

CHAPTER 1

Incidence of Kidney Failure with Replacement Therapy

Summarising the number of incident patients with kidney failure with replacement therapy in Australia and New Zealand, the rate per million population and the demographic and clinical characteristics of incident patients.

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SUMMARY AND HIGHLIGHTS

The number of people with kidney failure commencing treatment with kidney replacement therapy (KRT) was stable from last year in Australia and in New Zealand continues to increase (Table 1.1, Figure 1.1), with 128 and 142 people initiating KRT per million population (pmp) in 2024 in Australia and New Zealand, respectively. The incidence of kidney failure treated with KRT is highest in the Northern Territory (439 pmp), over three-times higher than that of the next Australian state (Table 1.2).

A higher proportion of those initiating KRT are male – almost two-thirds (Table 1.5). The highest age-specific rates of KRT initiation are among those 75-85 years, followed by those 65-74 years in Australia (Figure 1.3.1); and among those 65-74 years in New Zealand. One exception is in the Northern Territory, where the highest age-specific rate of KRT initiation was among those 45-64 years (Figure 1.4.1).

In both Australia and New Zealand, the most common cause of kidney failure treated with KRT is diabetic kidney disease, followed by glomerular disease (Table 1.11). Accordingly, the most common comorbidity is diabetes mellitus - present in approximately 50% of people initiating KRT (Table 1.10), followed by coronary artery disease (Table 1.8).

The median estimated glomerular filtration rate (eGFR) at initiation of KRT has remained stable in Australia (Figure 1.12.1), and follows a similar trend nationwide, except in the NT where eGFR at KRT initiation is lower (Figure 1.13). Late referral (defined as <3 months from referral to a nephrologist and KRT start) has declined in Australia from a peak in 2019; in New Zealand, the late referral rate has increased since a nadir in 2020 (Figure 1.5). Late referral in New Zealand is dominated by those 0-24 years, almost double the late referral rate of other age groups (Figure 1.7.2).

Most people initiated KRT with facility haemodialysis (HD) - now over two-thirds of those initiating KRT in both countries. Approximately one-quarter of incident kidney failure in Australia is treated with peritoneal dialysis (PD) which remains roughly stable; there has been a decline in PD as incident KRT modality from 40% to 30% in New Zealand over the last five years (Table 1.1).

SUGGESTED CITATION

D Forcey, C Davies, S Bateman, J Chen, P Clayton, F Kholmurodova, D Lee, K Marshall, H McCarthy, S McDonald, W Mulley, K Polkinghorne, K Richards, M Roberts, B Solomon, G Irish. 48th Report, Chapter 1: Incidence of Kidney Failure with Replacement Therapy. Australia and New Zealand Dialysis and Transplant Registry, Adelaide, Australia. 2025. Available at: http://www.anzdata.org.au

INCIDENT PATIENTS

Tables 1.1 and 1.2 show the incidence of kidney failure with replacement therapy by modality, country and state as well as the incidence rates per million population (pmp).

Population estimates for Australia and New Zealand used throughout this chapter for the calculation of incidence per million population were sourced from the Australian Bureau of Statistics (2024)¹ and Stats NZ (2024)². State is based on the state of the treating hospital unless otherwise indicated.*

Table 1.1
Incidence of Kidney Failure with Replacement Therapy by Modality 2020-2024 (pmp)

| Country | Event | 2020 | 2021 | 2022 | 2023 | 2024 |
|--------------|---------------------------------|------------|------------|------------|------------|------------|
| | Total Incident KRT Patients | 3335 (130) | 3366 (131) | 3464 (133) | 3491 (131) | 3480 (128) |
| | Pre-emptive Transplant Patients | 85 (3) | 82 (3) | 91 (3) | 98 (4) | 94 (3) |
| Accetualia | Incident KRT Dialysis Patients | 3250 (127) | 3284 (128) | 3373 (130) | 3393 (127) | 3386 (124) |
| Australia | Percentage PD | 28% | 28% | 25% | 27% | 26% |
| | Percentage Home HD | 2% | 2% | 2% | 2% | 2% |
| | Percentage Facility HD | 70% | 71% | 73% | 72% | 72% |
| | Total Incident KRT Patients | 715 (140) | 725 (142) | 702 (137) | 734 (140) | 760 (142) |
| | Pre-emptive Transplant Patients | 44 (9) | 39 (8) | 23 (4) | 25 (5) | 34 (6) |
| Nov. Zoolond | Incident KRT Dialysis Patients | 671 (132) | 686 (134) | 679 (133) | 709 (135) | 726 (136) |
| New Zealand | Percentage PD | 40% | 36% | 35% | 31% | 30% |
| | Percentage Home HD | 3% | 2% | 3% | 2% | 2% |
| | Percentage Facility HD | 57% | 62% | 63% | 67% | 68% |

Table 1.2
Incidence of Kidney Failure with Replacement Therapy by Modality and Jurisdiction (pmp) 2024

| State | Total Incident KRT Patients | Incident KRT Dialysis Patients | Pre-emptive Transplant Patients |
|-------------|-----------------------------|--------------------------------|---------------------------------|
| QLD | 731 (131) | 721 (129) | 10 (2) |
| NSW* | 969 (118) | 940 (114) | 29 (4) |
| ACT* | 78 (108) | 75 (104) | 3 (4) |
| VIC | 896 (128) | 867 (124) | 29 (4) |
| TAS | 63 (109) | 62 (108) | 1(2) |
| SA | 248 (132) | 234 (125) | 14 (7) |
| NT | 112 (439) | 110 (431) | 2 (8) |
| WA | 383 (129) | 377 (127) | 6 (2) |
| Australia | 3480 (128) | 3386 (124) | 94 (3) |
| New Zealand | 760 (142) | 726 (136) | 34 (6) |

^{*}ACT and NSW population estimates adjusted for SE NSW Region.

^{*}NSW population estimates exclude residents of the NSW South Eastern region which includes the local government areas of Bega Valley, Eurobodalla, Goulburn Mulwaree, Hilltops, Queanbeyan-Palerang Regional, Snowy Monaro Regional, Upper Lachlan Shire and Yass Valley. ACT population includes residents of the NSW South Eastern region. The population base for the NSW South Eastern region is based on the estimated resident population by local government area from the Australian Bureau of Statistics (2025)³.

The total numbers of incident patients per year since kidney replacement therapy commenced in Australia and New Zealand are shown in Figure 1.1. Note the different y axis for each country.

Figure 1.1
New Patients - Australia and New Zealand

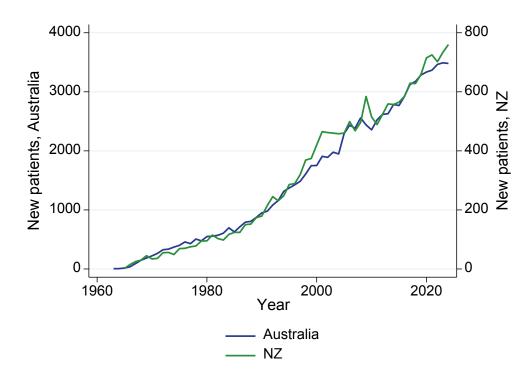


Figure 1.2 presents these data another way, showing the numbers of new patients per year and change in each country compared to the previous year over the last 30 years.

Figure 1.2.1

New Patients and Change - Australia

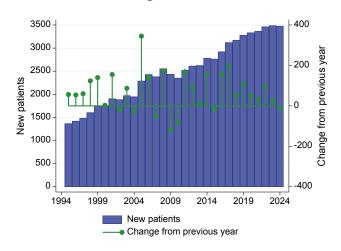


Figure 1.2.2

New Patients and Change - New Zealand

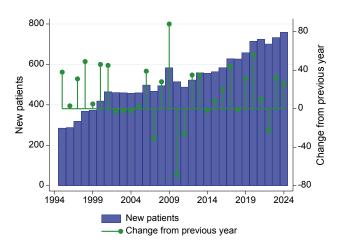


Table 1.3 shows the number of new patients (pmp) by state and country over 2020-2024.

Table 1.3
Kidney Failure with Replacement Therapy Incidence (pmp) 2020-2024

| State | 2020 | 2021 | 2022 | 2023 | 2024 |
|-------------|------------|------------|------------|------------|------------|
| QLD | 686 (133) | 716 (137) | 683 (128) | 731 (134) | 731 (131) |
| NSW* | 995 (126) | 986 (125) | 1034 (130) | 1001 (124) | 969 (118) |
| ACT* | 58 (85) | 71 (103) | 80 (115) | 62 (87) | 78 (108) |
| VIC | 835 (126) | 805 (123) | 816 (123) | 873 (128) | 896 (128) |
| TAS | 43 (77) | 61 (108) | 69 (121) | 48 (84) | 63 (109) |
| SA | 242 (135) | 237 (131) | 241 (132) | 246 (133) | 248 (132) |
| NT | 102 (412) | 120 (484) | 146 (583) | 134 (530) | 112 (439) |
| WA | 374 (138) | 370 (135) | 395 (141) | 396 (137) | 383 (129) |
| Australia | 3335 (130) | 3366 (131) | 3464 (133) | 3491 (131) | 3480 (128) |
| New Zealand | 715 (140) | 725 (142) | 702 (137) | 734 (140) | 760 (142) |

^{*}ACT and NSW population estimates adjusted for SE NSW Region.

Figure 1.3 shows incidence rates by age group, and Figure 1.4 by age group and state; the bars represent 95% confidence intervals. Note the different y axes for each Country and Australian State and Territory.

Figure 1.3.1

New Patients - Age Specific Rates - Australia

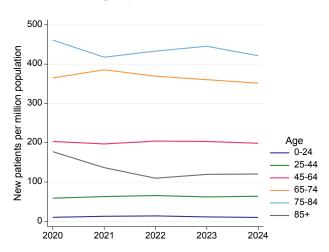


Figure 1.3.2

New Patients - Age Specific Rates - New Zealand

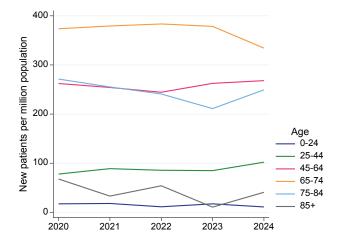


Figure 1.4.1 New Patients by Age Group - NT

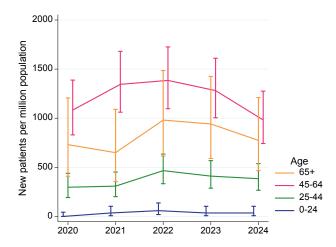


Figure 1.4.3 New Patients by Age Group - VIC

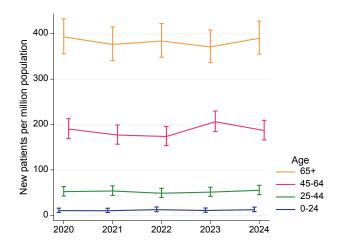


Figure 1.4.5

New Patients by Age Group - SA

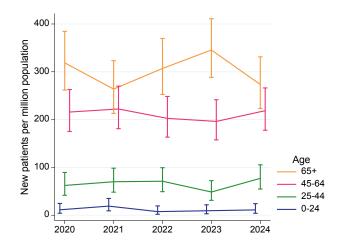


Figure 1.4.2

New Patients by Age Group - NSW

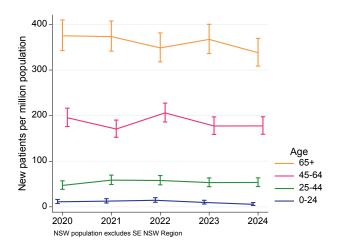


Figure 1.4.4 New Patients by Age Group - QLD

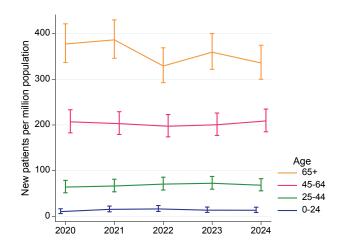


Figure 1.4.6
New Patients by Age Group - WA

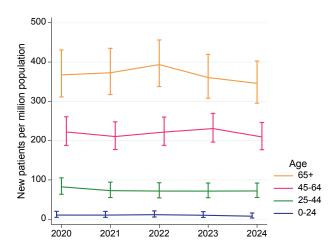


Figure 1.4.7

New Patients by Age Group - TAS

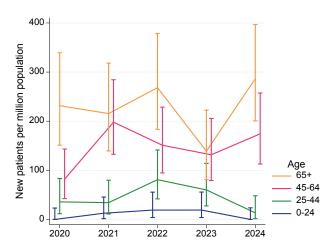
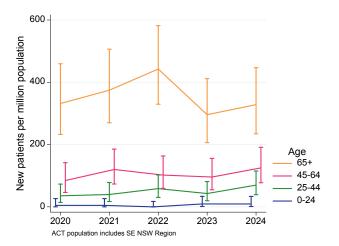


Figure 1.4.8

New Patients by Age Group - ACT



The rates in older patients are shown in Table 1.4. Table 1.5 further categorises the 2024 data by gender.

Table 1.4 Incidence (pmp) of Kidney Failure with Replacement Therapy in Older Patients 2020-2024

| Country | Age | 2020 | 2021 | 2022 | 2023 | 2024 |
|--------------|-------|-----------|-----------|-----------|-----------|-----------|
| | 60-64 | 417 (290) | 389 (265) | 405 (271) | 433 (285) | 438 (285) |
| | 65-69 | 430 (341) | 454 (355) | 443 (340) | 475 (358) | 436 (321) |
| A | 70-74 | 436 (392) | 482 (420) | 461 (403) | 421 (364) | 455 (388) |
| Australia | 75-79 | 385 (501) | 383 (474) | 403 (462) | 438 (471) | 458 (471) |
| | 80-84 | 212 (402) | 182 (334) | 220 (389) | 236 (405) | 210 (343) |
| | 85+ | 92 (177) | 73 (137) | 60 (110) | 67 (119) | 70 (120) |
| | 60-64 | 94 (323) | 95 (320) | 100 (329) | 101 (324) | 117 (372) |
| | 65-69 | 101 (408) | 98 (388) | 100 (388) | 103 (390) | 103 (380) |
| Nov. Zoolond | 70-74 | 71 (334) | 81 (370) | 83 (378) | 81 (365) | 63 (279) |
| New Zealand | 75-79 | 50 (341) | 42 (278) | 45 (281) | 46 (267) | 56 (309) |
| | 80-84 | 16 (165) | 23 (222) | 20 (182) | 14 (125) | 18 (155) |
| | 85+ | 6 (68) | 3 (33) | 5 (54) | 1 (11) | 4 (41) |

Table 1.5
Age and Gender of New Patients 2024

| Country | Gender* | 0-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ | Total | Mean | Median |
|-----------|---------|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|-------|------|--------|
| A | F | 6 | 6 | 28 | 88 | 127 | 204 | 265 | 314 | 207 | 21 | 1266 | 58.6 | 62 |
| Australia | М | 6 | 13 | 22 | 90 | 197 | 319 | 480 | 577 | 461 | 49 | 2214 | 61.7 | 64 |
| New | F | 1 | 2 | 5 | 23 | 35 | 53 | 72 | 66 | 18 | 1 | 276 | 54.9 | 57 |
| Zealand | М | 1 | 0 | 9 | 30 | 66 | 79 | 140 | 100 | 56 | 3 | 484 | 57.1 | 59 |

 $^{^{*}}$ The number of persons identifying as a gender other than male or female was too small to be reported

LATE REFERRAL

The following figures and tables examine late referral, defined as <3 months between initial review by a nephrologist and KRT start. Figure 1.5 shows the overall proportion of new patients referred late in Australia and New Zealand over the last 10 years. In 2024, among those with referral timing reported, 14% of Australian and 15% of New Zealand new patients were referred late. Figure 1.6 shows the variation in late referral rates across Australian states and Figure 1.7 shows late referral rates by age for Australia and New Zealand.

Tables 1.6 shows late referral rates for new patients over 2020-2024 by primary kidney disease.

Figure 1.5
Late Referral Rates - All Incident Patients 2015 - 2024

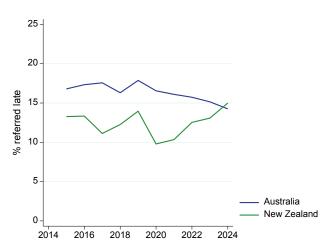


Figure 1.6
Late Referral Rates by State/Territory - Australia 2016 - 2024

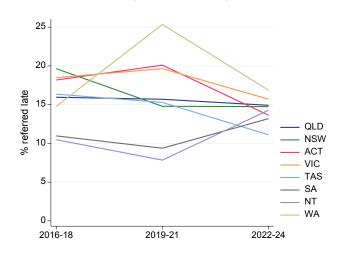


Figure 1.7.1 Late Referral Rates by Age - Australia 2015 - 2024

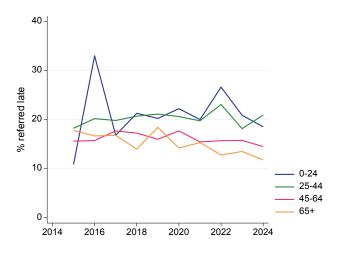


Figure 1.7.2 Late Referral Rates by Age - New Zealand 2015 - 2024

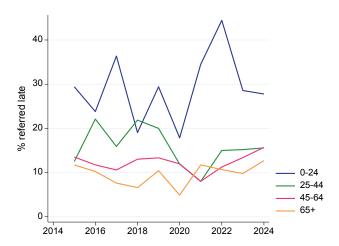


Table 1.6
Late Referral by Country and Primary Kidney Disease 2020-2024

| Country | Primary kidney disease | Late | Not Late | Not Reported | Total |
|------------------------------------------------------------|----------------------------------------------|------------|-------------|--------------|-------|
| | Diabetic kidney disease | 873 (13%) | 5594 (86%) | 43 (1%) | 6510 |
| | Glomerular disease | 517 (16%) | 2680 (83%) | 29 (1%) | 3226 |
| | Hypertension / Renal vascular disease | 275 (13%) | 1777 (86%) | 10 (0%) | 2062 |
| Diabetic kidney disease 873 (13%) 5594 (86%) 43 (1%) | 10 (1%) | 1275 | | | |
| Australia | Tubulointerstitial disease | 194 (15%) | 1123 (84%) | 12 (1%) | 1329 |
| | Other systemic diseases affecting the kidney | 154 (35%) | 283 (64%) | 2 (0%) | 439 |
| | Miscellaneous kidney disorders | 558 (26%) | 1584 (73%) | 16 (1%) | 2158 |
| | Not reported | 17 (12%) | 36 (26%) | 84 (61%) | 137 |
| | Total | 2664 (16%) | 14266 (83%) | 206 (1%) | 17136 |
| | Diabetic kidney disease | 190 (11%) | 1571 (89%) | 9 (1%) | 1770 |
| | Glomerular disease | 83 (12%) | 602 (88%) | 2 (0%) | 687 |
| | Hypertension / Renal vascular disease | 41 (12%) | 306 (88%) | 2 (1%) | 349 |
| | Familial / hereditary kidney diseases | 9 (4%) | 199 (96%) | 0 (0%) | 208 |
| New Zealand | Tubulointerstitial disease | 24 (10%) | 220 (89%) | 3 (1%) | 247 |
| | Other systemic diseases affecting the kidney | 30 (38%) | 50 (62%) | 0 (0%) | 80 |
| | Miscellaneous kidney disorders | 64 (22%) | 219 (77%) | 3 (1%) | 286 |
| | Not reported | 2 (22%) | 5 (56%) | 2 (22%) | 9 |
| | Total | 443 (12%) | 3172 (87%) | 21 (1%) | 3636 |

BODY MASS INDEX

Table 1.7 shows the body mass index (BMI, in kg/m^2) category at KRT entry of new adult patients in 2024. Trends in the distribution of BMI at KRT entry are shown in Figure 1.8.

Table 1.7
BMI Category at KRT Entry for Adult Patients 2024

| Country | BMI Category at KRT Entry | n (%) |
|-------------|---------------------------|------------|
| | <18.5 | 95 (3%) |
| | 18.5-24.9 | 971 (28%) |
| | 25-29.9 | 1069 (31%) |
| Australia | 30-34.9 | 681 (20%) |
| | 35-39.9 | 339 (10%) |
| | 40+ | 240 (7%) |
| | Not reported | 40 (1%) |
| | <18.5 | 5 (1%) |
| | 18.5-24.9 | 159 (21%) |
| | 25-29.9 | 192 (25%) |
| New Zealand | 30-34.9 | 175 (23%) |
| | 35-39.9 | 107 (14%) |
| | 40+ | 106 (14%) |
| | Not reported | 9 (1%) |

Figure 1.8
BMI Category at KRT Entry for Adult Patients



CO-MORBIDITIES

Tables 1.8-1.10 show the co-morbidities at KRT entry of new patients in 2024. Trends in the prevalence of these co-morbidities at KRT entry are shown in Figures 1.9-1.10, with the bars representing 95% confidence intervals.

Table 1.8

Co-morbidities of New Patients 2024

| Country | Status at KRT Entry | Coronary Artery Disease | Peripheral Vascular Disease | Cerebrovascular Disease | Chronic Lung Disease |
|-------------|------------------------|----------------------------|--------------------------------|----------------------------|-------------------------|
| Australia | No | 2265 (65%) | 2767 (80%) | 3091 (89%) | 2948 (85%) |
| | Suspected | 204 (6%) | 243 (7%) | 58 (2%) | 99 (3%) |
| | Yes | 946 (27%) | 406 (12%) | 268 (8%) | 372 (11%) |
| | Not reported | 65 (2%) | 64 (2%) | 63 (2%) | 61 (2%) |
| | No | 571 (75%) | 675 (89%) | 692 (91%) | 649 (85%) |
| New Zealand | Suspected | 33 (4%) | 9 (1%) | 16 (2%) | 15 (2%) |
| | Yes | 147 (19%) | 69 (9%) | 44 (6%) | 88 (12%) |
| | Not reported | 9 (1%) | 7 (1%) | 8 (1%) | 8 (1%) |

Table 1.9
Smoking Status of New Patients 2024

| Country | Smoking Status at KRT Entry | n (%) |
|-------------|--------------------------------|------------|
| | Current | 393 (11%) |
| Accetocka | Former | 1136 (33%) |
| Australia | Never | 1893 (54%) |
| | Not reported | 58 (2%) |
| | Current | 115 (15%) |
| Na7. aland | Former | 268 (35%) |
| New Zealand | Never | 376 (49%) |
| | Not reported | 1 (0%) |

Table 1.10
Diabetic Status of New Patients 2024

| Country | Diabetic Status at KRT Entry | n (%) |
|--------------|---------------------------------|------------|
| | No | 1675 (48%) |
| Australia | Type 1 | 189 (5%) |
| Australia | Type 2 | 1555 (45%) |
| | Not reported | 61 (2%) |
| | No | 338 (44%) |
| Nav. Zasland | Type 1 | 27 (4%) |
| New Zealand | Type 2 | 387 (51%) |
| | Not reported | 8 (1%) |

Figure 1.9.1 Comorbid Conditions at KRT Entry - Australia

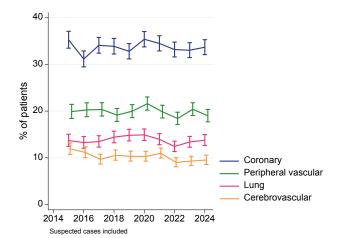


Figure 1.9.2
Comorbid Conditions at KRT Entry - New Zealand

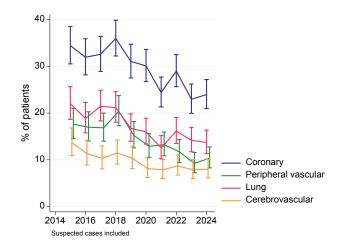
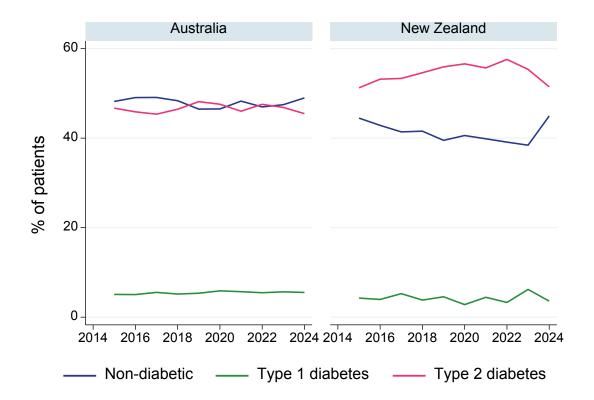


Figure 1.10
Diabetes Status at KRT Entry



PRIMARY KIDNEY DISEASE

The primary kidney disease of new patients over 2021-2024 are shown in Table 1.11. From 2022, primary kidney disease was collected according to the updated European Renal Association/ European Dialysis and Transplantation Association categories, with primary diseases reported prior to 2022 mapped to these categories. Details of the type of glomerular disease reported are shown in Table 1.12. Rates of biopsy confirmation of glomerular disease, hypertension/renal vascular disease, diabetic kidney disease and aetiology uncertain/unknown kidney disease are shown in Figure 1.11.

The "Miscellaneous" causes from Table 1.11 are shown in detail in Table 1.13.

Table 1.11
Primary Kidney Disease of New Patients 2021 - 2024

| Country | Primary kidney disease | 2021 | 2022 | 2023 | 2024 |
|-------------|----------------------------------------------|------------|------------|------------|------------|
| | Diabetic kidney disease | 1282 (38%) | 1387 (40%) | 1263 (36%) | 1258 (36%) |
| | Glomerular disease | 610 (18%) | 626 (18%) | 669 (19%) | 675 (19%) |
| | Hypertension / Renal vascular disease | 446 (13%) | 391 (11%) | 422 (12%) | 396 (11%) |
| | Familial / hereditary kidney diseases | 265 (8%) | 244 (7%) | 260 (7%) | 291 (8%) |
| Australia | Tubulointerstitial disease | 282 (8%) | 271 (8%) | 266 (8%) | 251 (7%) |
| | Other systemic diseases affecting the kidney | 108 (3%) | 82 (2%) | 82 (2%) | 80 (2%) |
| | Miscellaneous kidney disorders | 359 (11%) | 430 (12%) | 478 (14%) | 510 (15%) |
| | Not reported | 14 (<1%) | 33 (1%) | 51 (1%) | 19 (1%) |
| | Total | 3366 | 3464 | 3491 | 3480 |
| | Diabetic kidney disease | 358 (49%) | 353 (50%) | 366 (50%) | 346 (46%) |
| | Glomerular disease | 157 (22%) | 133 (19%) | 128 (17%) | 126 (17%) |
| | Hypertension / Renal vascular disease | 77 (11%) | 64 (9%) | 64 (9%) | 74 (10%) |
| | Familial / hereditary kidney diseases | 35 (5%) | 42 (6%) | 48 (7%) | 45 (6%) |
| New Zealand | Tubulointerstitial disease | 46 (6%) | 43 (6%) | 40 (5%) | 57 (8%) |
| | Other systemic diseases affecting the kidney | 9 (1%) | 15 (2%) | 22 (3%) | 23 (3%) |
| | Miscellaneous kidney disorders | 40 (6%) | 52 (7%) | 66 (9%) | 85 (11%) |
| | Not reported | 3 (<1%) | 0 (0%) | 0 (0%) | 4 (1%) |
| | Total | 725 | 702 | 734 | 760 |

Table 1.12
Glomerular Disease (GN) as Primary Kidney Disease 2024

| Primary kidney disease | Australia | New Zealand |
|---------------------------------------------------------------------------------|-----------|-------------|
| Adult nephrotic syndrome | 15 | 5 |
| Anti-Glomerular basement membrane (GBM) disease / Goodpasture's syndrome | 13 | 1 |
| Congenital nephrotic syndrome (CNS) | 11 | 2 |
| Congenital nephrotic syndrome (CNS) - Finnish type | 2 | 0 |
| Congenital nephrotic syndrome (CNS) - diffuse mesangial sclerosis | 2 | 0 |
| Congenital nephrotic syndrome (CNS) - focal segmental glomerulosclerosis (FSGS) | 12 | 2 |
| Denys-Drash syndrome | 1 | 1 |
| Diffuse endocapillary glomerulonephritis | 2 | 0 |
| Familial IgA nephropathy | 6 | 1 |
| Familial focal segmental glomerulosclerosis (FSGS) - autosomal dominant | 6 | 2 |
| Familial focal segmental glomerulosclerosis (FSGS) - autosomal recessive | 14 | 3 |
| Focal and segmental proliferative glomerulonephritis | 11 | 0 |
| Focal segmental glomerulosclerosis (FSGS) secondary to lithium | 2 | 0 |
| Focal segmental glomerulosclerosis (FSGS) secondary to obesity | 9 | 11 |
| Glomerulonephritis | 62 | 11 |
| Glomerulonephritis - secondary to systemic disease | 11 | 6 |
| Granulomatosis with polyangiitis | 4 | 1 |
| Henoch-Schönlein purpura / nephritis | 4 | 2 |
| Idiopathic rapidly progressive (crescentic) glomerulonephritis | 9 | 0 |
| IgA nephropathy | 220 | 37 |
| IgA nephropathy secondary to liver cirrhosis | 3 | 0 |
| Membranous nephropathy - drug induced | 4 | 1 |
| Membranous nephropathy - idiopathic | 17 | 2 |
| Membranous nephropathy - infection associated | 7 | 0 |
| Membranous nephropathy - malignancy associated | 2 | 0 |
| Mesangial proliferative glomerulonephritis | 14 | 2 |
| Mesangiocapillary glomerulonephritis type 1 | 8 | 3 |
| Mesangiocapillary glomerulonephritis type 2 (dense deposit disease) | 1 | 0 |
| Mesangiocapillary glomerulonephritis type 3 | 1 | 0 |
| Minimal change nephropathy | 1 | 1 |
| Nephrotic syndrome of childhood - no trial of steroids | 1 | 0 |
| Nephrotic syndrome of childhood - steroid resistant | 4 | 0 |
| Polyarteritis nodosa | 1 | 0 |
| Primary focal segmental glomerulosclerosis (FSGS) | 89 | 23 |
| Renal scleroderma / systemic sclerosis | 4 | 1 |
| Systemic lupus erythematosus / nephritis | 47 | 4 |
| Systemic vasculitis - ANCA negative | 9 | 0 |
| Systemic vasculitis - ANCA positive | 46 | 4 |
| Total | 675 | 126 |

Table 1.13
Miscellaneous Primary Kidney Diseases 2024

| Primary kidney disease | Australia | New Zealand |
|--------------------------------------------------------------------------------------------|-----------|-------------|
| Acute cortical necrosis | 3 | 0 |
| Acute kidney injury | 80 | 4 |
| Acute kidney injury due to circulatory failure | 10 | 2 |
| Acute kidney injury due to hypovolaemia | 12 | 1 |
| Acute kidney injury due to nephrotoxicity | 10 | 0 |
| Acute kidney injury due to rhabdomyolysis | 8 | 2 |
| Acute kidney injury due to sepsis | 14 | 4 |
| Acute pyelonephritis | 2 | 1 |
| Chronic kidney disease (CKD) / chronic renal failure (CRF) - aetiology uncertain / unknown | 221 | 45 |
| Chronic kidney disease (CKD) / chronic renal failure (CRF) caused by tumour nephrectomy | 12 | 3 |
| Chronic kidney disease (CKD) / chronic renal failure (CRF) due to donor nephrectomy | 0 | 1 |
| Chronic renal failure | 76 | 15 |
| Chronic renal failure due to systemic infection | 3 | 0 |
| Haematuria and proteinuria | 3 | 0 |
| Isolated proteinuria | 1 | 0 |
| Kidney tumour | 2 | 0 |
| Renal cell carcinoma | 21 | 2 |
| Renal failure | 24 | 1 |
| Single kidney identified in adulthood | 6 | 4 |
| Transitional cell carcinoma | 1 | 0 |
| Wilms tumour | 1 | 0 |

Figure 1.11.1 Biopsy Rates - Australia

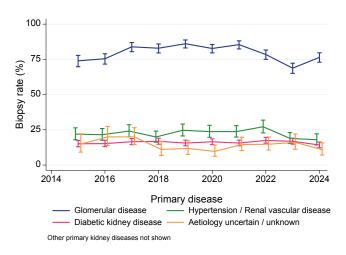
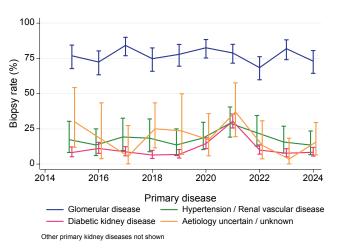


Figure 1.11.2 Biopsy Rates - New Zealand



TIMING OF KIDNEY REPLACEMENT THERAPY START

The median eGFR for adult patients (calculated using the CKD-EPI formula) at KRT start over time is shown in Figure 1.12. In 2024 this was 7.5mL/min/1.73m² in Australia and 5.7mL/min/1.73m² in New Zealand. The median eGFR for adult patients at KRT start over 2022-2024 by Australian State/Territory is shown in Figure 1.13.

Figure 1.12.1 eGFR at KRT Start for Adult Patients - Australia

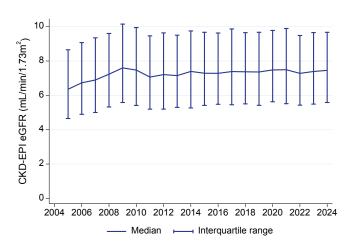


Figure 1.12.2
eGFR at KRT Start for Adult Patients - New Zealand

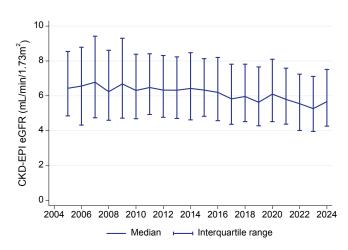
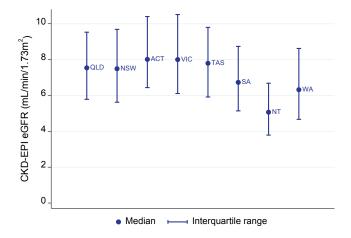


Figure 1.13
eGFR at KRT Start for Adult Patients - By State/Territory, Australia 2022-2024



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CHAPTER 1

Incidence of Kidney Failure with Replacement Therapy