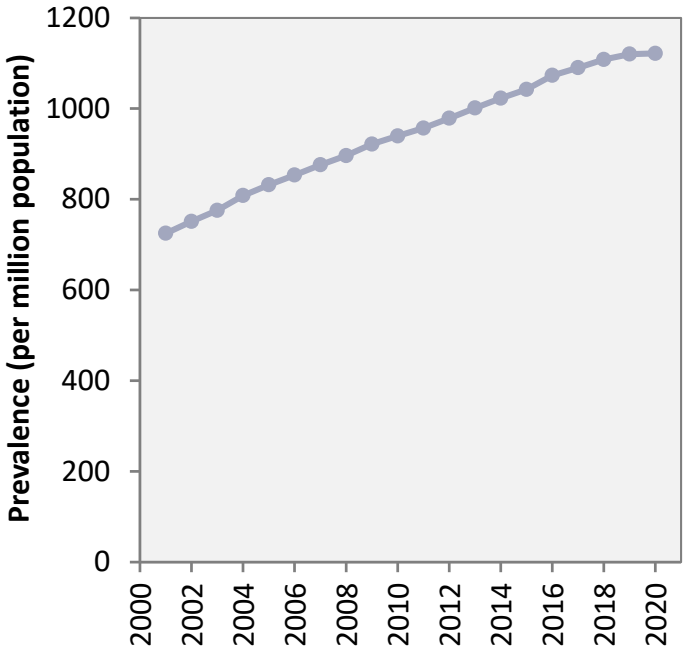


Prevalent patients on KRT

last 20 years (2001-2020)

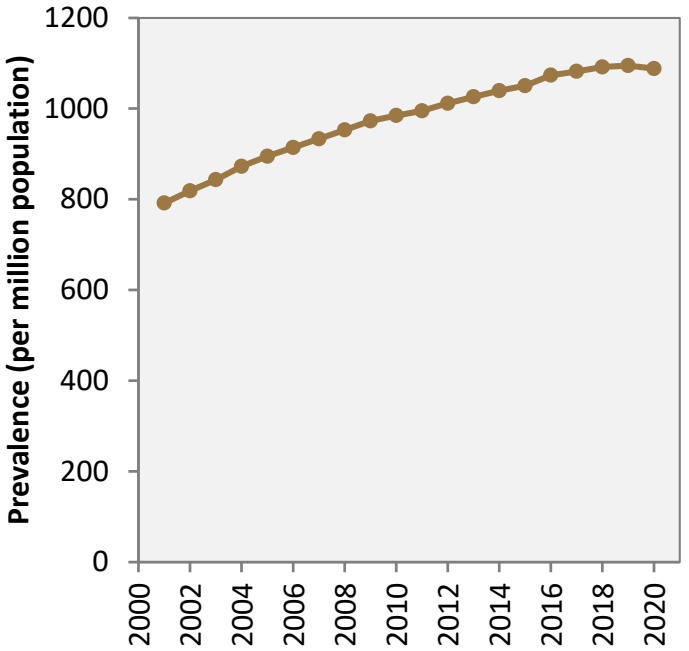
Unadjusted prevalence over time

all patients on KRT



Adjusted prevalence over time

all patients on KRT

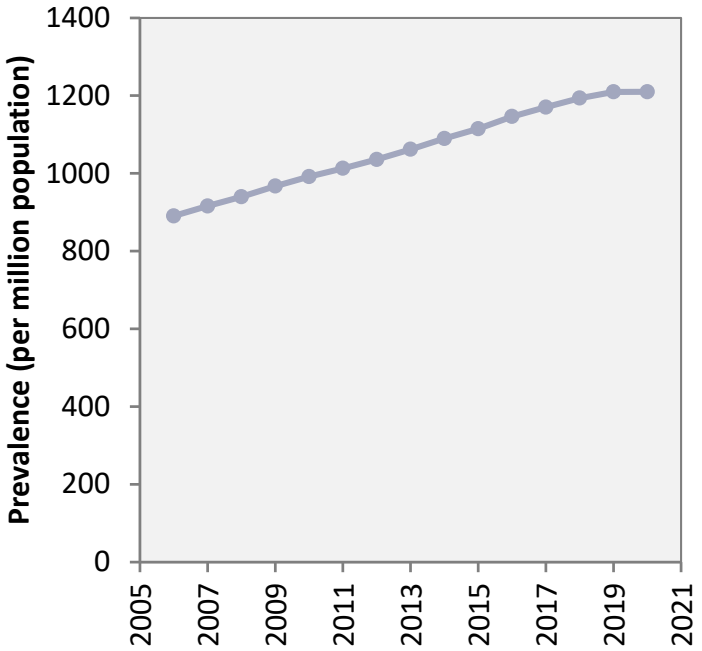


Prevalent patients on KRT

last 15 years (2006-2020)

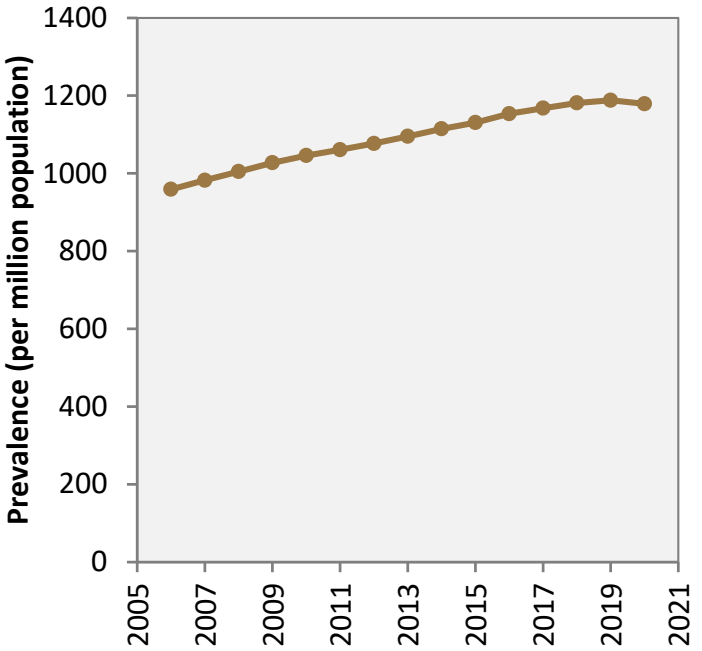
Unadjusted prevalence over time

all patients on KRT



Adjusted prevalence over time

all patients on KRT

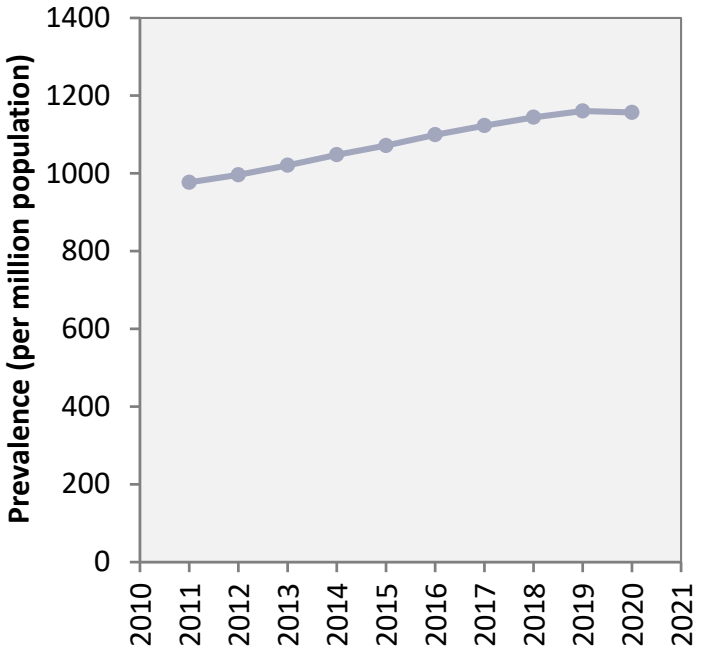


Prevalent patients on KRT

last 10 years (2011-2020)

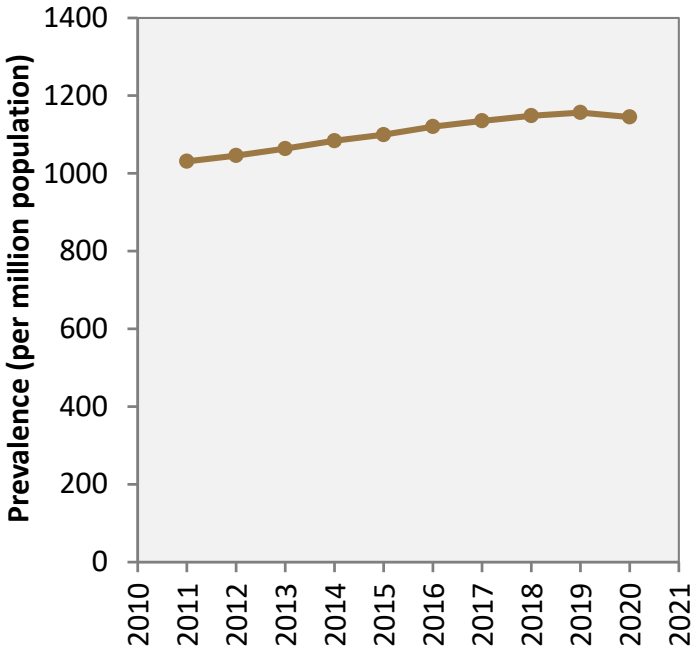
Unadjusted prevalence over time

all patients on KRT



Adjusted prevalence over time

all patients on KRT

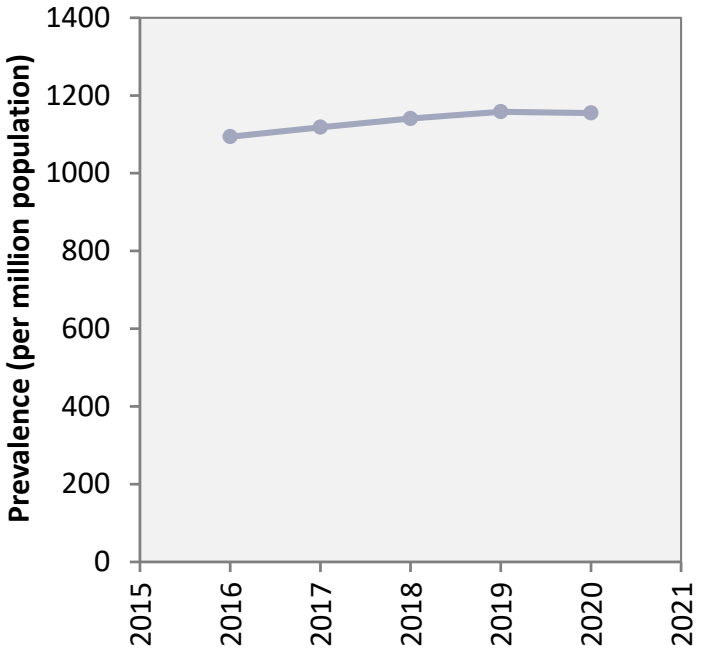


Prevalent patients on KRT

last 5 years (2016-2020)

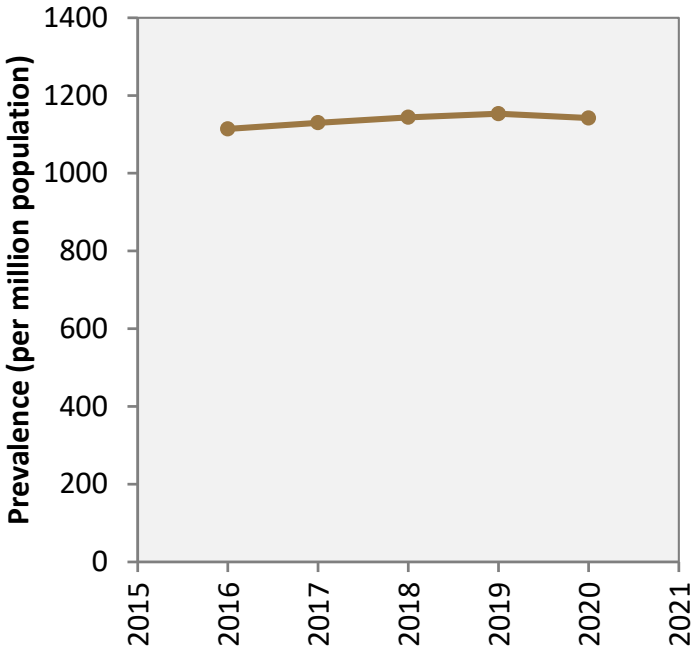
Unadjusted prevalence over time

all patients on KRT



Adjusted prevalence over time

all patients on KRT

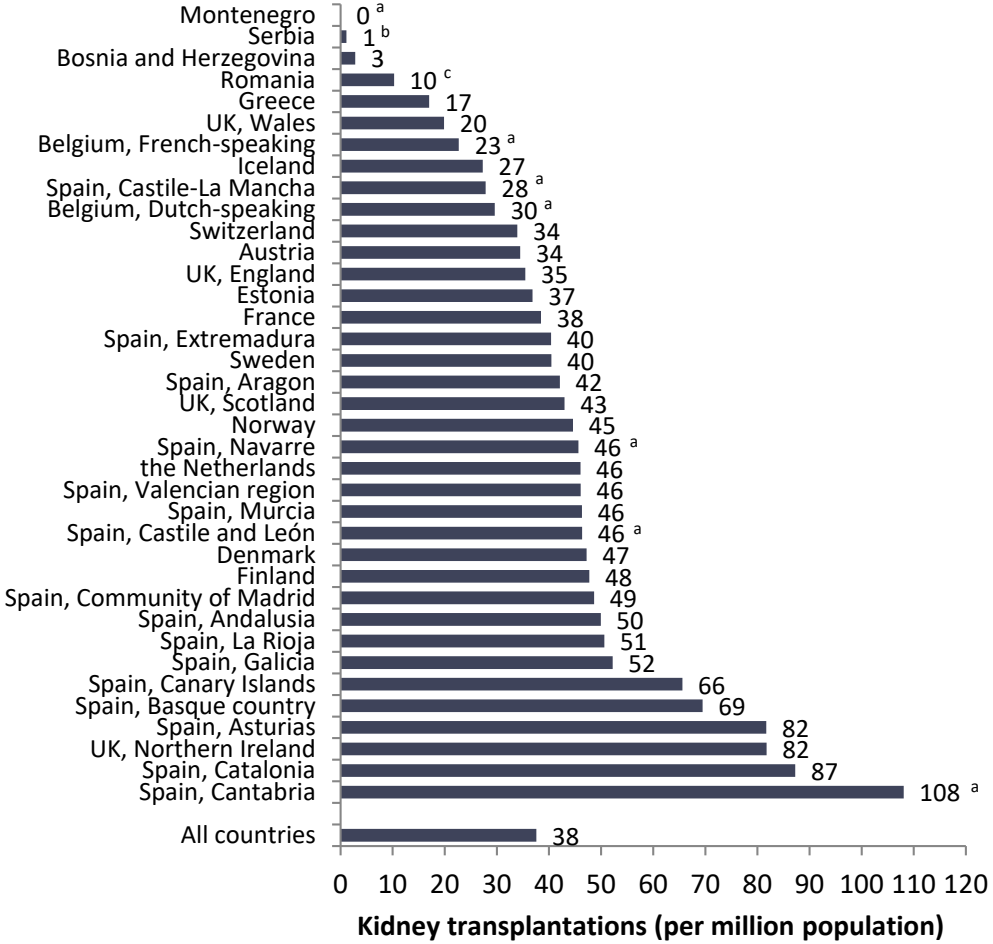


Kidney transplantations performed in 2020

by country

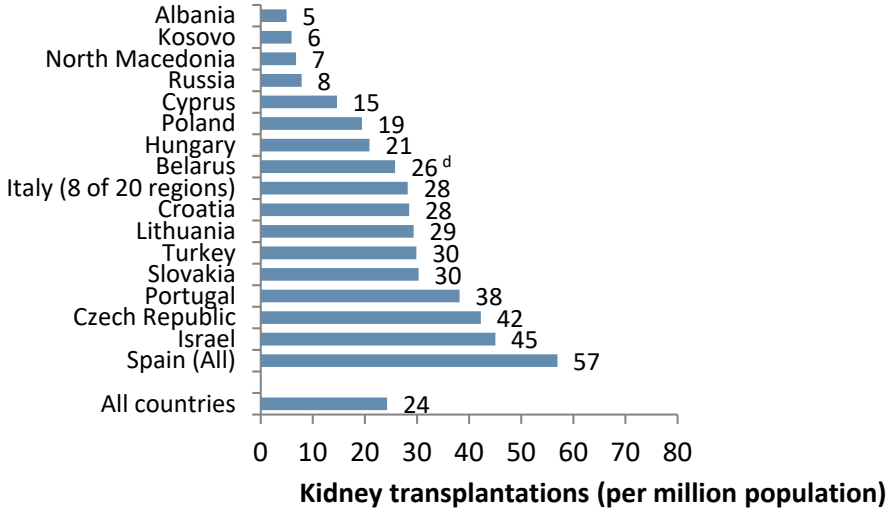
Kidney transplantation rate

renal registries providing individual patient data



Kidney transplantation rate

renal registries providing aggregated data



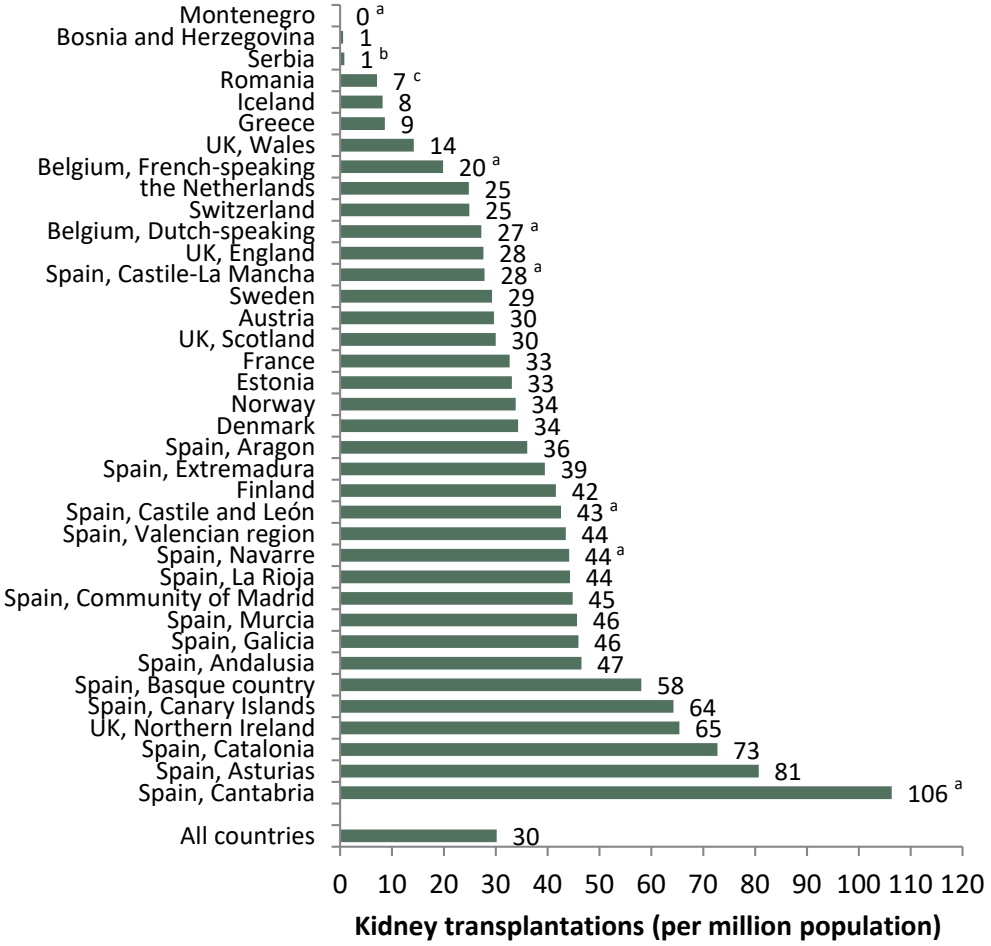
[a] *patients younger than 20 years of age are not included;* [bc] *transplantation rates are underestimated by 15% (b), 30% (c);* [d] *patients younger than 18 years of age are not included*

Kidney transplantations performed in 2020

transplants from deceased donors, by country

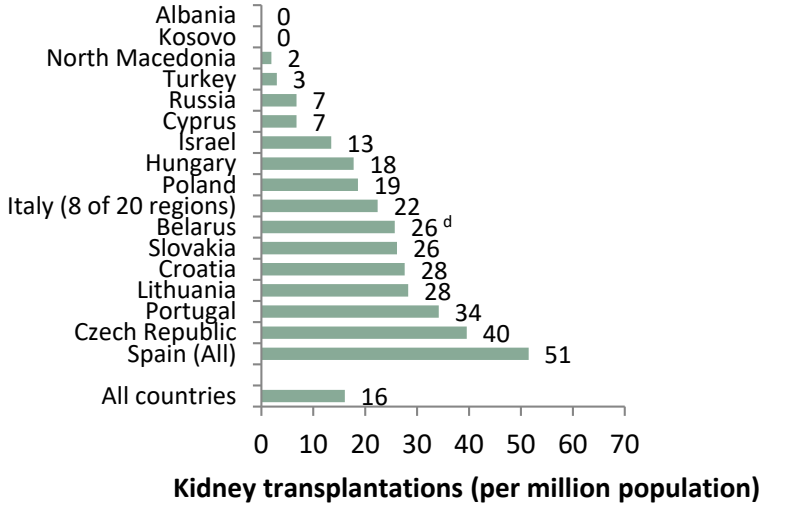
Deceased donor transplantation rate

renal registries providing individual patient data



Deceased donor transplantation rate

renal registries providing aggregated data



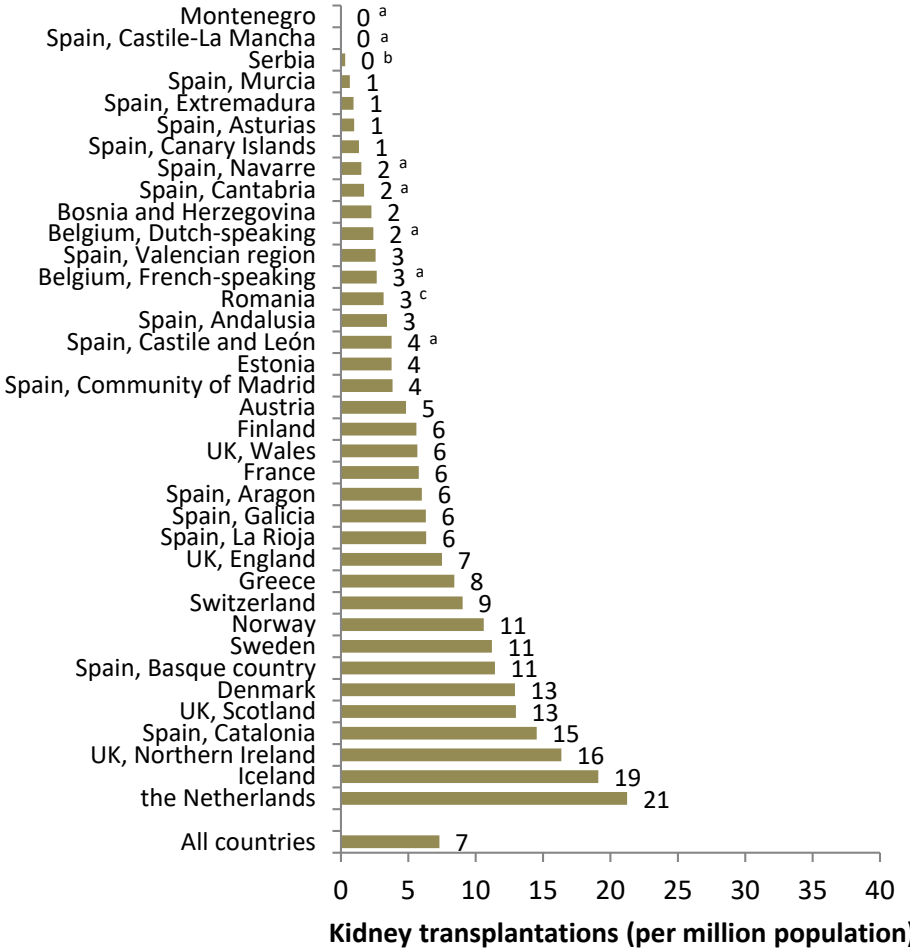
[a] patients younger than 20 years of age are not included; [bc] transplantation rates are underestimated by 16% (b), 30% (c); [d] patients younger than 18 years of age are not included

Kidney transplantations performed in 2020

transplants from living donors, by country

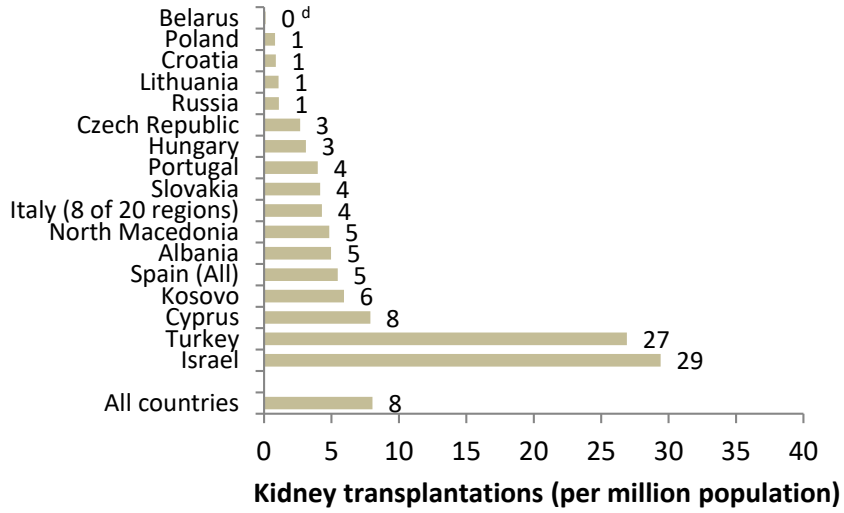
Living donor transplantation rate

renal registries providing individual patient data



Living donor transplantation rate

renal registries providing aggregated data



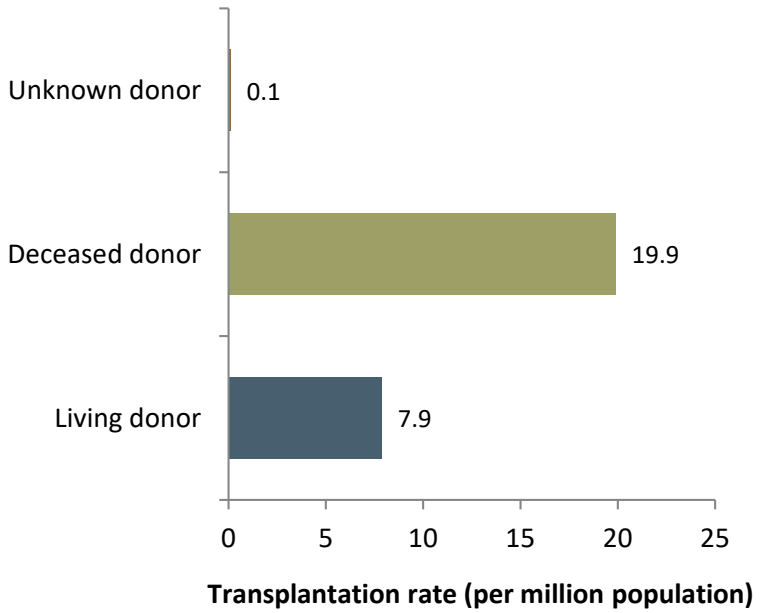
[a] patients younger than 20 years of age are not included; [bc] transplant rates are underestimated by 12% (b), 30% (c); [d] patients younger than 18 years of age are not included

Kidney transplantations performed in 2020

by donor type

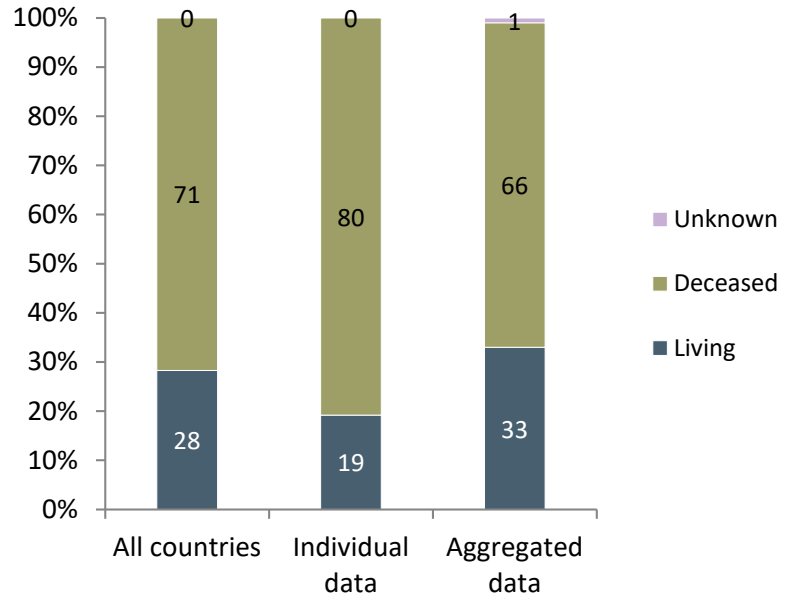
Kidney transplantations by donor type

for all registries



Kidney transplantations by donor type

by type of data provided by registry



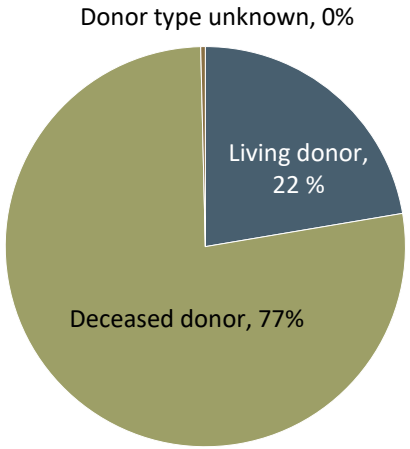
Kidney transplantations performed in 2020

by donor type

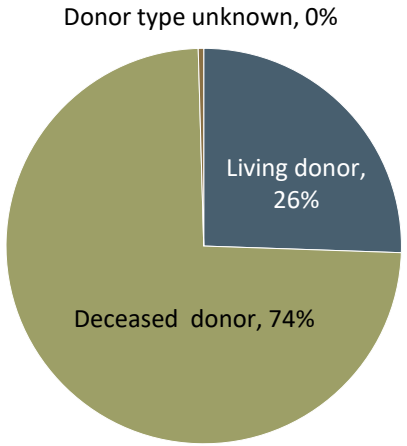
Kidney transplantations by donor type

patients from registries providing individual patient data only

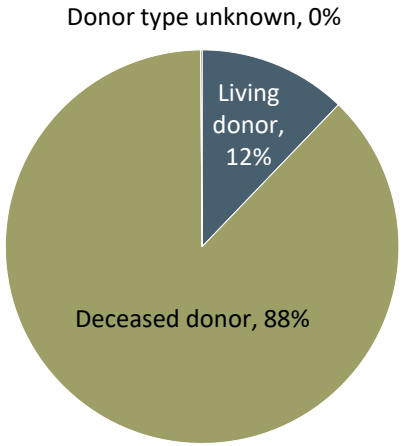
all patients



patients younger than 65 years of age at transplantation



patients aged 65 years or older at transplantation

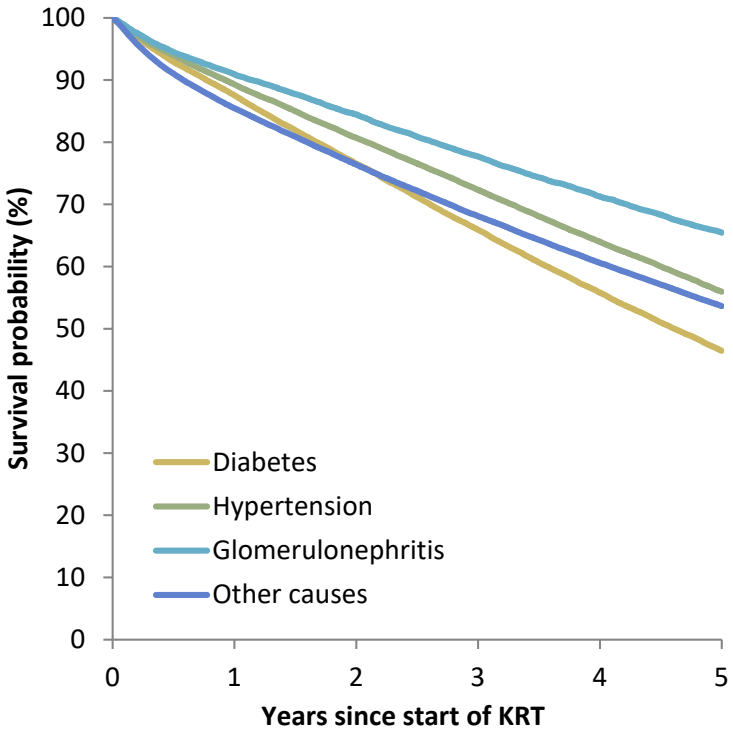


Survival probability, cohort 2011-2015

by primary renal disease

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).

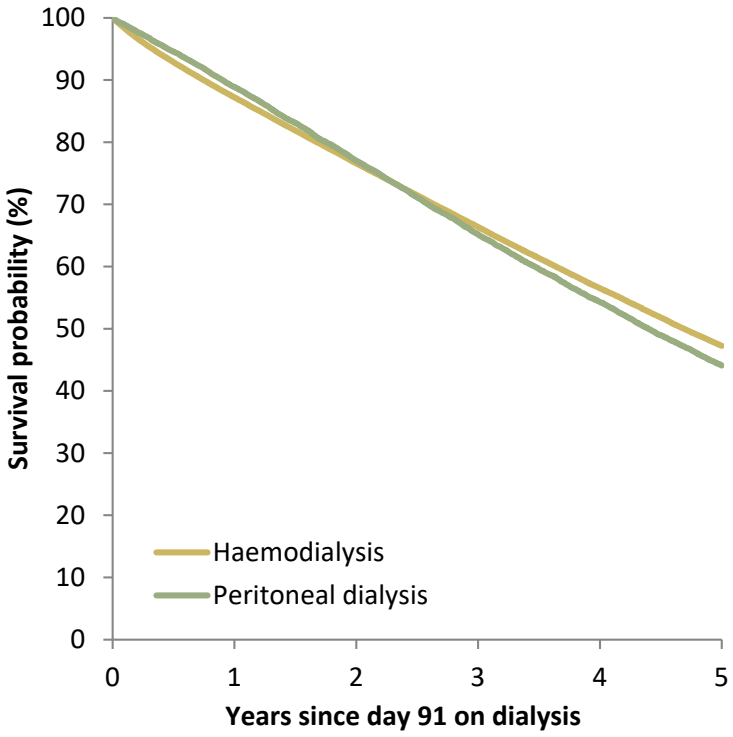
Cox regression model was used to calculate survival probabilities.

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).

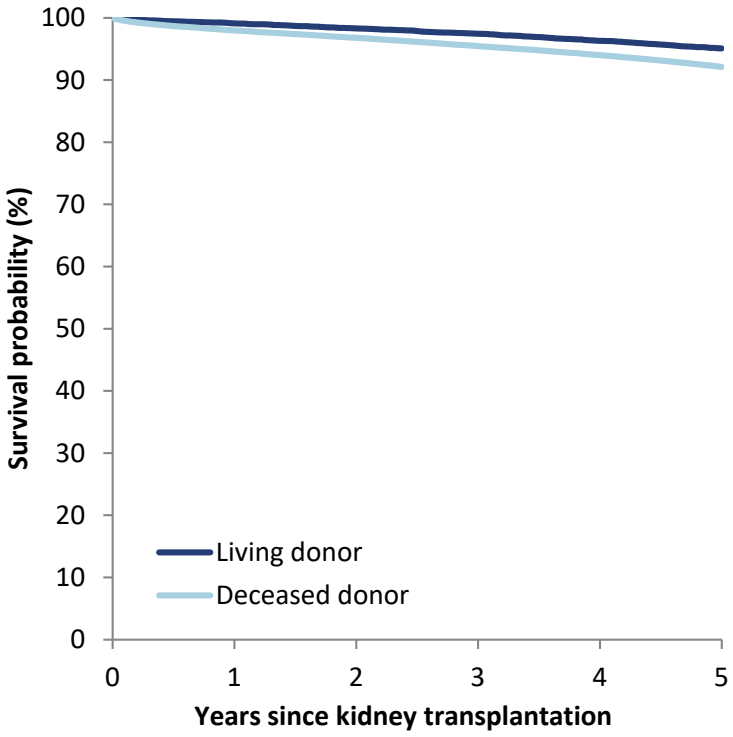
Cox regression model was used to calculate survival probabilities.

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 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).

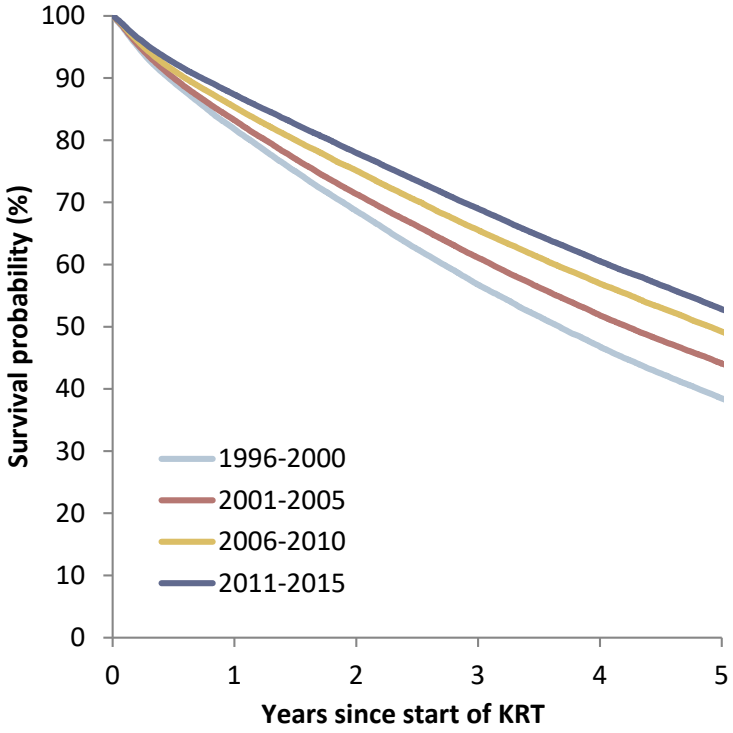
Cox regression model was used to calculate survival probabilities.

Patient survival on KRT

by cohort

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).

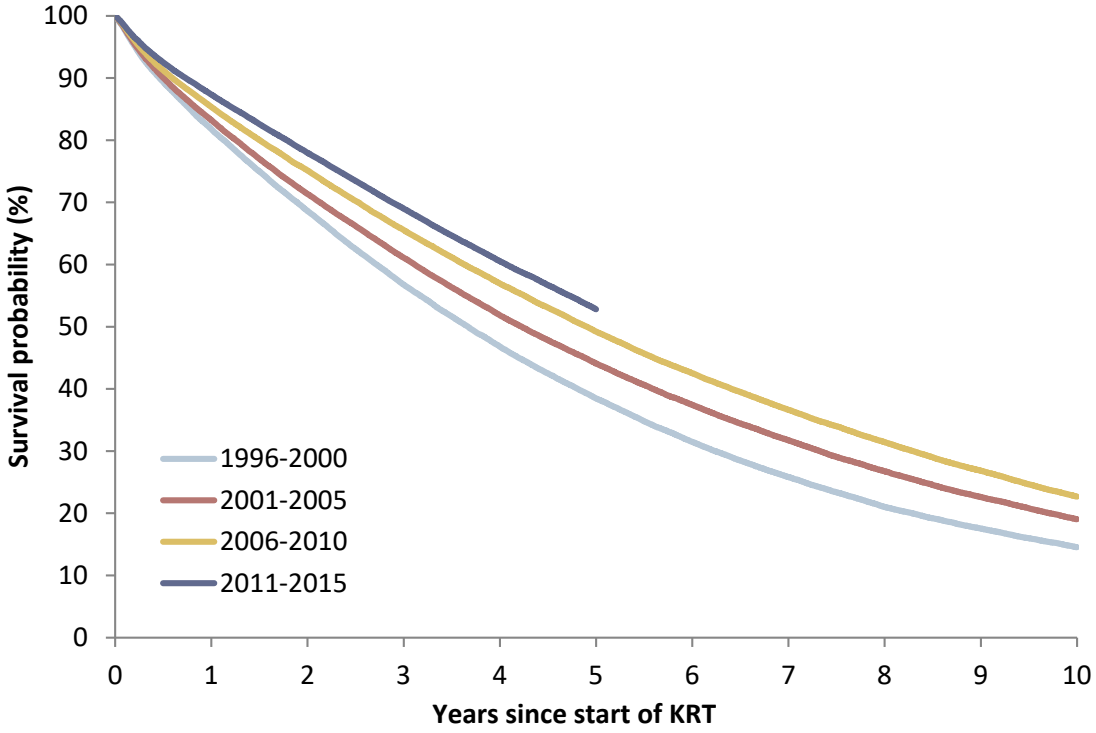
Cox regression model was used to calculate survival probabilities.

Patient survival on KRT

by cohort

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).

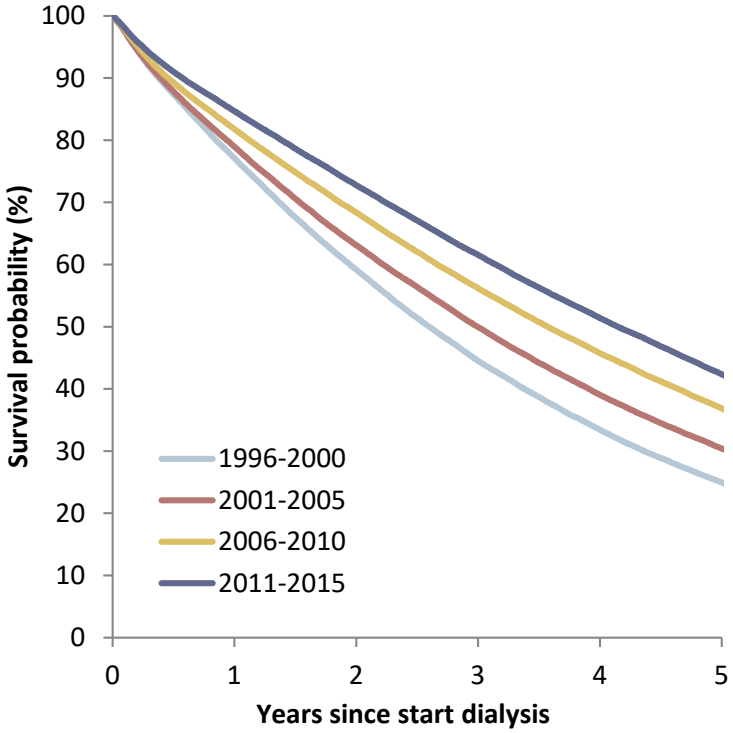
Cox regression model was used to calculate survival probabilities.

Patient survival on dialysis

by cohort

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).

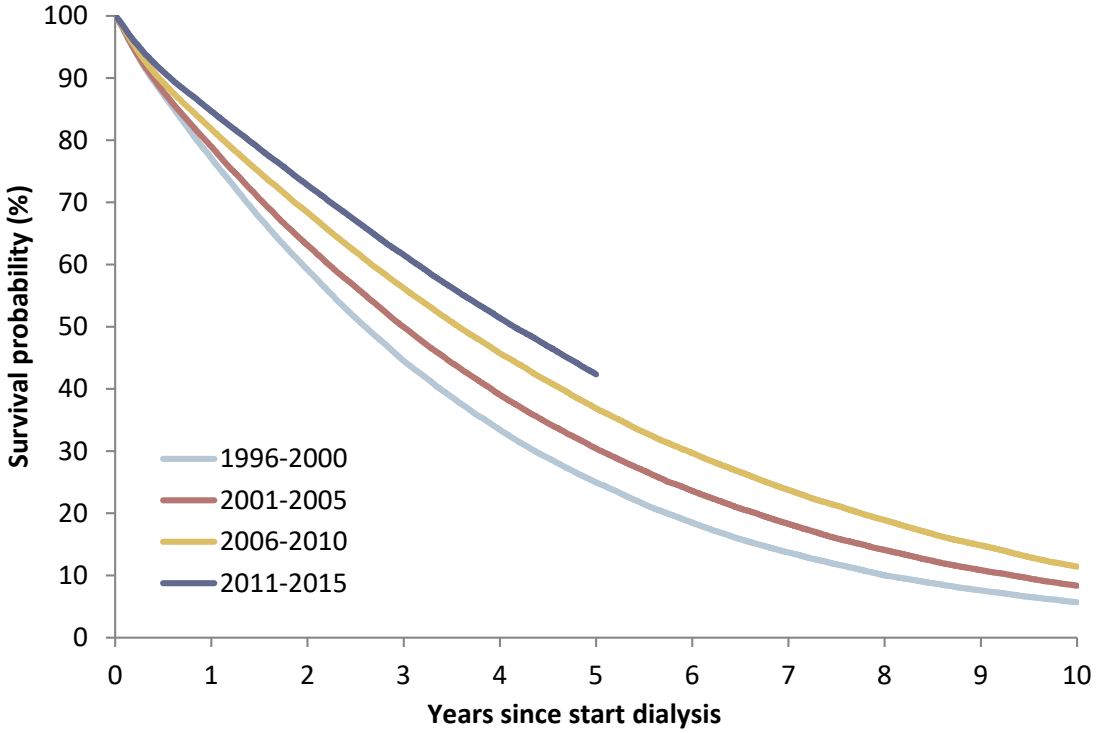
Cox regression model was used to calculate survival probabilities.

Patient survival on dialysis

by cohort

Patient survival
incident dialysis patients

adjusted for age, sex and cause of renal failure

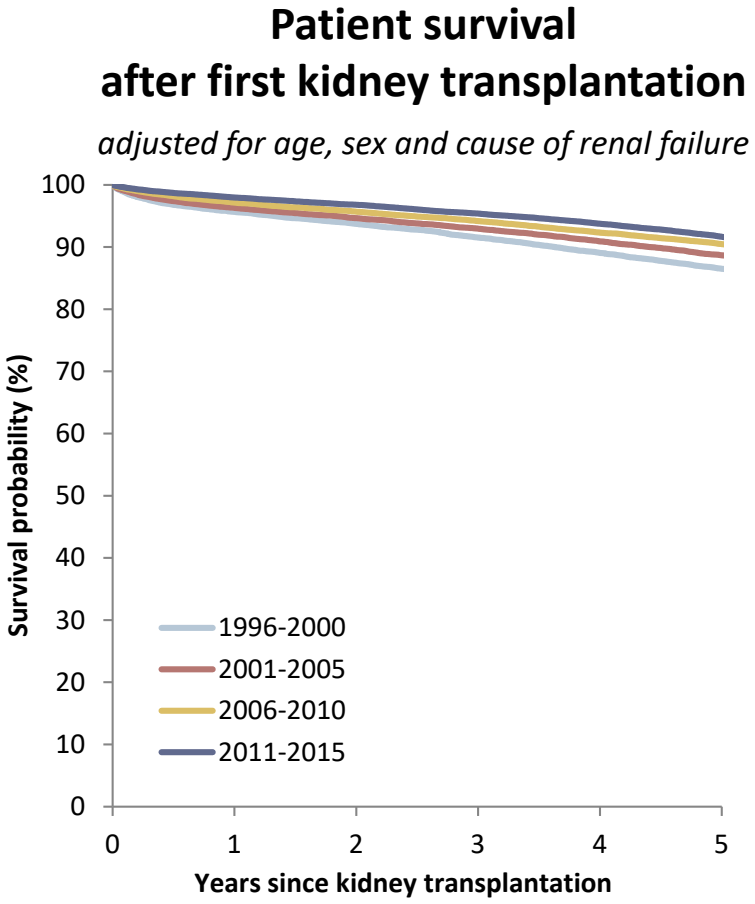


Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diabetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.

Patient survival after kidney transplantation

by cohort

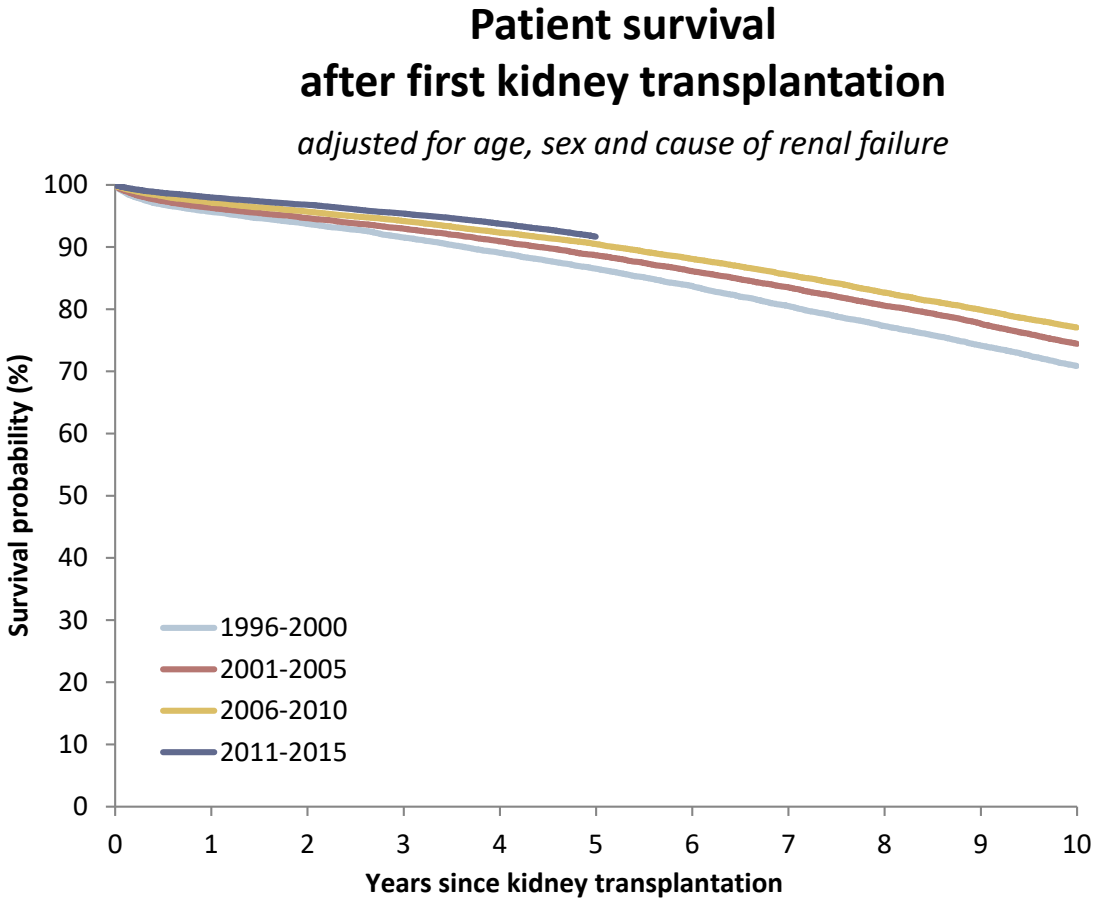


Survival probabilities were adjusted for fixed values for age (50 years), sex (63% men), and the primary renal disease distribution (14% diabetes mellitus, 10% hypertension / renal vascular disease, 23% glomerulonephritis and 53% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.

Patient survival after kidney transplantation

by cohort

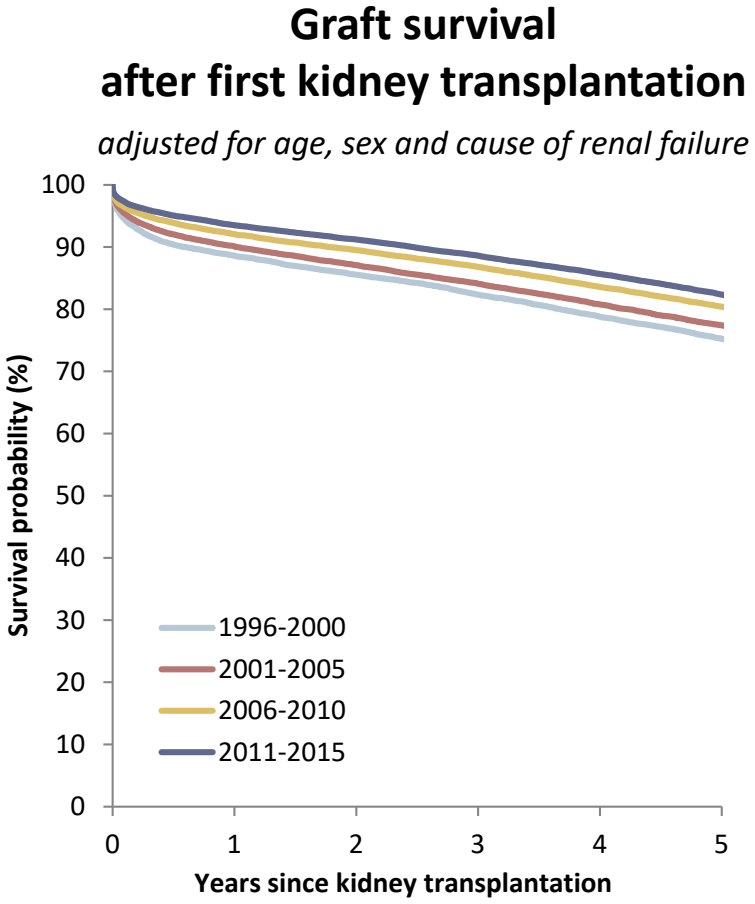


Survival probabilities were adjusted for fixed values for age (50 years), sex (63% men), and the primary renal disease distribution (14% diabetes mellitus, 10% hypertension / renal vascular disease, 23% glomerulonephritis and 53% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.

Graft survival after kidney transplantation

by cohort



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).

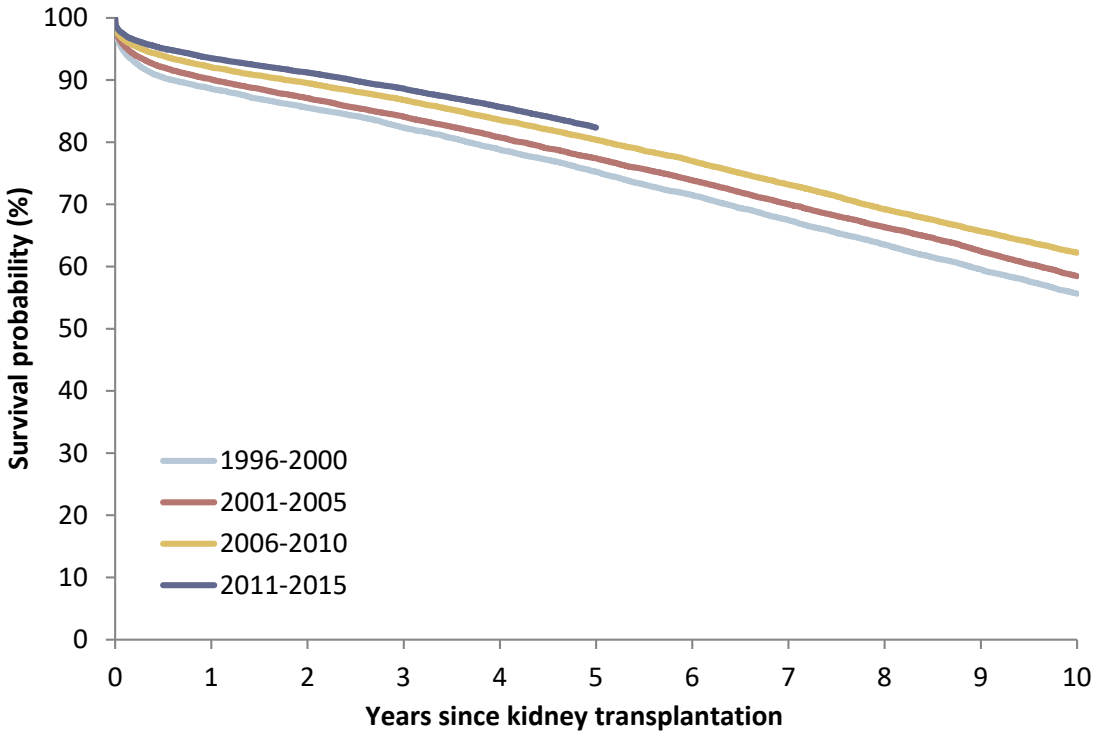
Cox regression model was used to calculate survival probabilities.

Graft survival after kidney transplantation

by cohort

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.