

CHAPTER 1

STOCK AND FLOW

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Figure 1.1

Prevalent Patients 1999 - 2003 (Number Per Million Population at 31 December)					
	1999	2000	2001	2002	2003
Australia Total	11,074 (585)	11,660 (609)	12,304 (634)	12,990 (661)	13,625 (685)
No. Functioning Transplants ● #	5053 (267)	5250 (274)	5454 (281)	5725 (291)	5951 (299)
No. Dialysis Patients	6021 (318)	6410 (335)	6850 (353)	7265 (370)	7674 (386)
Proportion Home *	39%	38%	37%	35%	33%
Proportion Satellite HD	33%	34%	36%	37%	39%
Proportion CAPD/APD	28%	27%	26%	25%	24%
New Zealand Total	2216 (578)	2357 (611)	2530 (652)	2710 (688)	2865 (715)
No. Functioning Transplants ● #	983 (256)	1021 (265)	1060 (273)	1113 (283)	1166 (291)
No. Dialysis Patients	1233 (321)	1336 (346)	1470 (379)	1597 (405)	1699 (424)
Proportion Home *	68%	65%	62%	62%	59%
Proportion Satellite HD	7%	10%	12%	14%	16%
Proportion CAPD/APD	54%	51%	49%	48%	45%

● Country of Transplant
Patients lost to follow up are not included
* Proportion of all patients dialysing currently receiving home-based treatment (either PD or HD)

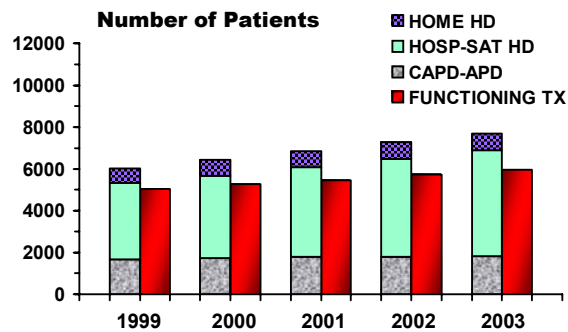
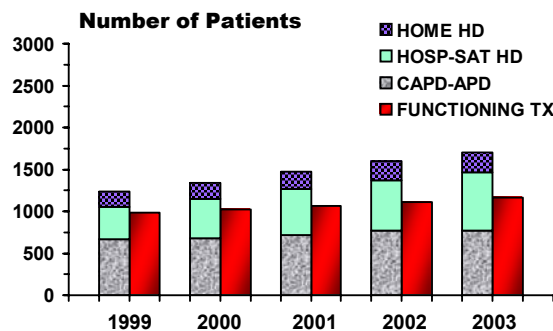
Recent trends towards a reduction in the proportion of home-based therapies (home haemodialysis and continuous ambulatory peritoneal dialysis or automated peritoneal dialysis) in favour of hospital and satellite based therapy have continued (fig 1.1).

Figure 1.2

Patient Flow Summary 1999 - 2003 (Number Per Million Population at 31 December) * Country of Transplant					
	1999	2000	2001	2002	2003
Australia					
Total New Patients	1750 (92)	1755 (92)	1911 (98)	1898 (97)	1953 (98)
Total New Transplants *	455 (24)	531 (28)	541 (29)	604 (31)	543 (27)
Living Donor Transplants	169	181	213	230	218
Subsequent Transplants	52	55	53	67	71
Total Deaths	1074	1147	1241	1190	1260
Dialysis Patients	953	973	1083	1047	1121
Transplant Patients	121	174	158	143	139
New Zealand					
Total New Patients	375 (98)	421 (109)	469 (121)	463 (118)	449 (112)
Total New Transplants *	112 (29)	106 (27)	110 (28)	117 (30)	111 (28)
Living Donor Transplants	42	31	43	48	44
Subsequent Transplants	15	15	9	14	17
Total Deaths	214	271	287	263	289
Dialysis Patients	191	245	262	232	263
Transplant Patients	23	26	25	31	26

The number of new patients appears to have stabilised over the past 3-4 years in both Australia and New Zealand (fig 1.2). The number of new transplants is steady in both countries.

Further details are given for particular groups in Figures 1.4 to 1.9.

Figure 1.3
**Prevalent Dialysis and Transplants
Australia (at 31st December)**

**Prevalent Dialysis and Transplants
New Zealand (at 31st December)**

Figure 1.4
Prevalence and Incidence by Indigenous Racial Origin, 1999 - 2003

(Number Per Million Population Per Year For New Patients)

Aboriginal And Torres Strait Islanders Combined

Race		1999	2000	2001	2002	2003
Australia						
Aboriginal and Torres Strait Islanders	New Patients	157 (382)	150 (358)	175 (410)	171 (393)	168 (379)
	Dialysis	531 (1293)	578 (1379)	643 (1506)	709 (1628)	762 (1717)
	Functioning Transplants	117 (285)	119 (284)	120 (281)	120 (276)	120 (270)
	Transplant Operations	23 (56)	18 (43)	21 (49)	17 (39)	14 (32)
	Deaths	90 (219)	106 (253)	107 (251)	104 (239)	114 (257)
New Zealand						
Maori	New Patients	111 (197)	128 (223)	150 (256)	149 (249)	141 (231)
	Dialysis	400 (711)	421 (734)	461 (787)	535 (895)	582 (955)
	Functioning Transplants	101 (179)	101 (176)	104 (177)	105 (176)	112 (184)
	Transplant Operations	17 (30)	13 (23)	15 (26)	13 (22)	16 (26)
	Deaths	84 (149)	106 (185)	106 (181)	70 (117)	87 (143)
Pacific Islander	New Patients	54 (230)	72 (298)	68 (260)	56 (208)	76 (275)
	Dialysis	205 (872)	252 (1041)	277 (1058)	272 (1012)	306 (1109)
	Functioning Transplants	42 (179)	42 (174)	45 (172)	56 (208)	63 (228)
	Transplant Operations	8 (34)	4 (17)	6 (23)	15 (56)	14 (51)
	Deaths	26 (111)	23 (95)	36 (137)	39 (145)	36 (130)



Figure 1.5

National and State Stock and Flow 1-Jan-2003 to 31-Dec-2003 (31-Dec-2003 Figures) # Patients Lost to Follow-up are not included * Resident State							
State	New Patients	Transplant Operations *	Deaths		Dialysis Dependent	Functioning Transplants # *	Total
			Dialysis	Transplant			
Queensland	408 (375)	117 (115)	215 (198)	27 (26)	1322 (1200)	1229 (1177)	2551 (2377)
New South Wales	624 (583)	180 (175)	348 (354)	44 (48)	2529 (2428)	1755 (1661)	4284 (4089)
Aust.Capital Territory	40 (48)	14 (19)	16 (19)	2 (2)	186 (177)	162 (146)	348 (323)
Victoria	438 (472)	115 (152)	293 (260)	33 (34)	1984 (1935)	1442 (1403)	3426 (3338)
Tasmania	36 (36)	16 (9)	31 (16)	1 (3)	149 (143)	127 (120)	276 (263)
South Australia	152 (121)	55 (61)	67 (56)	13 (20)	505 (457)	651 (624)	1156 (1081)
Northern Territory	52 (58)	9 (12)	35 (32)	3 (2)	243 (232)	67 (68)	310 (300)
Western Australia	203 (205)	37 (62)	116 (112)	16 (8)	756 (693)	538 (542)	1294 (1235)
Australia	1953 (1898)	543 (605)	1121 (1047)	139 (143)	7674 (7265)	5971 (5741)	13,645 (13,006)
New Zealand	449 (463)	111 (116)	263 (232)	26 (31)	1699 (1597)	1146 (1097)	2845 (2694)

Figure 1.6

Prevalent Transplant and Dialysis Patients 1983 - 2003 Country of Transplant # Patients Lost to Follow-up are not included (Number Per Million Population at 31 December)						
Australia				New Zealand		
Year	Transplant #	Dialysis	Total	Transplant #	Dialysis	Total
1983	1771 (115)	2019 (131)	3790 (246)	318 (99)	339 (105)	657 (203)
1984	1971 (127)	2152 (138)	4123 (265)	348 (107)	370 (113)	718 (220)
1985	2163 (137)	2230 (141)	4393 (278)	377 (115)	402 (122)	779 (237)
1986	2391 (149)	2339 (146)	4730 (295)	426 (129)	402 (122)	828 (250)
1987	2573 (158)	2526 (155)	5099 (314)	452 (135)	437 (131)	889 (266)
1988	2797 (169)	2675 (162)	5472 (331)	484 (145)	482 (144)	966 (289)
1989	3052 (182)	2750 (164)	5801 (345)	531 (158)	527 (156)	1058 (313)
1990	3263 (191)	2955 (173)	6218 (364)	579 (171)	557 (162)	1136 (331)
1991	3490 (202)	3138 (182)	6628 (383)	607 (174)	630 (180)	1237 (354)
1992	3696 (211)	3384 (193)	7080 (404)	677 (192)	674 (191)	1351 (383)
1993	3867 (219)	3704 (210)	7571 (429)	705 (197)	721 (202)	1426 (399)
1994	4056 (227)	4098 (230)	8154 (457)	731 (202)	784 (217)	1515 (418)
1995	4223 (234)	4519 (250)	8742 (484)	783 (213)	851 (232)	1634 (445)
1996	4432 (242)	4883 (267)	9315 (509)	823 (220)	935 (250)	1758 (471)
1997	4673 (252)	5189 (280)	9862 (533)	881 (233)	1018 (269)	1899 (502)
1998	4889 (261)	5536 (296)	10,425 (557)	935 (245)	1128 (296)	2063 (541)
1999	5053 (267)	6021 (318)	11,074 (585)	983 (256)	1233 (321)	2216 (578)
2000	5250 (274)	6410 (335)	11,660 (609)	1021 (265)	1336 (346)	2357 (611)
2001	5454 (281)	6850 (353)	12,304 (634)	1060 (273)	1470 (379)	2530 (652)
2002	5725 (291)	7265 (370)	12,990 (661)	1113 (283)	1597 (405)	2710 (688)
2003	5951 (299)	7674 (386)	13,625 (685)	1166 (291)	1699 (424)	2865 (715)

Figure 1.7

Comparison of Transplant and Dialysis Dependent Patients 1999 - 2003 (Number Per Million Population at 31 December)					
	1999	2000	2001	2002	2003
TRANSPLANTS **					
Queensland	1018 (291)	1070 (300)	1126 (310)	1177 (317)	1229 (324)
New South Wales *	1561 (251)	1573 (250)	1592 (249)	1661 (258)	1755 (270)
Aust. Capital Territory *	108 (218)	126 (252)	134 (261)	146 (283)	162 (312)
Victoria	1206 (257)	1266 (267)	1328 (276)	1403 (289)	1442 (293)
Tasmania	111 (235)	108 (229)	111 (235)	120 (254)	127 (266)
South Australia	547 (365)	565 (375)	597 (394)	624 (411)	651 (426)
Northern Territory	62 (322)	64 (327)	66 (334)	68 (342)	67 (338)
Western Australia	454 (245)	492 (262)	515 (271)	542 (282)	538 (275)
Australia	5067 (268)	5264 (275)	5469 (282)	5741 (292)	5971 (300)
New Zealand	968 (252)	1007 (261)	1045 (269)	1097 (278)	1146 (286)
** By Resident State and Country					
DIALYSIS					
Queensland	953 (272)	1044 (293)	1094 (301)	1200 (323)	1322 (348)
New South Wales *	2075 (333)	2161 (343)	2333 (366)	2428 (377)	2529 (390)
Aust. Capital Territory *	159 (321)	162 (324)	159 (313)	177 (343)	186 (358)
Victoria	1595 (340)	1704 (359)	1851 (385)	1935 (398)	1984 (403)
Tasmania	101 (214)	121 (257)	123 (260)	143 (303)	149 (312)
South Australia	377 (252)	396 (263)	434 (287)	457 (301)	505 (331)
Northern Territory	165 (856)	178 (910)	210 (1061)	232 (1172)	243 (1225)
Western Australia	596 (322)	644 (344)	646 (340)	693 (360)	756 (387)
Australia	6021 (318)	6410 (335)	6850 (353)	7265 (370)	7674 (386)
New Zealand	1233 (321)	1336 (346)	1470 (379)	1597 (405)	1699 (424)
* NSW population excludes residents of the Southern Area Health Service *ACT population includes residents of the Southern Area Health Service (Medical services in the ACT service this Southern Area Region) Transplanted patients lost to follow up have been excluded					

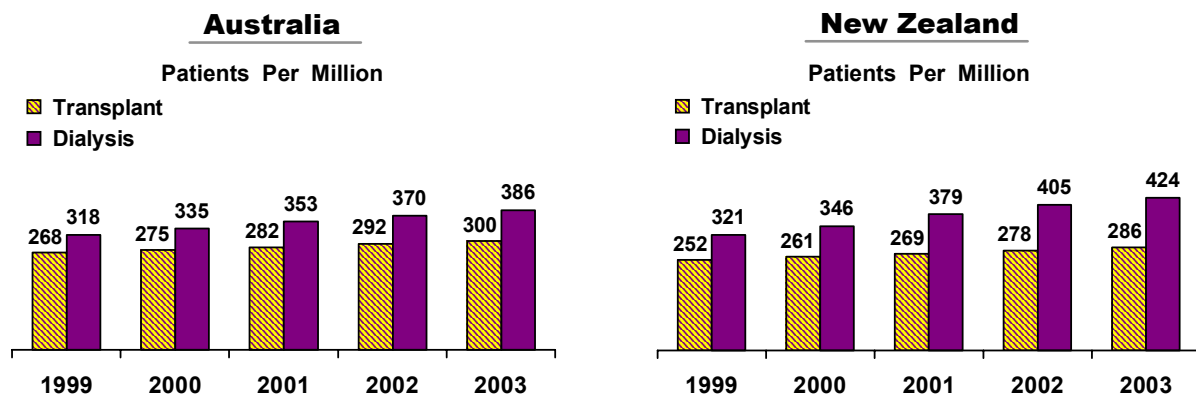
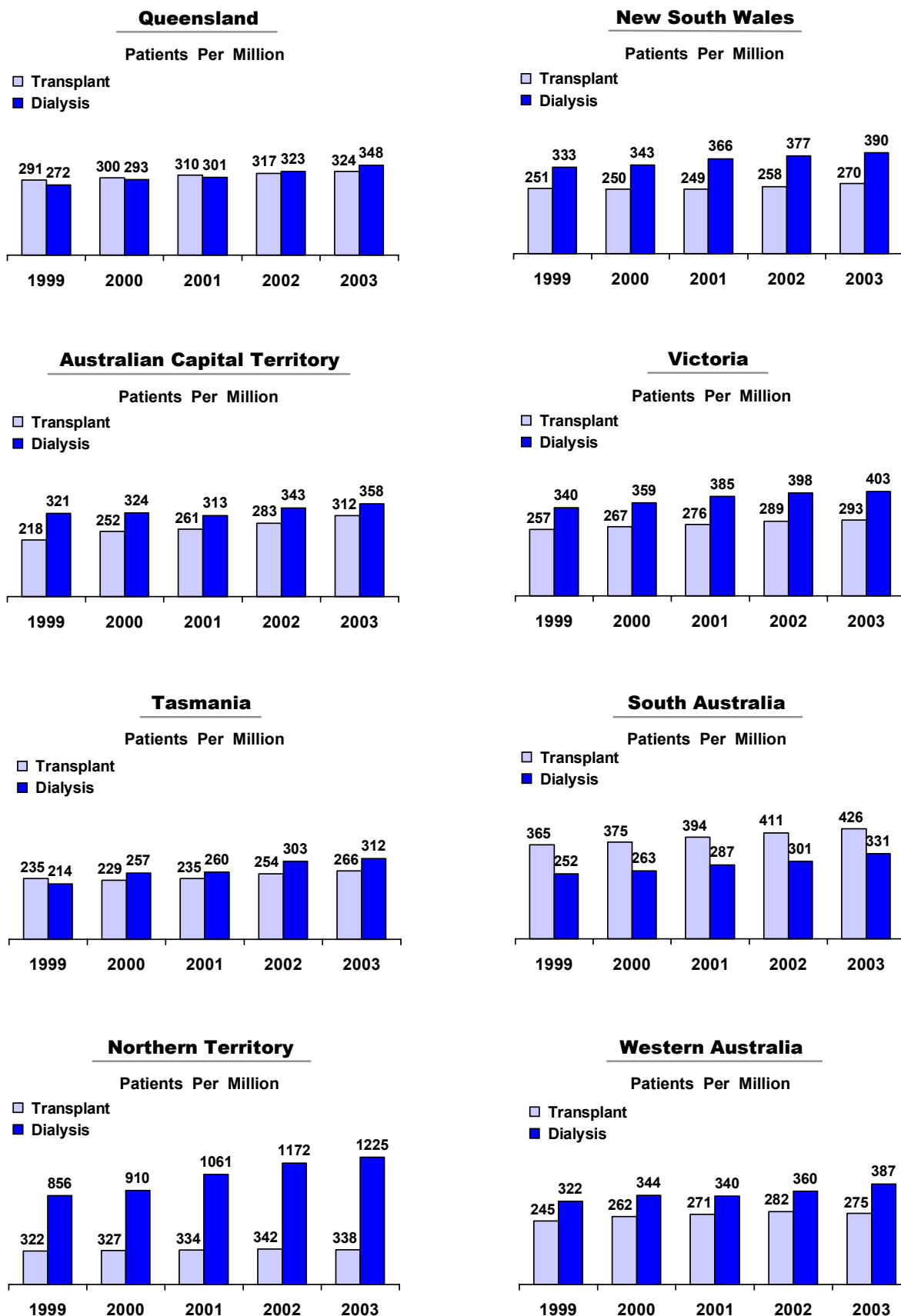
Figure 1.8




Figure 1.9

Comparison of Transplant and Dialysis Dependent Patients 1999-2003



Transplanted patients lost to follow up have been excluded