

### **CHAPTER 2**

# NEW PATIENTS COMMENCING TREATMENT IN 2011

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2012 Annual Report—35th Edition



Figure 2.1 Annual Intake of New Patients 2007 - 2011 (Number Per Million Population) 2007 2008 2009 2010 2011 443 (99) Queensland 467 (112) 534 (125) 490 (112) 448 (101) New South Wales 760 (114) 812 (120) 761 (111) 721 (104) 761 (109) Aust. Capital Territory 55 (100) 61 (109) 41 (73) 53 (92) 53 (91) Victoria 540 (102) 547 (101) 573 (105) 595 (108) 545 (105) Tasmania 55 (111) 54 (108) 58 (115) 47 (92) 52 (102) South Australia 166 (105) 185 (116) 207 (128) 179 (110) 182 (111) Northern Territory 76 (353) 90 (407) 72 (317) 65 (282) 83 (359) Western Australia 258 (122) 273 (125) 245 (109) 233 (101) 284 (121) 2382 (113) 2453 (110) Australia 2549 (119) 2421 (111) 2319 (105)

497 (116)

583 (135)

512 (117)

477 (108)

#### INTAKE OF NEW PATIENTS

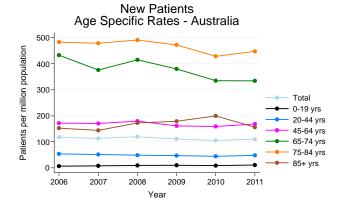
There were 2453 patients who commenced treatment for end-stage renal failure in Australia in 2011, a rate of 110 per million population.

Incidence rates have stabilised over the past 5 years.

In New Zealand, the number of new patients commencing renal replacement treatment was 477, a rate of 108 per million of population. This rate has been essentially stable since 2007.

Figure 2.2

New Zealand



468 (111)

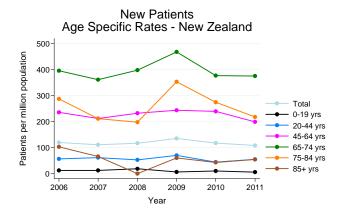
#### AGE OF NEW PATIENTS

In Australia in 2011, all age groups except 65-74 and 85+ years showed increased rates for acceptance of new patients compared to 2010. The largest increases were in the groups 65-69 years, and the 75-79 year group, from 489 to 524 per million (Figure 2.4).

The mean age of patients entering programs in Australia in 2011 was 60 years and the median 62.3 years (Figure 2.5).

In New Zealand, the mean age of patients entering was 57.5 years and the median 59.1 years (Figure 2.5).

Figure 2.3



Within the older age groups in Australia, only the 70-74 and  $\geq$  85 year age groups decreased in numbers in 2011 (Figure 2.4).

In New Zealand there were decreases in 60-64 and 70-79 age groups in 2011.

Rates in most age groups ≥ 70 years, were higher in Australia than in New Zealand, particularly for those 75 years or older.

Figure 2.4 Acceptance of Elderly New Patients 2007 - 2011 (Number Per Million Population) Country **Age Groups** 2007 2008 2009 2010 2011 273 (257) 287 (255) 268 (229) 277 (230) 281 (227) 60-64 years 289 (303) 65-69 years 248 (308) 302 (364) 286 (330) 251 (277) 70-74 years 297 (460) 317 (480) 302 (444) 288 (411) 270 (375) 284 (514) 285 (517) 295 (535) 270 (489) 292 (524) Australia 75-79 years 80-84 years 179 (432) 194 (458) 169 (392) 155 (353) 156 (352) >=85 years 49 (144) 61 (172) 66 (179) 77 (200) 63 (156) Total 1330 (348) 1446 (366) 1386 (341) 1318 (314) 1351 (313) 60-64 years 58 (294) 65 (307) 72 (325) 93 (404) 59 (249) 65-69 years 56 (343) 65 (392) 75 (437) 70 (397) 75 (416) 70-74 years 47 (384) 51 (405) 66 (507) 48 (350) 47 (324) New 49 (468) 75-79 years 29 (278) 29 (277) 33 (314) 22 (208) Zealand 80-84 years 9 (119) 7 (90) 16 (202) 18 (223) 19 (230) 4 (55) >=85 years 4 (66) 0 (0) 4 (60) 3 (43) 265 (331) Total 203 (280) 217 (290) 282 (364) 226 (274)

#### STATE OF ORIGIN OF NEW PATIENTS

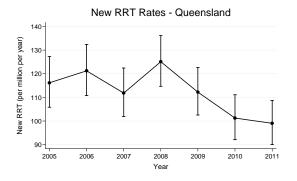
The age at start of dialysis varied little between States (Figure 2.5) except Northern Territory. The highest acceptance rates were in the Northern Territory (350 per million) (Figure 2.6).

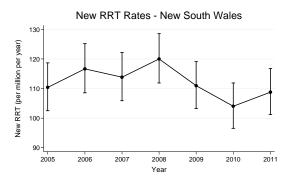
Figure 2.5																				
	Age and Gender of New Patients 1-Jan-2011 to 31-Dec-2011 (n = Number of Patients)																			
Age Groups	Ql (n=4		NS (n=		A0 (n=		VI (n=!		T/ (n=			A 182)	N (n=	IT :83)	W (n=2			JST 2453)		I <b>Z</b> 477)
Years	F	М	F	М	F	М	F	М	F	М	F	М	F	М	F	М	F	М	F	М
00-04	0	2	4	1	0	0	1	4	0	0	0	1	0	0	0	1	5	9	1	2
05-14	5	2	3	5	0	0	0	4	0	0	2	0	0	0	1	0	11	11	2	0
15-24	5	9	9	10	1	0	7	8	0	0	0	4	3	2	1	2	26	35	2	10
25-34	8	13	13	12	2	2	11	16	0	2	5	4	4	1	6	6	49	56	6	16
35-44	20	23	21	36	1	3	27	25	1	6	6	10	14	6	24	15	114	124	20	30
45-54	32	41	46	64	2	4	34	47	3	3	15	23	15	11	15	32	162	225	37	53
55-64	30	57	69	106	4	7	52	83	7	6	15	23	15	8	32	42	224	332	54	77
65-74	43	67	79	104	2	12	57	99	4	7	16	20	3	1	19	26	223	336	45	77
75-84	38	36	62	105	2	7	30	74	3	10	10	22	0	0	16	33	161	287	10	31
>=85	3	9	5	7	1	3	2	14	0	0	2	4	0	0	4	9	17	46	1	3
Total	184	259	311	450	15	38	221	374	18	34	71	111	54	29	118	166	992	1461	178	299
Mean age	59	59.3	60.6	61.8	58.2	64.9	58.6	61.6	63.8	61.2	58.4	59.9	48.3	48.3	57.6	61.3	58.7	60.9	57.1	57.7
Mean age	59	).2	61	.3	6	3	60	.5	62	2.1	59	9.3	48	3.3	59	).7	6	0	57	7.5
Median age	61	.5	64	.1	65	.3	63	3.4	64	1.3	60	0.6	49	9.9	60	).5	62	2.3	59	9.1
Age range	2.7 -	90.7	0.2 -	89.3	16.7 -	90.2	0 - 8	39.8	26.4	84.2	3.5	- 90	19.6	- 67.6	3.7 -	90.7	0 -	90.7	1.5 -	87.1

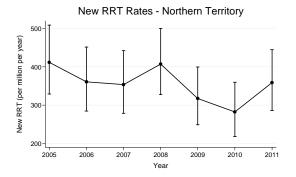
#### INCIDENCE RATES FOR NEW RRT PATIENTS BY STATE

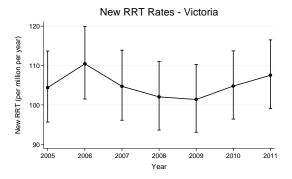
#### Figure 2.6

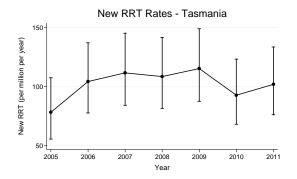
Incidence rates (95% confidence intervals) for new RRT patients by State. Note the Y axis scales for each State are different. ACT population data includes the adjacent area of NSW (serviced by Canberra).

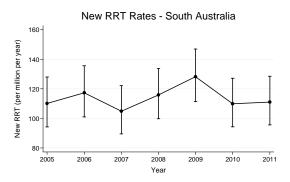


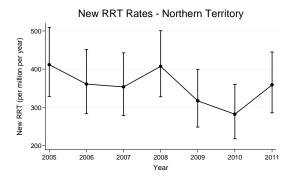


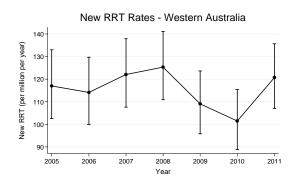








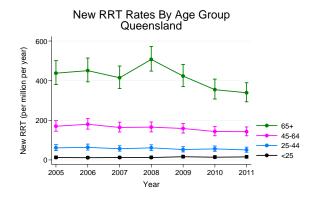


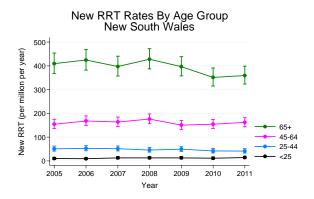


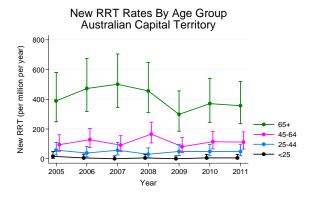
#### INCIDENCE RATES FOR NEW RRT PATIENTS BY AGE GROUPS

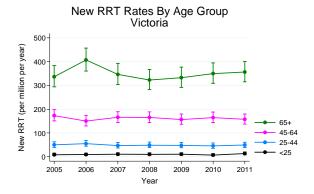
#### Figure 2.7

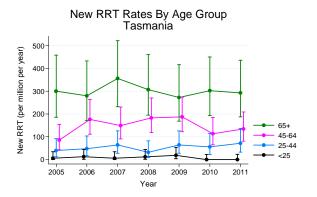
Incidence rates (95% confidence intervals) for new RRT patients by state and age groups. Note the Y axis scales for each state are different. ACT population data includes the adjacent area of NSW (serviced by Canberra).

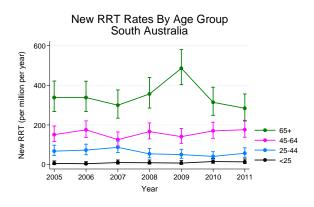


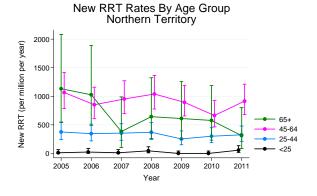


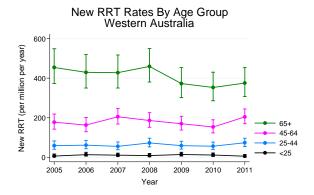












#### LATE REFERRAL

In total 22% of all new patients in Australia and New Zealand both were referred "late" to nephrological care, i.e. less than three months before first treatment (Figure 2.8). There is some variation with age and patterns differ between Australia and New Zealand (Figure 2.9). Late referral rates have been essentially stable for a number of years (Figure 2.10).

Among the states/territories, the lowest rate was 8% in the Tasmania ranging to 40% in Northern Territory. Variation with racial origin is shown in Figure 2.11. Higher rates are seen among ATSI and Maori's.

		La	te Refe	erral of	New F	Patient	s			
		N	umber c	f Patien	ts (% P	atients)				
Primary Renal Disease	QLD	NSW	ACT	VIC	TAS	SA	NT	WA	Aust	NZ
LATE REFERRAL										
Analgesic	0 (0%)	1 (1%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (2%)	2 (0%)	1 (1%)
T1 diabetes	2 (2%)	4 (2%)	0 (0%)	6 (5%)	0 (0%)	0 (0%)	0 (0%)	2 (4%)	14 (3%)	2 (2%)
T2 diabetes	25 (25%)	44 (22%)	1 (8%)	34 (26%)	0 (0%)	5 (24%)	24 (73%)	22 (46%)	155 (28%)	31 (30%)
Glomerulonephritis	23 (23%)	49 (25%)	2 (15%)	37 (28%)	0 (0%)	6 (29%)	1 (3%)	11 (23%)	129 (24%)	28 (27%)
Hypertension	13 (13%)	39 (20%)	3 (23%)	12 (9%)	1 (25%)	3 (14%)	2 (6%)	6 (13%)	79 (14%)	6 (6%)
Miscellaneous	24 (24%)	39 (20%)	3 (23%)	30 (23%)	2 (50%)	2 (10%)	2 (6%)	4 (8%)	106 (19%)	23 (22%)
Polycystic	3 (3%)	7 (4%)	0 (0%)	2 (2%)	0 (0%)	1 (5%)	0 (0%)	1 (2%)	14 (3%)	2 (2%)
Reflux	2 (2%)	1 (1%)	1 (8%)	1 (1%)	0 (0%)	1 (5%)	3 (9%)	0 (0%)	9 (2%)	3 (3%)
Uncertain	10 (10%)	13 (7%)	3 (23%)	8 (6%)	1 (25%)	3 (14%)	1 (3%)	1 (2%)	40 (7%)	7 (7%)
Subtotals	102 (23%)	197 (26%)	13 (25%)	130 (22%)	4 (8%)	21 (12%)	33 (40%)	48 (17%)	548 (22%)	103 (22%)
NOT LATE REFERRAL										
Analgesic	5 (1%)	20 (4%)	0 (0%)	3 (1%)	0 (0%)	1 (1%)	0 (0%)	1 (0%)	30 (2%)	4 (1%)
T1 diabetes	17 (5%)	23 (4%)	1 (3%)	21 (5%)	8 (17%)	8 (5%)	1 (2%)	5 (2%)	84 (4%)	17 (5%)
T2 diabetes	107 (31%)	180 (32%)	9 (23%)	143 (31%)	13 (27%)	49 (30%)	29 (59%)	86 (37%)	616 (32%)	149 (40%)
Glomerulonephritis	65 (19%)	112 (20%)	10 (25%)	130 (28%)	10 (21%)	38 (24%)	5 (10%)	63 (27%)	433 (23%)	85 (23%)
Hypertension	61 (18%)	89 (16%)	7 (18%)	49 (11%)	6 (13%)	18 (11%)	8 (16%)	41 (17%)	279 (15%)	44 (12%)
Miscellaneous	29 (9%)	64 (11%)	6 (15%)	55 (12%)	4 (8%)	14 (9%)	1 (2%)	18 (8%)	191 (10%)	26 (7%)
Polycystic	20 (6%)	33 (6%)	3 (8%)	36 (8%)	3 (6%)	16 (10%)	1 (2%)	14 (6%)	126 (7%)	24 (7%)
Reflux	11 (3%)	13 (2%)	2 (5%)	10 (2%)	1 (2%)	4 (2%)	1 (2%)	3 (1%)	45 (2%)	6 (2%)
Uncertain	26 (8%)	27 (5%)	2 (5%)	18 (4%)	3 (6%)	13 (8%)	3 (6%)	4 (2%)	96 (5%)	14 (4%)
Subtotals	341 (77%)	561 (74%)	40 (75%)	465 (78%)	48 (92%)	161 (88%)	49 (60%)	235 (83%)	1900 (78%)	369 (78%)
Total (100%)	443	758	53	595	52	182	82	283	2448	472

Figure 2.9										
La	te Refer					uding Proto	e-emptiv c-2011	e Transp	olants	
Country					Age Groups	5				Total
Country	0-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	>=85	- Total
Australia										
Late referral	31 (20%)	95 (35%)	148 (26%)	265 (24%)	420 (22%)	555 (21%)	606 (21%)	476 (21%)	95 (30%)	2691 (22%)
Not late referral	123 (80%)	178 (65%)	423 (74%)	853 (76%)	1501 (78%)	2082 (79%)	2243 (79%)	1802 (79%)	221 (70%)	9426 (78%)
Total	154	273	571	1118	1921	2637	2849	2278	316	12117
New Zealand										
Late referral	12 (40%)	37 (49%)	29 (25%)	61 (23%)	113 (22%)	97 (14%)	95 (16%)	47 (20%)	0 (0%)	491 (19%)
Not late referral	18 (60%)	39 (51%)	88 (75%)	201 (77%)	411 (78%)	580 (86%)	505 (84%)	183 (80%)	15 (100%)	2040 (81%)
Total	30	76	117	262	524	677	600	230	15	2531

Figure 2.10										
Late Referral - All Modes of Treatment Including Pre-emptive Transplants 2007 to 2011										
	Years									
Country	2007	2008	2009	2010	2011					
Australia										
Late referral	562 (24%)	556 (22%)	507 (21%)	518 (22%)	548 (22%)					
Not late referral	1820 (76%)	1993 (78%)	1914 (79%)	1799 (78%)	1900 (78%)					
Total	2382	2549	2421	2317	2448					
New Zealand										
Late referral	96 (21%)	112 (23%)	97 (17%)	83 (16%)	103 (22%)					
Not late referral	372 (79%)	385 (77%)	486 (83%)	428 (84%)	369 (78%)					
Total	468	497	583	511	472					

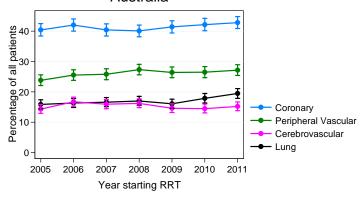
Figure 2.11											
	Late Referral - All Modes of Treatment										
Including Pre-emptive Transplants  By Race 2007 to 2011											
Race											
Country	Asian	Aboriginal/ TSI	Caucasian	Maori	Pacific People	Other					
Australia											
Late referral	224 (22%)	307 (27%)	2025 (21%)	25 (25%)	57 (27%)	53 (27%)					
Not late referral	797 (78%)	831 (73%)	7432 (79%)	75 (75%)	151 (73%)	140 (73%)					
Total	1021	1138	9457	100	208	193					
New Zealand											
Late referral	27 (14%)	-	204 (18%)	162 (21%)	96 (21%)	2 (17%)					
Not late referral	160 (86%)	-	901 (82%)	597 (79%)	372 (79%)	10 (83%)					
Total	187	-	1105	759	468	12					
Notes: Maori a		es who were residented in the 2011 A				shown.					

#### **CO-MORBID CONDITIONS**

Co-morbid conditions at entry to RRT are shown in Figures 2.12 - 2.18. In Australia, the proportion of people with reported coronary artery disease, chronic lung disease and peripheral vascular disease at the onset of dialysis is gradually climbing (Figure 2.13). See Appendix II and III for further analyses of co-morbid conditions.

Figure 2.	12								
Co-morbid Conditions at Entry to Program 2011  Number of Patients (% Patients)									
Country		Chronic Lung Disease	Coronary Artery Disease	Peripheral Vascular Disease	Cerebro- Vascular Disease	Sm	oking	<b>Diabetes</b> (Including Diabetic Nephropathy	
	Yes	347 (14%)	832 (34%)	442 (18%)	278 (11%)	Current	298 (12%)	Type 1	104 (4%)
Australia	Suspected	130 (5%)	218 (9%)	224 (9%)	95 (4%)	Former	1036 (42%)	Type 2	1035 (42%
n=2453	No	1976 (81%)	1403 (57%)	1787 (73%)	2080 (85%)	Never	1110 (45%)	No	1315 (54%)
New	Yes	65 (14%)	115 (24%)	64 (13%)	49 (10%)	Current	79 (17%)	Type 1	19 (4%)
Zealand	Suspected	25 (5%)	41 (9%)	23 (5%)	9 (2%)	Former	195 (41%)	Type 2	217 (46%)
n=477	No	387 (81%)	321 (67%)	390 (82%)	419 (88%)	Never	196 (42%)	No	240 (50%)

Figure 2.13 Comorbid Conditions at Entry to RRT Australia

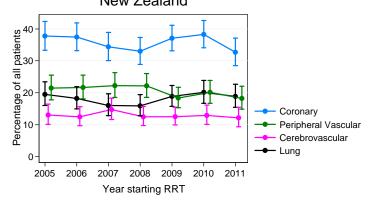


(Suspected cases included)

Figure 2.14

Comorbid Conditions at Entry to RRT

New Zealand



(Suspected cases included)

Figure 2.15

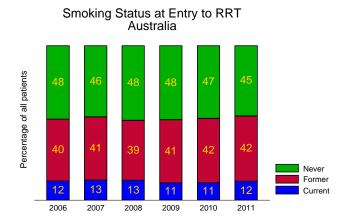


Figure 2.16

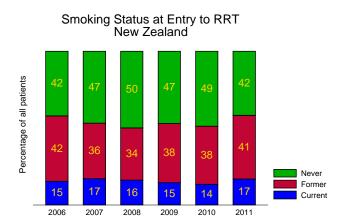


Figure 2.17

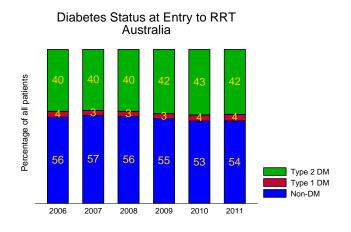
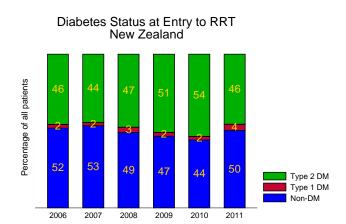


Figure 2.18



## PRIMARY RENAL DISEASE OF NEW PATIENTS

The coding of primary renal disease in ANZDATA has remained unchanged for many years. During that time, a number of new disease entities have emerged, and the understanding of others considerably evolved. To better reflect this, a project is underway to review and modify the categories used to report primary renal disease in future reports. It is likely the introduction of these codes will be staged over several years.

#### **A**USTRALIA

**Diabetic nephropathy** (35% of all new patients), continued as the most common cause of primary renal disease (Figure 2.19).

**Glomerulonephritis** (23%) was the next most common cause of ESRD, followed by hypertension (15%), polycystic kidney disease (6%), reflux nephropathy (2%).

**IgA + mesangioproliferative GN** (26% of all GN) was the most common histologically proven form of glomerulonephritis (Figure 2.20).

**Miscellaneous diseases** causing end stage renal failure are tabulated in Figure 2.21.

A renal biopsy based diagnosis was reported in 31% of cases: glomerulonephritis 76%, hypertension 21% and diabetes (types I and II) 15%, (Figure 2.22).

#### **NEW ZEALAND**

**Diabetic nephropathy** (42%) was the most common cause of ESRD followed by glomerulonephritis (24%) and hypertension (11%).

IgA nephropoathy and focal sclerosis are the most common forms of GN in New Zealand (causing end -stage kidney disease).

Figure 2.19 Causes of ESRD 2008 - 2011 **Number of Patients (% Patients)** Disease 2008 2009 2010 2011 **Australia** Glomerulonephritis 575 (23%) 589 (24%) 497 (21%) 563 (23%) Analgesic Nephropathy 51 (2%) 41 (2%) 37 (2%) 32 (1%) Polycystic Kidney Disease 161 (6%) 176 (7%) 167 (7%) 140 (6%) Reflux 76 (3%) 80 (3%) 60 (3%) 54 (2%) Hypertension 366 (14%) 344 (14%) 318 (14%) 358 (15%) Diabetic Nephropathy 867 (34%) 781 (32%) 823 (35%) 870 (35%) Miscellaneous 263 (10%) 264 (11%) 284 (12%) 298 (12%) Uncertain diagnosis 146 (6%) 133 (6%) 138 (6%) 190 (7%) Australia Total 2549 2421 2319 2453 **New Zealand** Glomerulonephritis 103 (21%) 125 (21%) 111 (22%) 114 (24%) Analgesic Nephropathy 2 (0%) 2 (0%) 2 (0%) 5 (1%) Polycystic Kidney Disease 34 (6%) 17 (3%) 26 (5%) 23 (5%) Reflux 14 (3%) 9 (2%) 8 (2%) 9 (2%) Hypertension 44 (9%) 51 (11%) 62 (11%) 58 (11%) Diabetic Nephropathy 200 (42%) 227 (46%) 278 (48%) 259 (51%) Miscellaneous 62 (12%) 54 (9%) 41 (8%) 49 (10%) Uncertain diagnosis 22 (4%) 19 (3%) 16 (3%) 23 (5%)

#### Figure 2.20

NZ Total

#### Types of Glomerulonephritis 1-Jan-2011 to 31-Dec-2011 Number (% of all GN)

583

512

477

497

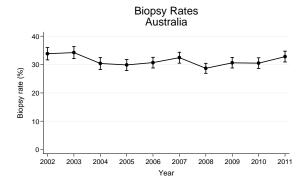
	Australia	New Zealand
Advanced Gn (unclassified=end stage)	13 (2%)	7 (6%)
Extra and intra capillary Gn (rapidly progressive)	15 (3%)	0 (0%)
Familial Gn (including alports)	16 (3%)	2 (2%)
Focal and segmental proliferative GN	28 (5%)	4 (4%)
Focal sclerosing Gn (including hyalinosis)	33 (6%)	6 (5%)
GN other (specify)	13 (2%)	4 (4%)
GN with systemic disease (specify)	3 (1%)	0 (0%)
Goodpastures with linear IgG and lung haemorrhage	15 (3%)	3 (3%)
Henoch-schonlein purpura	5 (1%)	1 (1%)
Membranous GN	38 (7%)	5 (4%)
Mesangial proliferative (IgA+)	147 (26%)	19 (17%)
Mesangial proliferative (IgA-)	5 (1%)	1 (1%)
Mesangial proliferative (no if studies)	2 (<1%)	1 (1%)
Mesangiocapillary GN (dense deposit disease)	4 (1%)	0 (0%)
Mesangiocapillary GN (double contour)	10 (2%)	3 (3%)
Microscopic polyarteritis	19 (3%)	4 (4%)
Presumed GN (no biopsy)	87 (15%)	21 (18%)
Primary focal sclerosing GN/focal glomerular sclerosis	47 (8%)	13 (11%)
Proliferative Gn with linear IgG and no lung haemorrhage	2 (<1%)	1 (1%)
S.L.E.	27 (5%)	9 (8%)
Scleroderma	4 (1%)	1 (1%)
Secondary focal sclerosing GN	7 (1%)	4 (4%)
Wegeners granulomatosis	23 (4%)	5 (4%)
Totals	563	114

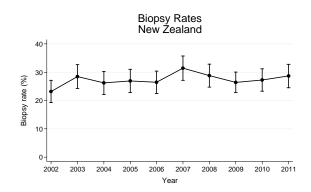
Figure 2.21					
Miscellaneous Ca	uses of	ESRD	1-Jan-2011 to 31-Dec-2011	I	
Renal Disease	Aust NZ (298) (49)		Renal Disease	Aust (298)	NZ (49)
Lead nephropathy	2	49	Medullary cystic disease	10	0
Cadmium toxicity	0	0	Calculi	24	5
Interstitial nephritis	32	1			
Loss of single kidney (trauma-surgery)	1	5	Haemolytic uraemic syndrome	7	1
Oxalosis	3	1	Cortical necrosis	15	0
Cystinosis	1	0			
Lithium toxicity	19	0	Congenital renal hypoplasia and dysplasia	18	2
Calcineurin inhibitor toxicity	9	3	Obstructed megaureter	1	0
Gout	2	3			
			Amyloid disease	23	4
Posterior urethral valves	4	0	Paraproteinaemia (including multiple myeloma)	39	9
Neuropathic bladder	1	0	Light chain nephropathy (not malignant)	2	1
Spina bifida or myelomeningocoele	3	0			
Bladder neck obstruction (incl. prostatomegaly)	5	2	Renal cell carcinoma (Grawitz)	9	4
Other lower urinary tract abnormalities (with 2nd.reflux)	4	0	Transitional cell carcinoma urinary tract	5	0
Ureteric obstructive nephropathy	9	2			
Obstructive nephropathy	23	4	Other	27	2

#### **RENAL BIOPSY RATES**

Renal biopsy rates vary widely with different types of disease (Figure 2.23). In 2011 in Australia, 33% of patients were biopsied, continuing a slow trend over the last 4 years. Rates in New Zealand are somewhat lower, and stable.

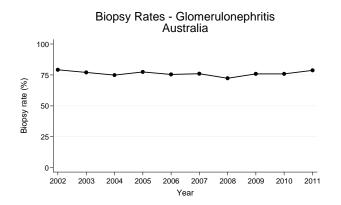
Figure 2.22





	В	iops	y of N	ew P	atie	nts	2011				
Biopsy	Primary Renal Disease	Qld	NSW	ACT	Vic	Tas	SA	NT	WA	Aust	NZ
	Analgesic Nephropathy	0	2	0	0	0	0	0	0	2	0
	Diabetes T1	4	9	0	6	3	2	0	2	26	2
	Diabetes T2	12	43	3	21	2	8	2	11	102	15
W	Glomerulonephritis	68	122	9	142	8	39	3	52	443	88
	Hypertension	18	23	5	13	3	8	0	8	78	6
Yes	Miscellaneous	19	40	7	31	2	3	2	9	113	18
	Polycystic Kidney Disease	3	7	1	2	0	4	1	1	19	1
	Reflux	2	2	0	1	0	2	0	0	7	0
	Uncertain diagnosis	6	4	0	1	0	3	0	0	14	5
	Sub Total	132	252	25	217	18	69	8	83	804	135
	Analgesic Nephropathy	5	19	0	3	0	1	0	2	30	5
	Diabetes T1	15	18	1	21	5	6	1	5	72	17
	Diabetes T2	120	182	7	156	11	46	51	96	669	163
	Glomerulonephritis	20	39	3	25	2	5	3	23	120	26
	Hypertension	56	105	5	48	4	13	10	39	280	44
No	Miscellaneous	34	63	2	54	4	13	1	13	184	31
	Polycystic Kidney Disease	20	33	2	36	3	13	0	14	121	25
	Reflux	11	11	3	10	1	3	4	3	46	9
	Uncertain diagnosis	30	37	5	25	4	13	4	5	123	16
	Sub Total	311	507	28	378	34	113	74	200	1645	336
	Total	443	761	53	595	52	182	83	284	2453	477

Figure 2.24



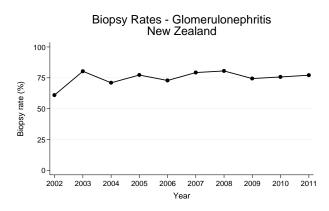


Figure 2.25

