

Supplementary Table 1. List of diagnoses and procedures and their corresponding codes

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|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chronic kidney disease (ICD-10 codes) | N18.1, N18.2, N18.3, N18.4, N18.5, N18.9 |
| ESKD-related procedure (procedure codes) | O2013 Artificial kidney dialysis [per one time] O2014 Materials used for artificial kidney dialysis and drug cost [per one time] O2016 Peritoneal dialysis [per one time] O7020 Hemodialysis [per session] O7021 Materials and drugs used for hemodialysis (excluding dialysis fluid) [per session] O7075 Continuous peritoneal perfusion-dialysis fluid exchange or catheter cleaning [per day] O7076 Continuous peritoneal perfusion-dialysis fluid exchange or catheter cleaning [per day]- automatic peritoneal dialysis O7077 Continuous peritoneal perfusion-dialysis fluid exchange or catheter cleaning [per day]- non-automatic peritoneal dialysis O9991 Hemodialysis |
| Special exemption codes | V001 Hemodialysis V003 Peritoneal dialysis V005 Kidney transplant |
| Mortality (ICD-10 codes) | |
| Cardiovascular disease | I00-I99 |
| Diabetes & Endocrine disease | E00-E90 |
| Kidney & genitourinary disease | N00-N99 |
| Malignancy | C00-C97 |
| Pneumonia | J12-J18 |

ICD-10, International Classification of Disease, 10th edition; ESKD, end-stage kidney disease.

Supplementary Table 2. Incidence, prevalence, and mortality rates of end-stage kidney disease

| | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---------------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Incidence rate (per 100,000 individuals) | | | | | | | | | | |
| 20–44 yr | 9.3 | 8.9 | 8.5 | 8.2 | 6.5 | 10.1 | 5.3 | 9.0 | 5.2 | 7.1 |
| 45–64 yr | 38.2 | 34.6 | 30.9 | 34.1 | 31.5 | 26.1 | 26.9 | 25.5 | 27.0 | 22.5 |
| 65–74 yr | 74.6 | 93.4 | 99.6 | 110.4 | 68.2 | 69.9 | 79.4 | 79.7 | 73.0 | 68.9 |
| ≥75 yr | 58.5 | 88.0 | 69.4 | 124.7 | 85.5 | 95.3 | 85.1 | 97.0 | 123.0 | 122.9 |
| All ages | 28.6 | 30.4 | 28.3 | 32.9 | 25.0 | 25.6 | 23.7 | 25.8 | 25.1 | 24.0 |
| Prevalence rate (per 100,000 individuals) | | | | | | | | | | |
| 20–44 yr | - | 17.1 | 23.4 | 28.9 | 32.5 | 41.8 | 44.2 | 49.3 | 50.9 | 52.8 |
| 45–64 yr | - | 48.7 | 64.8 | 80.0 | 95.0 | 101.1 | 110.5 | 118.0 | 125.0 | 126.6 |
| 65–74 yr | - | 159.1 | 245.2 | 313.0 | 332.7 | 353.5 | 378.2 | 407.7 | 420.4 | 420.2 |
| ≥75 yr | - | 153.4 | 192.2 | 291.7 | 335.3 | 364.0 | 382.9 | 418.4 | 465.2 | 527.1 |
| All ages | - | 57.8 | 78.5 | 100.4 | 113.7 | 124.4 | 132.6 | 143.9 | 152.2 | 157.1 |
| Mortality rate (per 100 patients with ESKD) | | | | | | | | | | |
| 20–44 yr | - | 1.4 | 3.1 | 0.0 | 0.8 | 1.8 | 1.7 | 1.6 | 2.6 | 1.5 |
| 45–64 yr | - | 9.3 | 9.2 | 5.4 | 4.1 | 5.9 | 5.5 | 4.8 | 7.2 | 5.6 |
| 65–74 yr | - | 11.0 | 16.1 | 11.8 | 17.2 | 15.0 | 9.8 | 12.0 | 12.5 | 9.6 |
| ≥75 yr | - | 22.2 | 19.4 | 22.2 | 28.3 | 20.2 | 22.8 | 25.0 | 20.3 | 20.1 |
| All ages | - | 5.4 | 6.9 | 3.7 | 4.6 | 4.6 | 4.3 | 4.4 | 5.3 | 4.3 |

ESKD, end-stage kidney disease.

Supplementary Table 3. Mean age of the study population and end-stage kidney disease diagnosis (years)

| | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------------|------|------|------|------|------|------|------|------|------|------|
| Total population | 44.0 | 44.6 | 45.0 | 45.4 | 45.8 | 46.2 | 46.5 | 46.8 | 47.2 | 47.5 |
| Mean age of ESKD diagnosis | 56.3 | 59.8 | 59.8 | 62.1 | 60.5 | 60.5 | 62.8 | 62.0 | 64.8 | 65.3 |
| With diabetes mellitus | 59.1 | 60.1 | 60.4 | 64.0 | 61.3 | 62.2 | 64.0 | 62.8 | 65.6 | 66.3 |
| Without diabetes mellitus | 52.6 | 59.1 | 58.2 | 56.4 | 58.3 | 54.7 | 58.0 | 58.1 | 60.6 | 60.8 |

ESKD, end-stage kidney disease.

Supplementary Table 4. Prevalence of diabetic kidney disease in people with diabetes mellitus (per 100 people with diabetes)

| | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|------------------------------|------|------|------|------|------|------|------|------|------|------|
| Crude rate | | | | | | | | | | |
| Total | 8.6 | 8.5 | 8.6 | 8.8 | 8.8 | 8.5 | 8.8 | 9.7 | 11.1 | 12.3 |
| Men | 8.6 | 8.8 | 8.9 | 9.2 | 9.3 | 8.9 | 9.4 | 10.1 | 11.6 | 12.9 |
| Women | 8.5 | 8.2 | 8.3 | 8.3 | 8.4 | 8.1 | 8.1 | 9.2 | 10.5 | 11.6 |
| Age-standardized rate | | | | | | | | | | |
| Total | 8.4 | 8.4 | 8.5 | 8.7 | 8.8 | 8.5 | 8.8 | 9.7 | 11.2 | 12.4 |
| Men | 8.6 | 8.8 | 8.9 | 9.2 | 9.3 | 8.9 | 9.4 | 10.1 | 11.6 | 12.9 |
| Women | 8.1 | 8.1 | 8.1 | 8.2 | 8.4 | 8.1 | 8.1 | 9.3 | 10.6 | 11.8 |

Standardized as population in 2011.