



CHAPTER 2

Prevalence of Kidney Failure with Replacement Therapy

Summarising the number of prevalent kidney replacement therapy patients in Australia and New Zealand, the prevalence rate per million population and the demographics and clinical characteristics of prevalent patients.

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SUMMARY AND HIGHLIGHTS

The number of prevalent patients with kidney failure treated with Kidney Replacement Therapy (KRT) in Australia and New Zealand continues to increase. In 2024, there were 30,093 people (1,106 per million population (pmp)) treated with KRT in Australia and 5,747 (1,078 pmp) in New Zealand (Table 2.1). The highest prevalence of kidney failure treated with KRT was among people aged 75-84 years in Australia and those 65-74 years in New Zealand (Table 2.3)

Kidney failure requiring KRT continues to disproportionately impact First Nations peoples in Australia and New Zealand. The rate of kidney failure treated with dialysis among Aboriginal and Torres Strait Islander people in 2024 was 2,160 pmp, compared to 514 pmp for people who are not of Aboriginal and Torres Strait Islander ethnicity (Table 2.5). This contributes to the disproportionately high rate of prevalent kidney failure treated with dialysis in the Northern Territory (3,148 pmp in 2024), over five times higher than the next highest Australian state (Table 2.4). The rate of prevalent kidney failure treated with dialysis among Māori people in New Zealand in 2024 was 1,026 pmp, compared to 536 pmp among non-Māori people (Table 2.6).

The proportion of prevalent patients receiving KRT with comorbid Type 2 Diabetes Mellitus has been stable over the last four years (Figure 2.11), however there has been a decline in the proportion of prevalent patients receiving KRT with confirmed or suspected comorbid coronary artery disease in both countries (Figures 2.10.1 and 2.10.2). There has been a similar decline in the proportion of prevalent patients with confirmed or suspected comorbid peripheral vascular, lung and cerebrovascular disease in Australia (Figure 2.10.1); the proportion of people in New Zealand with these comorbidities receiving KRT remained roughly stable, particularly over the last four years (Figure 2.10.2).

In both Australia and New Zealand, the most common dialysis modality remains facility haemodialysis (HD), now the dialysis treatment modality in three-quarters of patients in Australia and almost two-thirds of patients in New Zealand. The majority of facility HD is provided in satellite HD units in Australia (70%) but in hospital-based HD units in New Zealand (69%) (Table 2.8). The number of prevalent patients receiving KRT with peritoneal dialysis has remained stable in Australia over the last five years but has declined in New Zealand from 29% in 2020 to 23% in 2024 (Table 2.2).

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 2: Prevalence of Kidney Failure with Replacement Therapy. Australia and New Zealand Dialysis and Transplant Registry, Adelaide, Australia. 2025. Available at: <http://www.anzdata.org.au>

ALL KIDNEY REPLACEMENT THERAPY MODALITIES

Table 2.1 shows the number of prevalent patients treated with kidney replacement therapy (KRT) in Australia and New Zealand over the last 20 years. The prevalence per million population (pmp) is also shown. Table 2.2 shows the same data for the last 5 years, categorised by dialysis modality.

Population estimates for Australia and New Zealand used throughout this chapter for the calculation of prevalence per million population were sourced from the Australian Bureau of Statistics (2024)¹ and Stats NZ (2024)².

Table 2.1
Prevalence (pmp) of Kidney Replacement Therapy 2005-2024

	Australia			New Zealand		
Year	Dialysis	Transplant	Total	Dialysis	Transplant	Total
2005	8638 (428)	6646 (329)	15284 (758)	1878 (454)	1245 (301)	3123 (755)
2006	9263 (453)	6979 (341)	16242 (794)	1997 (477)	1261 (301)	3258 (779)
2007	9733 (467)	7247 (348)	16980 (815)	2071 (490)	1306 (309)	3377 (800)
2008	10181 (479)	7660 (360)	17841 (840)	2106 (494)	1357 (319)	3463 (813)
2009	10487 (483)	8055 (371)	18542 (855)	2282 (530)	1411 (328)	3693 (858)
2010	10754 (488)	8511 (386)	19265 (874)	2389 (549)	1452 (334)	3841 (883)
2011	11112 (497)	8875 (397)	19987 (895)	2395 (546)	1493 (341)	3888 (887)
2012	11576 (509)	9271 (408)	20847 (917)	2475 (561)	1532 (348)	4007 (909)
2013	11903 (515)	9666 (418)	21569 (933)	2603 (586)	1583 (356)	4186 (942)
2014	12325 (525)	10073 (429)	22398 (954)	2692 (596)	1636 (362)	4328 (958)
2015	12645 (531)	10474 (440)	23119 (971)	2717 (589)	1713 (372)	4430 (961)
2016	12826 (530)	11040 (456)	23866 (987)	2772 (588)	1792 (380)	4564 (968)
2017	13126 (534)	11582 (471)	24708 (1005)	2799 (581)	1898 (394)	4697 (976)
2018	13554 (543)	12127 (486)	25681 (1029)	2864 (584)	1984 (405)	4848 (989)
2019	14009 (553)	12655 (500)	26664 (1052)	2840 (570)	2099 (422)	4939 (992)
2020	14610 (570)	12956 (505)	27566 (1075)	2971 (584)	2193 (431)	5164 (1014)
2021	15225 (593)	13151 (512)	28376 (1105)	3109 (608)	2276 (445)	5385 (1054)
2022	15511 (596)	13236 (509)	28747 (1105)	3110 (608)	2311 (452)	5421 (1059)
2023	15740 (591)	13642 (512)	29382 (1102)	3194 (609)	2355 (449)	5549 (1058)
2024	16024 (589)	14069 (517)	30093 (1106)	3314 (621)	2433 (456)	5747 (1078)

Table 2.2
Prevalence (pmp) of Kidney Replacement Therapy by Modality 2020-2024

Country	Patients	2020	2021	2022	2023	2024
Australia	Total	27566 (1075)	28376 (1105)	28747 (1105)	29382 (1102)	30093 (1106)
	Transplant	12956 (505)	13151 (512)	13236 (509)	13642 (512)	14069 (517)
	Dialysis	14610 (570)	15225 (593)	15511 (596)	15740 (591)	16024 (589)
	Percentage PD^	17%	18%	17%	17%	17%
	Percentage Home HD*	8%	7%	7%	7%	6%
	Percentage Facility HD	75%	75%	76%	76%	77%
New Zealand	Total	5164 (1014)	5385 (1054)	5421 (1059)	5549 (1058)	5747 (1078)
	Transplant	2193 (431)	2276 (445)	2311 (452)	2355 (449)	2433 (456)
	Dialysis	2971 (584)	3109 (608)	3110 (608)	3194 (609)	3314 (621)
	Percentage PD^	29%	26%	25%	23%	23%
	Percentage Home HD*	13%	13%	13%	12%	12%
	Percentage Facility HD	58%	61%	63%	64%	65%

^Includes Hybrid Dialysis

*Includes Community House HD

Table 2.3 and Figures 2.1-2.2 show the 2024 prevalence (pmp) of KRT by age groups.

Table 2.3
Prevalence (pmp) of Kidney Replacement Therapy by Age 2024

Age	Australia	New Zealand
0-4	32 (21)	7 (23)
5-14	173 (53)	31 (46)
15-24	513 (149)	128 (191)
25-34	1434 (355)	336 (437)
35-44	2888 (753)	705 (953)
45-54	5077 (1530)	1011 (1553)
55-64	7194 (2345)	1598 (2528)
65-74	7326 (2891)	1299 (2616)
75-84	4672 (2947)	575 (1937)
85+	784 (1348)	57 (581)

Figure 2.1.1
Prevalent KRT Patient Numbers - Australia -
31 December 2024

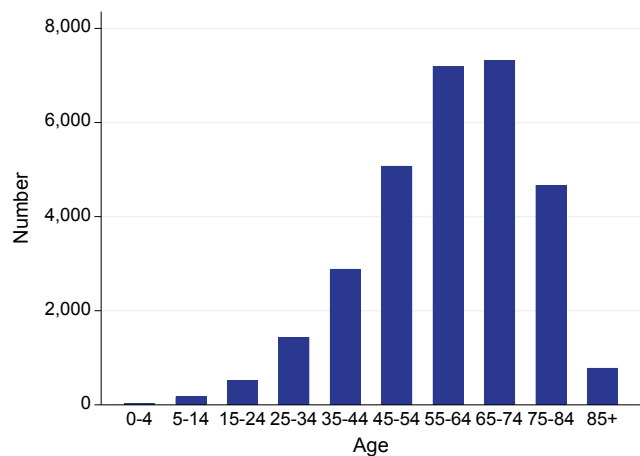


Figure 2.1.2
Prevalent KRT Patients Per Million Population -
Australia - 31 December 2024

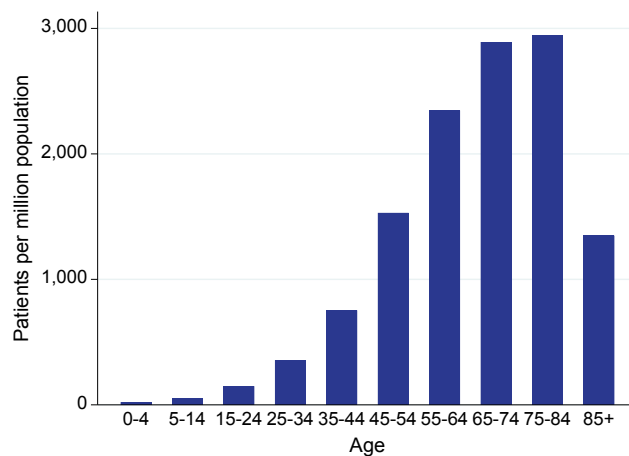


Figure 2.2.1
Prevalent KRT Patient Numbers - New
Zealand - 31 December 2024

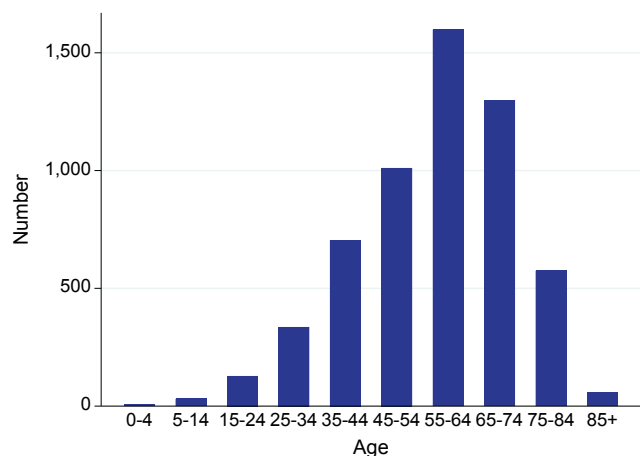


Figure 2.2.2
Prevalent KRT Patients Per Million Population -
New Zealand - 31 December 2024

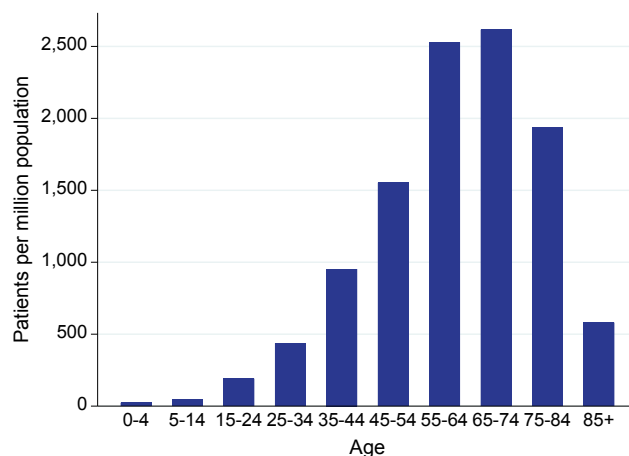


Table 2.4 shows the prevalence (pmp) of KRT by state/territory over 2020-2024. State is based on the state of the treating hospital.*

*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.

Table 2.4
Prevalence (pmp) of Kidney Replacement Therapy by State/Territory 2020-2024

Modality	State	2020	2021	2022	2023	2024
Dialysis	QLD	2947 (571)	3087 (592)	3195 (600)	3253 (596)	3315 (593)
	NSW*	4386 (557)	4556 (580)	4612 (582)	4634 (572)	4661 (566)
	ACT*	299 (439)	314 (454)	328 (470)	323 (455)	331 (460)
	VIC	3459 (523)	3576 (546)	3598 (543)	3672 (539)	3752 (537)
	TAS	212 (380)	231 (407)	238 (417)	238 (415)	235 (408)
	SA	978 (546)	1012 (561)	1047 (575)	1076 (581)	1101 (586)
	NT	783 (3165)	799 (3220)	805 (3217)	795 (3142)	803 (3148)
	WA	1546 (570)	1650 (600)	1688 (605)	1749 (606)	1826 (616)
	Australia	14610 (570)	15225 (593)	15511 (596)	15740 (591)	16024 (589)
	New Zealand	2971 (584)	3109 (608)	3110 (608)	3194 (609)	3314 (621)
Transplant	QLD	2416 (468)	2499 (479)	2499 (470)	2616 (479)	2678 (479)
	NSW*	3654 (464)	3692 (470)	3670 (463)	3773 (466)	3896 (473)
	ACT*	300 (441)	295 (427)	292 (419)	297 (419)	298 (414)
	VIC	3775 (571)	3799 (580)	3867 (583)	3980 (584)	4147 (594)
	TAS	308 (552)	310 (547)	322 (564)	328 (572)	334 (581)
	SA	1111 (621)	1137 (631)	1138 (625)	1159 (625)	1177 (627)
	NT	140 (566)	145 (584)	146 (583)	154 (609)	162 (635)
	WA	1252 (461)	1274 (463)	1302 (466)	1335 (463)	1377 (464)
	Australia	12956 (505)	13151 (512)	13236 (509)	13642 (512)	14069 (517)
	New Zealand	2193 (431)	2276 (445)	2311 (452)	2355 (449)	2433 (456)

*ACT and NSW population estimates adjusted for SE NSW Region.

Tables 2.5 and 2.6 show the same data by ethnicity for Australia and New Zealand, respectively.

Table 2.5
Prevalence (pmp) of Kidney Replacement Therapy by Ethnicity, Australia 2020-2024

Ethnicity	Modality	2020	2021	2022	2023	2024
Aboriginal and/or Torres Strait Islander	Dialysis	2162 (2235)	2198 (2234)	2213 (2208)	2205 (2159)	2249 (2160)
	Transplant	391 (404)	413 (420)	423 (422)	465 (455)	496 (476)
Other	Dialysis	12152 (492)	12723 (515)	12997 (520)	13235 (516)	13460 (514)
	Transplant	11766 (477)	11938 (483)	12007 (480)	12356 (482)	12731 (487)
Not reported	Dialysis	296	304	301	300	315
	Transplant	799	800	806	821	842

Table 2.6
Prevalence (pmp) of Kidney Replacement Therapy by Ethnicity, New Zealand 2020-2024

Ethnicity	Modality	2020	2021	2022	2023	2024
Māori	Dialysis	961 (1125)	975 (1114)	934 (1048)	919 (1017)	938 (1026)
	Transplant	270 (316)	285 (326)	299 (336)	311 (344)	326 (357)
Other	Dialysis	1997 (471)	2122 (501)	2163 (512)	2264 (522)	2367 (536)
	Transplant	1917 (453)	1984 (468)	2006 (475)	2036 (469)	2098 (475)
Not reported	Dialysis	13	12	13	11	9
	Transplant	6	7	6	8	9

Figure 2.3 shows the overall distribution of KRT modality by country at the end of 2024. The dialysis modalities are shown separately in Figure 2.4.

Figure 2.3
KRT Modality by Country 2024

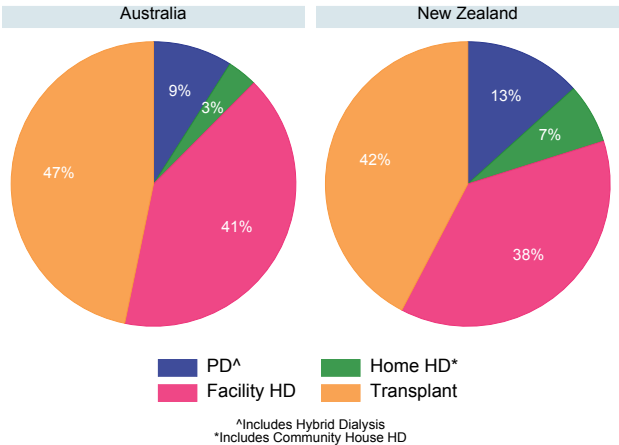
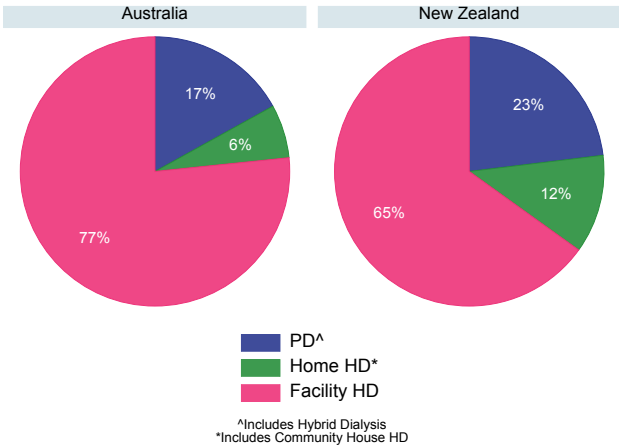


Figure 2.4
Dialysis Modality by Country 2024



Figures 2.5 and 2.6 show the same data by Australian state/territory.

Figure 2.5
KRT Modality by State/Territory - 31 December 2024

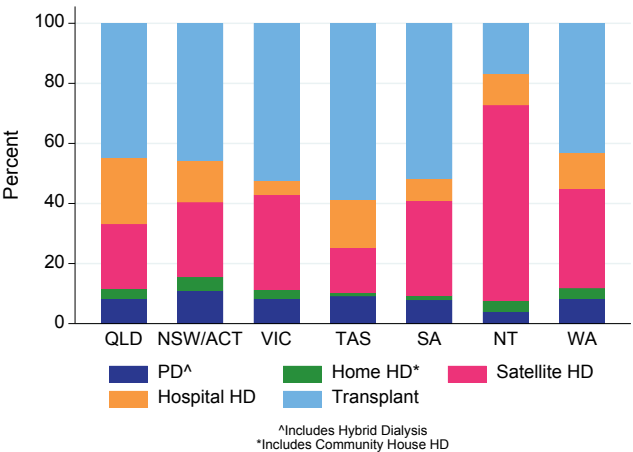


Figure 2.6
Dialysis Modality by State/Territory - 31 December 2024



DIALYSIS

Table 2.7 and Figures 2.7-2.8 show the age distribution of prevalent dialysis patients in 2024.

Figure 2.7
Dialysis Prevalence (pmp) by Age - 2024

Age	Australia	New Zealand
0-4	20 (13)	3 (10)
5-14	24 (7)	2 (3)
15-24	150 (43)	55 (82)
25-34	545 (135)	168 (218)
35-44	1204 (314)	379 (512)
45-54	2247 (677)	571 (877)
55-64	3534 (1152)	882 (1395)
65-74	4033 (1592)	781 (1573)
75-84	3557 (2244)	426 (1435)
85+	710 (1221)	47 (479)

Figure 2.7.1
Prevalent Dialysis Patient Numbers - Australia - 31 December 2024

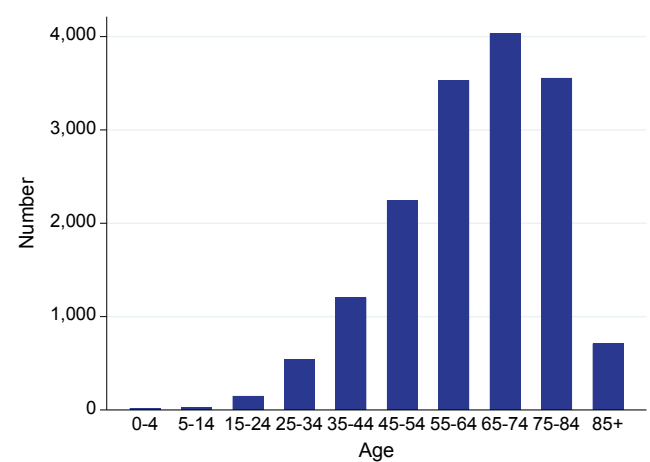


Figure 2.7.2
Prevalent Dialysis Patients Per Million Population - Australia - 31 December 2024

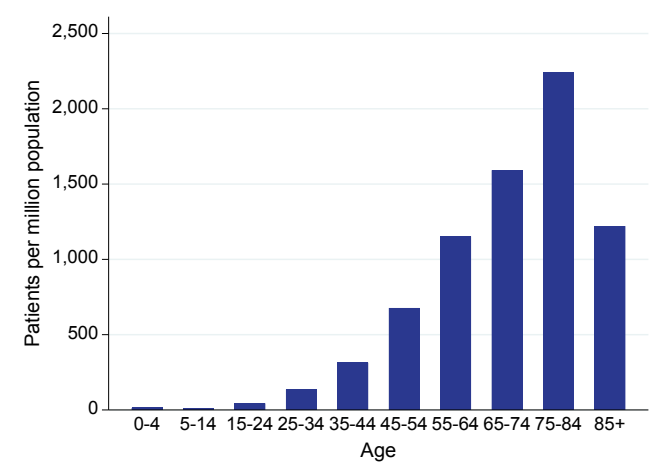


Figure 2.8.1
Prevalent Dialysis Patient Numbers - New Zealand - 31 December 2024

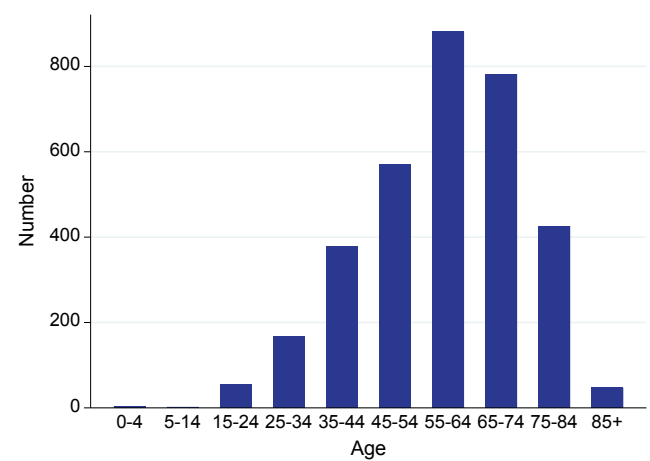


Figure 2.8.2
Prevalent Dialysis Patients Per Million Population - New Zealand - 31 December 2024

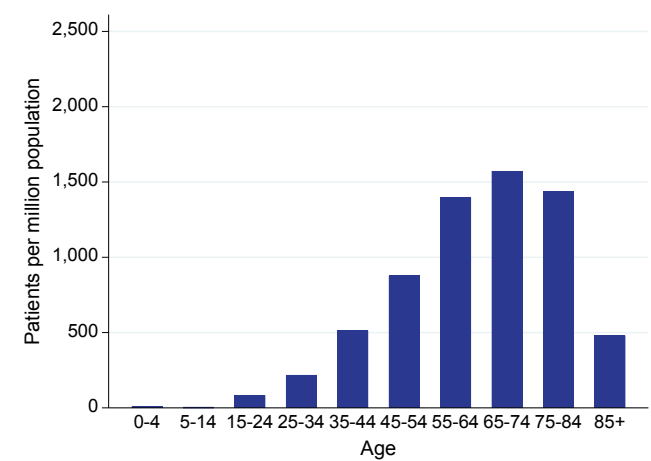


Figure 2.9 and Table 2.8 show trends in the method and location of dialysis in Australia and New Zealand over 2020-2024.

Figure 2.9.1
Method and Location of Dialysis - Australia, 2020-2024

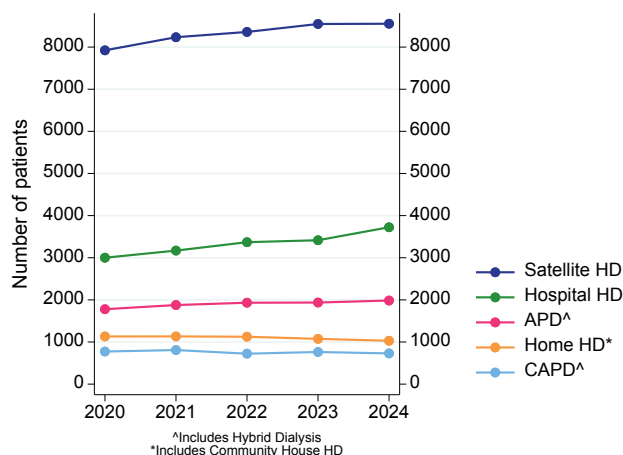


Figure 2.9.2
Method and Location of Dialysis - New Zealand, 2020-2024

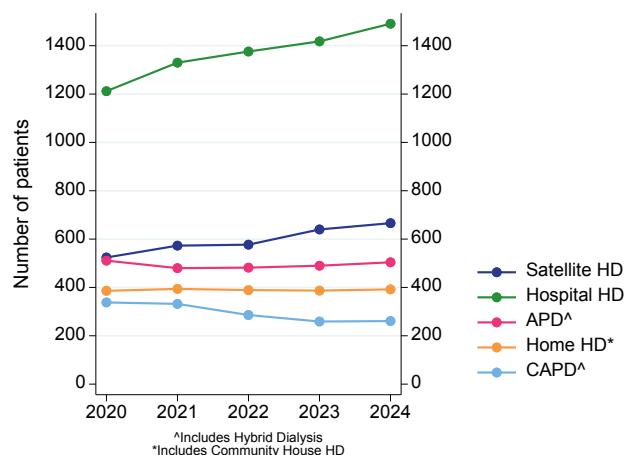


Table 2.8
Method and Location of Dialysis 2020-2024

Country	Dialysis type	Modality	2020	2021	2022	2023	2024
Australia	PD	APD	1779 (70%)	1878 (70%)	1933 (73%)	1919 (72%)	1954 (73%)
		CAPD	774 (30%)	809 (30%)	723 (27%)	760 (28%)	726 (27%)
		Total	2553	2687	2656	2679	2680
	HD	Hospital	3001 (25%)	3170 (25%)	3370 (26%)	3416 (26%)	3724 (28%)
		Satellite	7924 (66%)	8235 (66%)	8360 (65%)	8549 (66%)	8555 (64%)
		Home	1107 (9%)	1113 (9%)	1115 (9%)	1069 (8%)	1025 (8%)
		Community House*	25 (0%)	20 (0%)	10 (0%)	6 (0%)	5 (0%)
		Total	12057	12538	12855	13040	13309
	Hybrid	Hybrid Dialysis ^A	-	-	-	21	35
New Zealand	PD	APD	511 (60%)	480 (59%)	482 (63%)	487 (65%)	503 (66%)
		CAPD	338 (40%)	332 (41%)	286 (37%)	257 (35%)	261 (34%)
		Total	849	812	768	744	764
	HD	Hospital	1212 (57%)	1330 (58%)	1376 (59%)	1418 (58%)	1491 (58%)
		Satellite	524 (25%)	573 (25%)	577 (25%)	640 (26%)	666 (26%)
		Home	354 (17%)	366 (16%)	357 (15%)	348 (14%)	347 (14%)
		Community House*	32 (2%)	28 (1%)	32 (1%)	39 (2%)	45 (2%)
		Total	2122	2297	2342	2445	2549
	Hybrid	Hybrid Dialysis ^A	-	-	-	5	1

*Community House was collected from 2020 onwards, as a modality of treatment

^AHybrid Dialysis (combined concurrent peritoneal dialysis and haemodialysis) was collected from 2023 onwards, as a modality of treatment

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CO-MORBIDITIES

Figure 2.10 shows trends in the prevalence of co-morbidities (with 95% CIs) in prevalent KRT patients over the last 10 years. Figure 2.11 shows the prevalence of diabetes.

Figure 2.10.1
Comorbid Conditions at End of Year - Australia

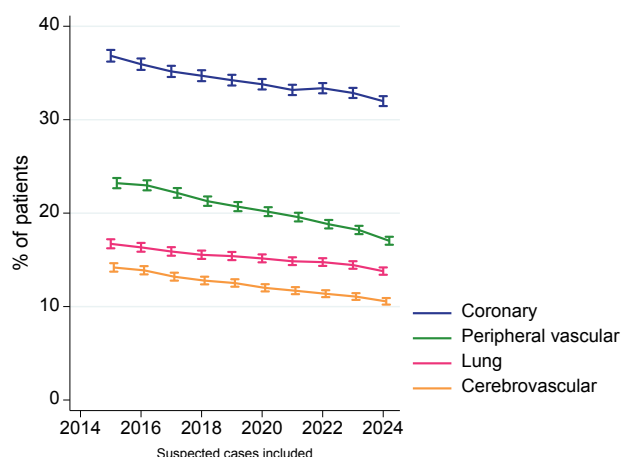


Figure 2.10.2
Comorbid Conditions at End of Year - New Zealand

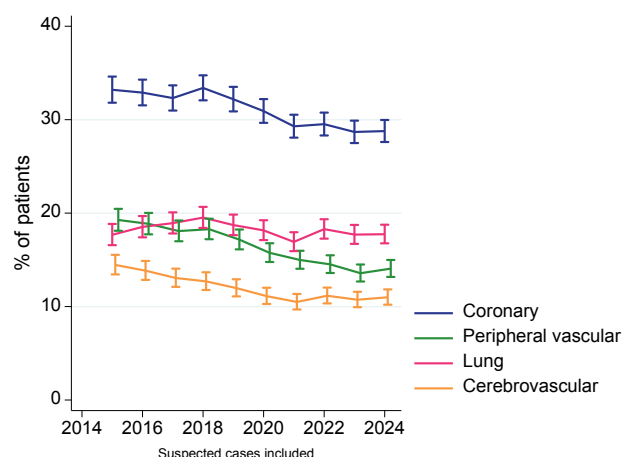


Figure 2.11
Diabetes Status at End of Year

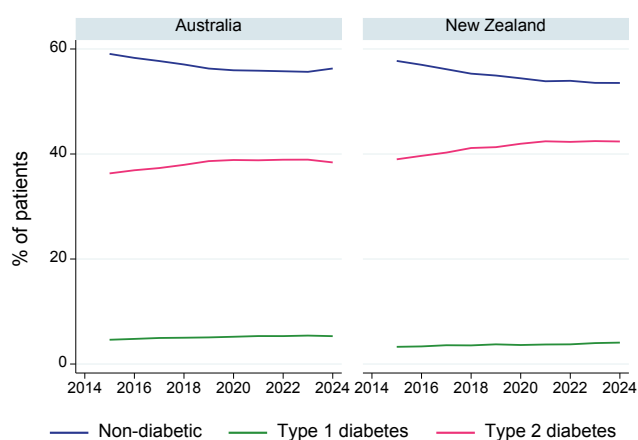


Table 2.9 shows the number of dialysis patients in Australia and New Zealand diagnosed with Calciphylaxis in a survey year, over 2020-2024.

Table 2.9
Calciphylaxis Reported in Dialysis Patients, 2020-2024

Country	Dialysis Modality	2020	2021	2022	2023	2024
Australia	HD	61	65	54	62	79
	PD^	4	7	13	5	14
New Zealand	HD	13	16	32	27	37
	PD^	6	5	7	10	12

^Includes Hybrid Dialysis

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REFERENCES

1. Australian Bureau of Statistics, 2024, Quarterly Population Estimates (ERP), by State/Territory, Sex and Age, Jun 2024, viewed 12 Dec 2024, <https://www.abs.gov.au/statistics/people/population/national-state-and-territory-population/jun-2024>
2. This work is based on/includes Stats NZ's data which are licensed by Stats NZ for re-use under the Creative Commons Attribution 4.0 International licence. Stats NZ, 2024, Estimated Resident Population by Age and Sex (1991+) (Annual-Jun), NZ Infoshare, viewed 12 Dec 2024, <http://infoshare.stats.govt.nz/>
3. Australian Bureau of Statistics, 2025, Regional Population by Age and Sex, Australia, 2024, viewed 28 Aug 2025, <https://www.abs.gov.au/statistics/people/population/regional-population-age-and-sex/2024>



CHAPTER 2

Prevalence of Kidney Failure with
Replacement Therapy