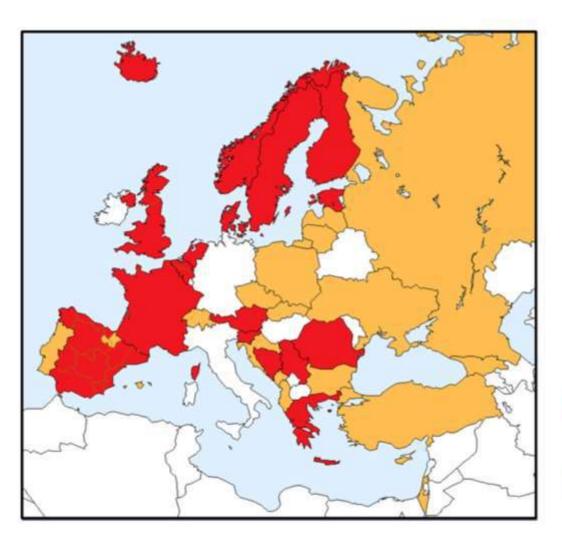


# Summary of the 2013 ERA-EDTA Registry Annual Report



# National and regional renal registries that contributed data to the 2013 ERA-EDTA Registry Annual Report

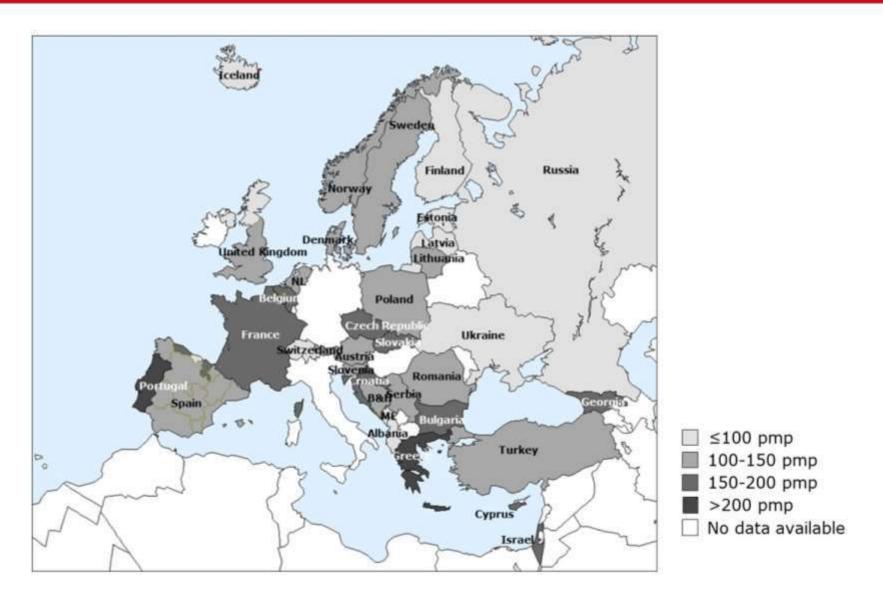




- Renal registries contributing with individual patient data
- Renal registries contributing with aggregated data

## Incident patients accepted for RRT in 2013, at day 1 by country



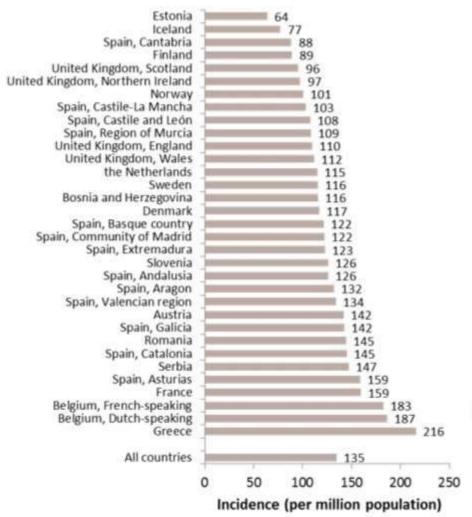


by country

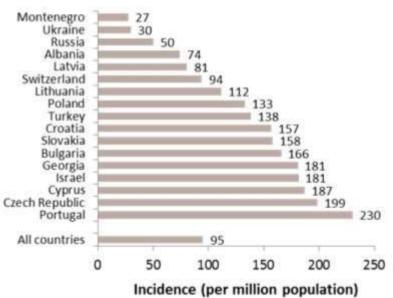


#### Unadjusted incidence, by country

renal registries providing individual patient data



#### Unadjusted incidence, by country

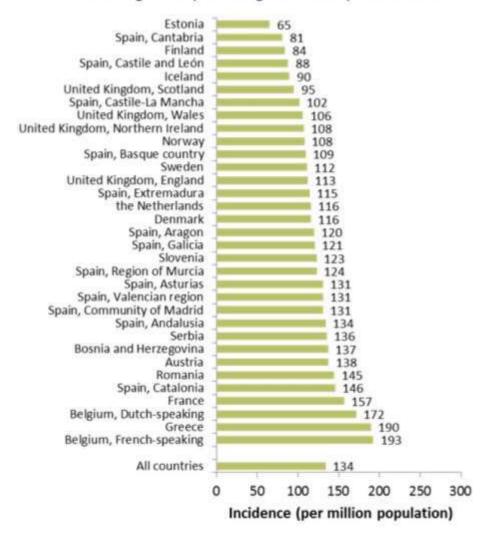


by country, adjusted for age and gender

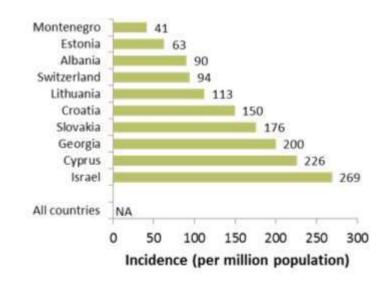


#### Adjusted incidence, by country

renal registries providing individual patient data



#### Adjusted incidence, by country

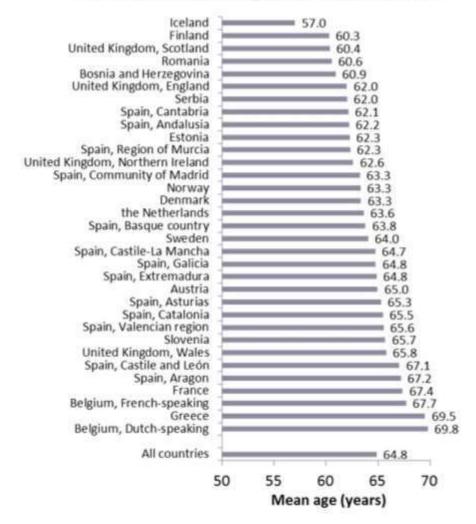


mean age

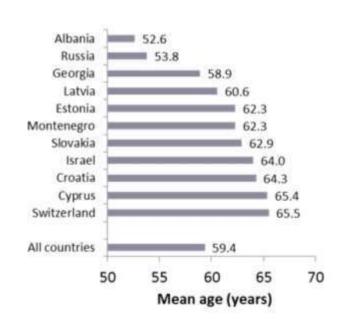


#### Mean age at start RRT

renal registries providing individual patient data



#### Mean age at start RRT



mean age by gender



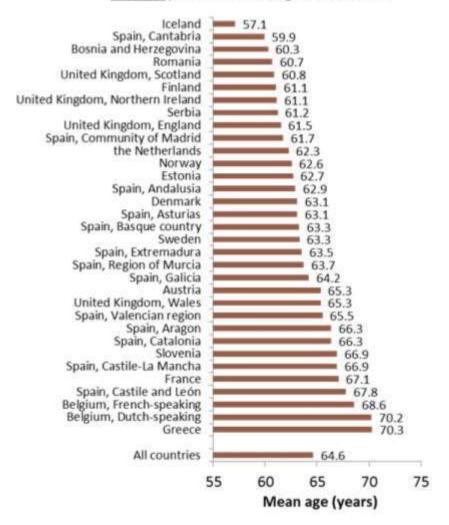
#### Mean age at start RRT

male patients starting RRT in 2013

#### Iceland 57.0 Finland United Kingdom, Scotland 60.0 Romania Bosnia and Herzegovina Spain, Region of Murcia Spain, Andalusia Estonia United Kingdom, England 62.3 Serbia Spain, Cantabria United Kingdom, Northern Ireland Denmark Spain, Castile-La Mancha Norway Spain, Basque country Spain, Community of Madrid Sweden the Netherlands Austria 64.8 Slovenia Spain, Catalonia Spain, Galicia Spain, Extremadura Spain, Valencian region United Kingdom, Wales Spain, Asturias Spain, Castile and León Belgium, French-speaking Spain, Aragon Greece Belgium, Dutch-speaking All countries 65.0 55 70 75 60 Mean age (years)

#### Mean age at start RRT

female patients starting RRT in 2013

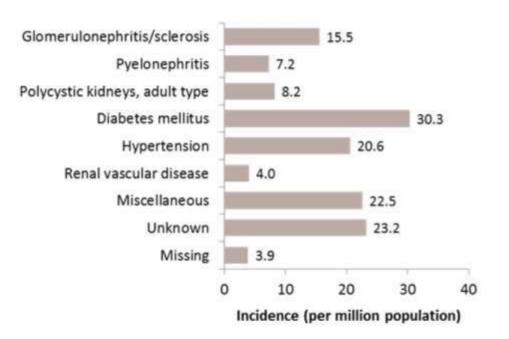


by cause of renal failure

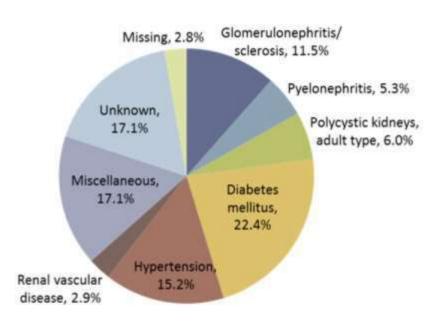


#### Incidence, by cause of renal failure

all patients starting RRT in 2013



#### Incidence, by cause of renal failure



by cause of renal failure and age category



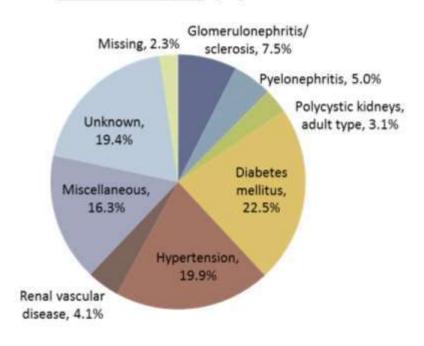
#### Incidence, by cause of renal failure

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

#### Missing, 3.5% Glomerulonephritis/ sclerosis, 16.6% Unknown, 14.3% Pyelonephritis, 5.8% Miscellaneous. Polycystic kidneys, 17.1% adult type, 9.7% Diabetes mellitus, 22.2% Renal vascular disease, 1.4% Hypertension, 9.3%

#### Incidence, by cause of renal failure

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

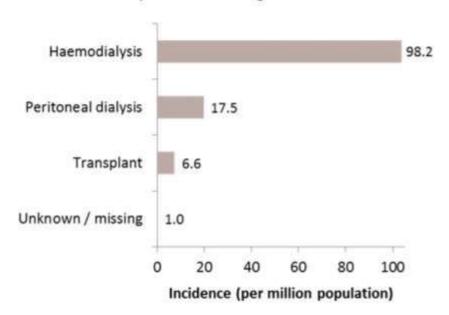


by established modality

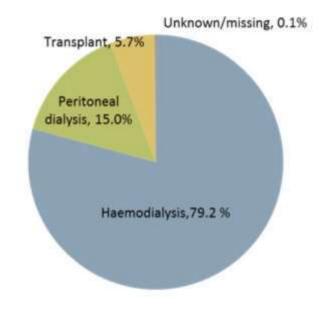


#### Incidence at day 91, by established modality

all patients starting RRT in 2013



#### Incidence at day 91, by established modality



by established modality and age category



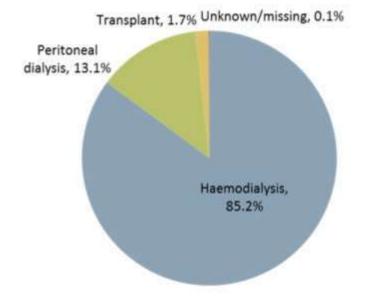
#### Incidence at day 91, by established modality

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

# Peritoneal dialysis, 17.4% Haemodialysis, 71.9%

#### Incidence at day 91, by established modality

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

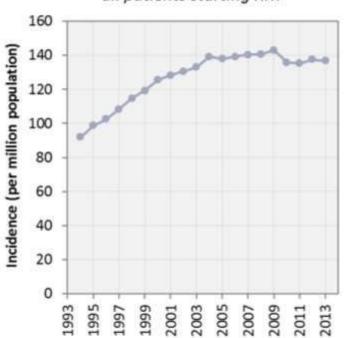


last 20 years (1994-2013)

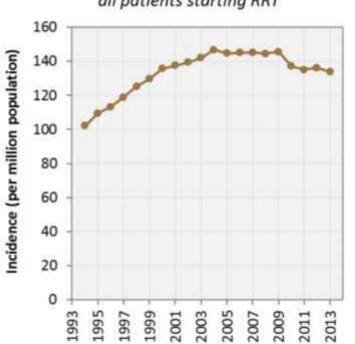


#### Unadjusted incidence over time

all patients starting RRT



#### Adjusted incidence over time



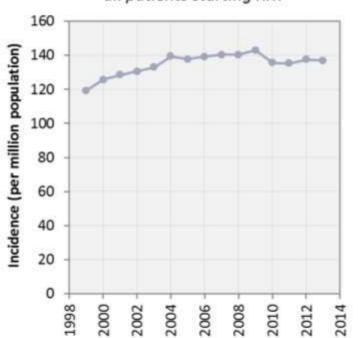


last 15 years (1999-2013)

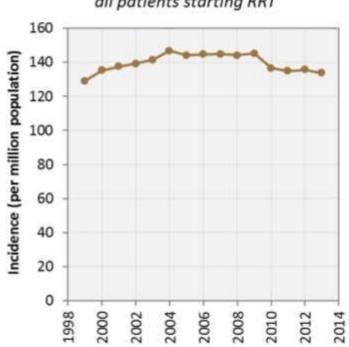


#### Unadjusted incidence over time

all patients starting RRT



#### Adjusted incidence over time



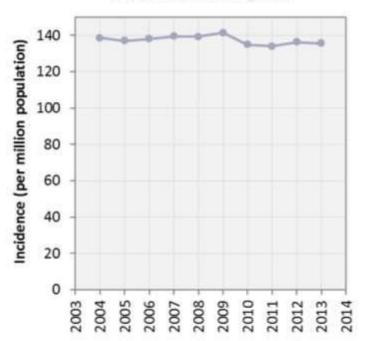


last 10 years (2004-2013)

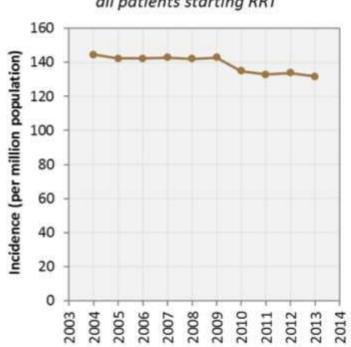


#### Unadjusted incidence over time

all patients starting RRT



#### Adjusted incidence over time



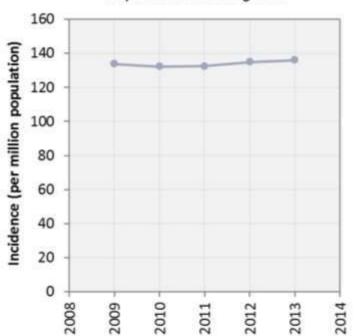


last 5 years (2009-2013)

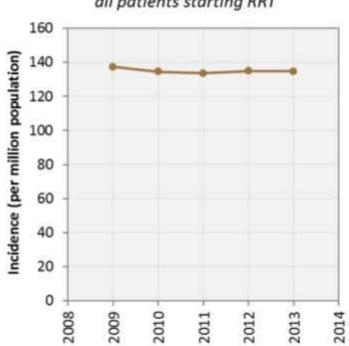


#### Unadjusted incidence over time

all patients starting RRT



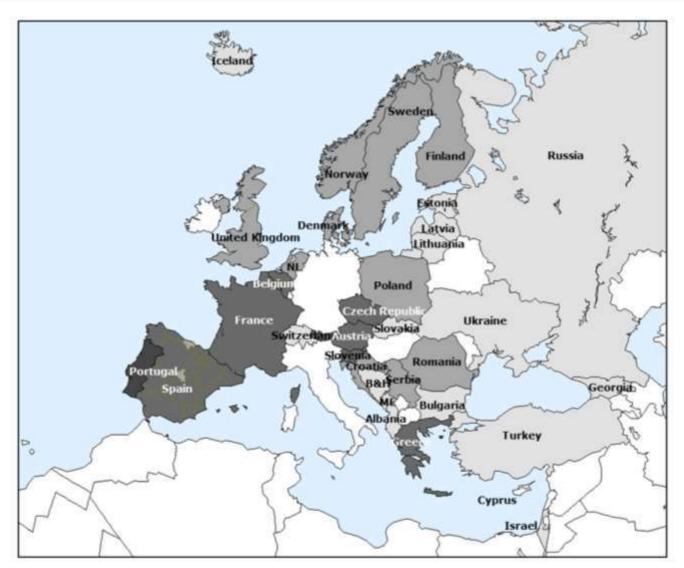
#### Adjusted incidence over time





by country





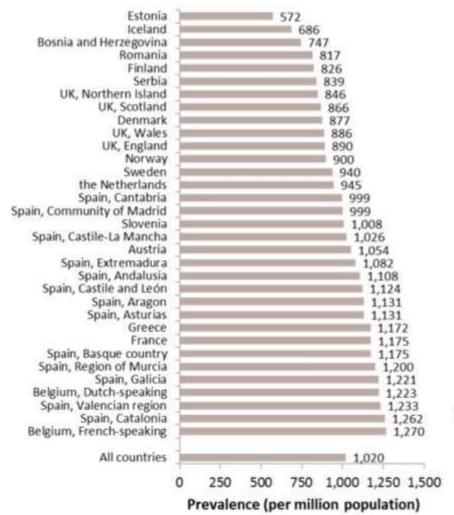
- ≤750 pmp
- 750-1000 pmp
- 1000-1500 pmp
- >1500 pmp
  - No data available

by country

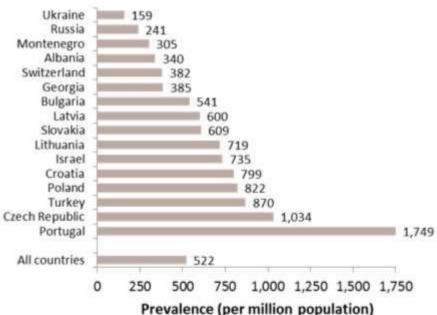


#### Unadjusted prevalence, by country

renal registries providing individual patient data



#### Unadjusted prevalence, by country

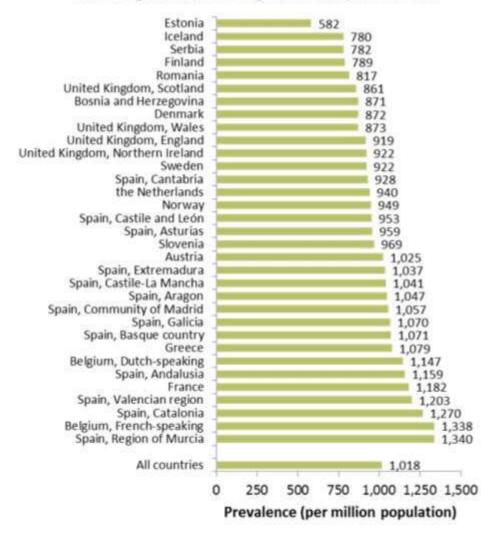


by country, adjusted for age and gender

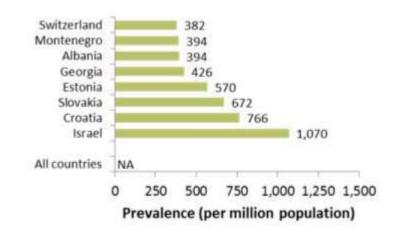


#### Adjusted prevalence, by country

renal registries providing individual patient data



#### Adjusted prevalence, by country



mean age at December 31

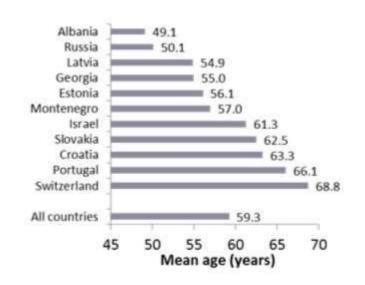


#### Mean age at 31 December 2013

renal registries providing individual patient data



#### Mean age at 31 December 2013

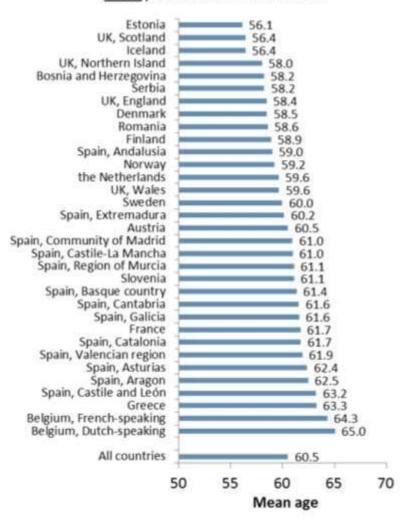


mean age by gender at December 31



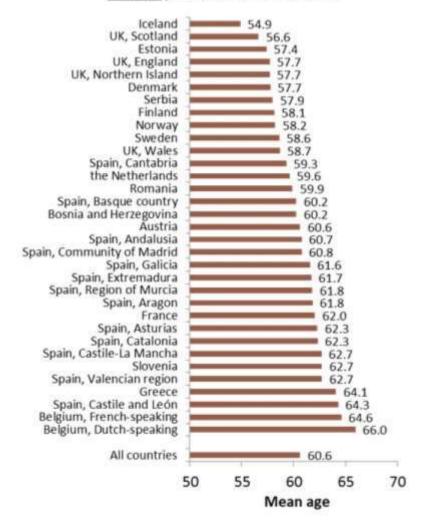
#### Mean age at 31 December 2013

male patients on RRT in 2013



#### Mean age at 31 December 2013

female patients on RRT in 2013



by cause of renal failure



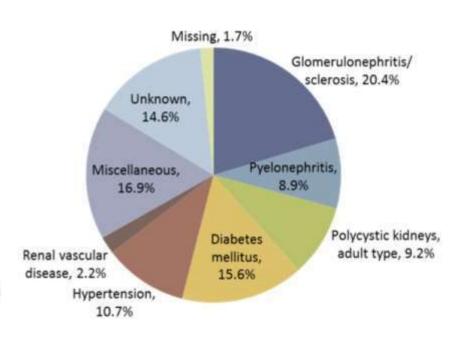
#### Prevalence, by cause of renal failure

all patients on RRT in 2013

#### Glomerulonephritis/sclerosis 207.6 Pyelonephritis 90.3 Polycystic kidneys, adult type 93.4 Diabetes mellitus 159.1 Hypertension 108.6 Renal vascular disease 22.3 Miscellaneous 172.0 149.3 Unknown 17.1 Missing 0.0 50.0 150.0 200.0 250.0 100.0 Prevalence (per million population)

#### Prevalence, by cause of renal failure

all patients on RRT in 2013



by cause of renal failure and age category



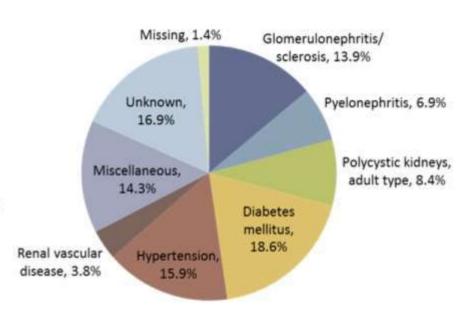
#### Prevalence, by cause of renal failure

patients younger than 65 years of age in 2013

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

#### Prevalence, by cause of renal failure

patients older than 65 years of age in 2013

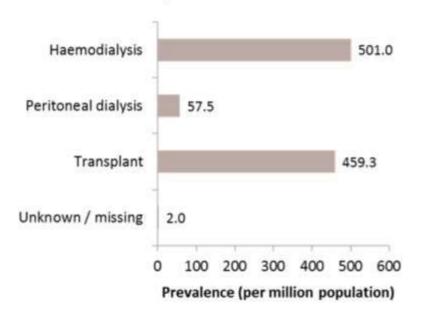


by established modality



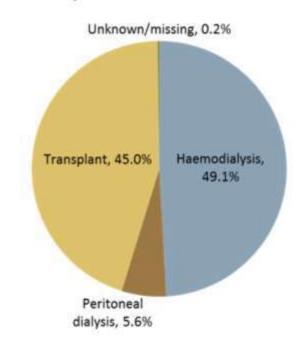
#### Prevalence, by established modality

all patients on RRT in 2013



#### Prevalence, by established modality

all patients on RRT in 2013

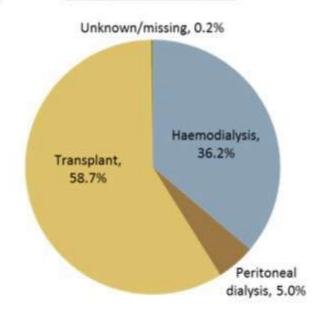


by established modality and age category



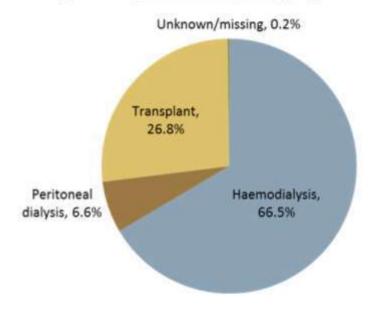
#### Prevalence, by established modality

patients younger than 65 years in 2013



#### Prevalence, by established modality

patients older than 65 years of age in 2013



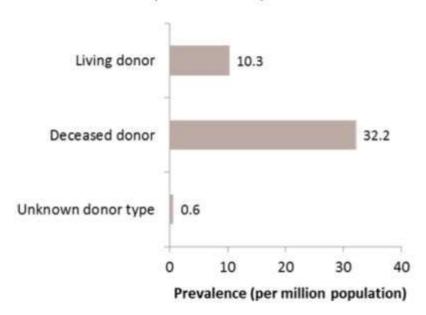
#### Renal transplants performed in 2013

by donor type



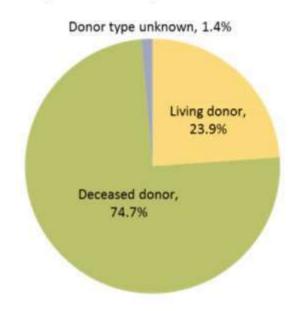
#### Transplantation activity, by donor type

all patients transplanted in 2013



#### Transplantation activity, by donor type

all patients transplanted in 2013



#### Renal transplants performed in 2013

by donor type and age category



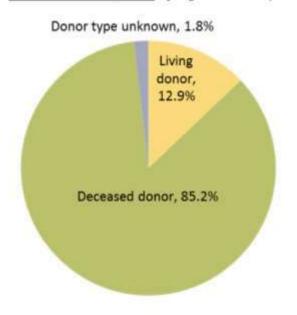
#### Transplantation activity, by donor type

patients younger than 65 years of age at transplantation

# Living donor, 26.5% Deceased donor, 72.2%

#### Transplantation activity, by donor type

patients older than 65 years of age at transplantation



#### Survival probability

by modality

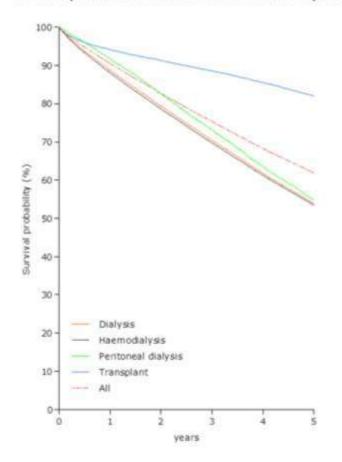


#### Adjusted survival\* (cohort 2004-2008)

incident dialysis patients and patients receiving a first transplant

from day 91, by modality adjusted for age, gender and cause of renal failure

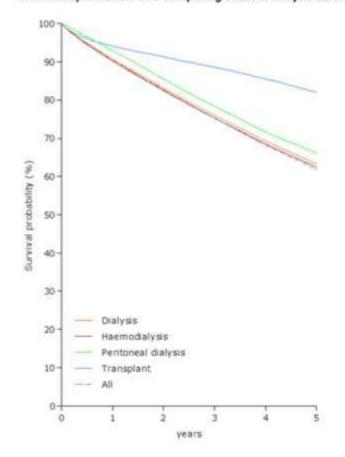
\*with transplantation as a censored observation in dialysis survival



#### Adjusted survival\* (cohort 2004-2008)

incident dialysis patients and patients receiving a first transplant

from day 91, by modality adjusted for age, gender and cause of renal failure \*with transplantation as a competing event in dialysis survival



#### Survival probability

by modality and primary diagnosis

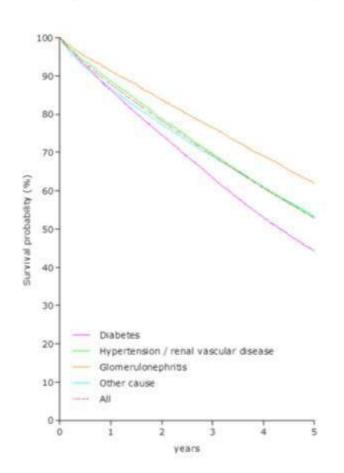


#### Adjusted survival\* (cohort 2004-2008)

incident haemodialysis patients

from day 91, by modality adjusted for age, gender and cause of renal failure

\*with transplantation as a censored observation in dialysis survival

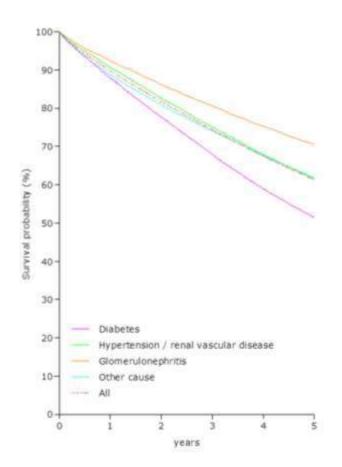


#### Adjusted survival\* (cohort 2004-2008)

incident haemodialysis patients

from day 91, by modality adjusted for age, gender and cause of renal failure

\* with transplantation as a competing event in dialysis survival



#### Survival probability

by modality and primary diagnosis

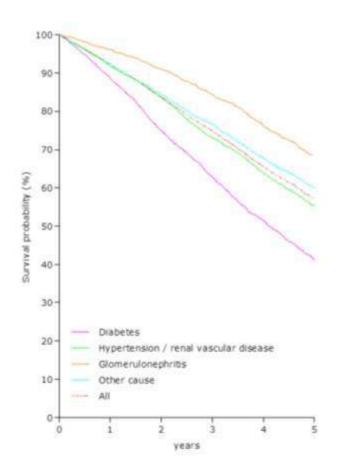


#### Adjusted survival\* (cohort 2004-2008)

incident peritoneal dialysis patients

from day 91, by modality adjusted for age, gender and cause of renal failure

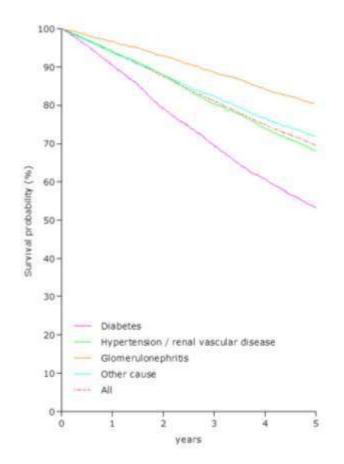
\*with transplantation as a censored observation in dialysis survival



#### Adjusted survival\* (cohort 2004-2008)

incident peritoneal dialysis patients

from day 91, by modality adjusted for age, gender and cause of renal failure \*with transplantation as a competing event in dialysis survival



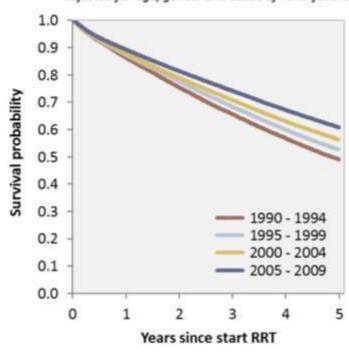
#### Patient survival on renal replacement therapy

by cohort



#### Patient survival: incident RRT patients

adjusted for age, gender and cause of renal failure



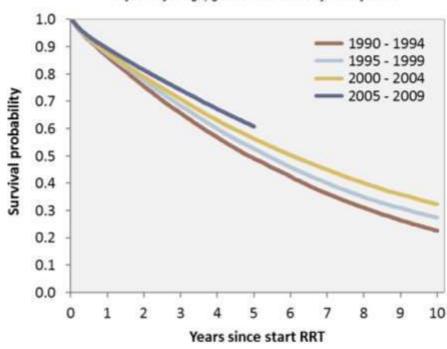
Analyses included data from the following countries and regions: Austria, Belgium (French-speaking part), Denmark, Finland, Greece, Iceland, the Netherlands, Norway, Andalusia (Spain), Catalonia (Spain), and Scotland (UK).

### Patient survival on renal replacement therapy by cohort



#### Patient survival: incident RRT patients

adjusted for age, gender and cause of renal failure

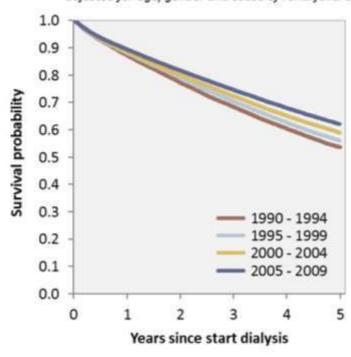


Analyses included data from the following countries and regions: Austria, Belgium (French-speaking part), Denmark, Finland, Greece, Iceland, the Netherlands, Norway, Andalusia (Spain), Catalonia (Spain), and Scotland (UK).



#### Patient survival: incident dialysis patients

adjusted for age, gender and cause of renal failure



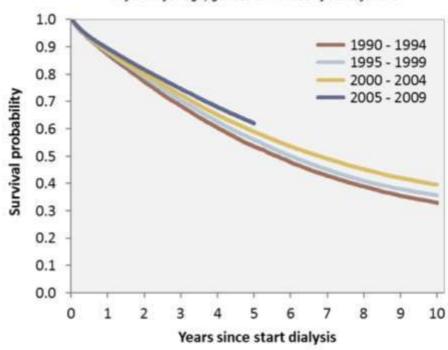
Survival was examined using the Fine and Gray competing risk method, with kidney transplantation as competing event.

Analyses included data from the following countries and regions: Austria, Belgium (French-speaking part), Denmark, Finland, Greece, Iceland, the Netherlands, Norway, Andalusia (Spain), Catalonia (Spain), and Scotland (UK).



#### Patient survival: incident dialysis patients

adjusted for age, gender and cause of renal failure



Survival was examined using the Fine and Gray competing risk method, with kidney transplantation as competing event.

Analyses included data from the following countries and regions: Austria, Belgium (French-speaking part), Denmark, Finland, Greece, Iceland, the Netherlands, Norway, Andalusia (Spain), Catalonia (Spain), and Scotland (UK).

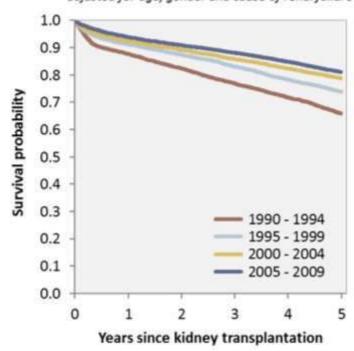
#### Patient survival after first kidney transplantation

by cohort



#### Patient survival: after first kidney transplantation





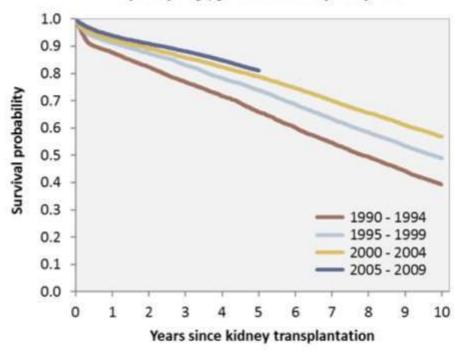
Analyses included data from the following countries and regions: Austria, Belgium (French-speaking part), Denmark, Finland, Greece, Iceland, the Netherlands, Norway, Andalusia (Spain), Catalonia (Spain), and Scotland (UK).

### Patient survival after first kidney transplantation by cohort



#### Patient survival: after first kidney transplantation

adjusted for age, gender and cause of renal failure



Analyses included data from the following countries and regions: Austria, Belgium (French-speaking part), Denmark, Finland, Greece, Iceland, the Netherlands, Norway, Andalusia (Spain), Catalonia (Spain), and Scotland (UK).