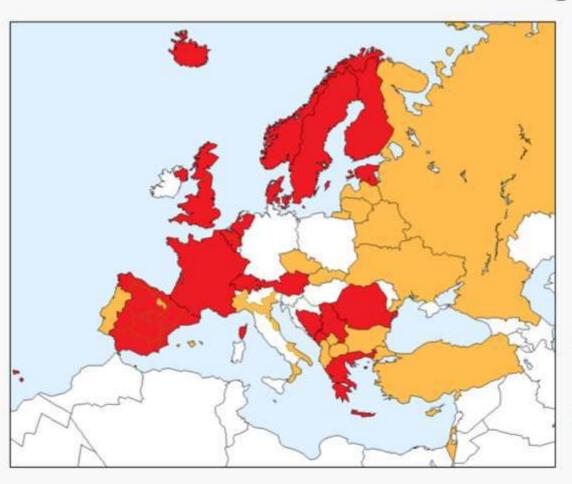


Summary of the 2018 ERA-EDTA Registry Annual Report





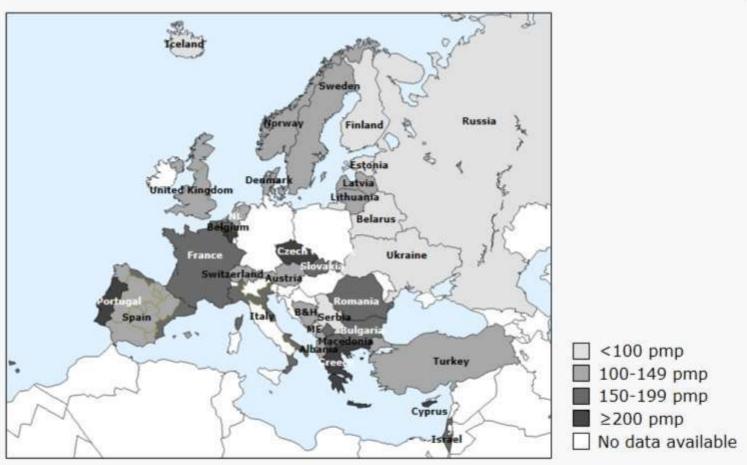
National and regional renal registries that contributed data to the 2018 ERA-EDTA Registry Annual Report



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



by country



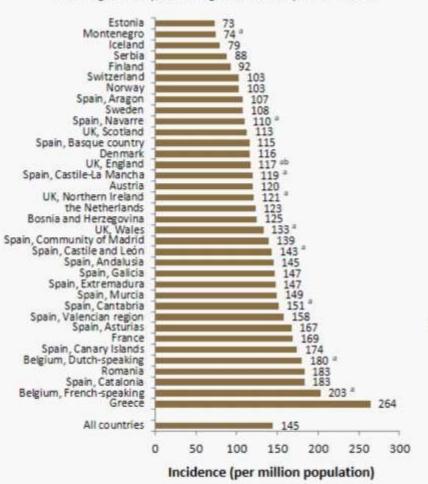


Unadjusted incidence

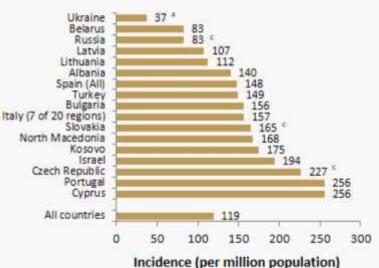
renal registries providing individual patient data

Incident patients accepted for RRT in 2018 at day 1

by country



Unadjusted incidence

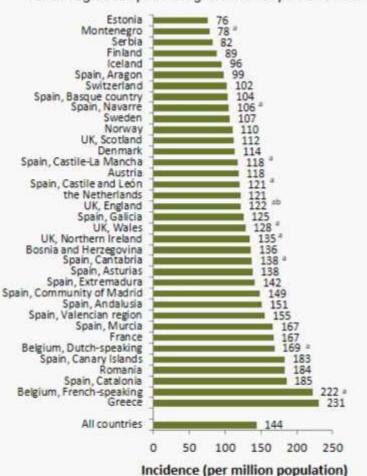


^{*} patients younger than 20 years of age are not included; * the incidence is underestimated by 2%; * data includes patients receiving dialysis only



Adjusted incidence

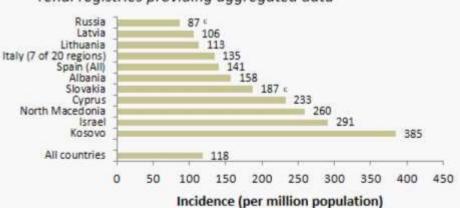
renal registries providing individual patient data



Incident patients accepted for RRT in 2018 at day 1

by country adjusted for age and sex

Adjusted incidence



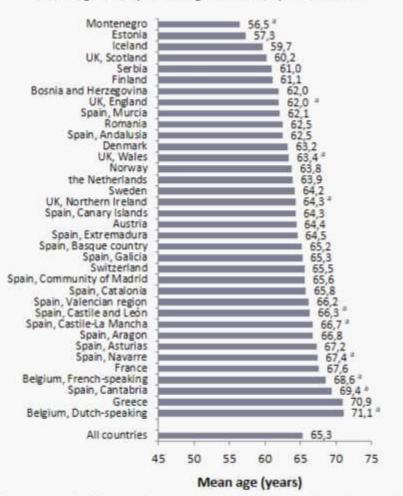
incidence (per immon population

^{*} patients younger than 20 years of age are not included; * the incidence is underestimated by 2%; * data includes patients receiving dialysis only



Mean age at start of RRT

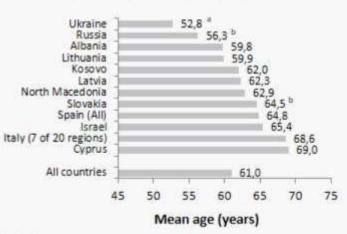
renal registries providing individual patient data



Incident patients accepted for RRT in 2018 at day 1

mean age

Mean age at start of RRT



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



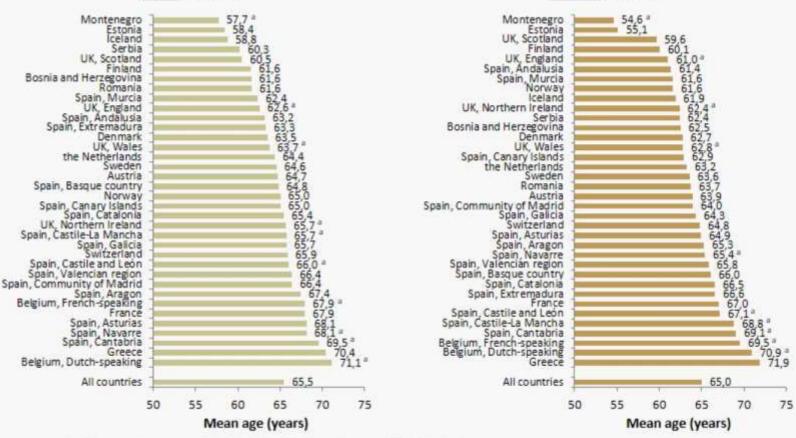
registries providing individual patient data only

Mean age at start of RRT

male patients

Mean age at start of RRT

female patients



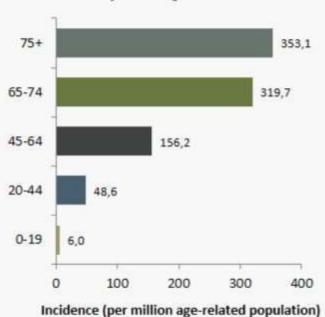
patients younger than 20 years of age are not included; b data includes patients receiving dialysis only



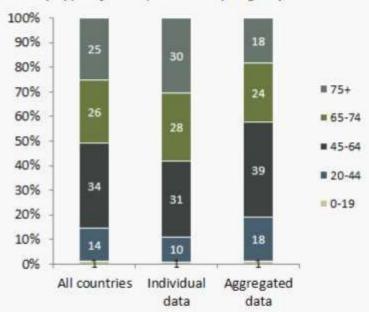
by age category

Incidence by age category

for all registries



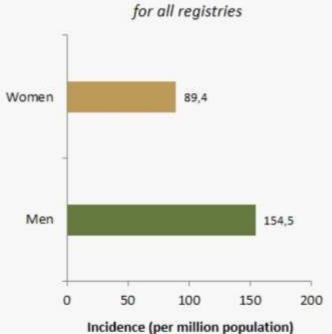
Incidence by age category



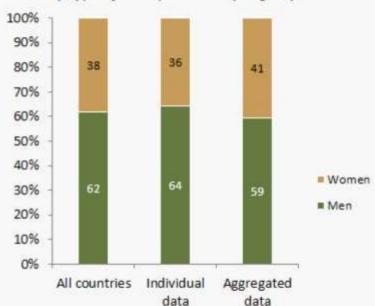


by sex

Incidence by sex



Incidence by sex

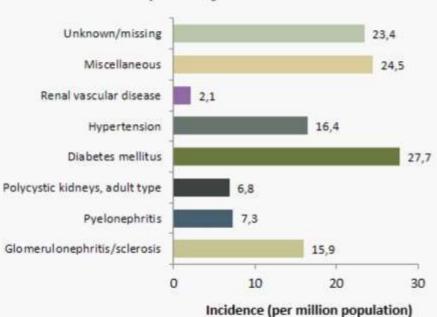




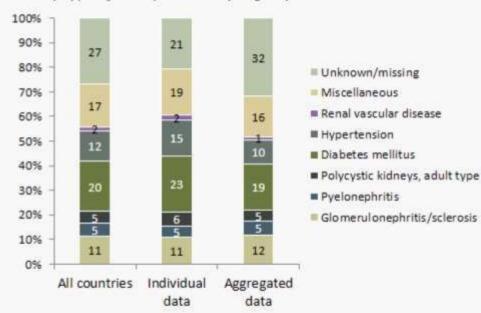
by primary renal disease

Incidence by primary renal disease





Incidence by primary renal disease

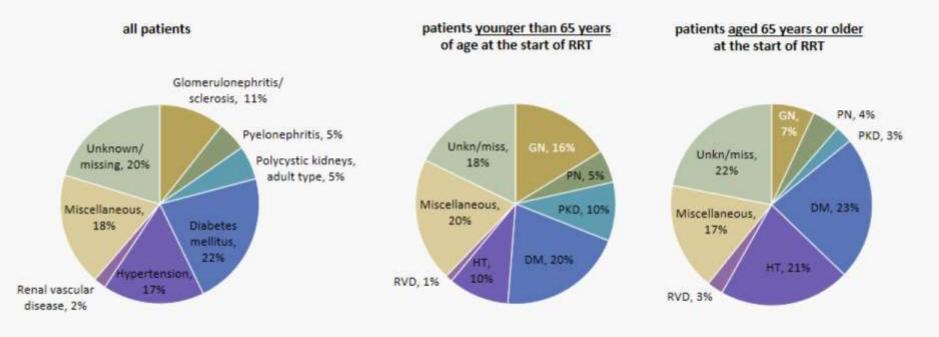




by primary renal disease and age category

Incidence by primary renal disease

patients from registries providing individual patient data only

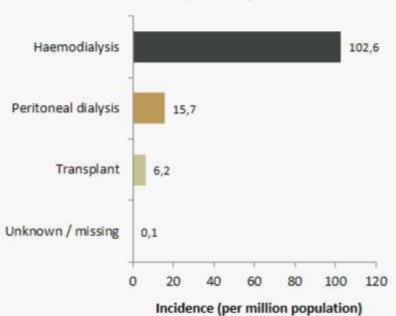




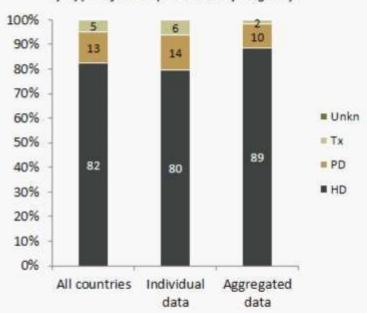
by established modality

Incidence at day 91 by established modality

for all registries



Incidence at day 91 by established modality



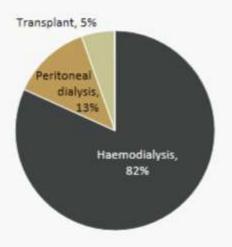


by established modality and age category

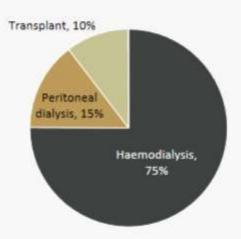
Incidence at day 91 by established modality

patients from registries providing individual patient data only

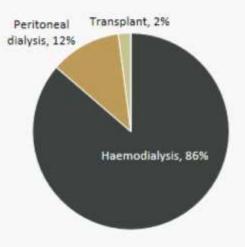
all patients



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



patients aged 65 years or older at the start of RRT

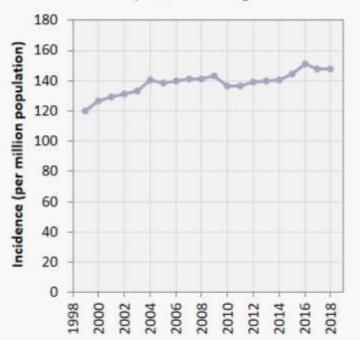




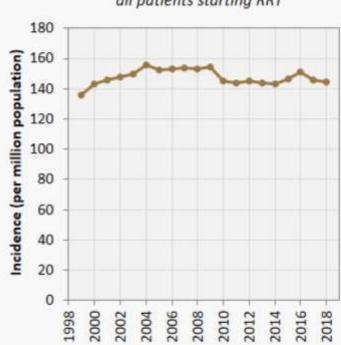
last 20 years (1999-2018)

Unadjusted incidence over time

all patients starting RRT



Adjusted incidence over time



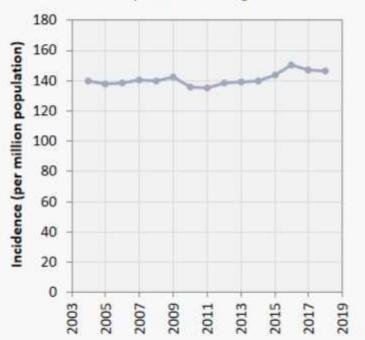




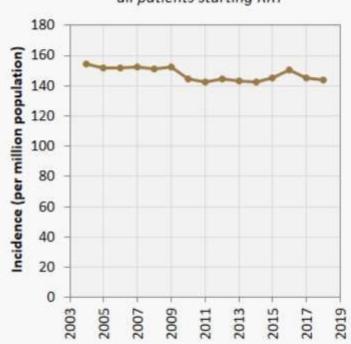
last 15 years (2004-2018)

Unadjusted incidence over time

all patients starting RRT



Adjusted incidence over time



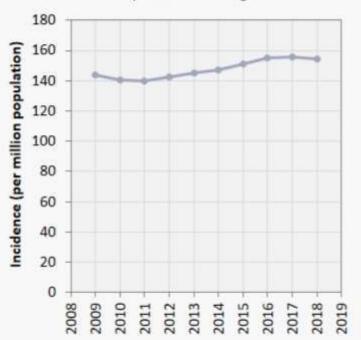




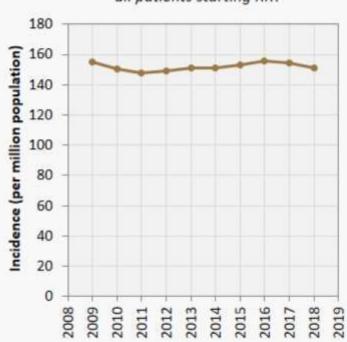
last 10 years (2009-2018)

Unadjusted incidence over time

all patients starting RRT



Adjusted incidence over time



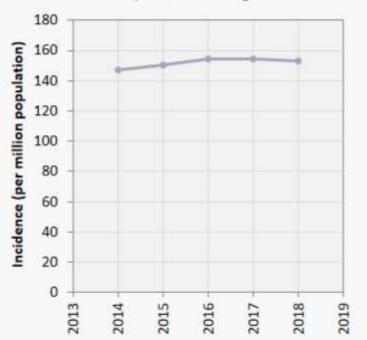




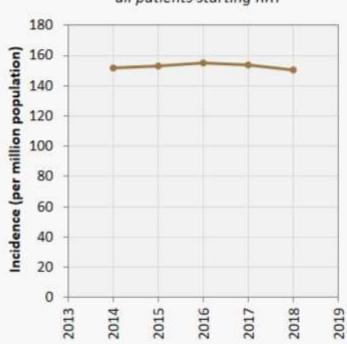
last 5 years (2014-2018)

Unadjusted incidence over time

all patients starting RRT



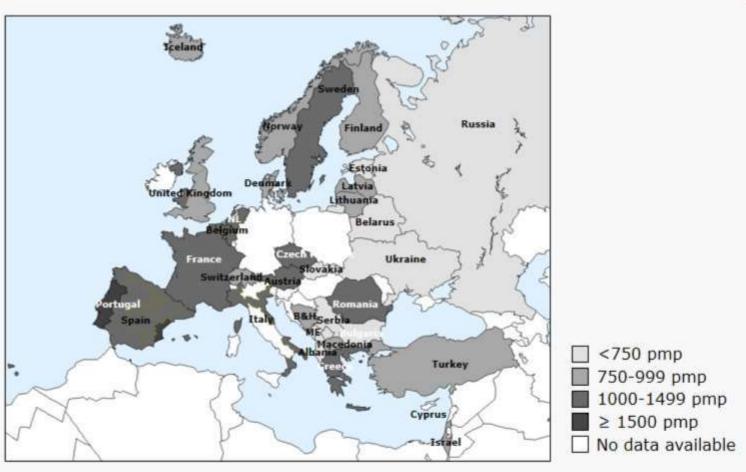
Adjusted incidence over time







by country



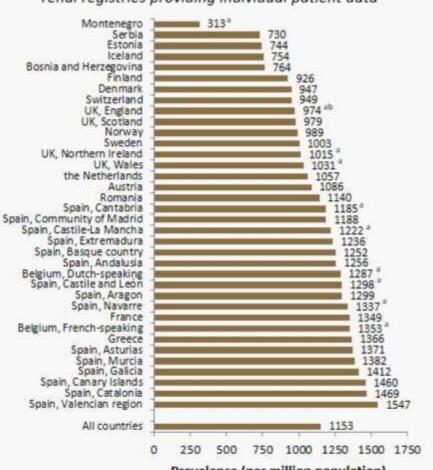


Unadjusted prevalence

renal registries providing individual patient data

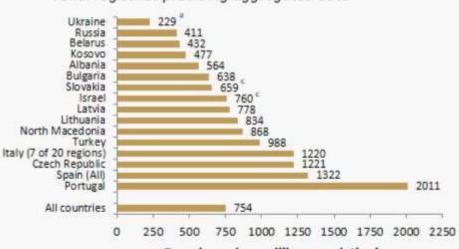
Prevalent patients on RRT in 2018

by country



Unadjusted prevalence

renal registries providing aggregated data



Prevalence (per million population)

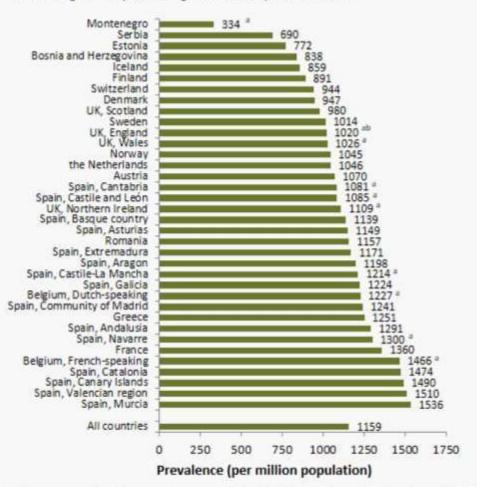
Prevalence (per million population)

patients younger than 20 years of age are not included; b the prevalence is underestimated by 1%; data includes patients receiving dialysis only.



Adjusted prevalence

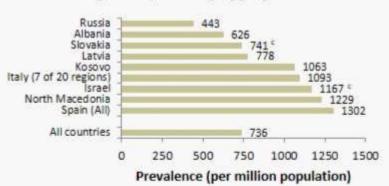
renal registries providing individual patient data



Prevalent patients on RRT in 2018

by country adjusted for age and sex

Adjusted prevalence

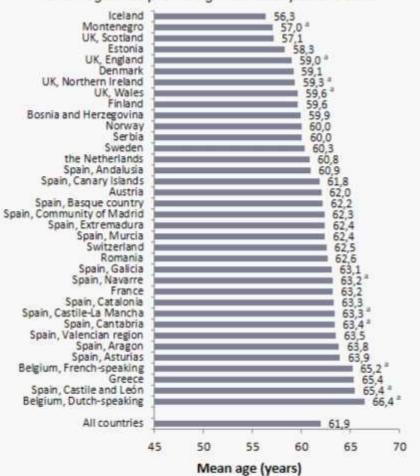


patients younger than 20 years of age are not included; b the prevalence is underestimated by 1%; data includes patients receiving dialysis only



Mean age on 31 December 2018

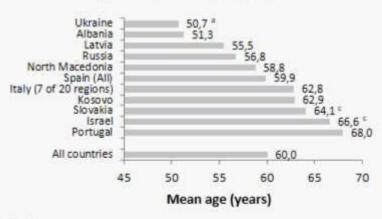
renal registries providing individual patient data



Prevalent patients on RRT in 2018

mean age

Mean age on 31 December 2018



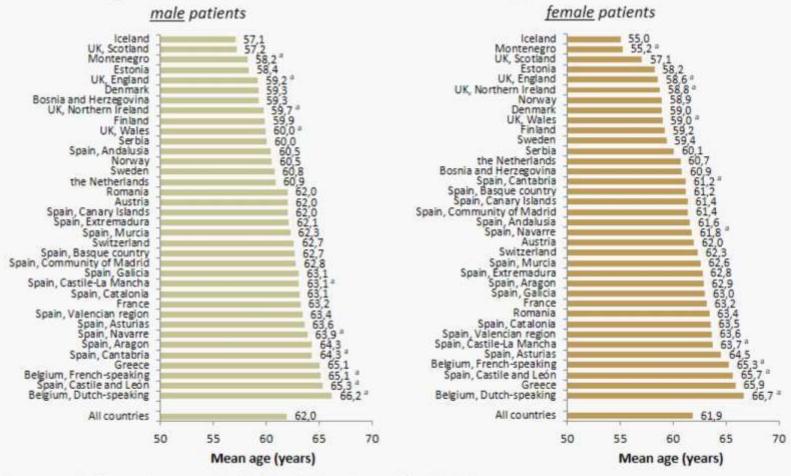
patients younger than 20 years of age are not included; b data includes patients receiving dialysis only



for registries providing individual patient data only

Mean age on 31 December 2018

Mean age on 31 December 2018



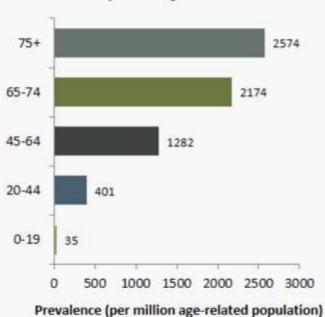
^{*} patients younger than 20 years of age are not included; * data includes patients receiving dialysis only



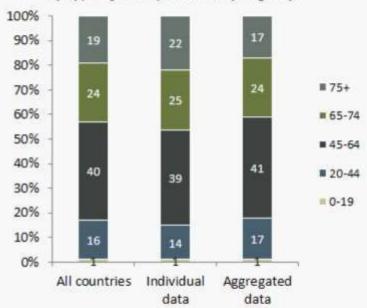
by age category

Prevalence by age category

for all registries



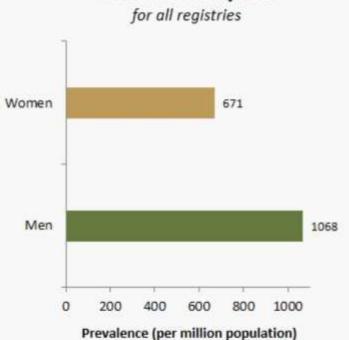
Prevalence by age category



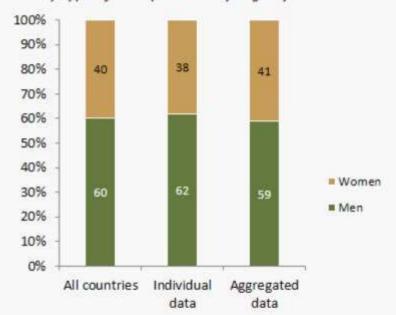


by sex

Prevalence by sex



Prevalence by sex

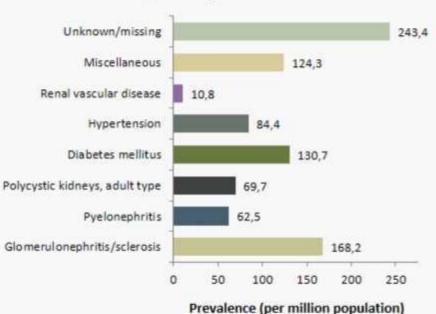




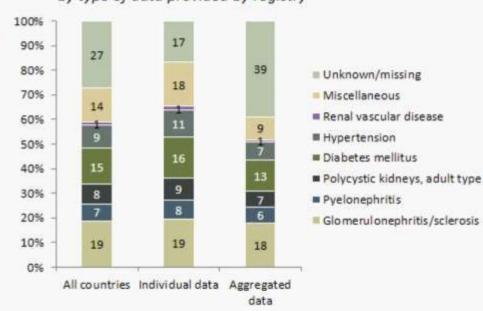
by primary renal disease

Prevalence by primary renal disease

for all registries



Prevalence by primary renal disease

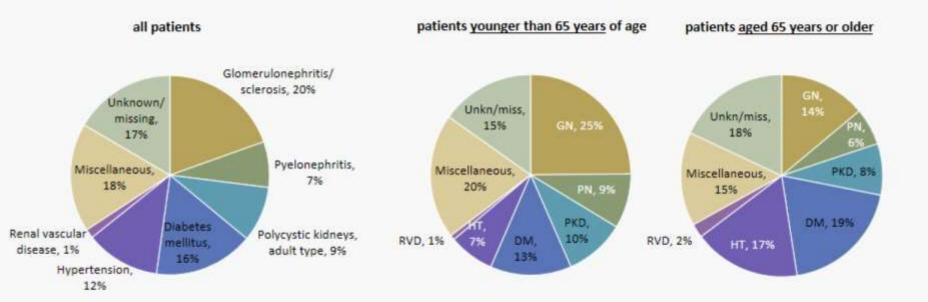




by primary renal disease and age category

Prevalence by primary renal disease

patients from registries providing individual patient data only

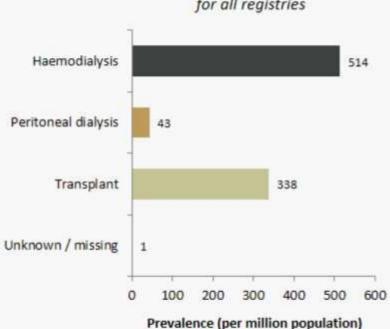




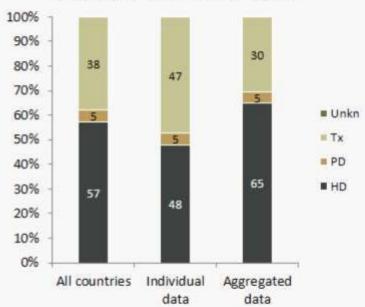
by modality

Prevalence by modality

for all registries



Prevalence by modality

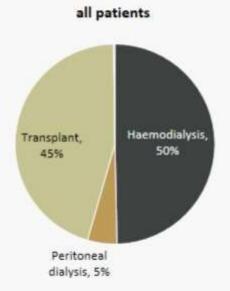


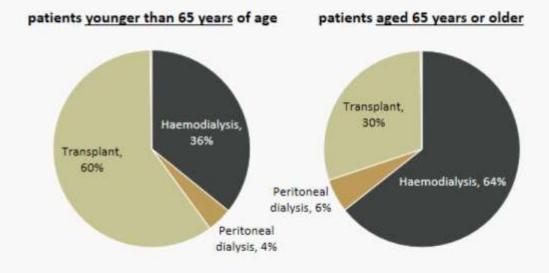


by modality and age category

Prevalence by modality

patients from registries providing individual patient data only



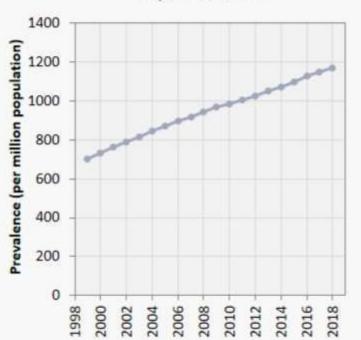




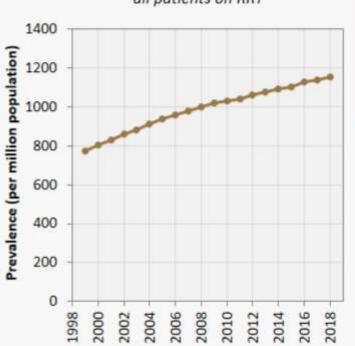
last 20 years (1999-2018)

Unadjusted prevalence over time

all patients on RRT



Adjusted prevalence over time



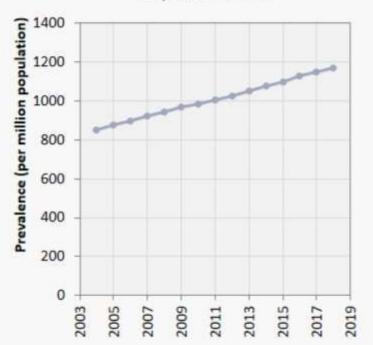




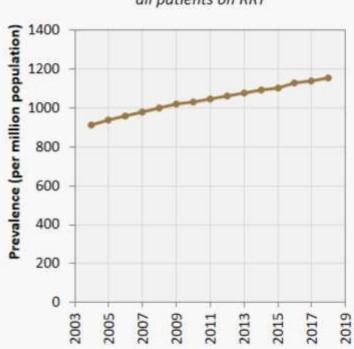
last 15 years (2004-2018)

Unadjusted prevalence over time

all patients on RRT



Adjusted prevalence over time



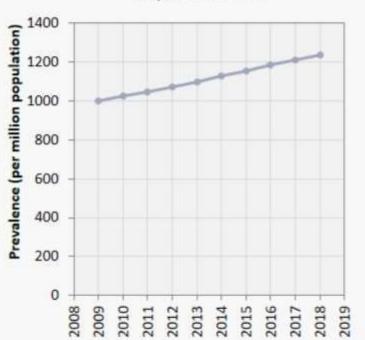




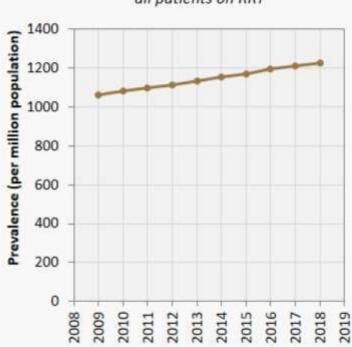
last 10 years (2009-2018)

Unadjusted prevalence over time

all patients on RRT



Adjusted prevalence over time



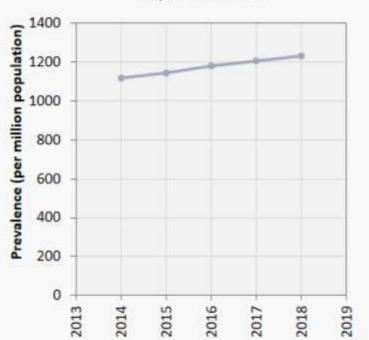




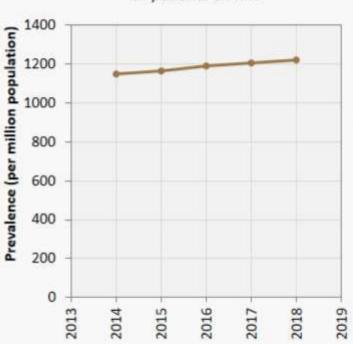
last 5 years (2014-2018)

Unadjusted prevalence over time

all patients on RRT



Adjusted prevalence over time







Kidney transplants performed

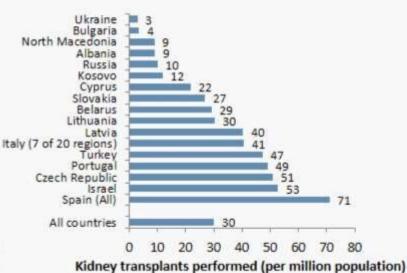
renal registries providing individual patient data Bosnia and Herzegovina Montenegro Romania Greece Iceland Belgium, French-speaking UK, Wales Denmark Switzerland Finland Belgium, Dutch-speaking Sweden Estonia Norway Austria Spain, Castile-La Mancha UK, England France UK, Scotland the Netherlands Spain, Murcia UK, Northern Ireland Spain, Community of Madrid 59 Spain, Aragon Spain, Navarre Spain, Galicia Spain, Valencian region Spain, Castile and León Spain, Basque country Spain, Andalusia Spain, Extremadura Spain, Canary Islands Spain, Asturias Spain, Cantabria Spain, Catalonia All countries

Kidney transplants performed in 2018

by country

Kidney transplants performed

renal registries providing aggregated data



[&]quot; patients younger than 20 years of age are not included; but transplant rates are underestimated by 15% (b), 30% (c), 7% (d)

Kidney transplants performed (per million population)

100 110



Deceased donor transplant rate

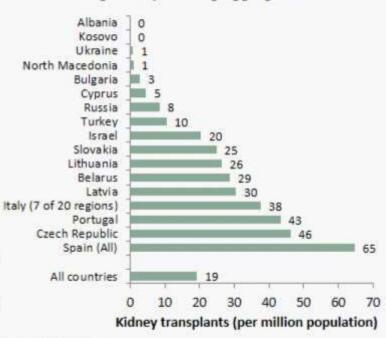
renal registries providing individual patient data

Montenegro Bosnia and Herzegovina Greece UK, Wales Denmark the Netherlands Switzerland Sweden UK, Northern Ireland Norway Belgium, French-speaking UK, England UK Scotland Finland Austria Belgium, Dutch-speaking France Spain, Castile-La Mancha Spain, Galicia Spain, Murcia Spain, Community of Madrid Spain, Aragon Spain, Basque country Spain, Navarre Spain, Valencian region Spain, Andalusia Spain, Extremadura Spain, Canary Islands Spain, Asturias Spain, Cantabria Spain, Catalonia All countries 0 90 Kidney transplants (per million population)

Kidney transplants performed in 2018

transplants from deceased donors by country

Deceased donor transplant rate

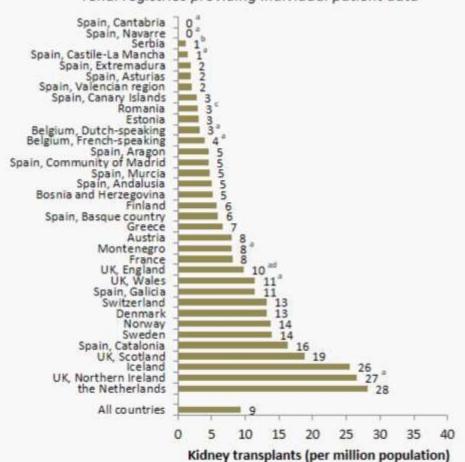


[&]quot; patients younger than 20 years of age are not included; but transplant rates are underestimated by 15% (b), 30% (c), 7% (d)



Living donor transplant rate

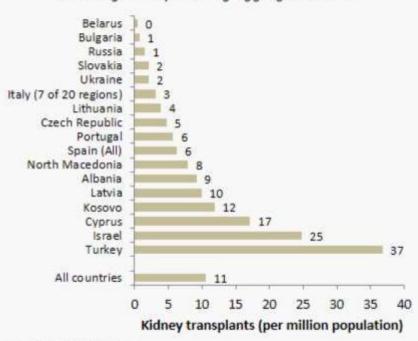
renal registries providing individual patient data



Kidney transplants performed in 2018

transplants from living donors by country

Living donor transplant rate



patients younger than 20 years of age are not included; but transplant rates are underestimated by 15% (b), 30% (c), 7% (d)

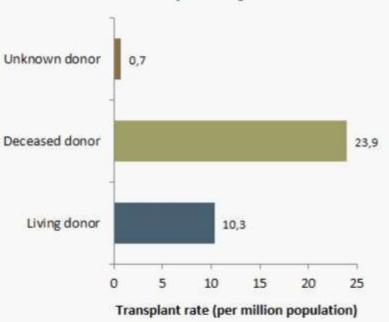


Kidney transplants performed in 2018

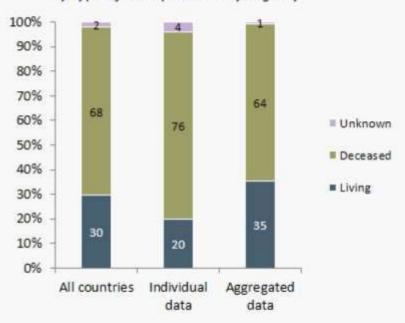
by donor type

Kidney transplants by donor type

for all registries



Kidney transplants by donor type





Kidney transplants performed in 2018

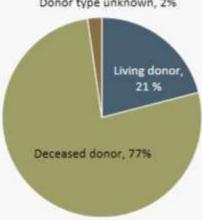
by donor type

Kidney transplants by donor type

patients from registries providing individual patient data only

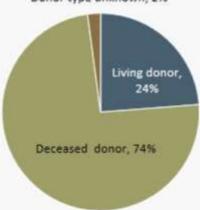
all patients

Donor type unknown, 2%



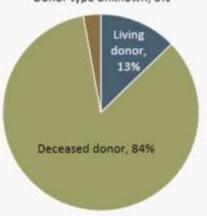
patients younger than 65 years of age on transplantation

Donor type unknown, 2%



patients aged 65 years or older on transplantation

Donor type unknown, 3%



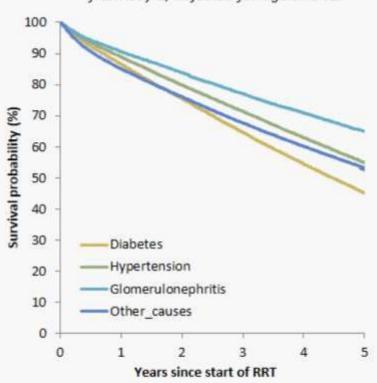


Survival probability cohort 2009-2013

by primary renal disease

Adjusted patient survival by primary renal disease Incident RRT patients







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).

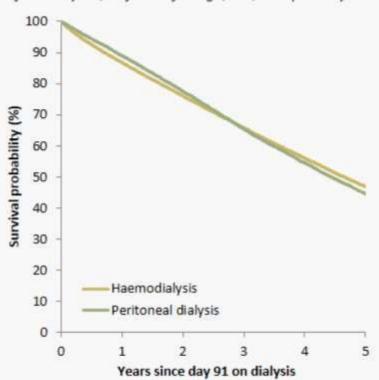


Survival probability cohort 2009-2013

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% glomerulanephritis and 46% other primary renal diseases).



Survival probability cohort 2009-2013

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).

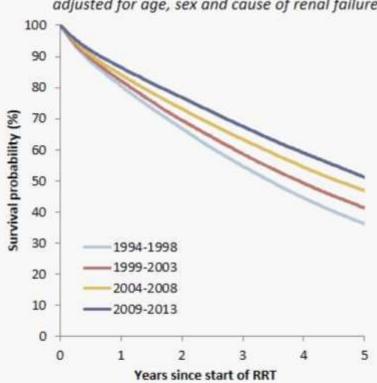


Patient survival on RRT

by cohort

Patient survival incident RRT patients

adjusted for age, sex and cause of renal failure





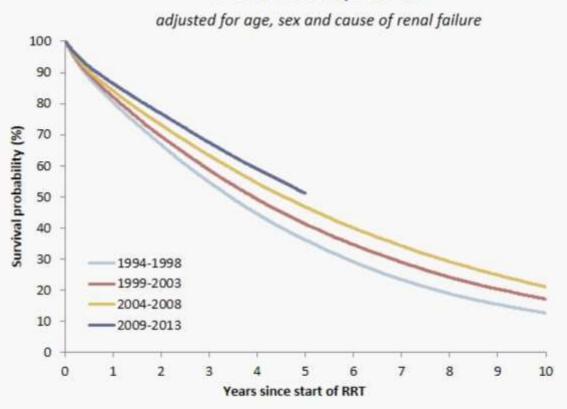
Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diobetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases).



Patient survival on RRT

by cohort

Patient survival incident RRT patients



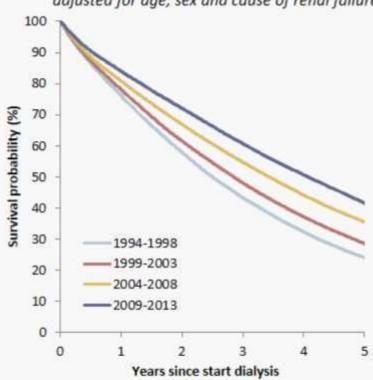


Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diabetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases).



Patient survival incident dialysis patients

adjusted for age, sex and cause of renal failure



Patient survival on dialysis

by cohort



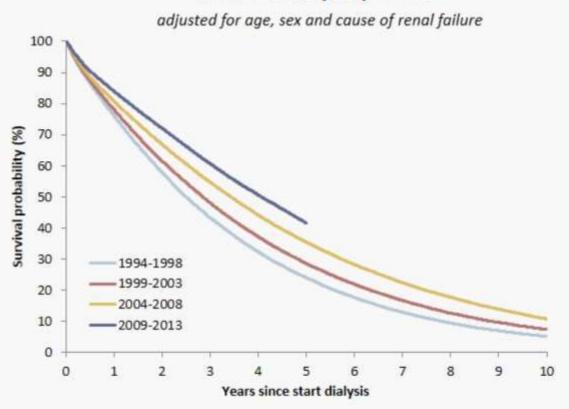
Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diabetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases).



Patient survival on dialysis

by cohort

Patient survival incident dialysis patients





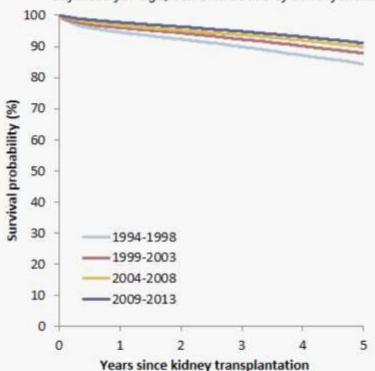
Survival probabilities were adjusted for fixed values for age (67 years), sex (63% men), and the primary renal disease distribution (24% diabetes mellitus, 19% hypertension / renal vascular disease, 11% glomerulonephritis and 46% other primary renal diseases).

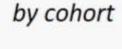


Patient survival after kidney transplantation

Patient survival after first kidney transplantation

adjusted for age, sex and cause of renal failure







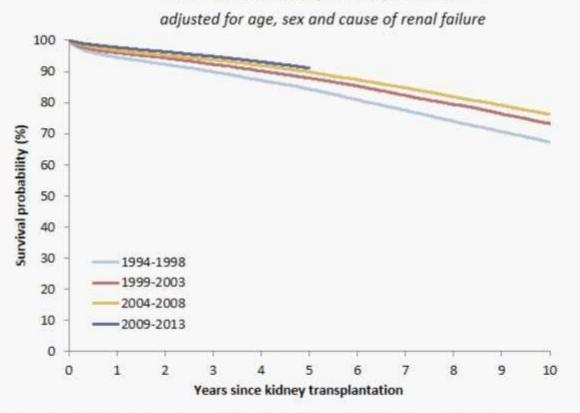
Survival probabilities were adjusted for fixed values for age (50 years), sex (63% men), and the primary renal disease distribution (14% diabetes mellitus, 10% hypertension / renal vascular disease, 23% glomerulonephritis and 53% other primary renal diseases).



Patient survival after kidney transplantation

Patient survival after first kidney transplantation

by cohort





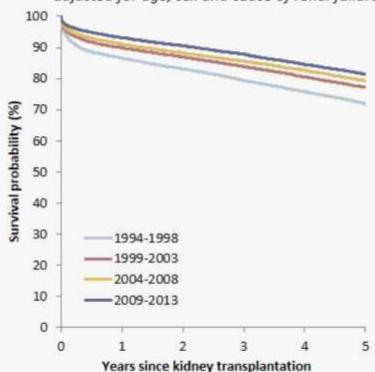
Survival probabilities were adjusted for fixed values for age (50 years), sex (63% men), and the primary renal disease distribution (14% diabetes mellitus, 10% hypertension / renal vascular disease, 23% glomerulonephritis and 53% other primary renal diseases).



Graft survival after kidney transplantation

Graft survival after first kidney transplantation

adjusted for age, sex and cause of renal failure





by cohort

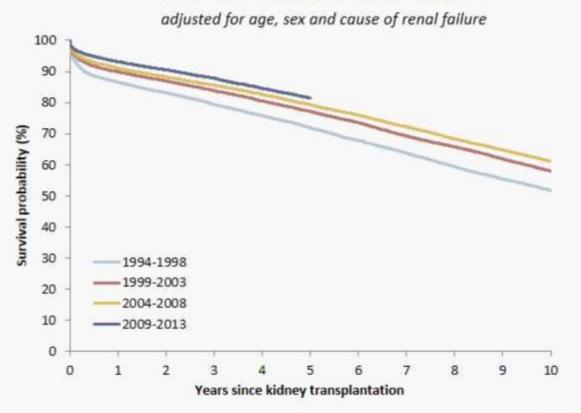
Survival probabilities were adjusted for fixed values for age (50 years), sex (63% men), and the primary renal disease distribution (14% diabetes mellitus, 10% hypertension / renal vascular disease, 23% glomerulonephritis and 53% other primary renal diseases).



Graft survival after kidney transplantation

Graft survival after first 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).