Appendix Table 1. Classification of causes of death using ICD-10 diagnosis codes, and number and percentage of deaths attributed to each cause, by sex.

| Cause of death       | ICD-10-AM code | Description                                                                 | Females | Males |
|----------------------|----------------|-----------------------------------------------------------------------------|---------|-------|
|                      |                |                                                                             | n (%)   | n (%) |
| Cancer               |                |                                                                             |         |       |
| C00-C97              | D00-D09        | Neoplasms                                                                   | 1,349 (8.9) | 2,532 (11.9) |
|                      | D10-D36        | In situ neoplasms                                                           | * (<0.1) | 0 -  |
|                      | D37-D48        | Benign neoplasms                                                            | * (<0.1) | * (<0.1) |
|                      |                | Other neoplasms of uncertain or unknown behaviour (including myelodysplastic syndromes) | 14 (0.1) | 50 (0.2) |
| Cardiovascular       | I10            | Primary hypertension                                                        | 12 (0.1) | * (<0.1) |
| disease              | I11            | Hypertensive heart disease                                                  | 12 (0.1) | 31 (0.1) |
|                      | I20-I25        | Ischaemic heart diseases                                                    | 2,184 (14.4) | 4,091 (19.3) |
|                      | I30-I52        | Other forms of heart disease (including nonrheumatic valve disorders, cardiomyopathy, heart failure) | 426 (2.8) | 761 (3.6) |
|                      | I60-I69        | Cerebrovascular diseases                                                    | 509 (3.3) | 508 (2.4) |
|                      | I70-I79        | Diseases of arteries, arterioles and capillaries (including atherosclerosis, aneurysms and dissections, peripheral vascular diseases) | 305 (2.0) | 502 (2.4) |
|                      | I95-I99        | Other and unspecified disorders of circulatory system                       | * (<0.1) | * (<0.1) |
| Chronic kidney       | B52.0          | Plasmodium malariae malaria with nephropathy                                | 0 - | 0 - |
| disease              | D59.3          | Haemolytic-uraemic syndrome                                                 | * (0.1) | * (<0.1) |
|                      | E10.2          | Type 1 diabetes mellitus with kidney complication                           | 119 (0.8) | 117 (0.6) |
|                      | E11.2          | Type 2 diabetes mellitus with kidney complication                           | 807 (5.3) | 1,083 (5.1) |
|                      | E13.2          | Other specified diabetes mellitus with kidney complication                  | 0 - | * (<0.1) |
|                      | E14.2          | Unspecified diabetes mellitus with kidney complication                      | 182 (1.2) | 234 (1.1) |
|                      | I12            | Hypertensive kidney disease                                                 | 648 (4.3) | 811 (3.8) |
|                      | I13            | Hypertensive heart and kidney disease                                       | 71 (0.5) | 125 (0.6) |
|                      | N00-N08        | Glomerular Diseases                                                         | 833 (5.5) | 899 (4.2) |
| Code | Description | E10 (except E10.2) | E11 (except E11.2) | E12 | E13 (except E13.2) | E14 (except E14.2) | KS0-KS14 | KS20-KS31 | KS35-KS38 | KS40-KS46 | KS50-KS52 |
|------|-------------|--------------------|--------------------|-----|-------------------|-------------------|--------|--------|--------|--------|--------|
| N10-N16 (except N13) | Renal tubulo-interstitial diseases | 410 (2.7) | 113 (0.5) | 1,867 (12.3) | 2,505 (11.8) | * (<0.1) | * (<0.1) | 31 (0.2) | 50 (0.2) | 148 (1.0) | 151 (0.7) |
| N17-N19 | Renal failure |  |  |  |  |  |  |  |  |  |  |
| N25 | Disorders resulting from impaired renal tubular function |  |  |  |  |  |  |  |  |  |  |
| N26 | Unspecified contracted kidney | 31 (0.2) | 50 (0.2) |  |  |  |  |  |  |  |  |
| N27 | Small kidney of unknown cause |  |  |  |  |  |  |  |  |  |  |
| N28 | Other disorders of kidney and ureter, not elsewhere classified | 148 (1.0) | 151 (0.7) |  |  |  |  |  |  |  |  |
| Q60 | Renal agenesis and other reduction defects of kidney |  |  |  |  |  |  |  |  |  |  |
| Q61 | Cystic kidney disease | 273 (1.8) | 267 (1.3) |  |  |  |  |  |  |  |  |
| Q62 | Congenital obstructive defects of renal pelvis and congenital malformations of ureter |  |  |  |  |  |  |  |  |  |  |
| Q63 | Other congenital malformations of kidney |  |  |  |  |  |  |  |  |  |  |
| E10 (except E10.2) | Type 1 diabetes mellitus | 203 (1.3) | 331 (1.6) |  |  |  |  |  |  |  |  |
| E11 (except E11.2) | Type 2 diabetes mellitus | 680 (4.5) | 930 (4.4) |  |  |  |  |  |  |  |  |
| E12 | Malnutrition-related diabetes mellitus | 0 - | 0 - |  |  |  |  |  |  |  |  |
| E13 (except E13.2) | Other specified diabetes mellitus | 26 (0.2) | 48 (0.2) |  |  |  |  |  |  |  |  |
| E14 (except E14.2) | Unspecified diabetes mellitus | 860 (5.7) | 1,209 (5.7) |  |  |  |  |  |  |  |  |
| K00-K14 | Inflammatory conditions of oral cavity, salivary glands and jaws | * (<0.1) | 0 - |  |  |  |  |  |  |  |  |
| K20-K31 | Diseases of oesophagus, stomach and duodenum (including duodenal ulcers, gastric ulcers, peptic ulcers, oesophagitis) | 46 (0.3) | 61 (0.3) |  |  |  |  |  |  |  |  |
| K35-K38 | Appendicitis | * (<0.1) | * (<0.1) |  |  |  |  |  |  |  |  |
| K40-K46 | Hernia | 21 (0.1) | * (<0.1) |  |  |  |  |  |  |  |  |
| K50-K52 | Noninfective enteritis and colitis (including Crohn’s disease, ulcerative colitis, noninfective gastroenteritis and colitis) | 13 (0.1) | 14 (0.1) |  |  |  |  |  |  |  |  |
| Code   | Description                                                                                     | 2007 | 2008 |
|--------|-----------------------------------------------------------------------------------------------|------|------|
| K55-K64| Other diseases of intestines (including vascular disorders of intestine, paralytic ileus, diverticular disease) | 318  | 304  |
| K65-K67| Peritonitis and other disorders of peritoneum                                                   | 79   | 75   |
| K70-K77| Diseases of liver (including liver disease, hepatic failure, fibrosis and cirrhosis of liver)  | 46   | 111  |
| K80-K87| Disorders of gallbladder, biliary tract and pancreas (including cholelithiasis, cholecystitis, pancreatitis) | 95   | 111  |
| K90-K93| Other diseases of the digestive system                                                          | 39   | 49   |
| J00-J06| Acute upper respiratory infections                                                             | *    | *    |
| J09-J18| Influenza and pneumonia                                                                         | 121  | 157  |
| J20-J22| Other acute lower respiratory infections                                                         | *    | 14   |
| J30-J39| Other diseases of upper respiratory tract                                                        | *    | *    |
| J40-J47| Chronic lower respiratory diseases                                                              | 169  | 247  |
| J60-J70| Lung diseases due to external agents                                                            | 17   | 44   |
| J80-J84| Other respiratory diseases principally affecting the interstitium                                 | 26   | 38   |
|       | Suppurative and necrotic conditions of lower respiratory tract                                  | *    | *    |
| J85-J86| Other diseases of pleura                                                                        | *    | *    |
| J90-J94| Other diseases of the respiratory system                                                         | 29   | 33   |
| J95-J99| Other diseases of the respiratory system                                                         | 2,164 | 2,547 |

**Other**

| Code   | Description                                                                                                                                                                                                 | 2007 | 2008 |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| A00-A99, B00-B99 (except B52.0) | Certain infectious and parasitic diseases (including bacterial diseases, intestinal infectious diseases, tuberculosis)                                                                                       | 322  | 432  |
| S00-S99, T00-T98, V01-V99, W00-W99, X00-X99, Y00-Y98 | External causes of morbidity and mortality (including accidents, self-harm, injuries, trauma, assault, poisoning of unknown intent, poisoning by drugs and biological substances, toxic effects of non-medicinal substances, adverse events relating to surgical and medical care) | 283  | 420  |
| Code                                                                 | Description                                                                                                                                  | M00-M99 (count) | E00-E07, E15-E90 (count) |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|
| M00-M99                                                             | Diseases of the musculoskeletal system and connective tissue (including systemic lupus erythematosus, systemic sclerosis, necrotizing vasculopathies) | 418 (2.7)      | 346 (1.6)                |
| E00-E07, E15-E90                                                    | Endocrine, nutritional and metabolic diseases (including amyloidosis, disorders of mineral metabolism, hyperparathyroidism)                  | 259 (1.7)      | 282 (1.3)                |
| G00-G99                                                             | Undefined COD                                                                                                                                   | 156 (1.0)      | 242 (1.1)                |
| G00-G99                                                             | Diseases of the nervous system (including transient cerebral ischaemic attacks and related syndromes, anoxic brain damage, intracranial and intraspinal abscess and granuloma) | 123 (0.8)      | 180 (0.8)                |
| N13, N20-N23, N29, N30-N99                                         | Diseases of the genitourinary system (including obstructive and reflux uropathy, and urolithiasis)                                            | 178 (1.2)      | 154 (0.7)                |
| I00-I09, I14-I15, I26-I28, I80-I89                                  | Other diseases relating to the circulatory system (including acute rheumatic fever, chronic rheumatic heart disease, pulmonary heart disease)  | 137 (0.9)      | 127 (0.6)                |
| D50-D89 (except D59.3)                                              | Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (including immunodeficiencies, purpura and other haemorrhagic conditions, coagulation defects) | 98 (0.6)       | 102 (0.5)                |
| L00-L99                                                             | Diseases of the skin and subcutaneous tissue (including infections of the skin and subcutaneous tissue, lupus erythematosus, ulcers of lower limbs) | 60 (0.4)       | 86 (0.4)                 |
| Q00-Q56, Q65-Q99                                                    | Congenital malformations, deformations and chromosomal abnormalities                                                                           | 33 (0.2)       | 64 (0.3)                 |
| F00-F99                                                             | Mental and behavioural disorders (including dementia, bipolar disorder, eating disorders)                                                     | 53 (0.3)       | 52 (0.2)                 |
| R00-R99                                                             | Symptoms, sign and abnormal clinical and laboratory findings without diagnosis                                                                  | 25 (0.2)       | 31 (0.1)                 |
| Code  | Description                                                                 | Count | Percentage |
|-------|-----------------------------------------------------------------------------|-------|------------|
| H00-H95 | Diseases of the eye and adnexa (including endophthalmitis) and Diseases of the ear and mastoid process (including myringitis) | 16 (0.1) | 27 (0.1) |
| P00-P96 | Conditions and disorders originating in the perinatal period               | 0 -   | * (<0.1)   |
| O94-O99 | Death from obstetric cause                                                 | * (<0.1) | 0 -        |

*Small values have been suppressed to prevent re-identification.
Appendix Table 2. Absolute counts and percentage of deaths attributed to each cause by sex and modality at death.

| Cause of death                      | Females |          | Males |          |
|------------------------------------|---------|----------|-------|----------|
|                                    | n (%)   | n (%)    |       | n (%)    |
| A) Peritoneal dialysis              |         |          |       |          |
| Cancer                             | 248 (5.5) | 424 (7.8) |       |          |
| Cardiovascular disease             | 1,024 (22.6) | 1,549 (28.3) |       |          |
| Chronic kidney disease             | 1,769 (39.1) | 1,857 (33.9) |       |          |
| Diabetes                           | 657 (14.5) | 841 (15.4) |       |          |
| Gastrointestinal disease           | 189 (4.2) | 150 (2.7) |       |          |
| Respiratory                        | 74 (1.6) | 112 (2.1) |       |          |
| Other                              | 562 (12.4) | 538 (9.8) |       |          |
| B) Haemodialysis                   |         |          |       |          |
| Cancer                             | 772 (8.3) | 1,501 (11.1) |       |          |
| Cardiovascular disease             | 2,108 (22.7) | 3,813 (28.1) |       |          |
| Chronic kidney disease             | 3,318 (35.7) | 4,116 (30.3) |       |          |
| Diabetes                           | 1,059 (11.4) | 1,572 (11.6) |       |          |
| Gastrointestinal disease           | 402 (4.3) | 516 (3.8) |       |          |
| Respiratory                        | 270 (2.9) | 409 (3.0) |       |          |
| Other                              | 1,356 (14.6) | 1,649 (12.2) |       |          |
| C) Deceased kidney transplant      |         |          |       |          |
| Cancer                             | 287 (23.8) | 543 (29.4) |       |          |
| Cardiovascular disease             | 282 (23.4) | 476 (25.8) |       |          |
| Chronic kidney disease             | 287 (23.8) | 350 (19.0) |       |          |
| Diabetes                           | * (3.4) | * (4.8) |       |          |
| Gastrointestinal disease           | * (5.3) | * (3.3) |       |          |
| Respiratory                        | * (3.0) | * (1.8) |       |          |
| Other                              | 208 (17.3) | 294 (15.9) |       |          |
| D) Living kidney transplant        |         |          |       |          |
| Cancer                             | 63 (30.6) | 119 (34.1) |       |          |
| Cardiovascular disease             | 38 (18.5) | 67 (19.2) |       |          |
| Chronic kidney disease             | 42 (20.4) | 63 (18.1) |       |          |
| Diabetes                           | * (5.8) | * (4.6) |       |          |
| Gastrointestinal disease           | * (3.4) | * (3.4) |       |          |
| Respiratory                        | * (2.9) | * (1.7) |       |          |
| Other                              | 38 (18.5) | 66 (18.9) |       |          |
| E) Overall                         |         |          |       |          |
| Cancer                             | 1,370 (9.0) | 2,587 (12.2) |       |          |
| Cardiovascular disease             | 3,452 (22.7) | 5,905 (27.8) |       |          |
| Chronic kidney disease             | 5,416 (35.6) | 6,386 (30.1) |       |          |
| Diabetes                           | 1,769 (11.6) | 2,518 (11.9) |       |          |
| Gastrointestinal disease           | 662 (4.4) | 738 (3.5) |       |          |
| Respiratory                        | 386 (2.5) | 561 (2.6) |       |          |
| Other                              | 2,164 (14.2) | 2,547 (12.0) |       |          |

*Small values have been suppressed to prevent re-identification.
Appendix Table 3. Top ten leading causes of death in patients receiving kidney replacement therapy in Australia and New Zealand, in: (A) Females and, (B) Males.

| # | ICD-10 | Description                                                                 | n (%)  |
|---|--------|------------------------------------------------------------------------------|--------|
| (A) Females | | | |
| 1. | E10-E14 | Diabetes                                                                 | 2559 (18) |
| 2. | I20-I25 | Coronary heart disease                                                     | 2083 (14) |
| 3. | N17–N19 | Kidney failure                                                            | 1845 (13) |
| 4. | N00–N08 | Glomerular disease                                                         | 806 (6) |
| 5. | I10–I15 | Hypertensive disease                                                       | 699 (5) |
| 6. | N10–N16 | Renal tubulo-interstitial disease                                         | 492 (3) |
| 7. | I60–I69 | Cerebrovascular disease                                                    | 483 (3) |
| 8. | M00–M99 | Diseases of the musculoskeletal system and connective tissue             | 390 (3) |
| | | P00-P96 (except Certain conditions originating in the perinatal          | 296 (2) |
| | | P28.5-P28.7, period, congenital malformations, deformations                |        |
| | | Q00-Q99 and chromosomal abnormalities                                        |        |
| 9. | K55, K57-K64 | Other diseases of intestines excl. paralytic ileus and intestinal obstruction without hernia | 267 (2) |
| (B) Males | | | |
| 1. | I20-I25 | Coronary heart disease                                                     | 3862 (19) |
| 2. | E10-E14 | Diabetes                                                                  | 3545 (18) |
| 3. | N17–N19 | Kidney failure                                                            | 2451 (12) |
| 4. | I10–I15 | Hypertensive disease                                                       | 912 (5) |
| 5. | N00–N08 | Glomerular disease                                                         | 846 (4) |
| 6. | I60–I69 | Cerebrovascular disease                                                    | 472 (2) |
| 7. | C88, C90 | Malignant immunoproliferative diseases, multiple myeloma and malignant plasma cell neoplasms | 423 (2) |
| | | Diseases of the musculoskeletal system and connective tissue              |        |
| 8. | M00–M99 | Certain conditions originating in the perinatal                            | 328 (2) |
| | | P00-P96 (except Certain conditions originating in the perinatal          |        |
| | | P28.5-P28.7, period, congenital malformations, deformations                |        |
| | | Q00-Q99 and chromosomal abnormalities                                        |        |
| 10. | C33-C34 | Lung cancer                                                               | 312 (2) |
Appendix Table 4. Top ten leading causes of death in patients receiving kidney replacement therapy in Australia and New Zealand, by sex and age at death.

| # | ICD-10 | Description | n (%) | # | ICD-10 | Description | n (%) |
|---|---|---|---|---|---|---|---|
| **Females** | | **0-17 years** | | **Males** | | **18-34 years** | |
| | | | | | | | |
| 1. | P00-P96 (except P28.5-P28.7), Q00-Q99 | Certain conditions originating in the perinatal period, congenital malformations, deformations and chromosomal abnormalities | 11 (22) | 1. | P00-P96 (except P28.5-P28.7), Q00-Q99 | Certain conditions originating in the perinatal period, congenital malformations, deformations and chromosomal abnormalities | 22 (41) |
| 2. | All remaining | Other COD | * (10) | 2. | N00-N08 | Glomerular disease | * (9) |
| 3. | M00-M99 | Diseases of the musculoskeletal system and connective tissue | * (8) | 3. | I42 | Cardiomyopathy | * (4) |
| 4. | N00-N08 | Glomerular disease | * (8) | 4. | I60-I69 | Cerebrovascular disease | * (4) |
| 5. | D55-D59 | Haemolytic anaemias | * (6) | 5. | N17-N19 | Kidney failure | * (4) |
| 6. | N17-N19 | Kidney failure | * (6) | 6. | C91-C95 | Leukaemia | * (4) |
| 7. | E70-E85, E88-E89 | Selected metabolic disorders excl. dehydration | * (6) | 7. | C81-C86, C96 | Lymphomas | * (4) |
| 8. | C64 | Kidney cancer | * (4) | 8. | All remaining | Other COD | * (4) |
| 9. | G90-G99 | Other disorders of the nervous system | * (4) | 9. | N10-N16 | Renal tubulo-interstitial disease | * (4) |
| 10. | N10-N16 | Renal tubulo-interstitial disease | * (4) | 10. | E70-E85, E88-E89 | Selected metabolic disorders excl. dehydration | * (4) |
| | | | | | | | |
| **18-34 years** | | | | | | | |
| 1. | E10-E14 | Diabetes | 65 (17) | 1. | E10-E14 | Diabetes | 54 (14) |
| 2. | M00-M99 | Diseases of the musculoskeletal system and connective tissue | 40 (11) | 2. | N00-N08 | Glomerular disease | 44 (11) |
| 3. | N00-N08 | Glomerular disease | 34 (9) | 3. | P00-P96 (except P28.5-P28.7), Q00-Q99 | Certain conditions originating in the perinatal period, congenital malformations, deformations and chromosomal abnormalities | 31 (8) |
| 4. | N17-N19 | Kidney failure | 30 (8) | 4. | N17-N19 | Kidney failure | 28 (7) |
| 5. | I20-I25 | Coronary heart disease | 20 (5) | 5. | I10-I15 | Hypertensive disease | 26 (7) |
| 6. | P00-P96 (except P28.5-P28.7), Q00-Q99 | Certain conditions originating in the perinatal period, congenital malformations, deformations and chromosomal abnormalities | 19 (5) | 6. | I20-I25 | Coronary heart disease | 23 (6) |
| 7. | N10-N16 | Renal tubulo-interstitial disease | 12 (3) | 7. | M00-M99 | Diseases of the musculoskeletal system and connective tissue | 18 (5) |
| 8. | All remaining | Other COD | 11 (3) | 8. | N10-N16 | Renal tubulo-interstitial disease | 11 (3) |
| 9. | I10-I15 | Hypertensive disease | * (3) | 9. | E70-E85, E88-E89 | Selected metabolic disorders excl. dehydration | 11 (3) |
| 10. | N25-N29 | Other kidney or ureter disorders | * (3) | 10. | N25-N29 | Other kidney or ureter disorders | * (3) |
| 35-49 years                                                                 |
|---------------------------------------------------------------------------|
| 1. E10–E14 Diabetes                                                    364 (28) | 1. E10–E14 Diabetes                                        443 (26) |
| 2. I20–I25 Coronary heart disease                                      138 (11) | 2. I20–I25 Coronary heart disease                          241 (14) |
| 3. N17–N19 Kidney failure                                              111 (8)  | 3. N17–N19 Kidney failure                                  128 (8)  |
| 4. N00–N08 Glomerular disease                                          83 (6)   | 4. N00–N08 Glomerular disease                              94 (6)   |
| 5. M00–M99 Diseases of the musculoskeletal system and connective tissue | 68 (5)   | 5. I10–I15 Hypertensive disease                           64 (4)   |
| 6. I60–I69 Cerebrovascular disease                                     48 (4)   | 6. I60–I69 Cerebrovascular disease                         45 (3)   |
| 7. I10–I15 Hypertensive disease                                        39 (3)   | 7. P00-P96 (except P28.5-P28.7), Q00-Q99 Certain conditions originating in the perinatal period, congenital malformations, deformations and chromosomal abnormalities | 41 (2) |
| 8. N10–N16 Renal tubulo-interstitial disease                           23 (2)   | 8. M00–M99 Diseases of the musculoskeletal system and connective tissue | 39 (2) |
| 9. E70-E85, E88-E89 Selected metabolic disorders excl. dehydration   23 (2)   | 9. All remaining Other COD                                  34 (2) |
| 10. N25–N29 Other kidney or ureter disorders                            22 (2)   | 10. N25–N29 Other kidney or ureter disorders                27 (2)   |

| 50-59 years                                                             |
|-------------------------------------------------------------------------|
| 1. E10–E14 Diabetes                                                    565 (25) | 1. E10–E14 Diabetes                                        737 (24) |
| 2. I20–I25 Coronary heart disease                                      331 (15) | 2. I20–I25 Coronary heart disease                          586 (19) |
| 3. N17–N19 Kidney failure                                              193 (9)  | 3. N17–N19 Kidney failure                                  211 (7)  |
| 4. N00–N08 Glomerular disease                                          156 (7)  | 4. N00–N08 Glomerular disease                              124 (4)  |
| 5. I10–I15 Hypertensive disease                                        81 (4)   | 5. I10–I15 Hypertensive disease                           105 (3)  |
| 6. I60–I69 Cerebrovascular disease                                     80 (4)   | 6. I60–I69 Cerebrovascular disease                         81 (3)   |
| 7. P00-P96 (except P28.5-P28.7), Q00-Q99 Certain conditions originating in the perinatal period, congenital malformations, deformations and chromosomal abnormalities | 58 (3) |
| 7. C88, C90 Malignant immunoproliferative diseases, multiple myeloma and malignant plasma cell neoplasms | 69 (2) |
| 8. M00–M99 Diseases of the musculoskeletal system and connective tissue | 57 (3)   | 8. M00–M99 Diseases of the musculoskeletal system and connective tissue | 58 (2) |
| 9. N10–N16 Renal tubulo-interstitial disease                           46 (2)   | 9. P00-P96 (except P28.5-P28.7), Q00-Q99 Certain conditions originating in the perinatal period, congenital malformations, deformations and chromosomal abnormalities | 57 (2) |
| 10. C88, C90 Malignant immunoproliferative diseases, multiple myeloma and malignant plasma cell neoplasms | 42 (2)   | 10. C33-C34 Lung cancer                                   51 (2) |
### 60-79 years

|   | Code   | Disease                                      | Count | Percent |
|---|--------|----------------------------------------------|-------|---------|
| 1 | E10-E14 | Diabetes                                     | 1423  | (17)    |
| 2 | I20-I25 | Coronary heart disease                       | 1347  | (16)    |
| 3 | N17-N19 | Kidney failure                               | 1069  | (12)    |
| 4 | N00-N08 | Glomerular disease                           | 493   | (6)     |
| 5 | I10-I15 | Hypertensive disease                         | 411   | (5)     |
| 6 | N10-N16 | Renal tubulo-interstitial disease            | 339   | (4)     |
| 7 | I60-I69 | Cerebrovascular disease                      | 274   | (3)     |
| 8 | M00-M99 | Diseases of the musculoskeletal system and    | 194   | (2)     |
|    |        | connective tissue                            |       |         |
| 9 | K55-K64| Other diseases of intestines excl. paralytic ileus and intestinal obstruction without hernia | 176   | (2)     |
| 10| P00-P96| Certain conditions originating in the perinatal period, congenital malformations, deformations and chromosomal abnormalities | 166   | (2)     |

### ≥80 years

|   | Code   | Disease                                      | Count | Percent |
|---|--------|----------------------------------------------|-------|---------|
| 1 | N17-N19| Kidney failure                               | 439   | (25)    |
| 2 | I20-I25| Coronary heart disease                       | 247   | (14)    |
| 3 | I10-I15| Hypertensive disease                         | 157   | (9)     |
| 4 | E10-E14| Diabetes                                     | 141   | (8)     |
| 5 | I60-I69| Cerebrovascular disease                      | 73    | (4)     |
| 6 | N10-N16| Renal tubulo-interstitial disease            | 70    | (4)     |
| 7 | K55-K64| Other diseases of intestines excl. paralytic ileus and intestinal obstruction without hernia | 38    | (2)     |
| 8 | N00-N08| Glomerular disease                           | 36    | (2)     |
| 9 | A40-A41| Septicaemia                                  | 36    | (2)     |
| 10| I72-I79| Diseases of arteries, arterioles and capillaries excl. atherosclerosis, aortic aneurysm and dissection | 32    | (2)     |

*Small values have been suppressed to prevent re-identification.
Appendix Table 5. Estimates of average life expectancy and years life lost (YLL) in people receiving kidney replacement therapy in Australia and New Zealand, by sex and age at: (A) initiation of kidney replacement therapy and; (B) first kidney transplant.

| Age    | Female                | Male                |
|--------|-----------------------|---------------------|
|        | Life expectancy      | Life years lost     | Life expectancy | Life years lost     |
|        |                      |                     |                 |                     |
| (A) Patients receiving kidney replacement therapy |                      |                     |                 |                     |
| 15-19  | 53.1 (52.9, 53.4)    | 33.2 (32.4, 34.0)   | 53.6 (53.4, 53.9) | 27.7 (27.0, 28.5)   |
| 20-24  | 49.6 (49.4, 49.8)    | 32.7 (32.1, 33.3)   | 50.5 (50.3, 50.7) | 26.8 (26.3, 27.3)   |
| 25-29  | 50.1 (49.5, 50.3)    | 32.4 (31.9, 33.0)   | 51.7 (51.6, 51.9) | 26.2 (25.7, 26.6)   |
| 30-34  | 52.2 (52.0, 52.4)    | 30.6 (30.1, 31.0)   | 53.2 (53.1, 53.3) | 25.1 (24.7, 25.5)   |
| 35-39  | 54.0 (53.8, 54.1)    | 29.2 (28.8, 29.6)   | 54.8 (54.7, 54.9) | 23.7 (23.4, 24.0)   |
| 40-44  | 56.3 (56.1, 56.4)    | 26.8 (26.5, 27.1)   | 57.0 (56.9, 57.1) | 22.3 (22.0, 22.6)   |
| 45-49  | 58.5 (58.4, 58.6)    | 25.1 (24.8, 25.4)   | 59.2 (59.1, 59.3) | 20.9 (20.6, 21.1)   |
| 50-54  | 61.4 (61.3, 61.4)    | 22.8 (22.5, 23.0)   | 61.7 (61.7, 61.8) | 19.1 (18.9, 19.3)   |
| 55-59  | 64.2 (64.2, 64.3)    | 20.1 (19.9, 20.3)   | 64.7 (64.6, 64.7) | 16.7 (16.5, 16.9)   |
| 60-64  | 67.7 (67.6, 67.7)    | 17.2 (17.1, 17.4)   | 67.8 (67.8, 67.9) | 14.3 (14.1, 14.4)   |
| 65-69  | 71.4 (71.4, 71.5)    | 14.1 (14.0, 14.3)   | 71.5 (71.5, 71.5) | 11.4 (11.3, 11.5)   |
| 70-74  | 75.4 (75.3, 75.4)    | 11.1 (11.0, 11.2)   | 75.4 (75.4, 75.4) | 8.7 (8.6, 8.8)      |
| 75-79  | 79.6 (79.6, 79.7)    | 8.2 (8.1, 8.3)      | 79.5 (79.5, 79.5) | 6.3 (6.2, 6.4)      |
| ≥80    | 83.8 (83.8, 83.9)    | 4.9 (4.8, 5.0)      | 83.6 (83.6, 83.7) | 3.7 (3.6, 3.8)      |

(B) Kidney transplant recipients

| Age    | Female                | Male                |
|--------|-----------------------|---------------------|
|        | Life expectancy      | Life years lost     | Life expectancy | Life years lost     |
|        |                      |                     |                 |                     |
| 15-19  | 71.3 (70.9, 71.9)    | 16.2 (14.6, 17.8)   | 71.9 (71.4, 72.4) | 9.8 (8.6, 11.1)     |
| 20-24  | 65.2 (64.8, 65.6)    | 16.2 (14.9, 17.4)   | 63.9 (63.5, 64.2) | 12.2 (11.3, 13.0)   |
| 25-29  | 64.2 (63.8, 64.6)    | 17.3 (16.3, 18.3)   | 64.2 (63.9, 64.5) | 12.8 (12.1, 13.5)   |
| 30-34  | 67.0 (66.6, 67.4)    | 14.9 (14.0, 15.9)   | 64.8 (64.6, 65.1) | 12.3 (11.7, 13.0)   |
| 35-39  | 67.3 (67.0, 67.7)    | 14.5 (13.7, 15.4)   | 66.3 (66.1, 66.6) | 10.9 (10.3, 11.5)   |
| 40-44  | 69.5 (69.1, 69.8)    | 12.5 (11.7, 13.3)   | 67.5 (67.3, 67.8) | 10.4 (9.9, 10.9)    |
| 45-49  | 71.5 (71.1, 71.8)    | 10.7 (10.0, 11.3)   | 69.3 (69.1, 69.6) | 9.0 (8.6, 9.5)      |
| Age Group | Average | Lower CI | Upper CI | Standard Deviation | Lower CI | Upper CI | Standard Deviation |
|-----------|---------|----------|----------|-------------------|----------|----------|-------------------|
| 50-54     | 73.5    | (73.2, 73.8) | (8.4, 9.5) | 71.5              | (71.2, 71.8) | (7.2, 8.0) | 7.6              |
| 55-59     | 75.0    | (74.6, 75.3) | (7.5, 8.7) | 73.5              | (73.2, 73.7) | (6.0, 6.8) | 6.4              |
| 60-64     | 78.4    | (78.0, 78.8) | (5.0, 6.1) | 76.3              | (76.1, 76.6) | (4.3, 5.1) | 4.7              |
| 65-69     | 82.1    | (81.7, 82.6) | (2.1, 3.5) | 79.6              | (79.3, 79.9) | (2.1, 3.0) | 2.6              |
| ≥70       | 84.8    | (71.4, 85.1) | (0.0, 2.0) | 83.0              | (71.3, 83.2) | (-0.2, 1.1) | 0.5              |
Appendix Table 6. Estimates of average life expectancy and years life lost (YLL) in people receiving kidney replacement therapy in Australia (1980-2019) and New Zealand (1988-2019), by sex and age of: (A) haemodialysis; (B) peritoneal dialysis; (C) deceased donor transplant and; (D) living donor transplant.

|       | Female Life expectancy | Female Life years lost | Male Life expectancy | Male Life years lost |
|-------|------------------------|------------------------|----------------------|----------------------|
|       |                        |                        |                      |                      |
| 15-19 | 42.4 (41.8, 42.8)      | 41.6 (40.7, 42.4)      | 41.0 (40.2, 41.0)    | 37.7 (36.9, 38.5)    |
| 20-24 | 42.0 (41.6, 42.5)      | 40.1 (39.5, 40.7)      | 41.6 (41.2, 41.8)    | 35.3 (34.8, 35.8)    |
| 25-29 | 43.7 (43.5, 44.1)      | 38.5 (37.9, 39.0)      | 44.2 (44.0, 44.5)    | 33.3 (32.9, 33.8)    |
| 30-34 | 46.8 (46.6, 47.2)      | 35.8 (35.4, 36.3)      | 47.2 (47.0, 47.4)    | 30.7 (30.3, 31.1)    |
| 35-39 | 49.5 (49.2, 49.7)      | 33.4 (33.0, 33.8)      | 49.8 (49.7, 50.0)    | 28.4 (28.1, 28.8)    |
| 40-44 | 52.7 (52.6, 52.9)      | 30.1 (29.8, 30.4)      | 53.2 (53.1, 53.4)    | 25.7 (25.4, 26.0)    |
| 45-49 | 55.9 (55.9, 56.2)      | 27.3 (27.1, 27.6)      | 56.3 (56.3, 56.5)    | 23.5 (23.2, 23.7)    |
| 50-54 | 59.4 (59.4, 59.7)      | 24.4 (24.2, 24.6)      | 59.6 (59.6, 59.8)    | 20.9 (20.7, 21.1)    |
| 55-59 | 62.9 (62.9, 63.1)      | 21.2 (21.0, 21.4)      | 63.1 (63.1, 63.3)    | 17.9 (17.7, 18.1)    |
| 60-64 | 66.7 (66.7, 66.9)      | 18.0 (17.9, 18.2)      | 66.8 (66.8, 67.0)    | 15.0 (14.9, 15.2)    |
| 65-69 | 70.8 (70.8, 71.0)      | 14.7 (14.5, 14.8)      | 70.9 (70.9, 71.0)    | 11.9 (11.7, 12.0)    |
| 70-74 | 75.1 (75.0, 75.2)      | 11.4 (11.2, 11.5)      | 75.1 (75.1, 75.2)    | 8.9 (8.8, 8.9)       |
| 75-79 | 79.5 (79.5, 79.6)      | 8.2 (8.1, 8.3)         | 79.4 (79.4, 79.5)    | 6.2 (6.2, 6.3)       |
| ≥80  | 83.9 (83.8, 84.0)      | 4.7 (4.6, 4.8)         | 83.8 (83.8, 83.9)    | 3.4 (3.3, 3.5)       |

*(B) Peritoneal dialysis*

|       | Female Life expectancy | Female Life years lost | Male Life expectancy | Male Life years lost |
|-------|------------------------|------------------------|----------------------|----------------------|
|       |                        |                        |                      |                      |
| 15-19 | 43.6 (43.1, 44.1)      | 42.8 (41.8, 43.9)      | 44.4 (43.7, 44.7)    | 37.5 (36.4, 38.7)    |
| 20-24 | 41.1 (40.9, 41.6)      | 41.4 (40.6, 42.2)      | 42.1 (42.1, 42.7)    | 36.3 (35.3, 37.2)    |
| 25-29 | 43.5 (43.2, 43.8)      | 39.5 (38.8, 40.1)      | 44.5 (44.2, 44.7)    | 34.2 (33.4, 34.9)    |
| 30-34 | 46.6 (46.3, 46.8)      | 36.3 (35.7, 36.9)      | 46.9 (46.7, 47.1)    | 32.3 (31.7, 33.0)    |
| 35-39 | 49.5 (49.4, 49.8)      | 34.0 (33.4, 34.5)      | 49.8 (49.5, 49.9)    | 29.2 (28.7, 29.7)    |
| Age Range | CTD | FCD | CTD+1 | FCD+1 |
|-----------|-----|-----|-------|-------|
| 40-44     | 52.7 (52.5, 52.8) | 30.7 (30.3, 31.1) | 52.8 (52.5, 52.8) | 27.6 (27.1, 28.0) |
| 45-49     | 55.8 (55.5, 55.8) | 28.3 (27.9, 28.7) | 55.8 (55.7, 55.9) | 24.9 (24.5, 25.3) |
| 50-54     | 59.1 (58.9, 59.1) | 25.4 (25.1, 25.7) | 59.3 (59.1, 59.3) | 22.2 (21.8, 22.5) |
| 55-59     | 62.4 (62.2, 62.4) | 22.1 (21.9, 22.4) | 62.8 (62.6, 62.8) | 19.1 (18.8, 19.4) |
| 60-64     | 66.4 (66.2, 66.4) | 18.7 (18.5, 18.9) | 66.6 (66.5, 66.6) | 15.9 (15.7, 16.1) |
| 65-69     | 70.5 (70.4, 70.5) | 15.1 (14.9, 15.3) | 70.6 (70.5, 70.6) | 12.6 (12.4, 12.8) |
| 70-74     | 74.7 (74.6, 74.7) | 11.9 (11.7, 12.1) | 74.8 (74.8, 74.9) | 9.5 (9.4, 9.7) |
| 75-79     | 79.3 (79.2, 79.4) | 8.7 (8.5, 8.9) | 79.3 (79.2, 79.3) | 6.8 (6.6, 6.9) |
| ≥80       | 83.7 (83.6, 83.8) | 5.3 (5.1, 5.5) | 83.7 (83.6, 83.8) | 4.0 (3.8, 4.1) |

(C) Deceased donor transplant

| Age Range | CTD | FCD | CTD+1 | FCD+1 |
|-----------|-----|-----|-------|-------|
| 15-19     | 61.2 (60.3, 61.8) | 27.4 (24.7, 30.1) | 60.8 (60.1, 61.5) | 20.9 (18.9, 22.8) |
| 20-24     | 58.1 (57.4, 58.6) | 24.0 (22.1, 25.8) | 56.7 (56.1, 57.1) | 20.4 (19.0, 21.7) |
| 25-29     | 59.3 (58.7, 59.9) | 25.0 (23.5, 26.5) | 57.7 (57.3, 58.1) | 19.6 (18.6, 20.7) |
| 30-34     | 61.9 (61.3, 62.5) | 21.3 (20.0, 22.6) | 59.9 (59.5, 60.3) | 18.5 (17.7, 19.4) |
| 35-39     | 63.8 (63.2, 64.3) | 19.3 (18.2, 20.4) | 61.5 (61.1, 61.9) | 16.7 (16.0, 17.4) |
| 40-44     | 66.5 (65.9, 67.0) | 17.5 (16.6, 18.5) | 64.2 (63.8, 64.6) | 15.5 (14.9, 16.0) |
| 45-49     | 68.6 (68.0, 69.1) | 15.2 (14.4, 16.1) | 66.3 (65.9, 66.7) | 13.2 (12.7, 13.7) |
| 50-54     | 70.3 (69.8, 70.8) | 13.2 (12.5, 13.9) | 68.8 (68.4, 69.2) | 11.7 (11.2, 12.1) |
| 55-59     | 73.3 (72.7, 73.9) | 12.4 (11.8, 13.1) | 71.4 (70.9, 71.7) | 10.1 (9.7, 10.6) |
| 60-64     | 77.3 (76.7, 78.0) | 8.8 (8.1, 9.4) | 74.8 (74.3, 75.2) | 8.4 (7.9, 8.8) |
| 65-69     | 80.3 (79.6, 81.0) | 6.4 (5.6, 7.3) | 78.6 (78.0, 79.1) | 6.2 (5.7, 6.7) |
| ≥70       | 84.9 (83.9, 85.9) | 5.8 (4.7, 6.9) | 81.6 (80.9, 82.1) | 3.9 (3.2, 4.7) |

(D) Living donor transplant

| Age Range | CTD | FCD | CTD+1 | FCD+1 |
|-----------|-----|-----|-------|-------|
| 15-19     | 72.0 (70.4, 73.6) | 15.9 (13.0, 18.7) | 74.2 (72.7, 75.7) | 7.7 (5.3, 10.1) |
| 20-24     | 68.4 (66.9, 70.0) | 14.8 (12.7, 17.0) | 68.2 (66.9, 69.3) | 9.4 (7.7, 11.2) |
| Age Group | Percentiles | Mean (SD) | Mean (95% CI) |
|-----------|-------------|-----------|---------------|
| 25-29     | 70.2 (68.7, 71.7) | 13.1 (11.2, 15.1) | 69.5 (68.4, 70.6) |
| 30-34     | 73.4 (71.8, 75.0) | 10.9 (9.1, 12.7) | 71.7 (70.6, 72.7) |
| 35-39     | 73.7 (72.3, 75.2) | 10.8 (8.9, 12.6) | 74.3 (73.0, 75.4) |
| 40-44     | 76.3 (74.7, 78.0) | 8.1 (6.5, 9.6) | 74.7 (73.5, 75.7) |
| 45-49     | 78.1 (76.6, 79.7) | 6.8 (5.3, 8.4) | 76.8 (75.6, 77.8) |
| 50-54     | 80.1 (78.5, 81.9) | 6.2 (4.8, 7.6) | 77.5 (76.3, 78.6) |
| 55-59     | 82.1 (80.5, 83.8) | 3.6 (2.4, 4.9) | 79.3 (78.1, 80.4) |
| ≥60       | 83.0 (81.2, 84.9) | 1.6 (0.6, 2.5) | 80.3 (79.0, 81.5) |