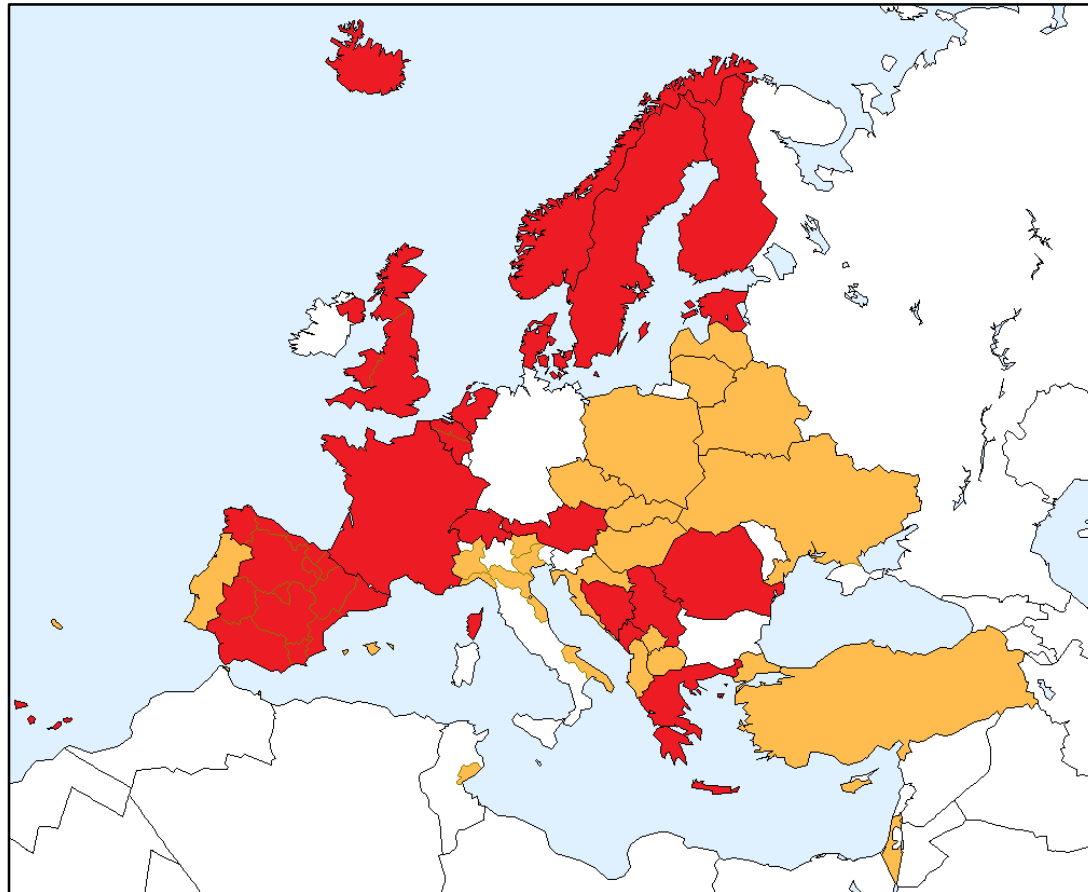






**Summary of the
2021 ERA Registry Annual Report**

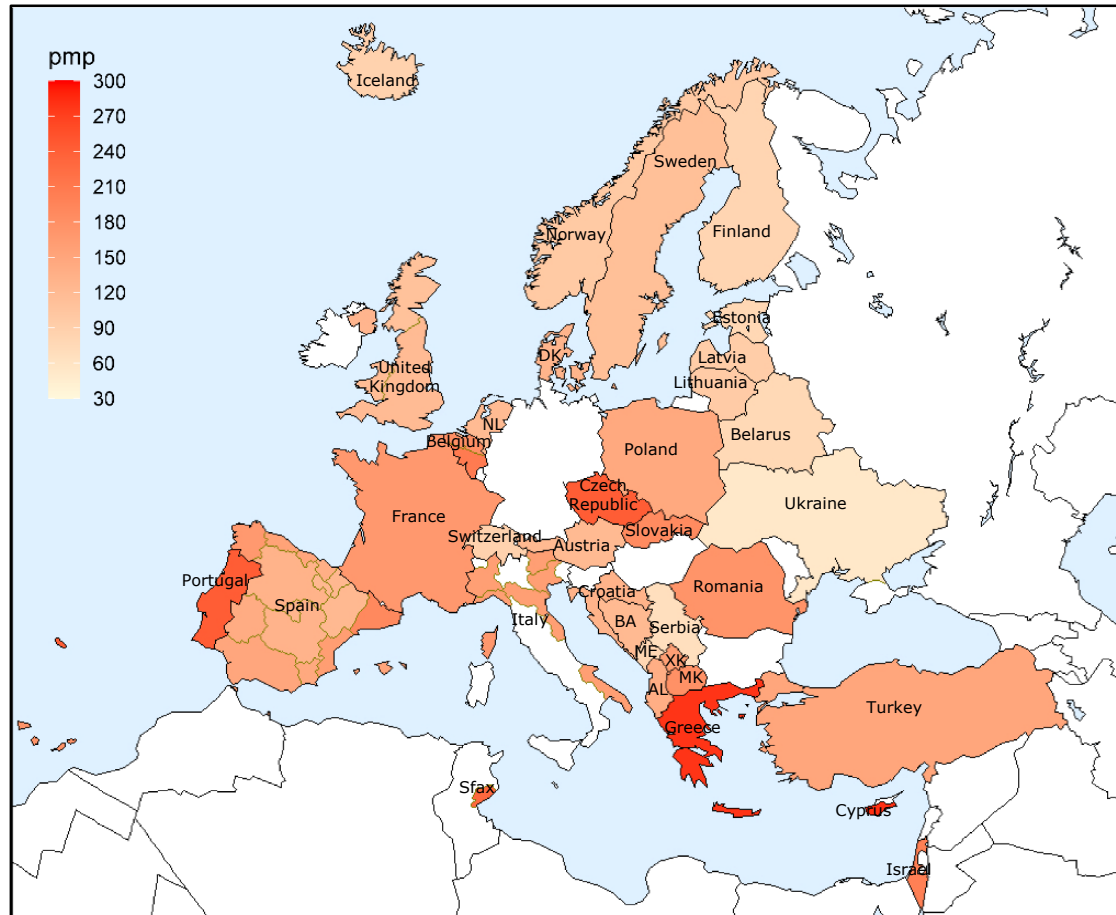
National and regional renal registries that contributed data to the 2021 ERA Registry Annual Report



-  Renal registries contributing with individual patient data
-  Renal registries contributing with aggregated data

Incident patients accepted for KRT in 2021, at day 1

by country



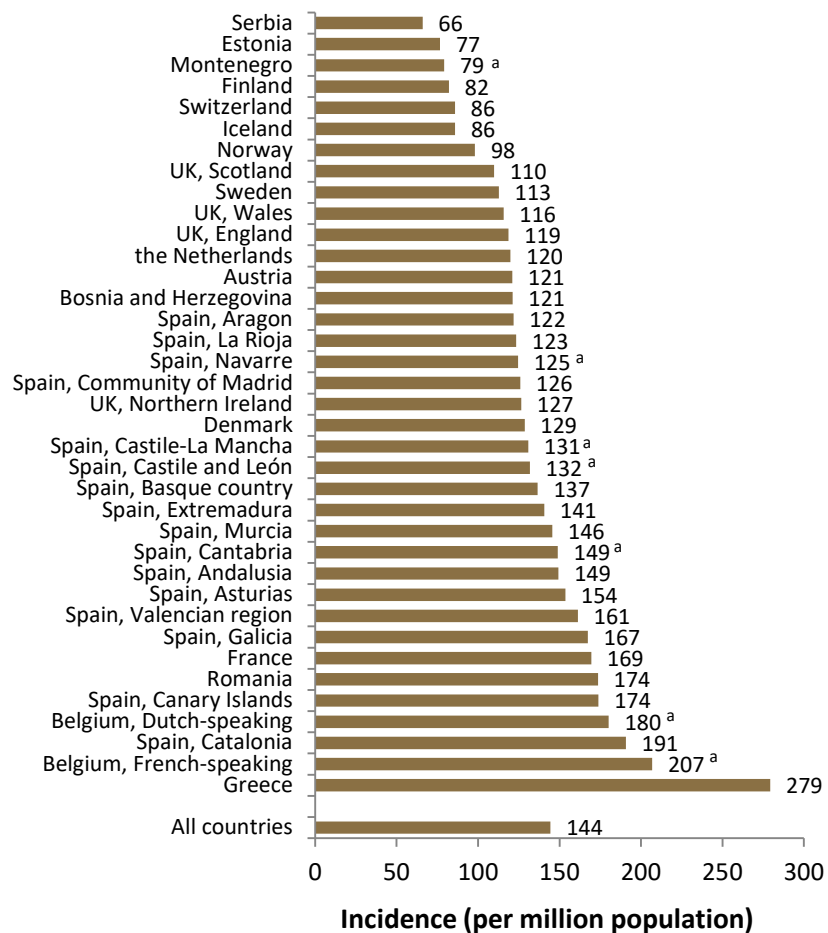


Incident patients accepted for KRT in 2021, at day 1

by country

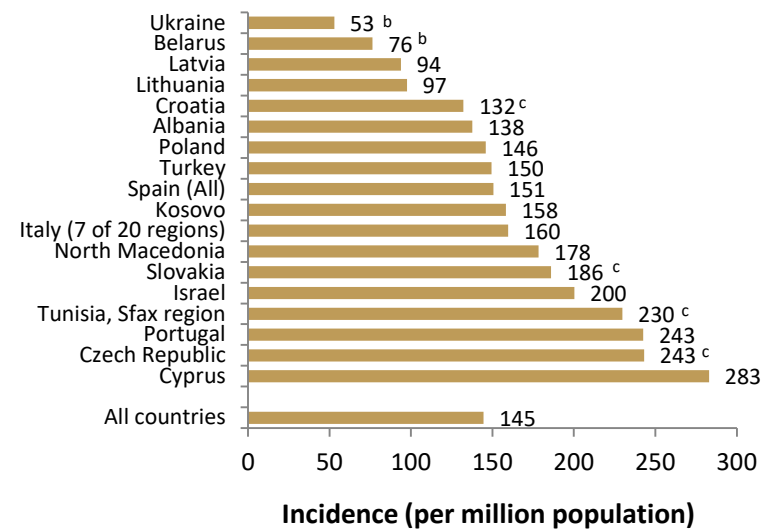
Unadjusted incidence

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

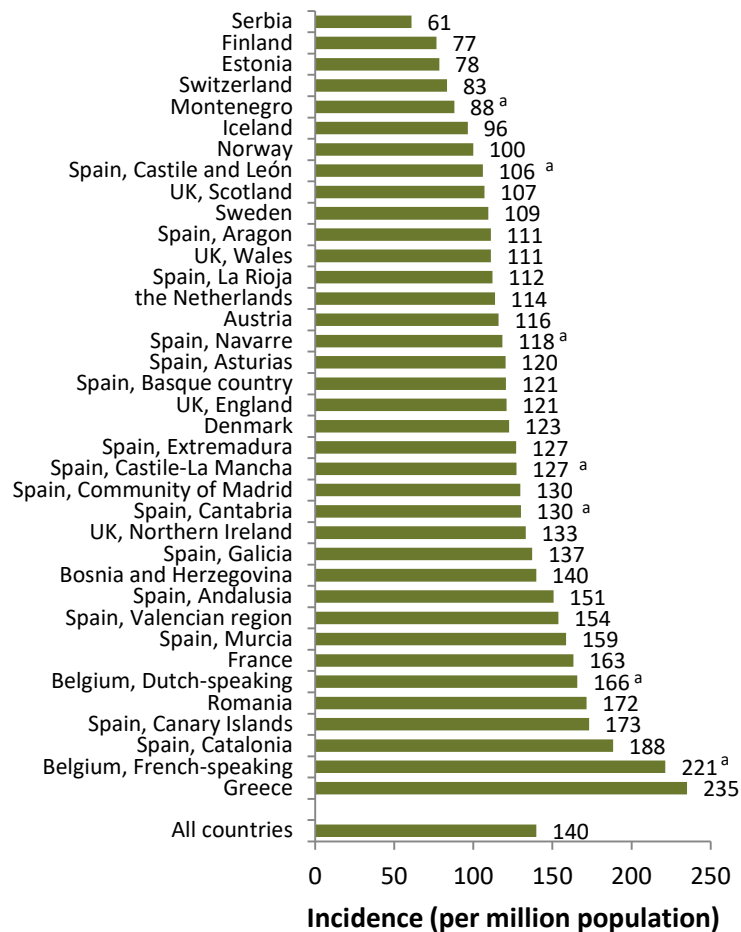


Incident patients accepted for KRT in 2021, at day 1

by country, adjusted for age and sex

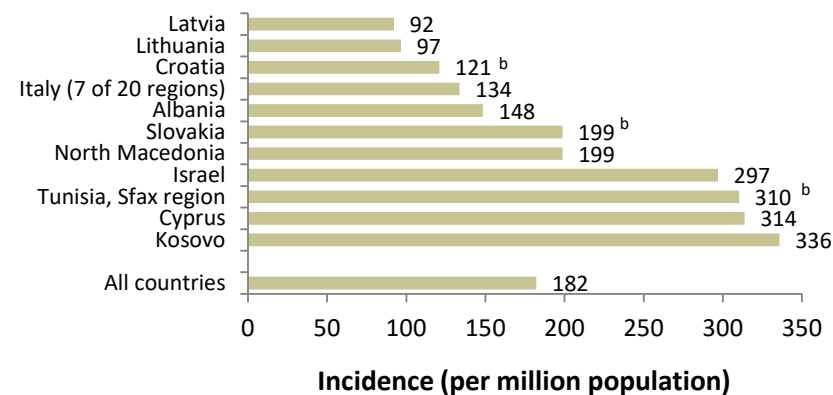
Adjusted incidence

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

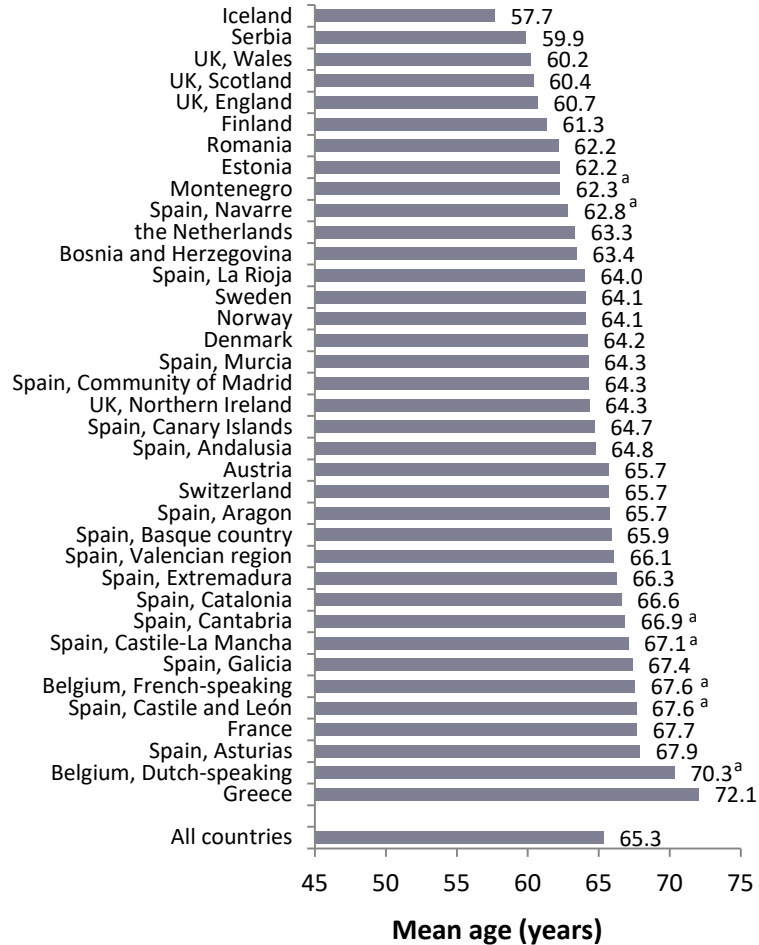


Incident patients accepted for KRT in 2021, at day 1

mean age

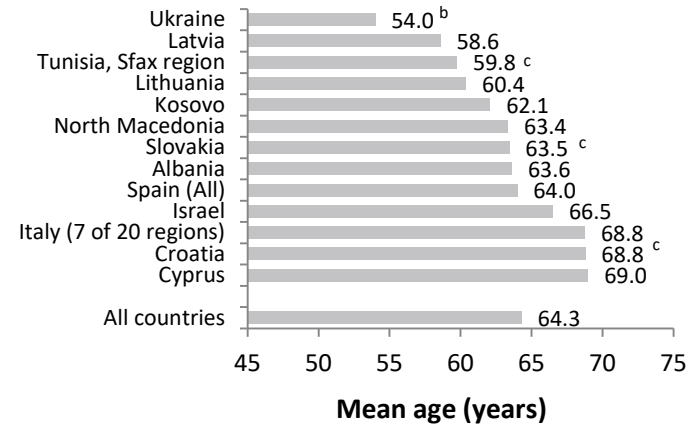
Mean age at start of KRT

renal registries providing individual patient data



Mean age at start of KRT

renal registries providing aggregated data



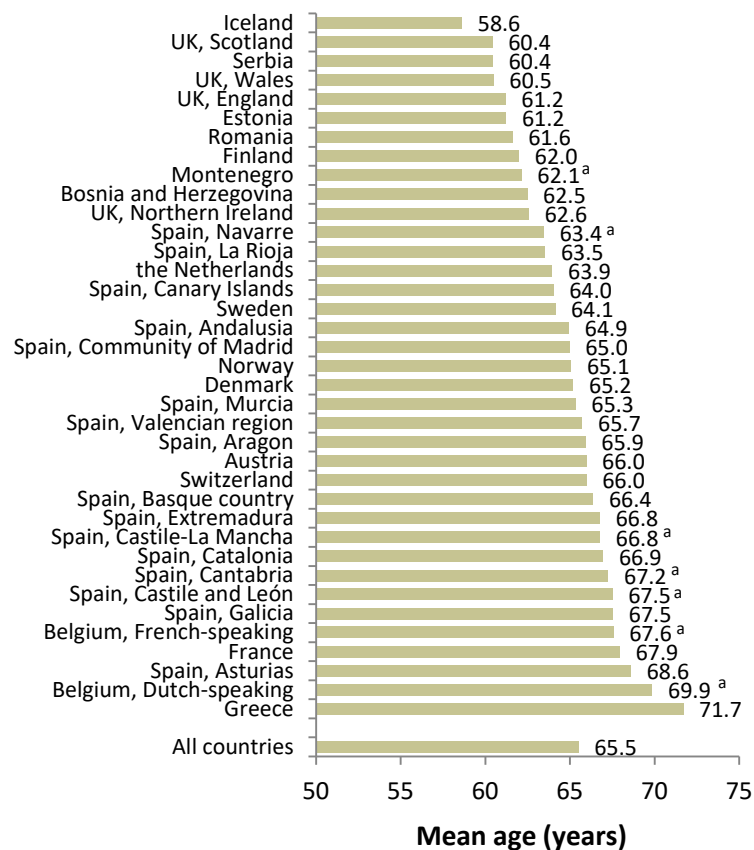
^a patients younger than 20 years of age are not included; ^b patients younger than 18 years of age are not included; ^c data includes patients receiving dialysis only



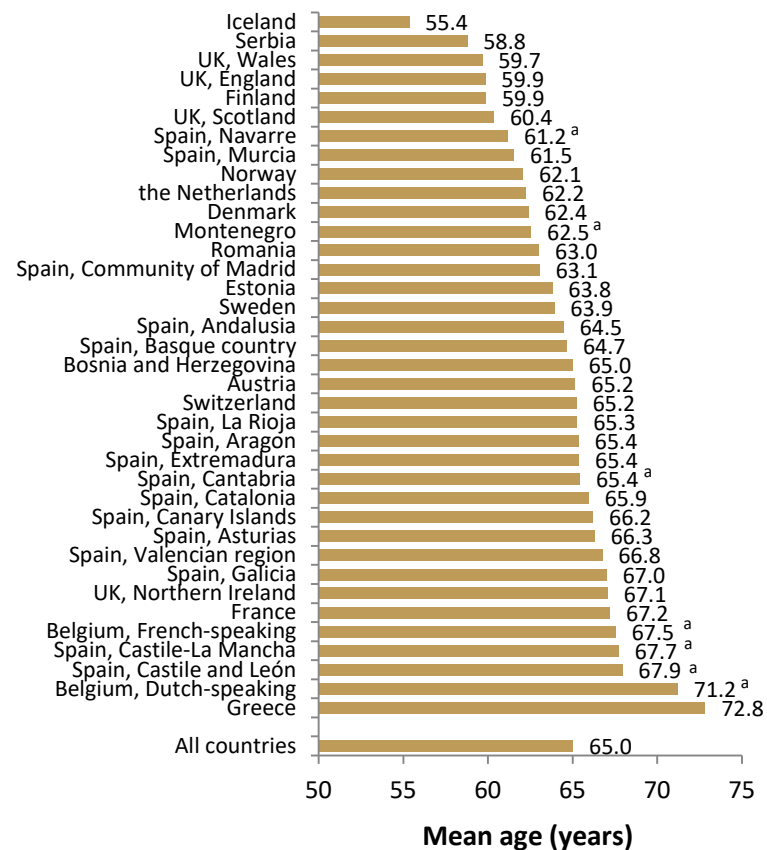
Incident patients accepted for KRT in 2021, at day 1

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

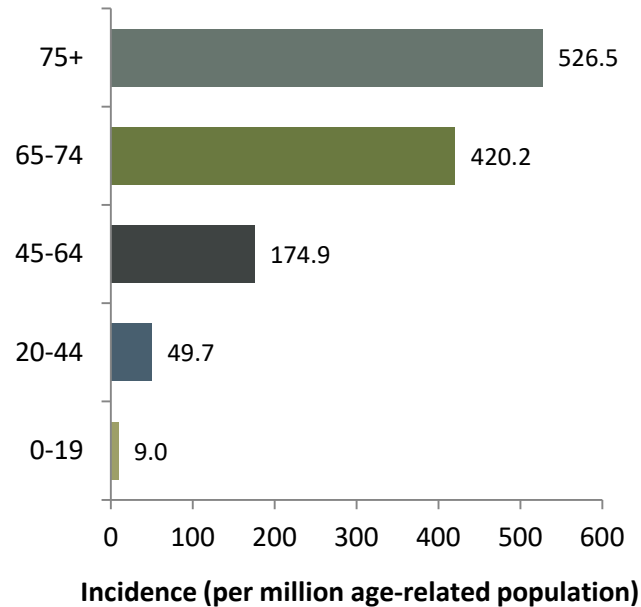


Incident patients accepted for KRT in 2021, at day 1

by age category

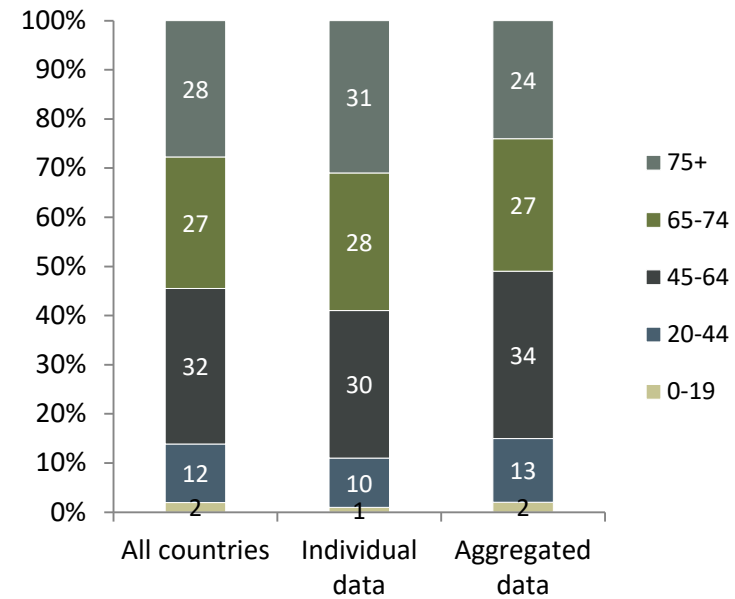
Incidence by age category

for all registries



Incidence by age category

by type of data provided by registry



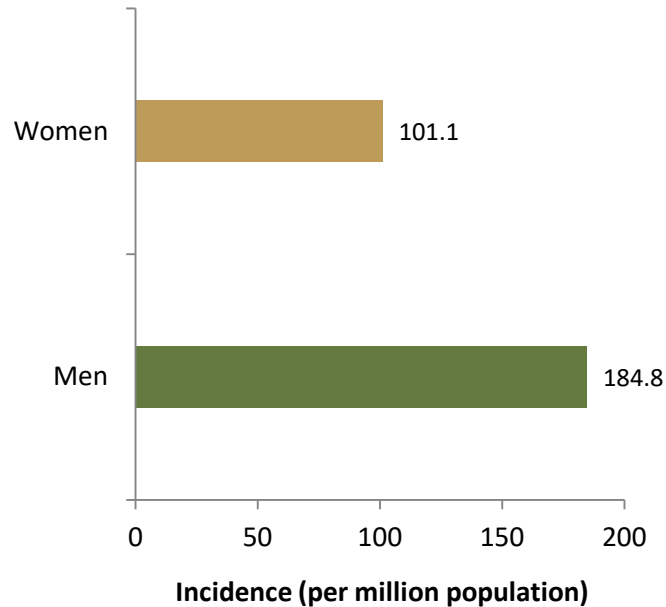


Incident patients accepted for KRT in 2021, at day 1

by sex

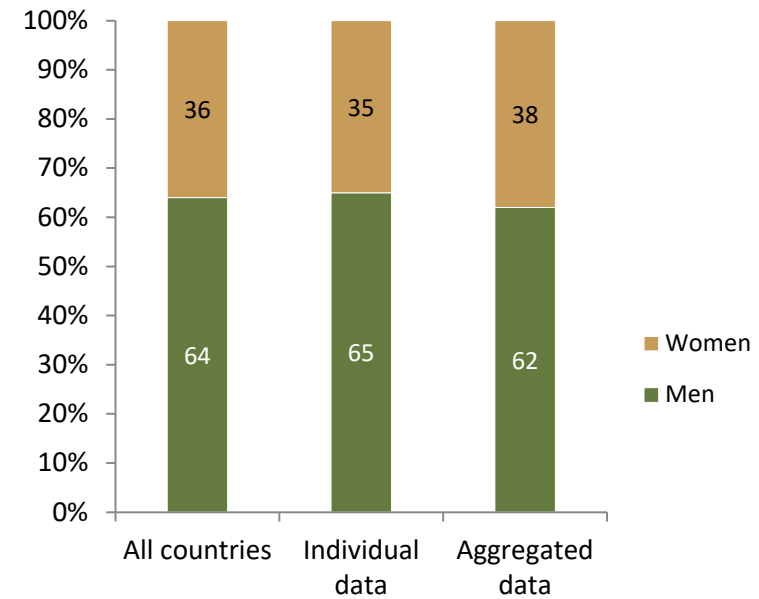
Incidence by sex

for all registries



Incidence by sex

by type of data provided by registry

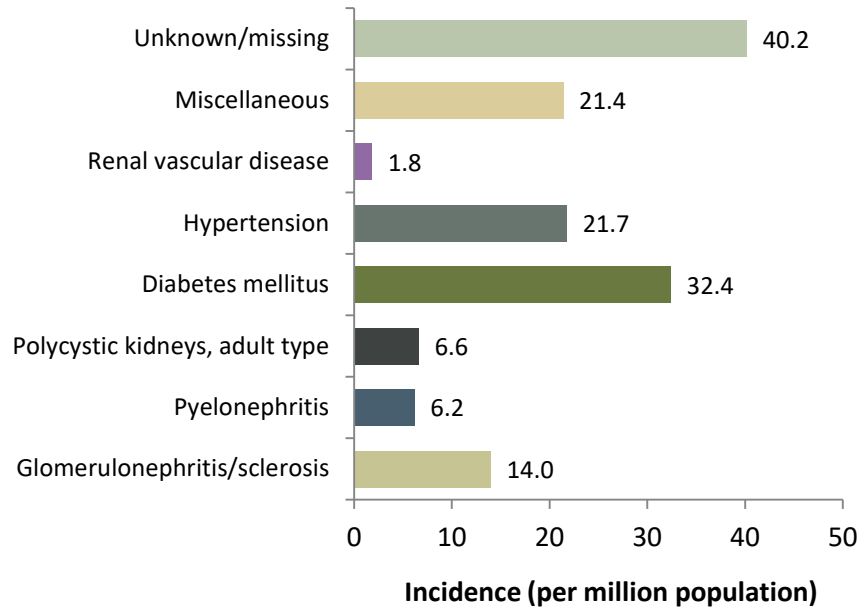




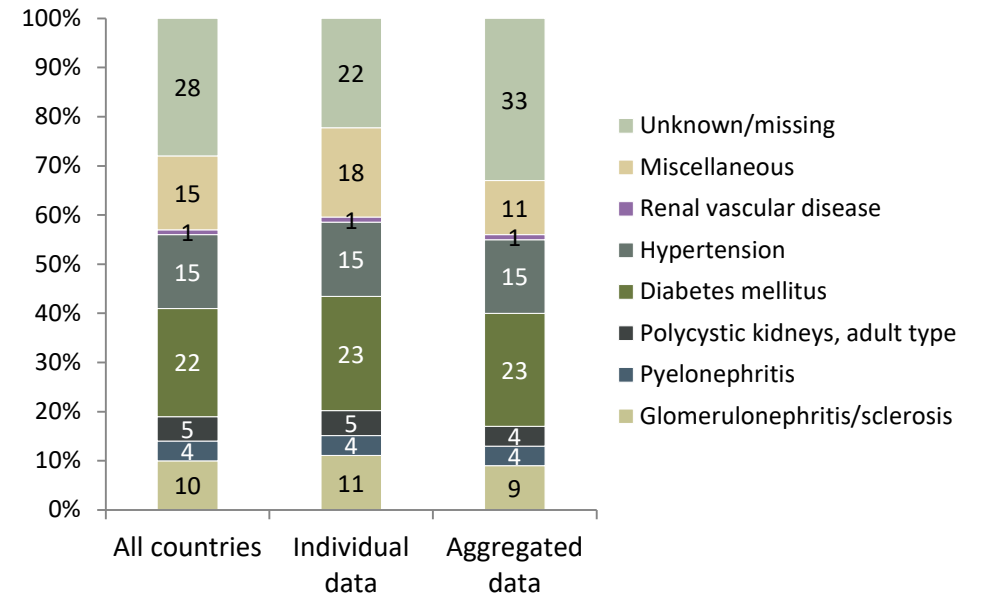
Incident patients accepted for KRT in 2021, at day 1

by primary renal disease

Incidence by primary renal disease
for all registries



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



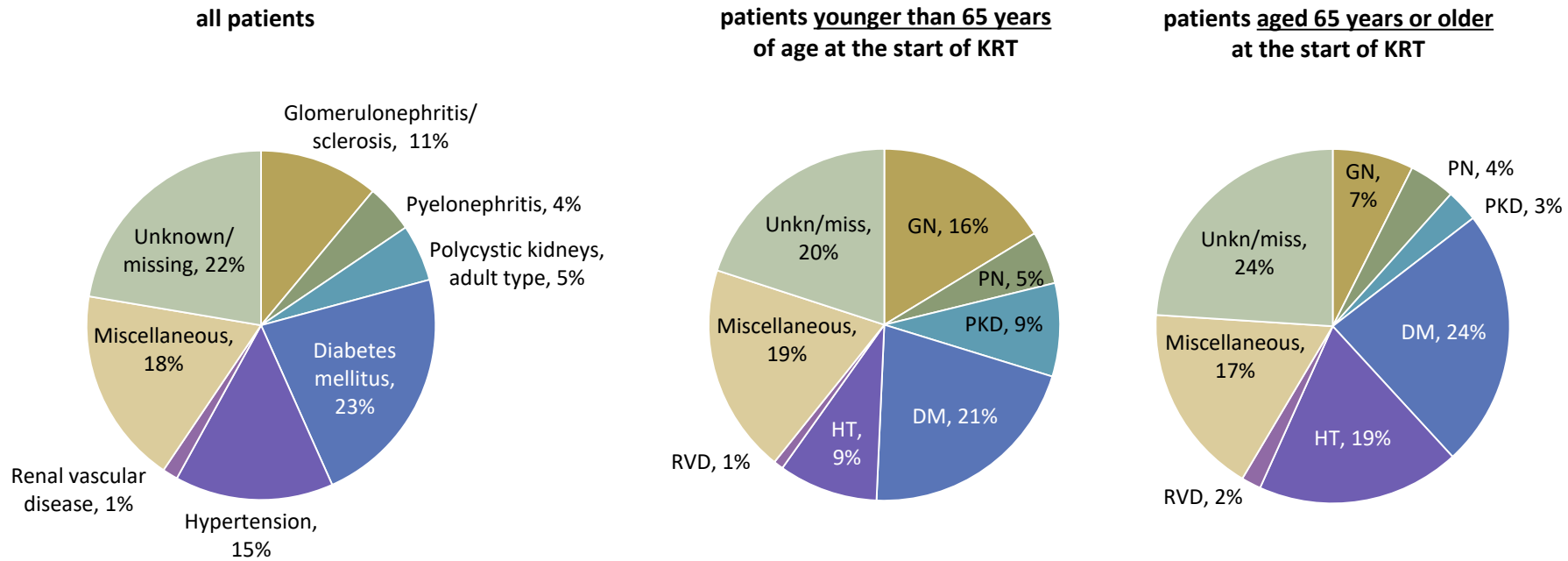


Incident patients accepted for KRT in 2021, at day 1

by primary renal disease and age category

Incidence by primary renal disease

patients from registries providing individual patient data only

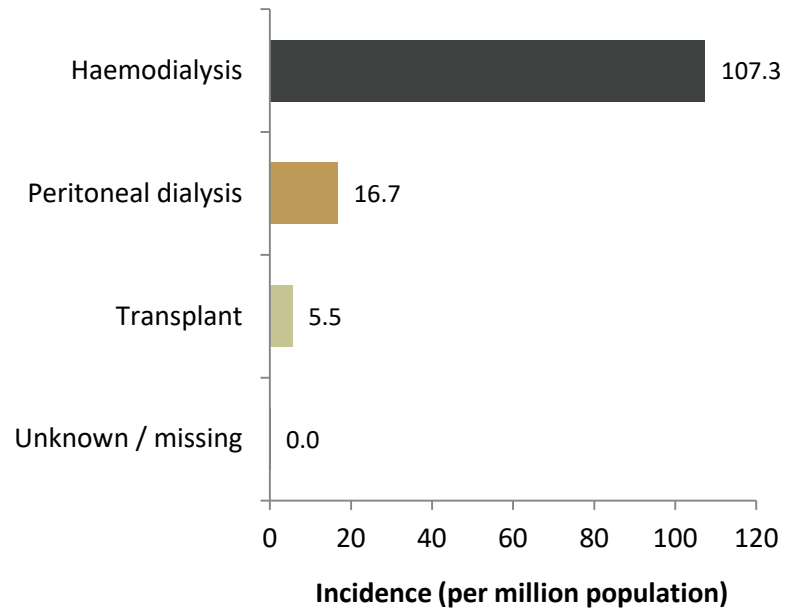




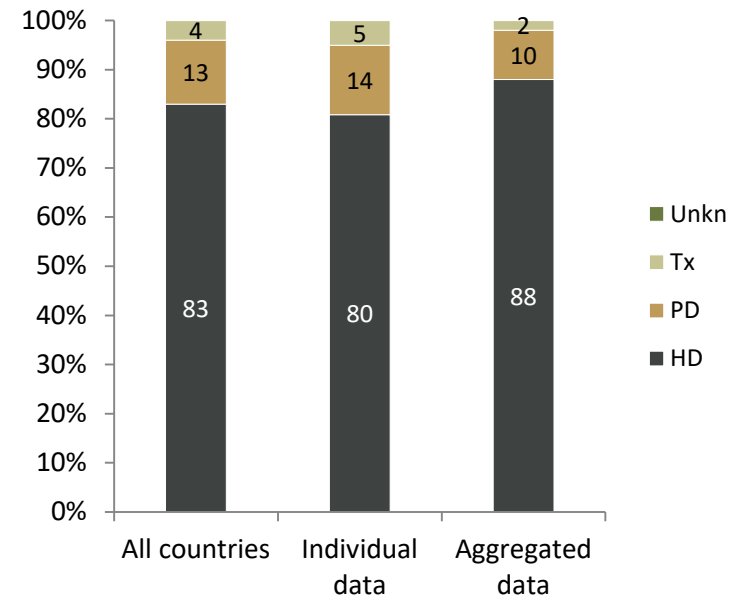
Incident patients accepted for KRT in 2021, at day 91

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



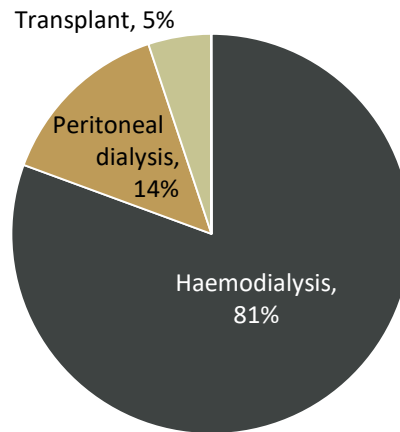
Incident patients accepted for KRT in 2021, at day 91

by established modality and age category

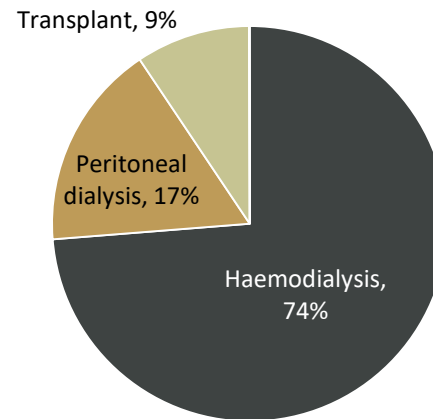
Incidence at day 91 by established modality

patients from registries providing individual patient data only

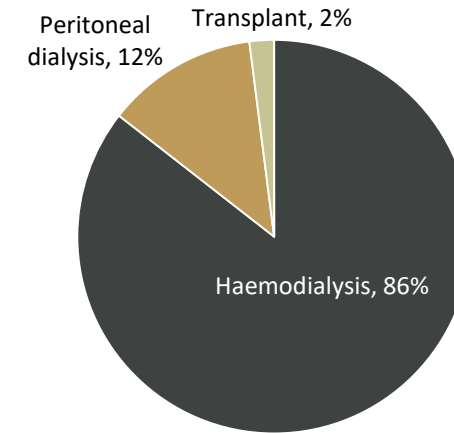
all patients



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



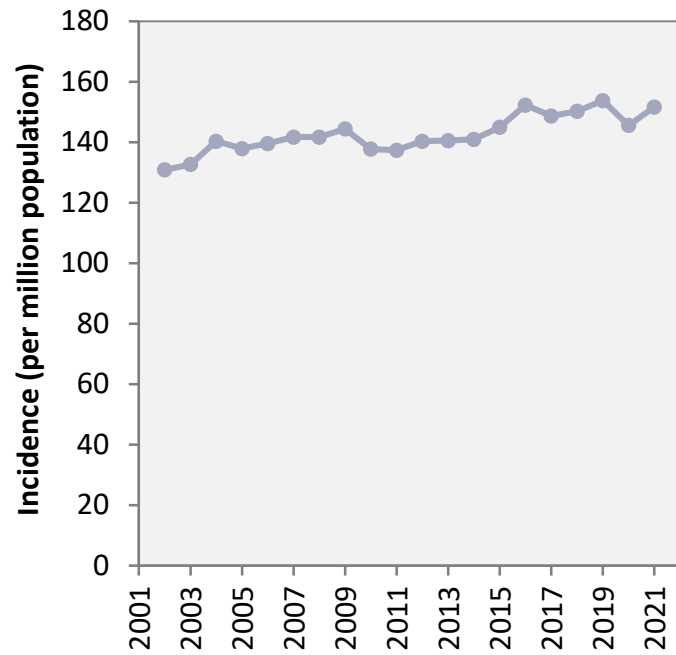
patients aged 65 years or older
at the start of KRT



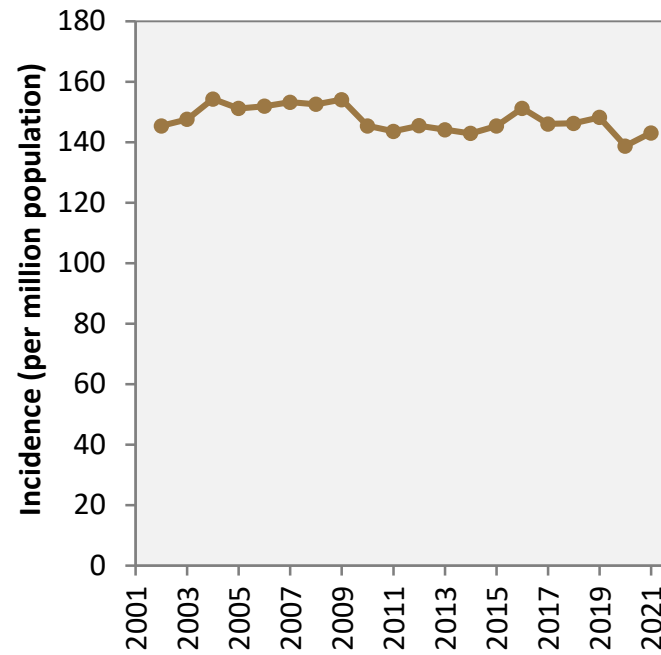
Incident patients accepted for KRT, at day 1

last 20 years (2002-2021)

Unadjusted incidence over time
all patients starting KRT



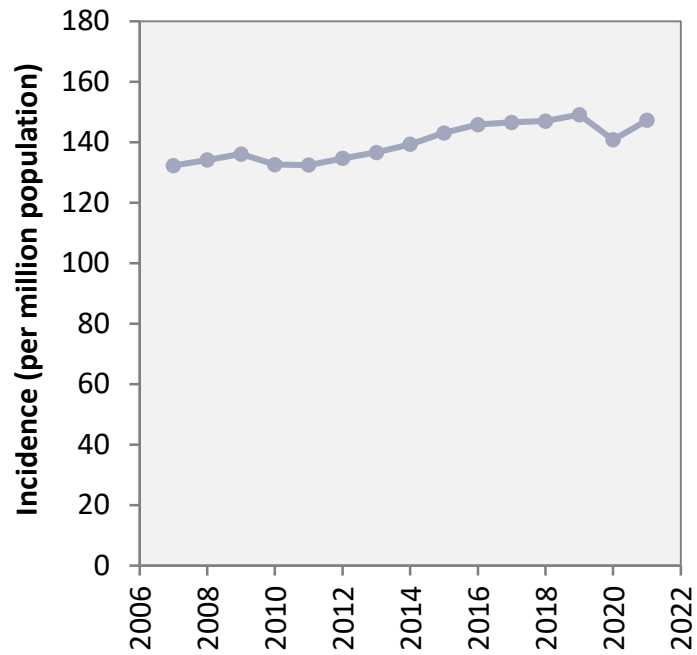
Adjusted incidence over time
all patients starting KRT



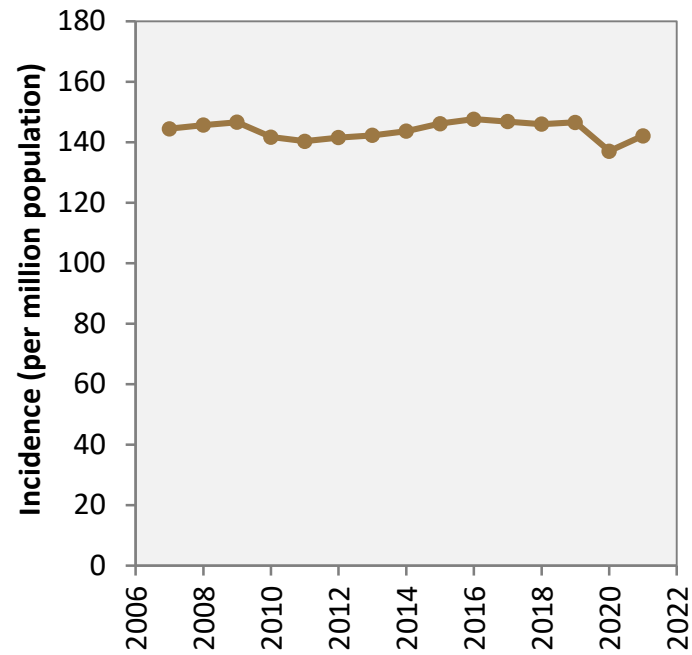
Incident patients accepted for KRT, at day 1

last 15 years (2007-2021)

Unadjusted incidence over time
all patients starting KRT



Adjusted incidence over time
all patients starting KRT

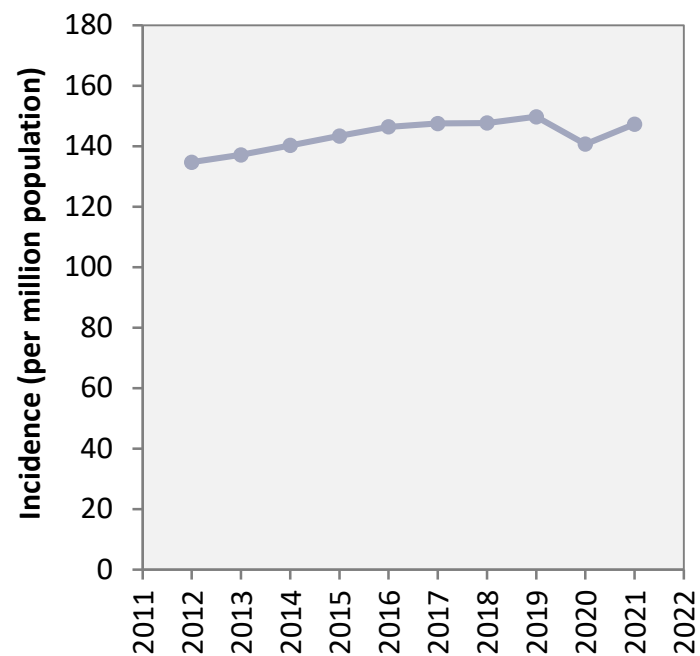


Incident patients accepted for KRT, at day 1

last 10 years (2012-2021)

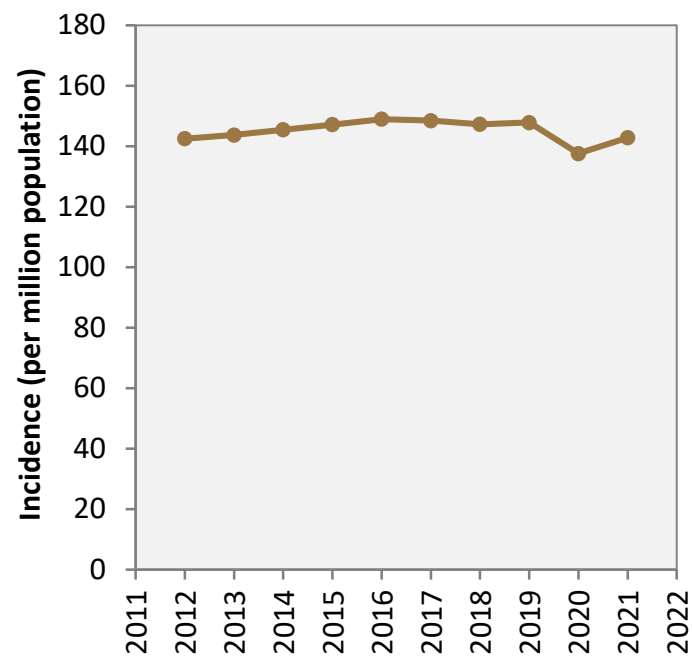
Unadjusted incidence over time

all patients starting KRT



Adjusted incidence over time

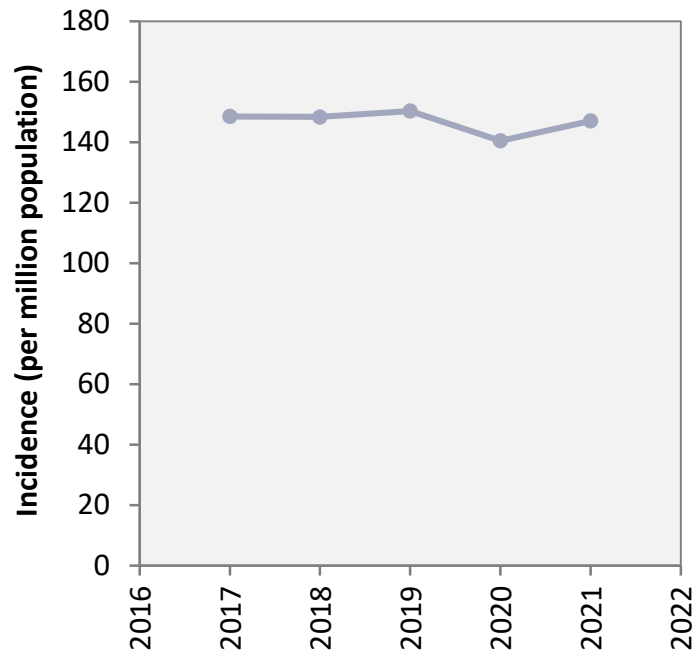
all patients starting KRT



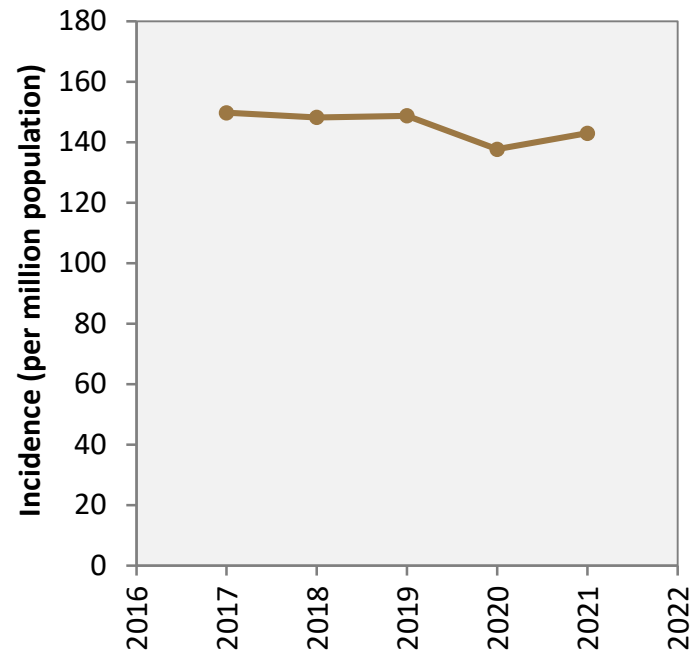
Incident patients accepted for KRT, at day 1

last 5 years (2017-2021)

Unadjusted incidence over time
all patients starting KRT

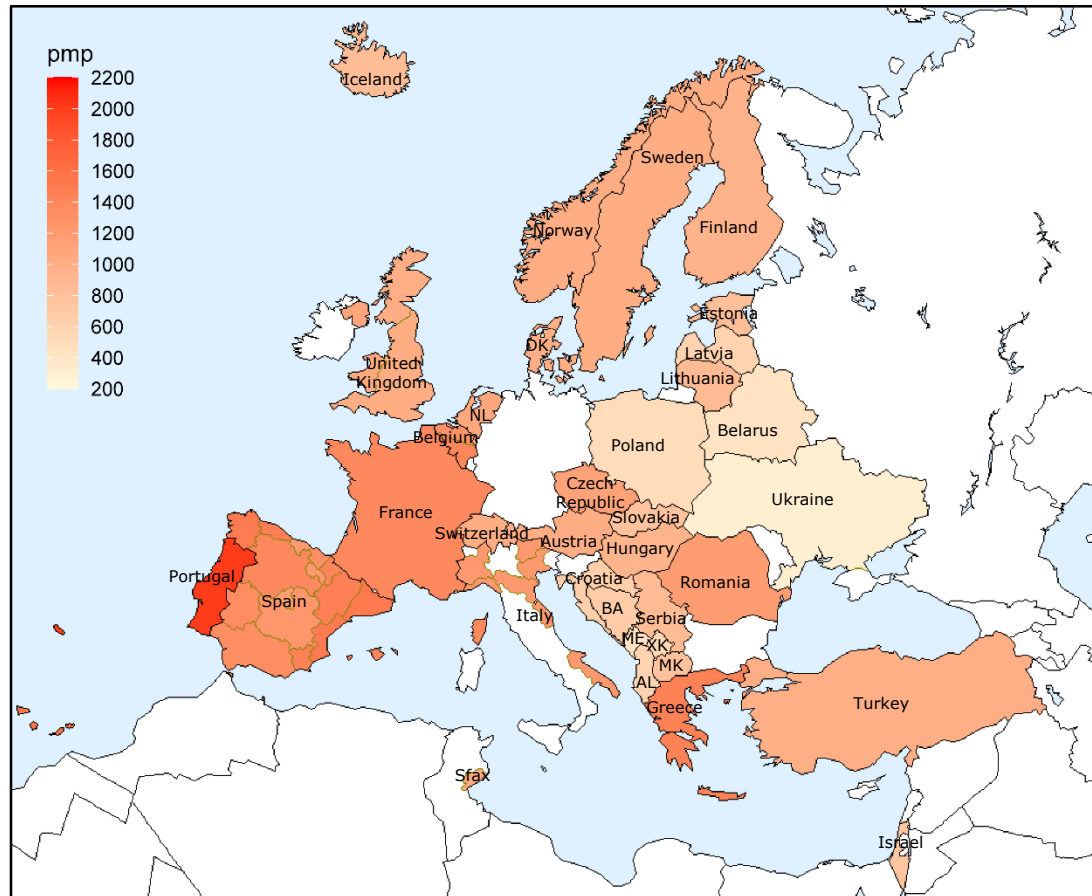


Adjusted incidence over time
all patients starting KRT



Prevalent patients on KRT in 2021

by country

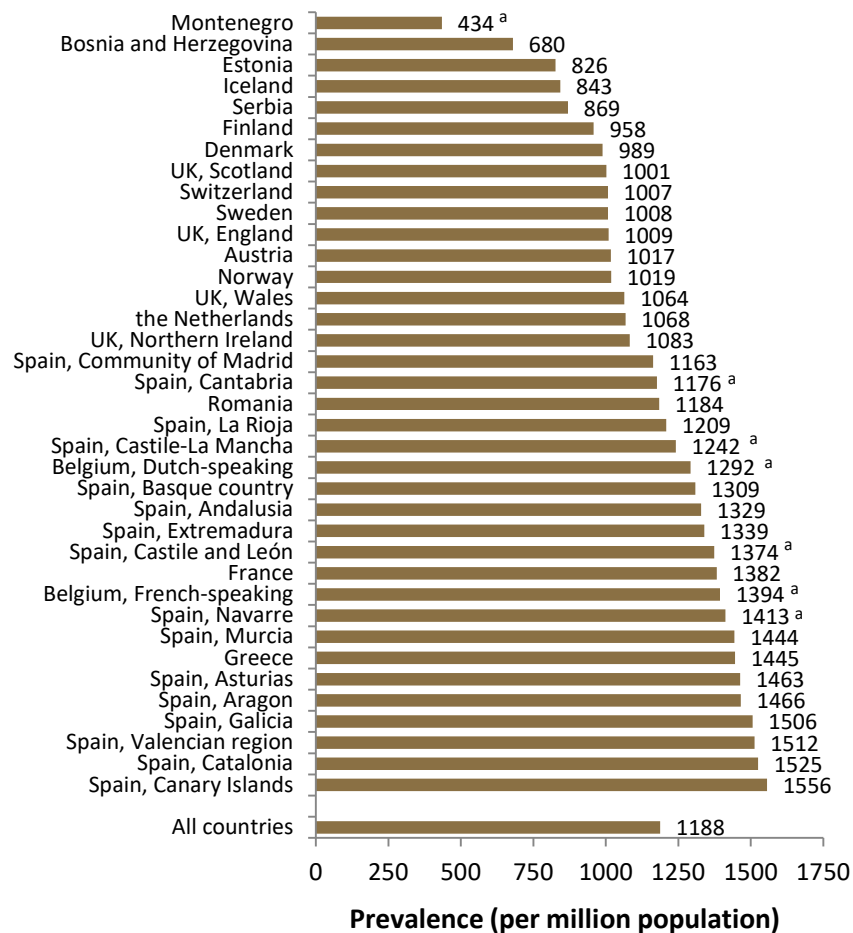


Prevalent patients on KRT in 2021

by country

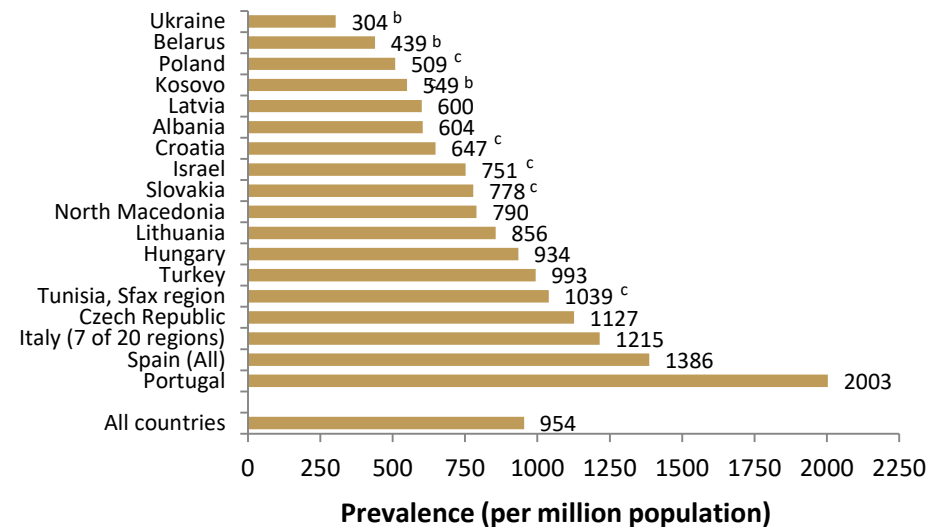
Unadjusted prevalence

renal registries providing individual patient data



Unadjusted prevalence

renal registries providing aggregated data



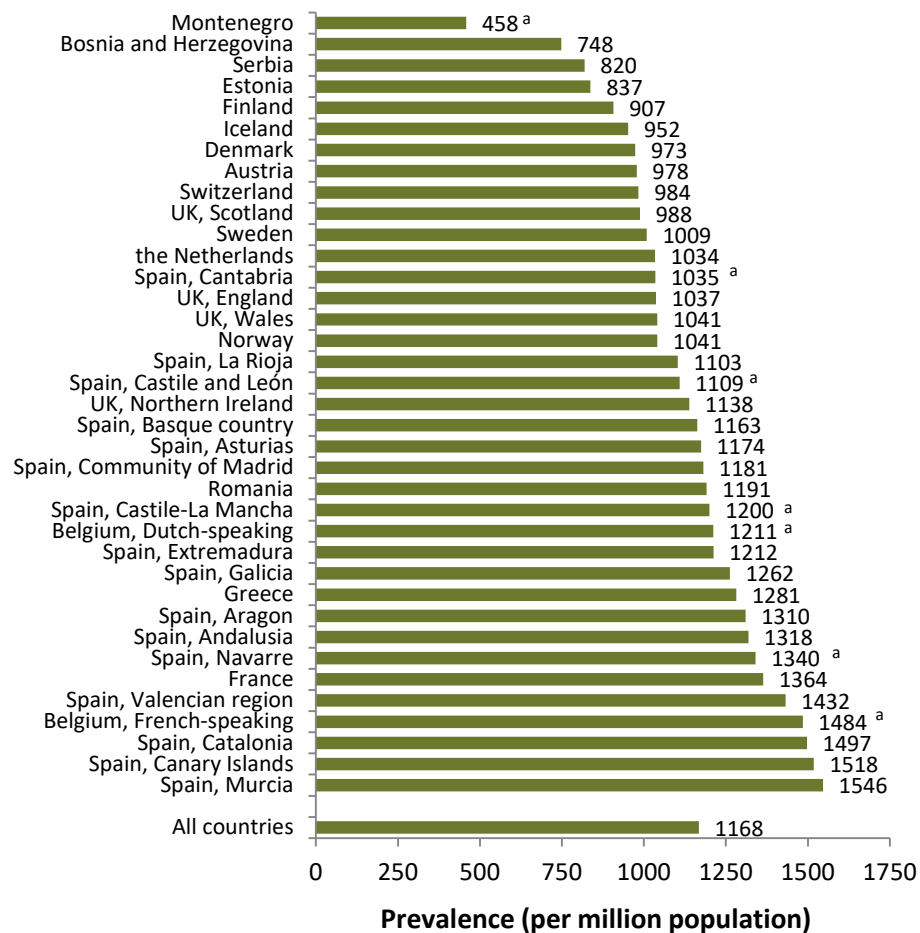
^a patients younger than 20 years of age are not included; ^b patients younger than 18 years of age are not included; ^c data includes patients receiving dialysis only

Prevalent patients on KRT in 2021

by country, adjusted for age and sex

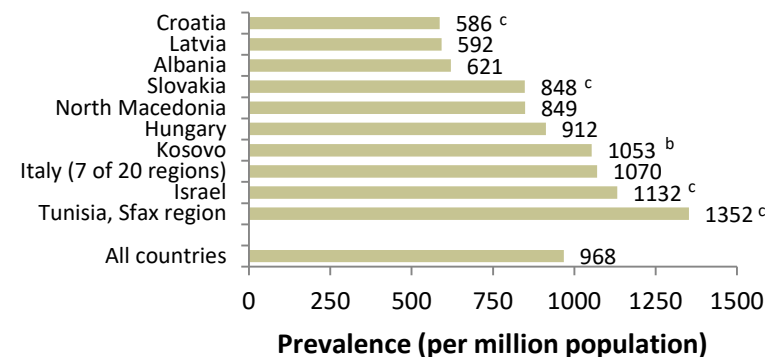
Adjusted prevalence

renal registries providing individual patient data



Adjusted prevalence

renal registries providing aggregated data



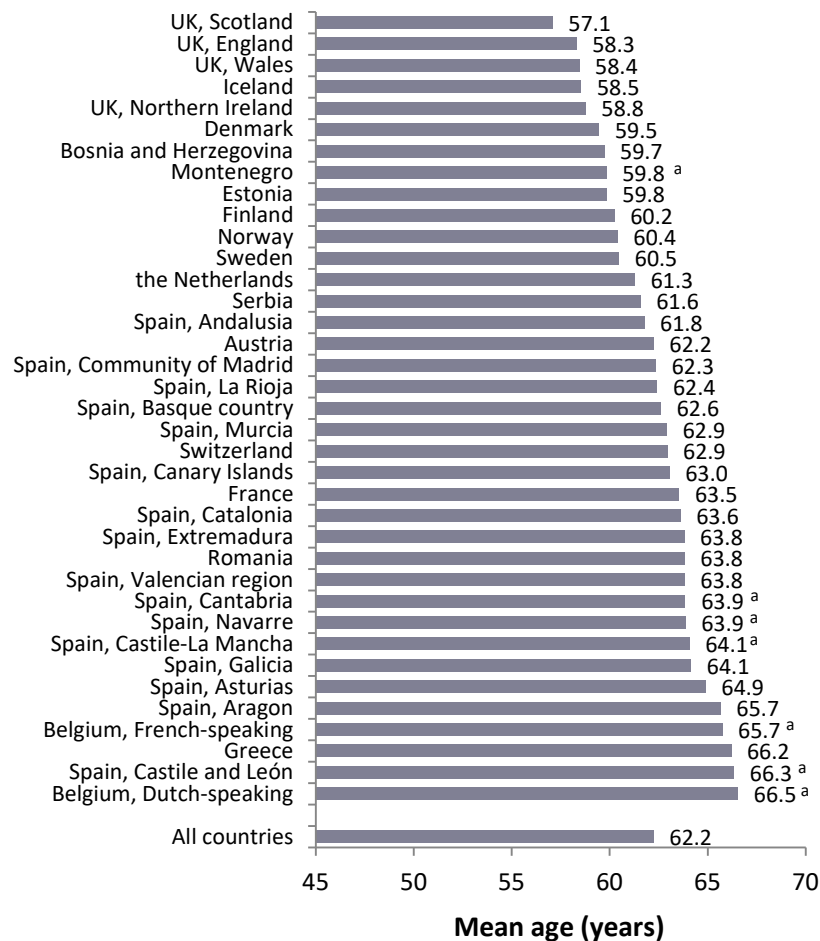
^a patients younger than 20 years of age are not included; ^b patients younger than 18 years of age are not included; ^c data includes patients receiving dialysis only



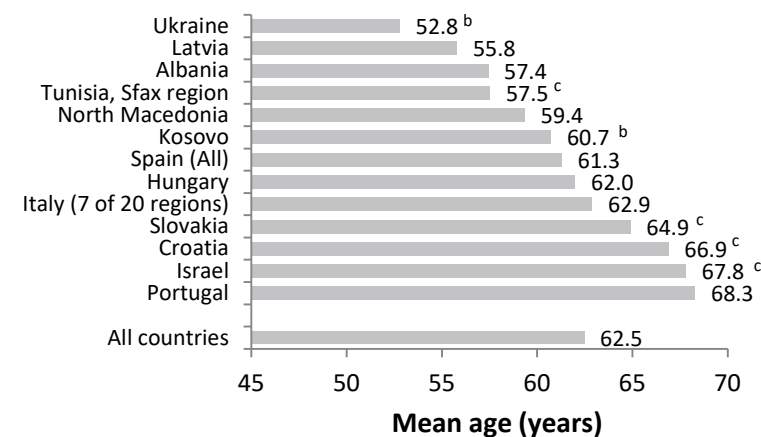
Prevalent patients on KRT in 2021

mean age

Mean age on 31 December 2021
renal registries providing individual patient data



Mean age on 31 December 2021
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

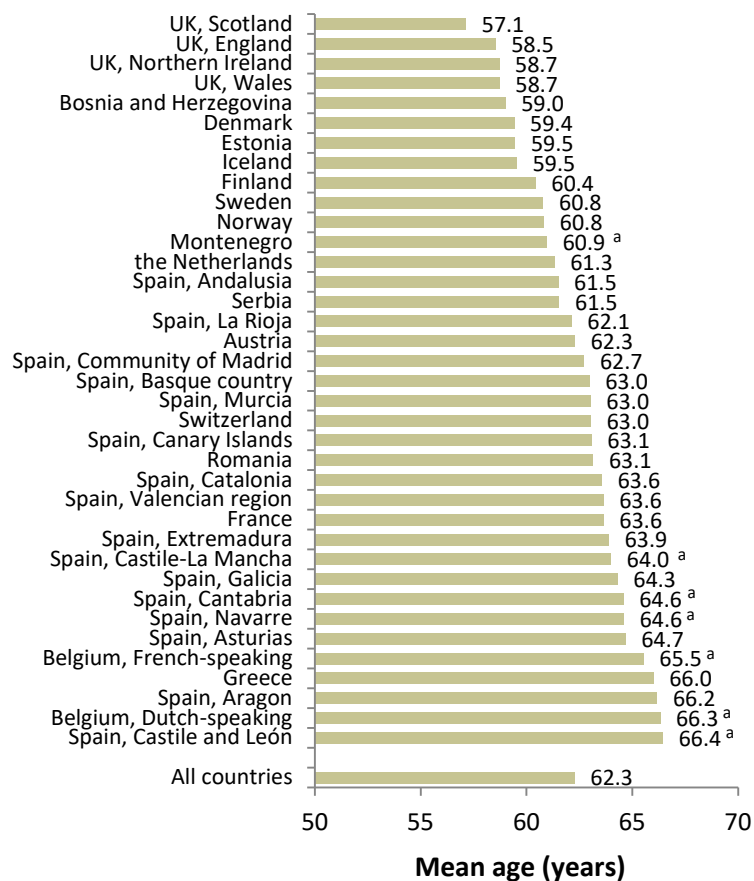


Prevalent patients on KRT in 2021

for registries providing individual patient data only

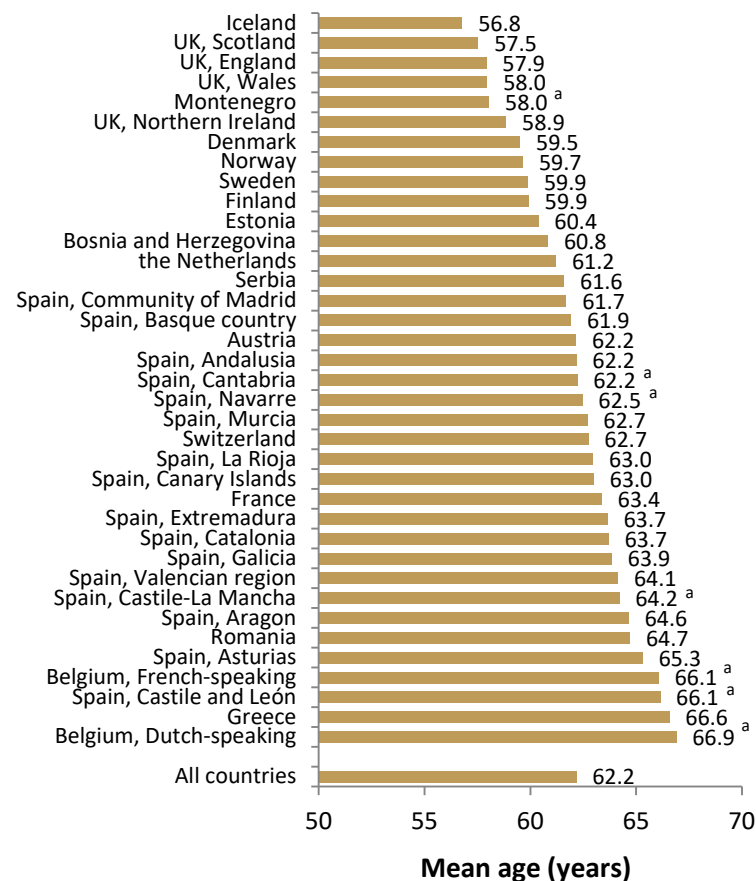
Mean age on 31 December 2021

male patients



Mean age on 31 December 2021

female patients

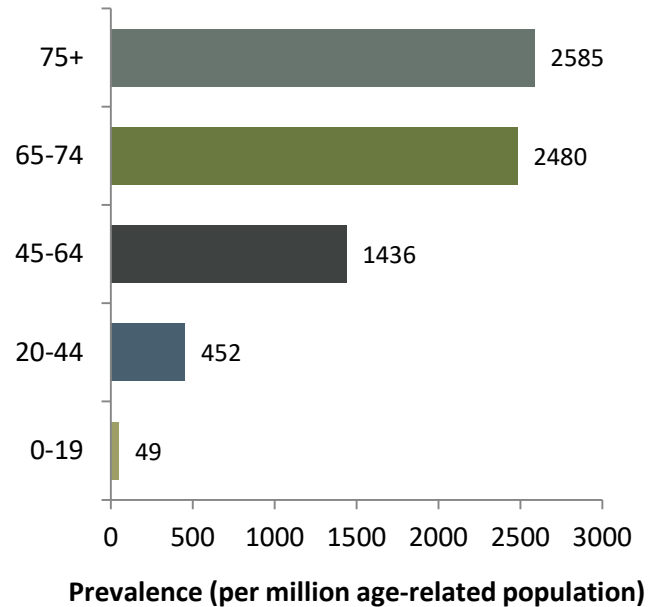


^a patients younger than 20 years of age are not included;

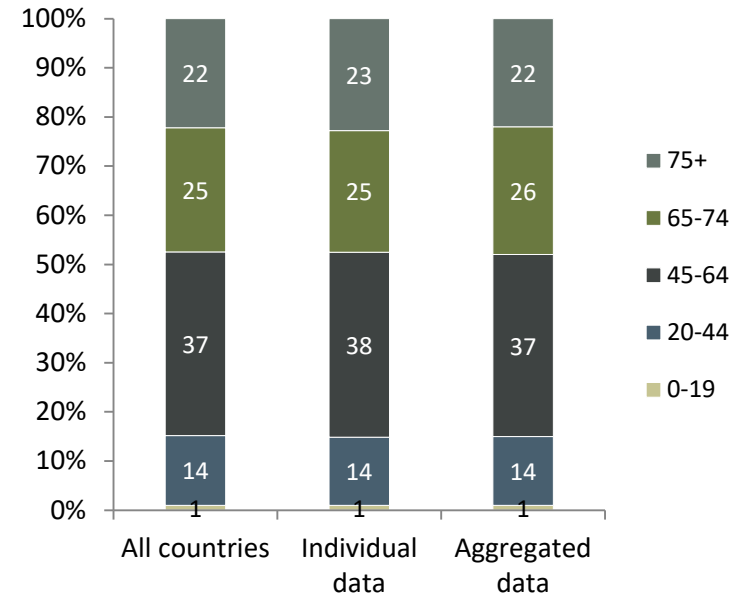
Prevalent patients on KRT in 2021

by age category

Prevalence by age category
for all registries



Prevalence by age category
by type of data provided by registry

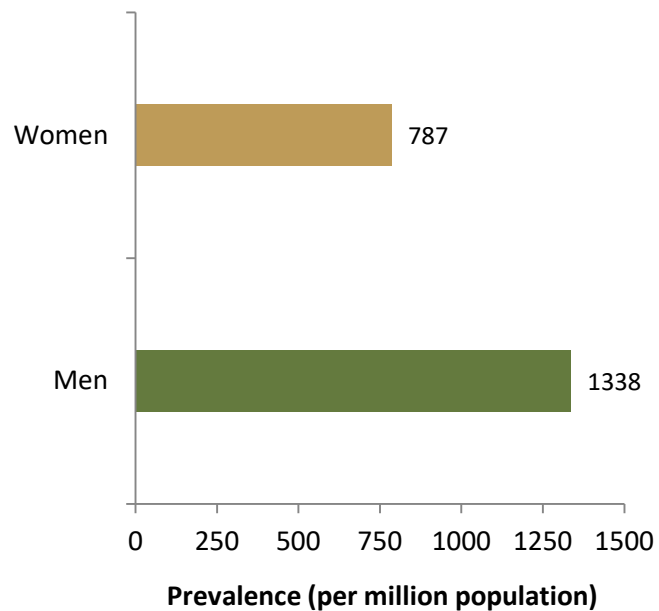




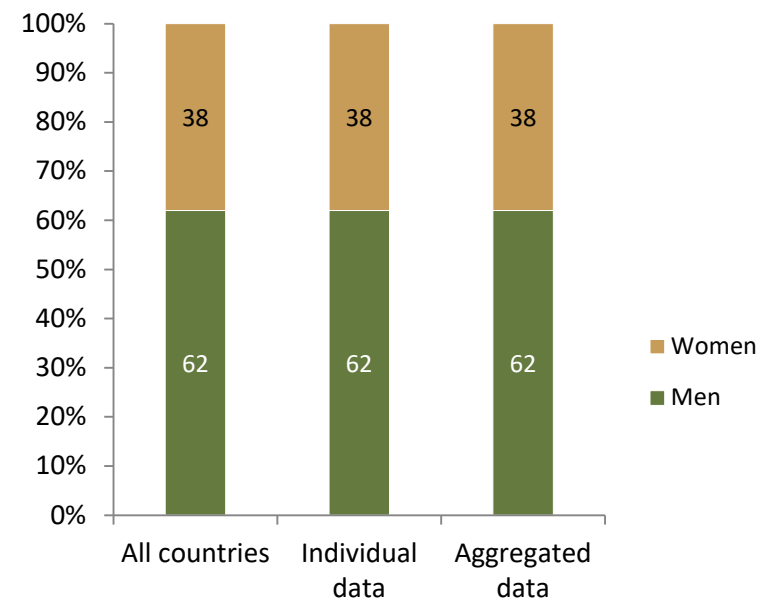
Prevalent patients on KRT in 2021

by sex

Prevalence by sex
for all registries



Prevalence by sex
by type of data provided by registry

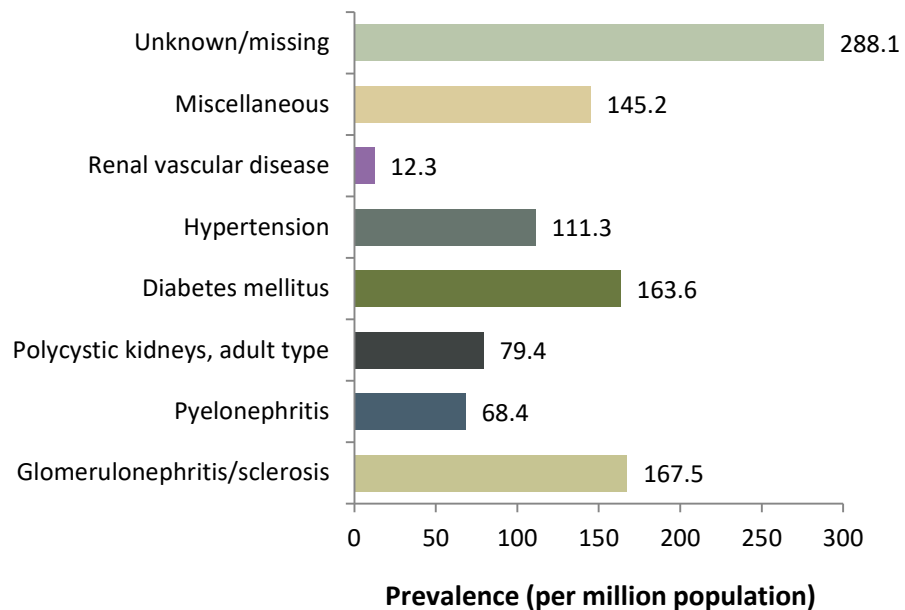




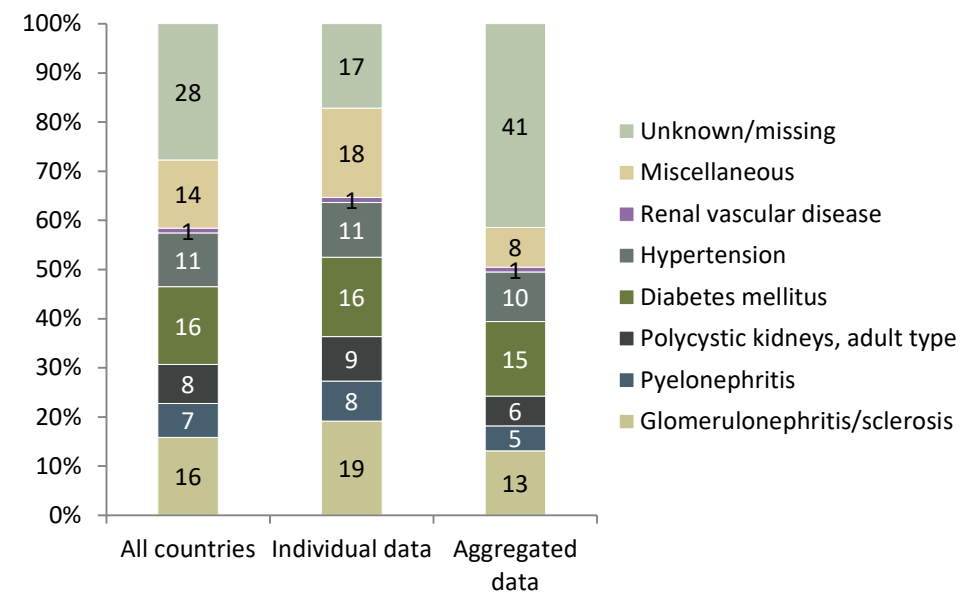
Prevalent patients on KRT in 2021

by primary renal disease

Prevalence by primary renal disease
for all registries



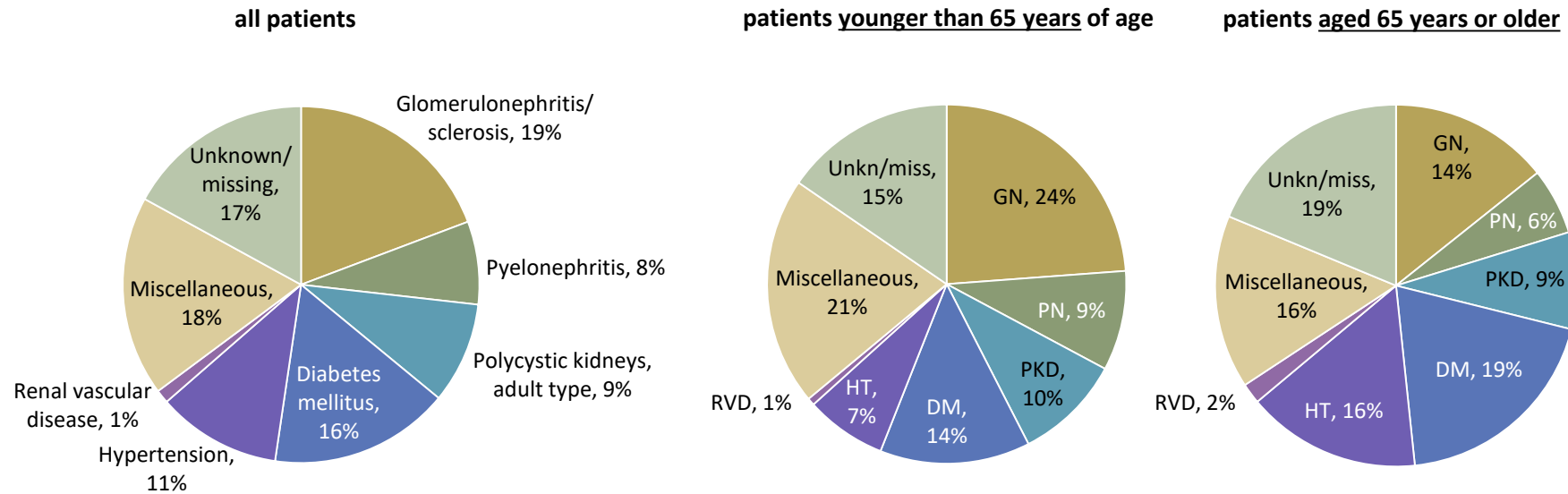
Prevalence by primary renal disease
by type of data provided by registry



Prevalent patients on KRT in 2021

by primary renal disease and age category

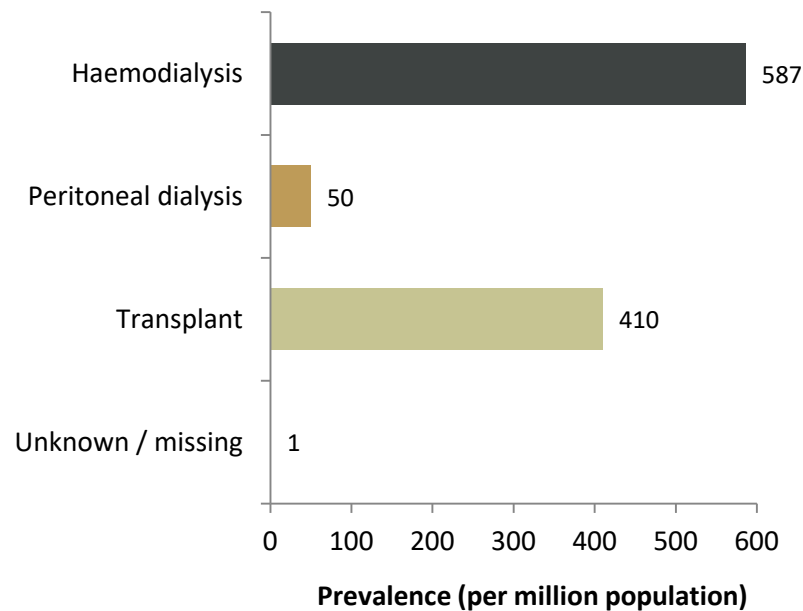
Prevalence by primary renal disease *patients from registries providing individual patient data only*



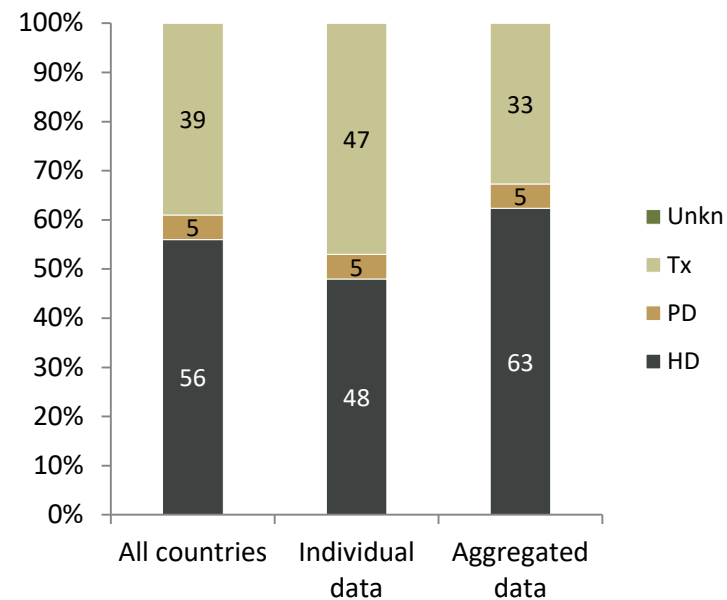
Prevalent patients on KRT in 2021

by modality

Prevalence by modality
for all registries



Prevalence by modality
by type of data provided by registry



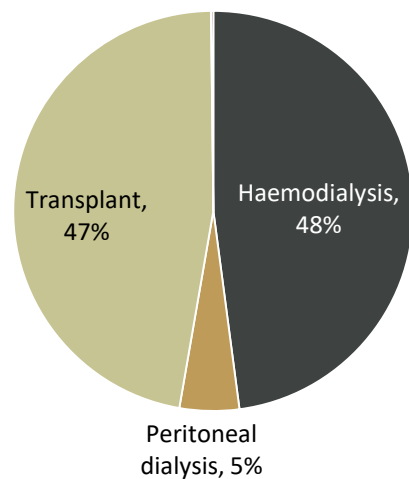
Prevalent patients on KRT in 2021

by modality and age category

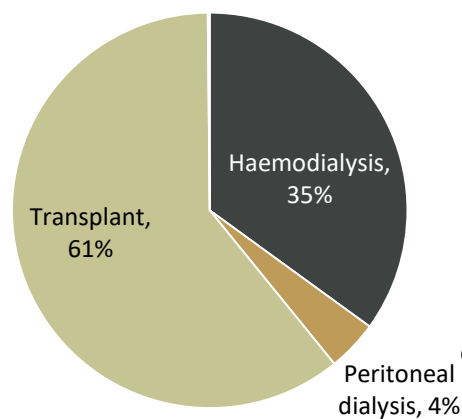
Prevalence by modality

patients from registries providing individual patient data only

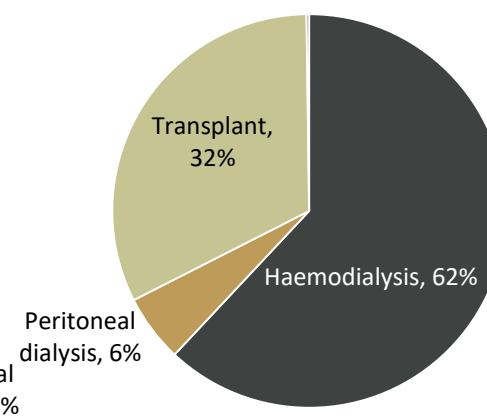
all patients



patients younger than 65 years of age



patients aged 65 years or older

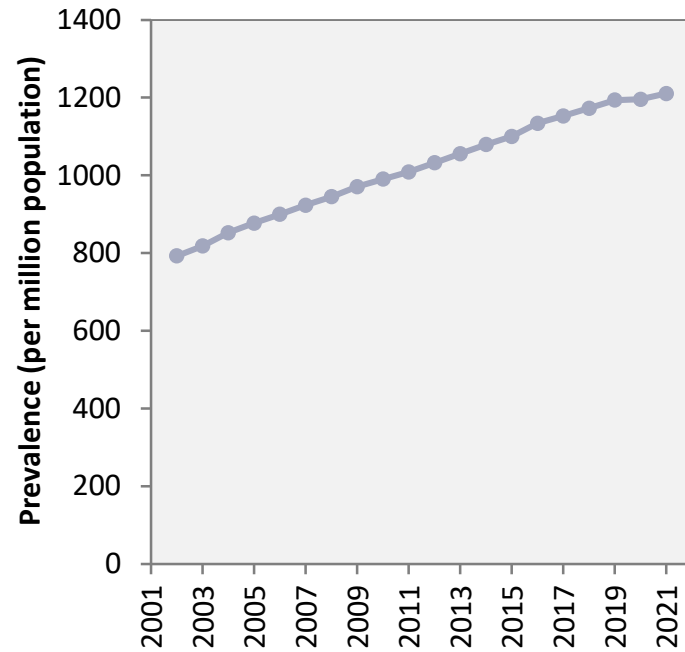


Prevalent patients on KRT

last 20 years (2002-2021)

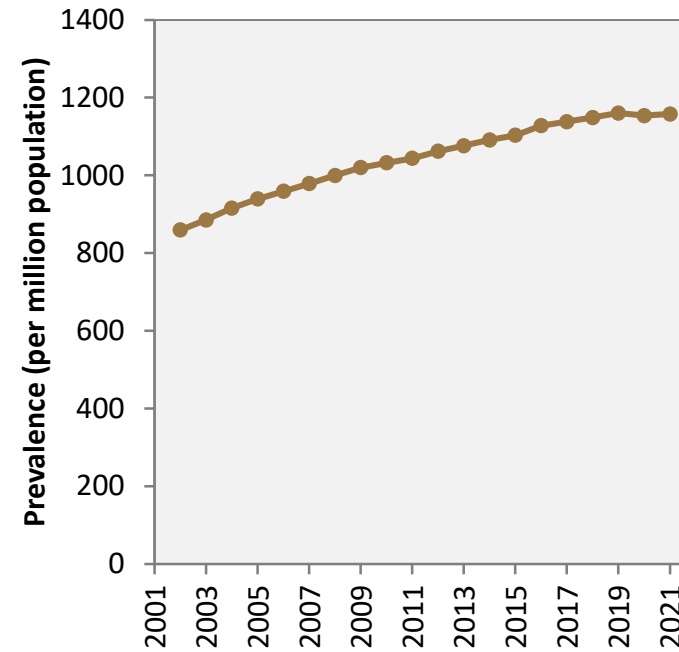
Unadjusted prevalence over time

all patients on KRT



Adjusted prevalence over time

all patients on KRT

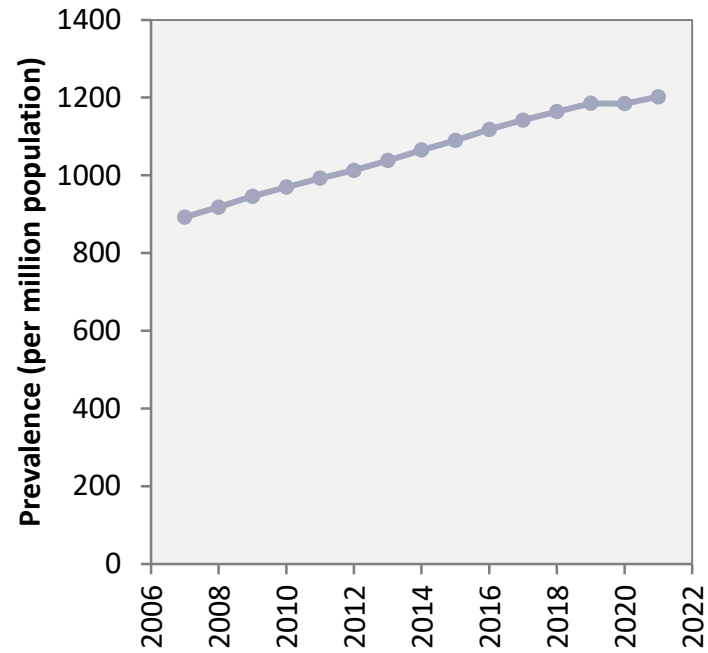


Prevalent patients on KRT

last 15 years (2007-2021)

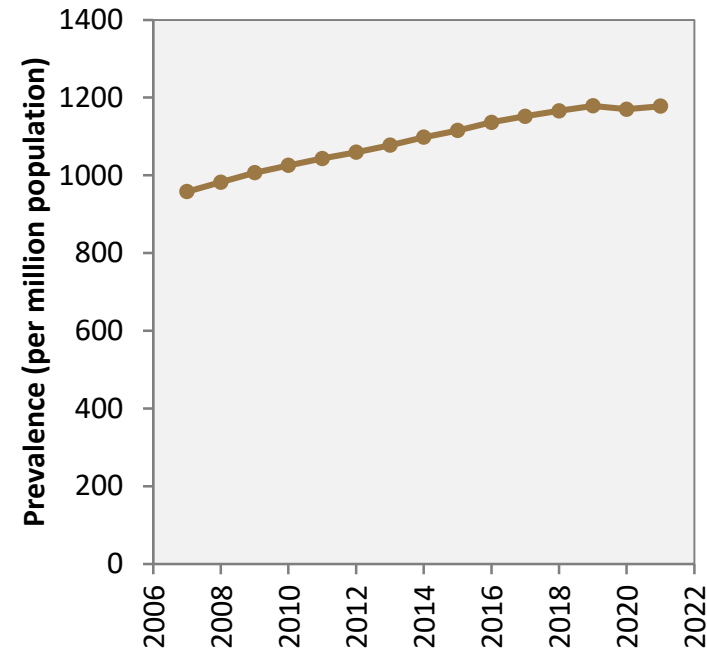
Unadjusted prevalence over time

all patients on KRT



Adjusted prevalence over time

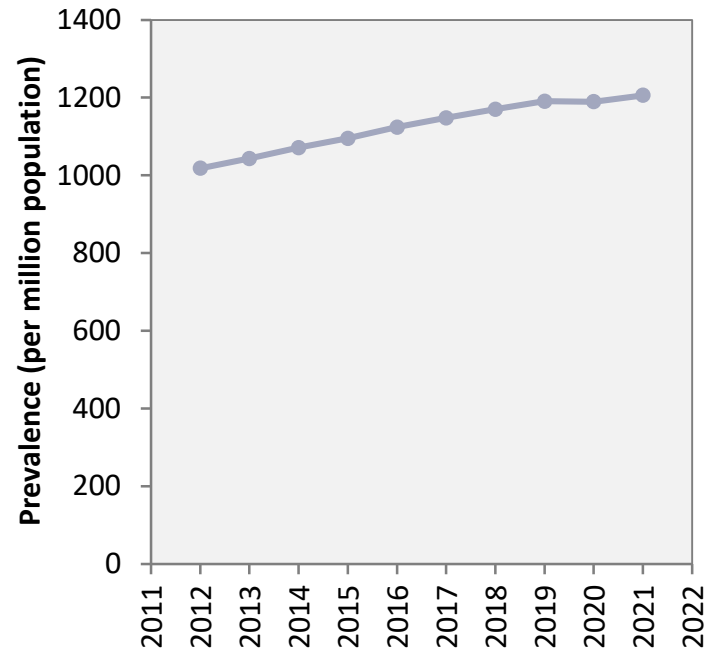
all patients on KRT



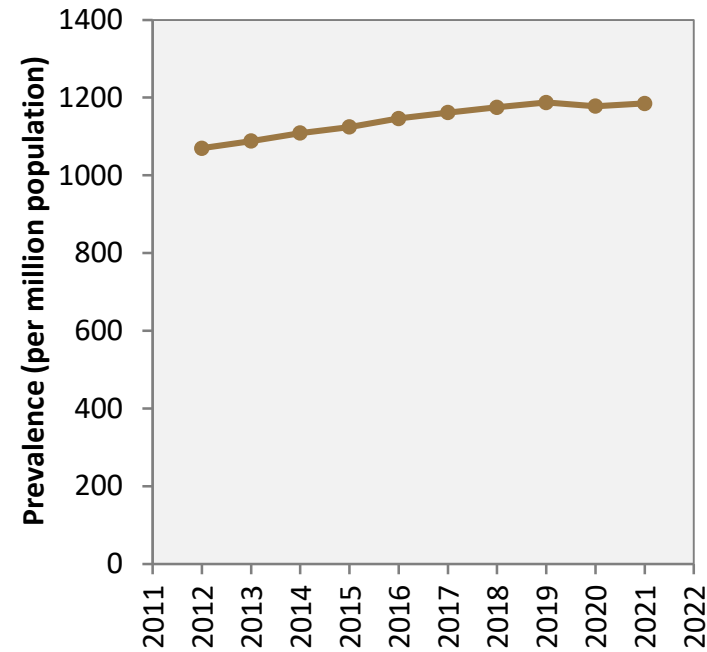
Prevalent patients on KRT

last 10 years (2012-2021)

Unadjusted prevalence over time
all patients on KRT



Adjusted prevalence over time
all patients on KRT

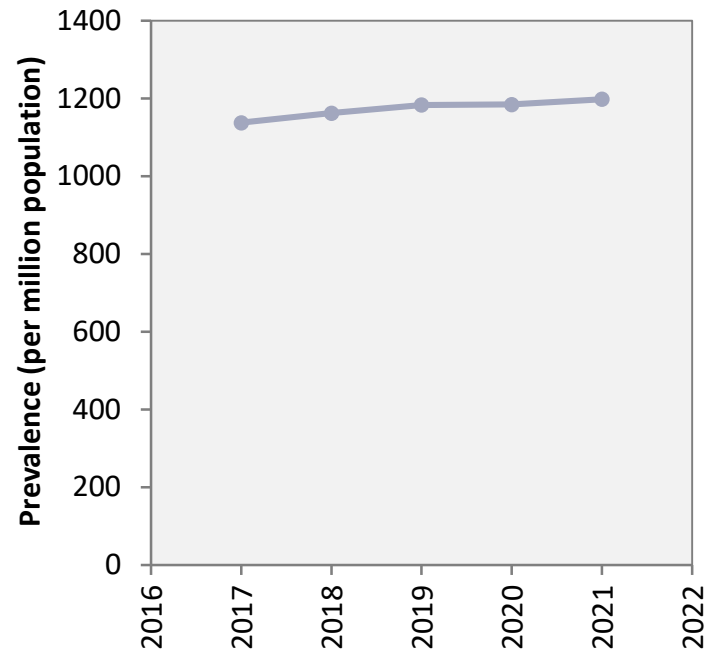


Prevalent patients on KRT

last 5 years (2017-2021)

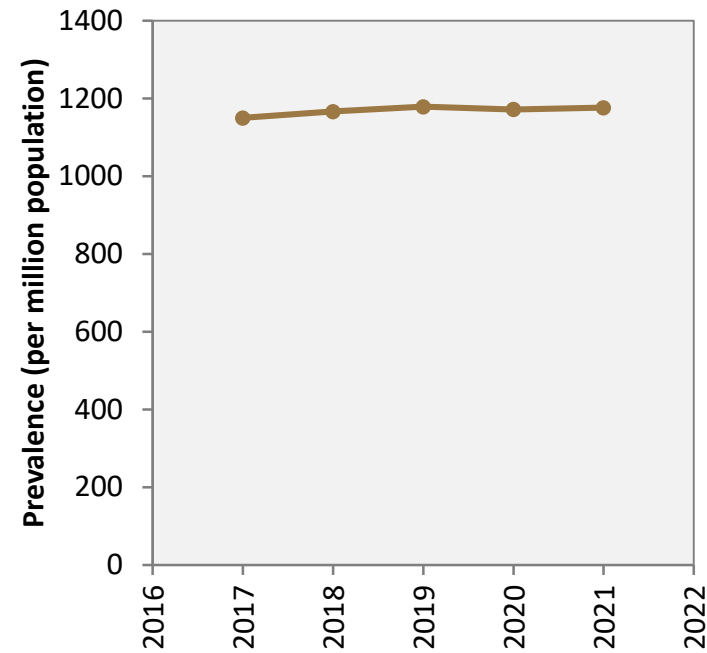
Unadjusted prevalence over time

all patients on KRT



Adjusted prevalence over time

all patients on KRT



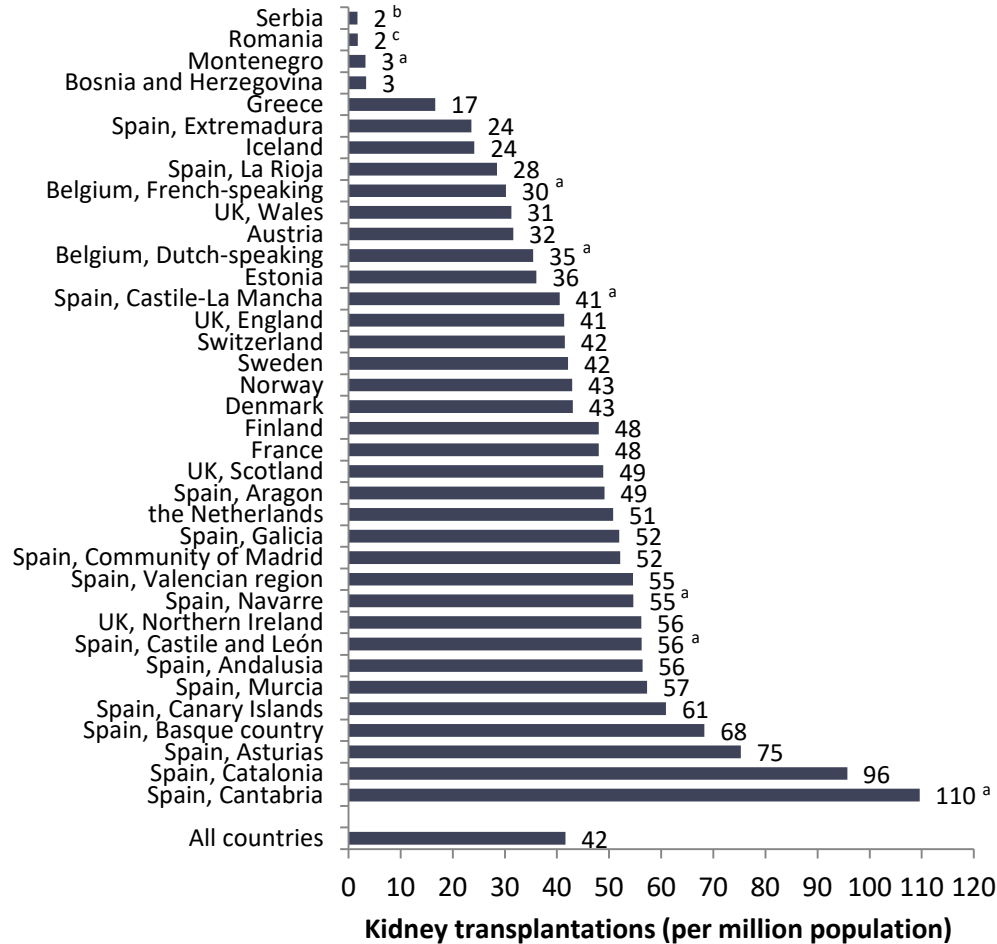


Kidney transplantations performed in 2021

by country

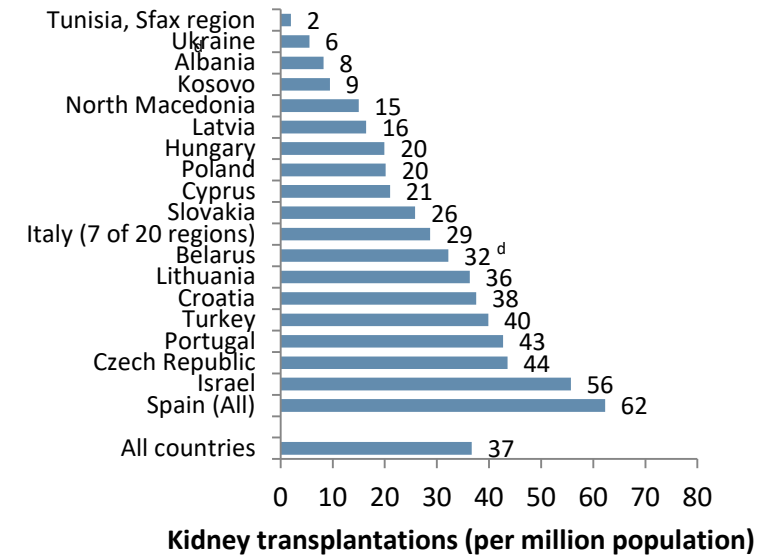
Kidney transplantation rate

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

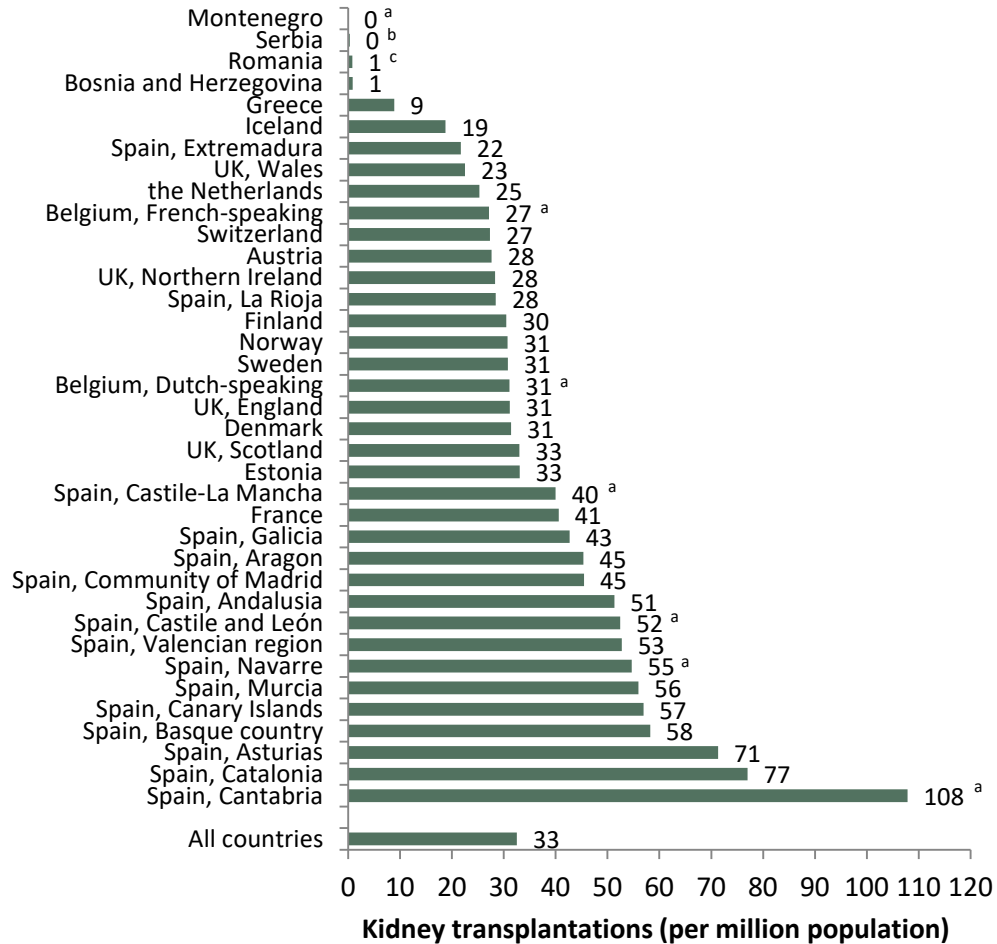


Kidney transplantations performed in 2021

transplants from deceased donors, by country

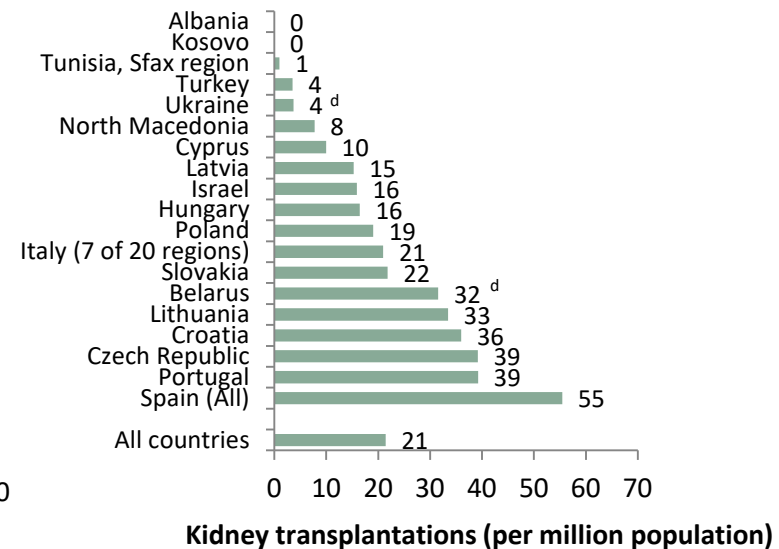
Deceased donor transplantation rate

renal registries providing individual patient data



Deceased donor transplantation rate

renal registries providing aggregated data



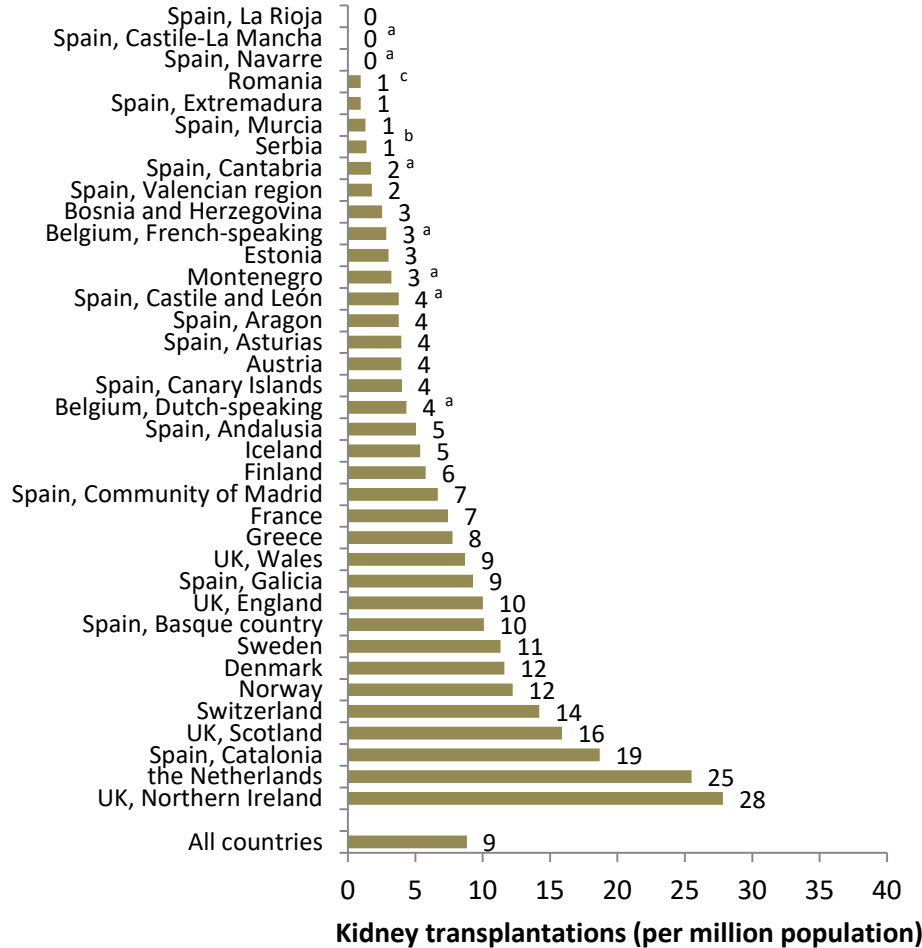
^a patients younger than 20 years of age are not included; ^{bc} transplantation rates are underestimated by 16% (b), 30% (c); ^d patients younger than 18 years of age are not included



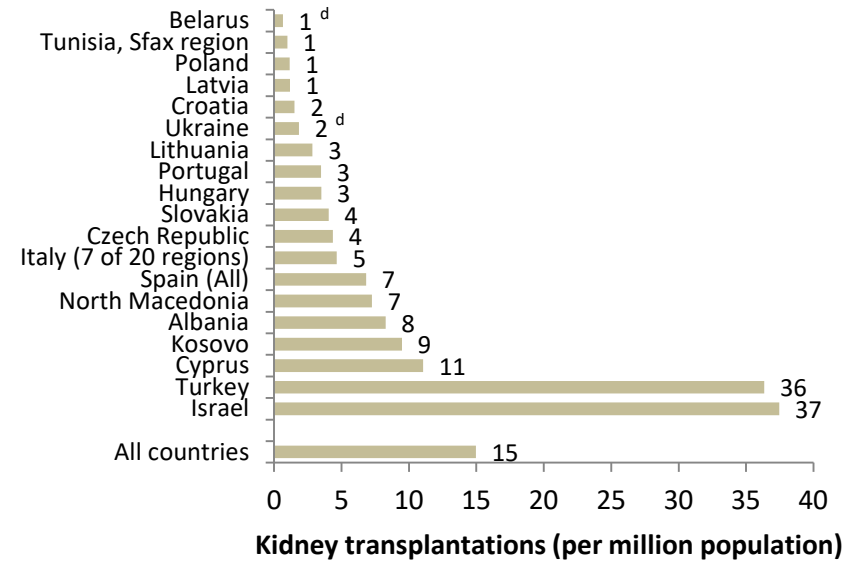
Kidney transplantations performed in 2021

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

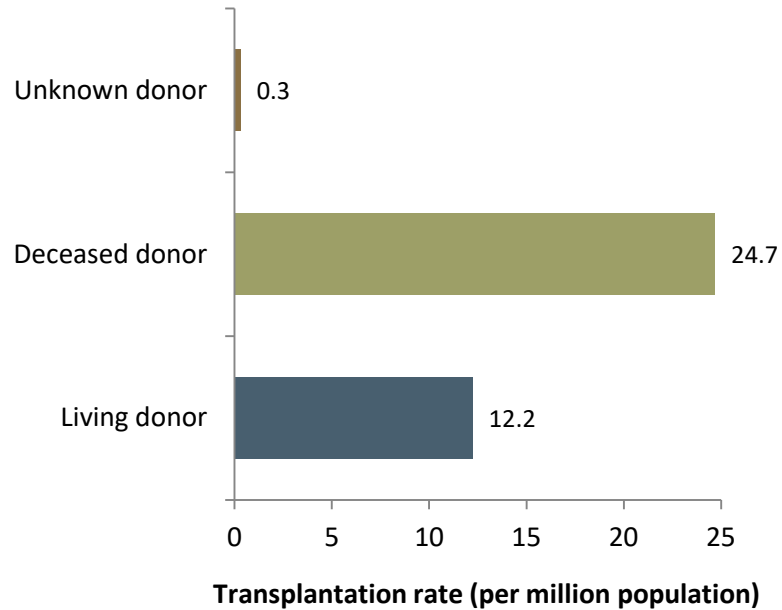


^a patients younger than 20 years of age are not included; ^{bc} transplant rates are underestimated by 12% (b), 30% (c); ^d patients younger than 18 years of age are not included

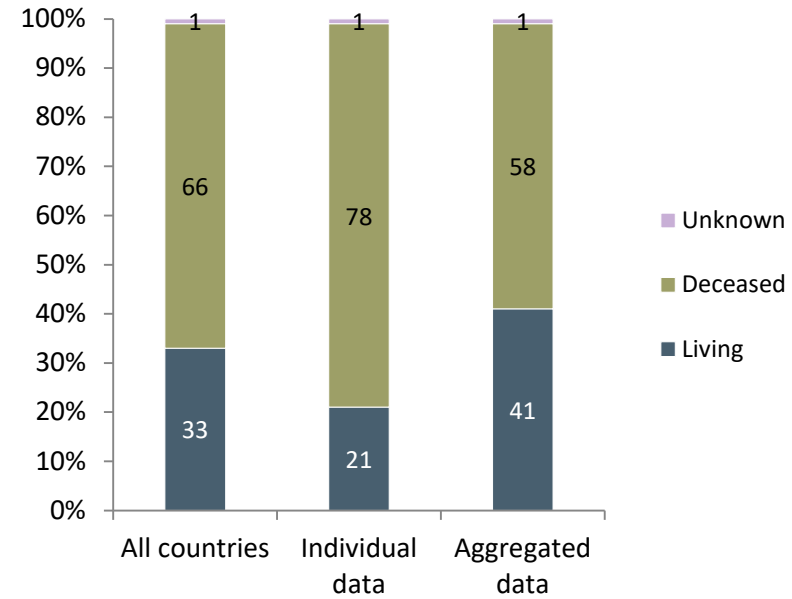
Kidney transplantations performed in 2021

by donor type

Kidney transplantations by donor type
for all registries



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



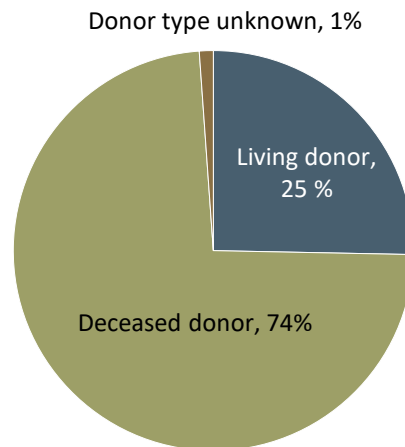
Kidney transplantations performed in 2021

by donor type

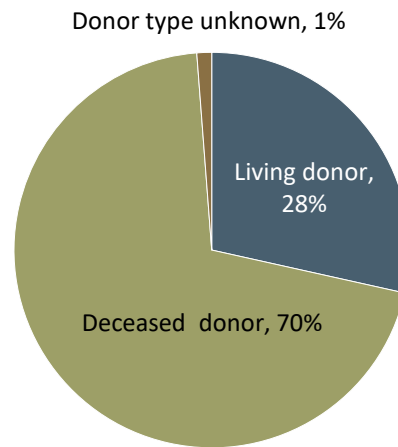
Kidney transplantations by donor type

patients from registries providing individual patient data only

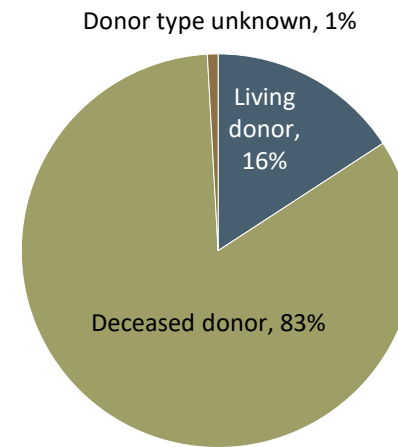
all patients



**patients younger than 65 years
of age at transplantation**

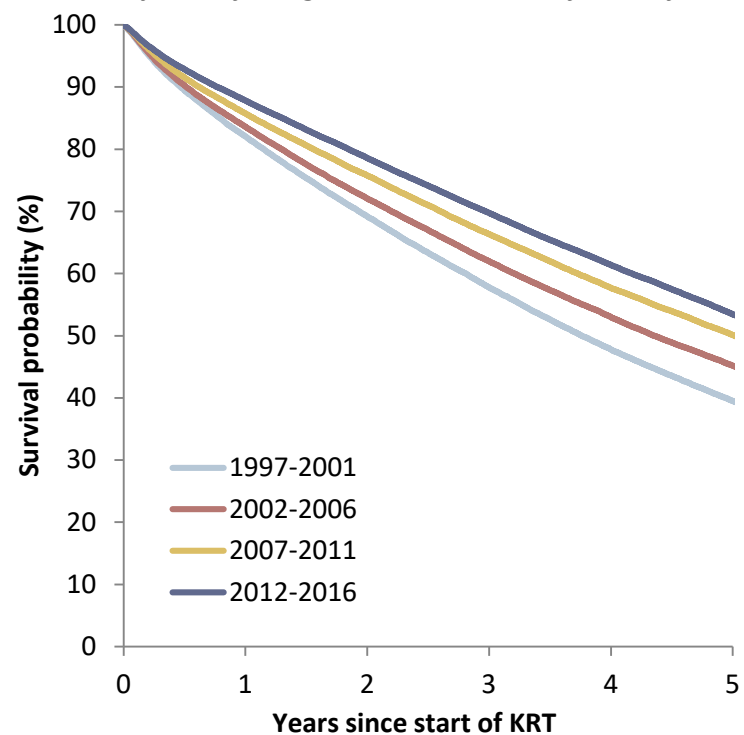


**patients aged 65 years or older
at transplantation**



Patient survival incident KRT patients

adjusted for age, sex and cause of renal failure

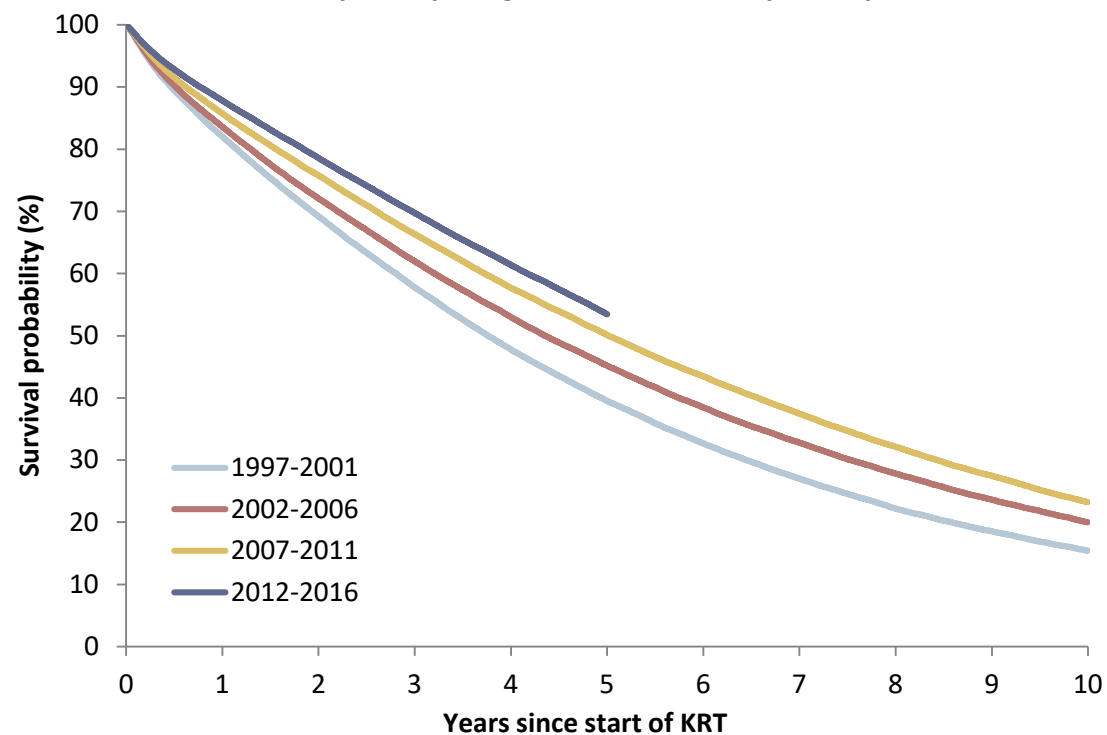


Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diabetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.

Patient survival incident KRT patients

adjusted for age, sex and cause of renal failure

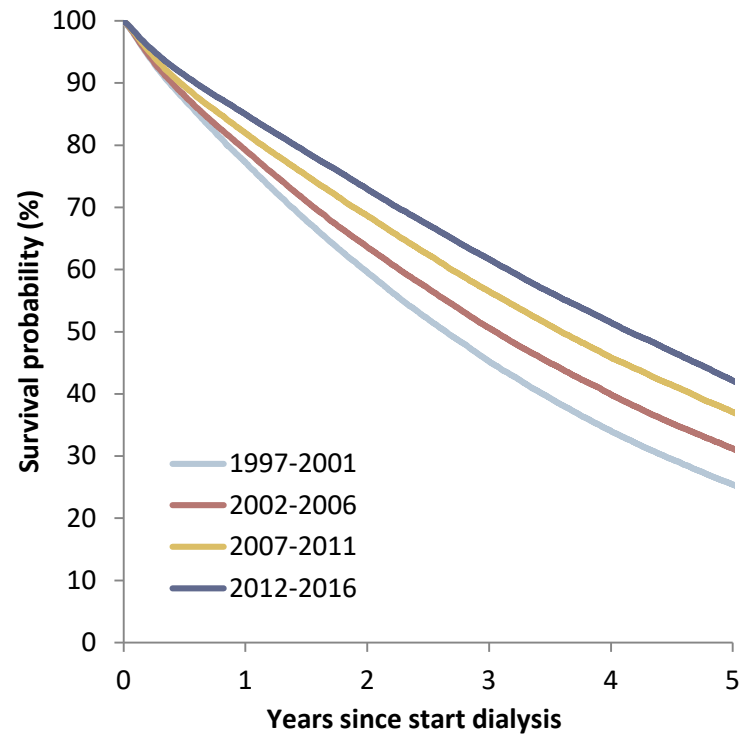


Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diabetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.

Patient survival incident dialysis patients

adjusted for age, sex and cause of renal failure

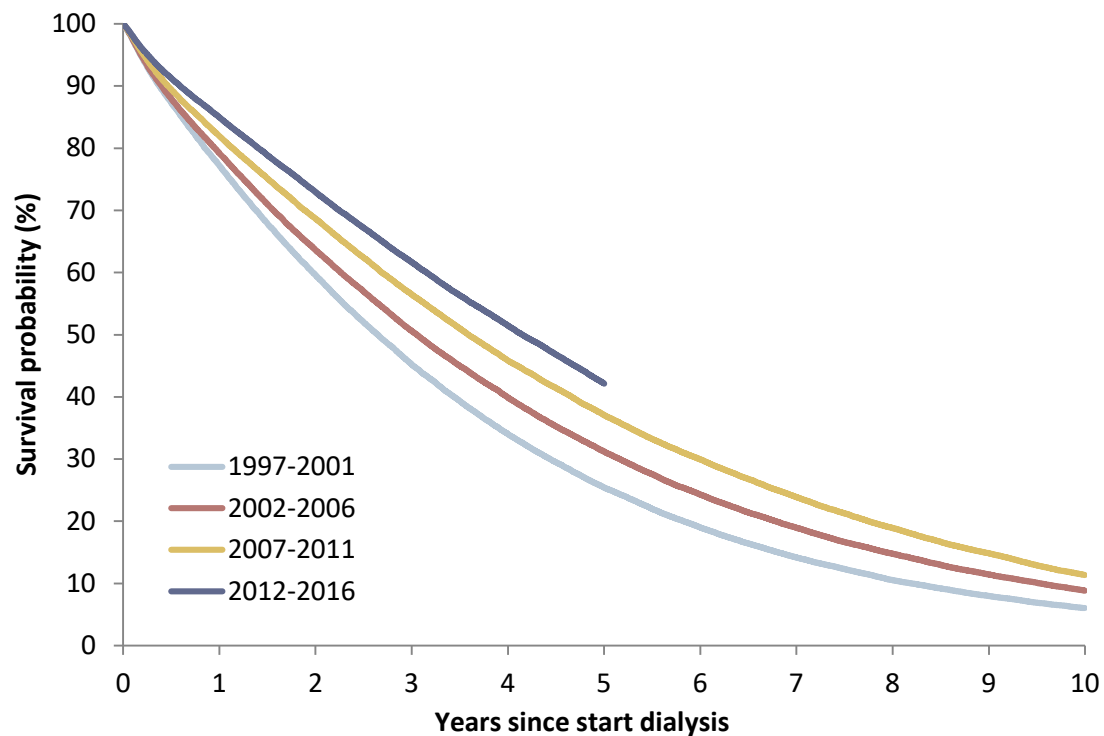


Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diabetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.

Patient survival incident dialysis patients

adjusted for age, sex and cause of renal failure

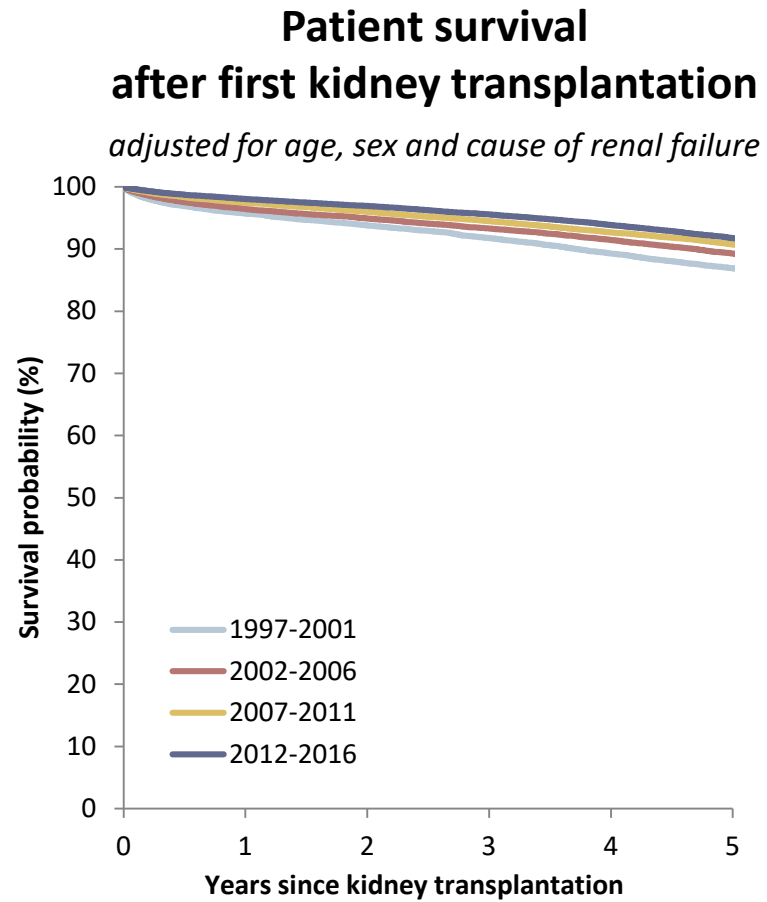


Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diabetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases).

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).

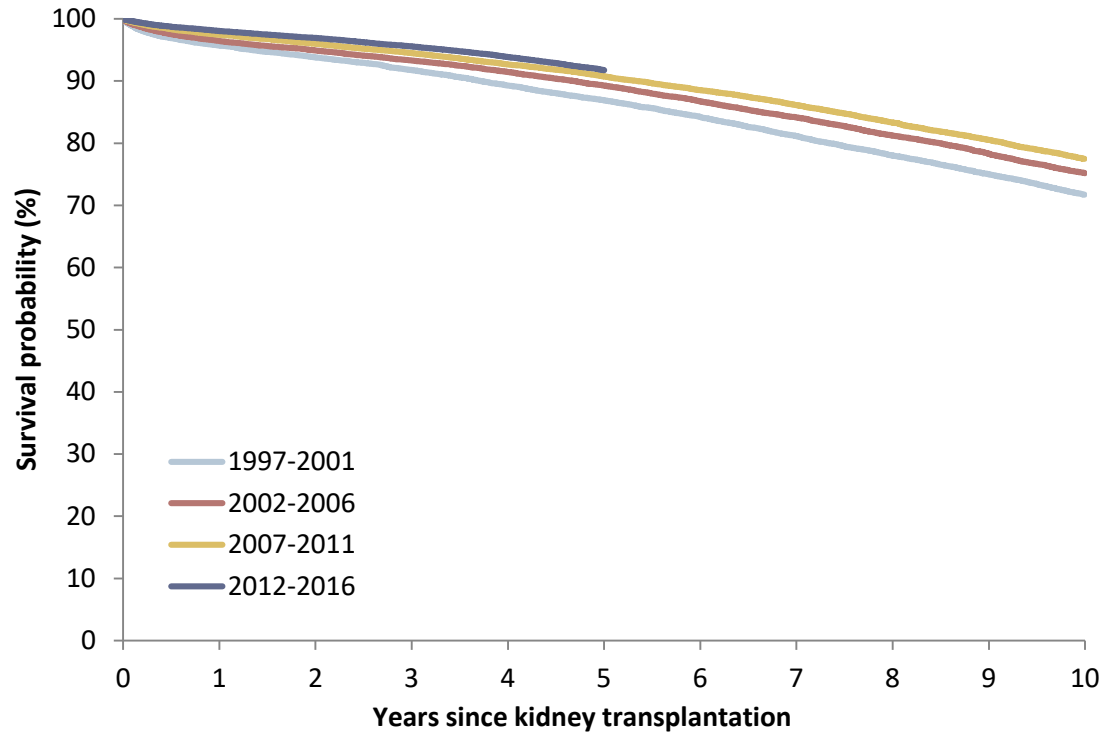
Cox regression model was used to calculate survival probabilities.

Patient survival after kidney transplantation

by cohort

Patient survival after first kidney transplantation

adjusted for age, sex and cause of renal failure

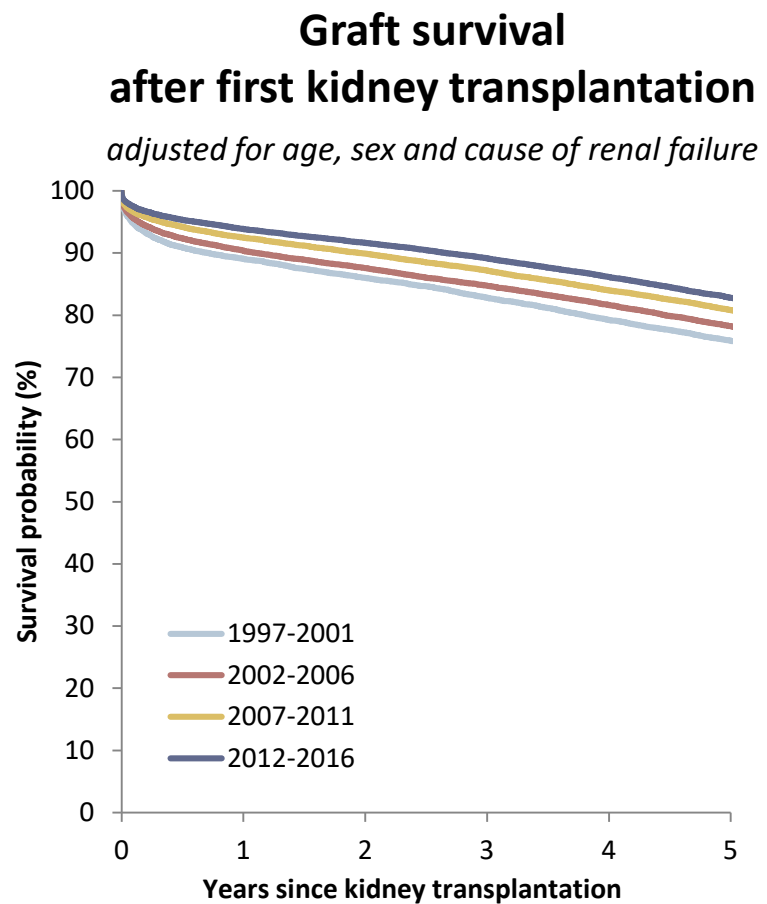


Survival probabilities were adjusted for fixed values for age (50 years), sex (63% men), and the primary renal disease distribution (14% diabetes mellitus, 10% hypertension / renal vascular disease, 23% glomerulonephritis and 53% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.

Graft survival after kidney transplantation

by cohort

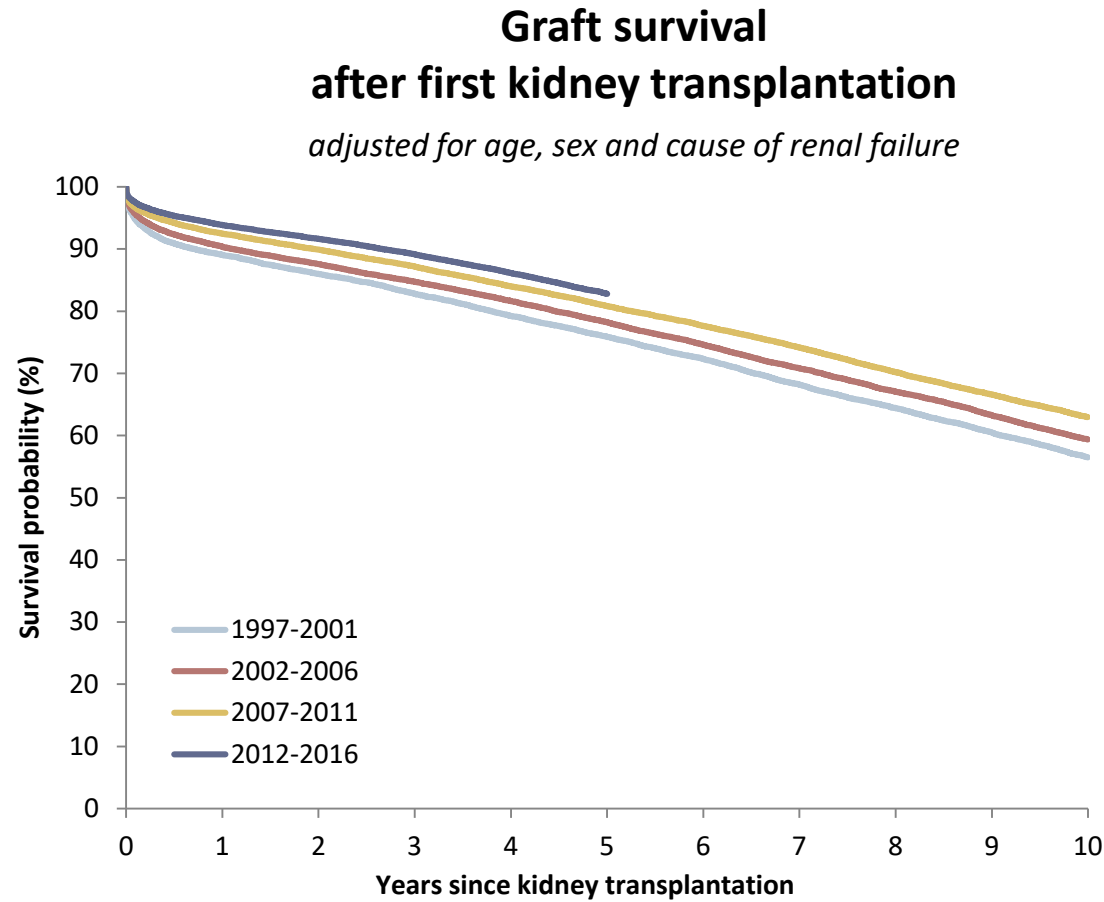


Survival probabilities were adjusted for fixed values for age (50 years), sex (63% men), and the primary renal disease distribution (14% diabetes mellitus, 10% hypertension / renal vascular disease, 23% glomerulonephritis and 53% other primary renal diseases).

Cox regression model was used to calculate survival probabilities.

Graft survival after kidney transplantation

by cohort



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.

Expected remaining years of life of the general population and of prevalent dialysis and kidney transplant patients

