

Table 2.1.1: Stock and flow – Dialysis Patients 1996 – 2005

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
New Dialysis patients	952	1135	1250	1543	1835	2078	2333	2573	2774	2636
Died	222	315	373	487	586	810	920	1142	1188	1203
Transplanted	56	59	61	69	106	133	143	122	149	93
Lost to Follow-up	5	5	8	10	10	14	21	37	69	120
Dialysing at 31st Dec	2922	3699	4540	5540	6693	7832	9093	10384	11767	12974

Table 2.1.2: Dialysis Treatment Rate per million population 1996 – 2005

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Acceptance rate	45	52	56	68	78	87	95	103	108	101
Prevalence rate	138	171	205	244	285	326	371	415	460	497

Table 2.1.3: Dialysis Treatment Rate by State, per million state population 1996-2005

State	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Pulau Pinang	72	84	112	124	105	122	150	142	197	185
Negeri Sembilan	74	74	92	96	118	112	131	148	157	147
Negeri Melaka	82	95	109	88	150	156	171	180	209	137
Johor Darul Takzim	57	80	71	104	131	138	148	146	150	133
Perak Darul Redzuan	58	62	64	76	106	103	116	129	140	131
Selangor & W. Persekutuan	81	76	91	102	121	119	126	134	140	128
Kedah & Perlis	26	54	47	59	69	68	90	105	96	97
Terengganu Darul Iman	27	36	34	36	37	75	88	68	80	90
Pahang Darul Makmur	16	45	36	46	49	51	53	66	70	73
Kelantan Darul Naim	6	12	15	27	31	59	62	73	64	69
Sarawak	36	46	33	44	51	67	58	62	68	61
Sabah	18	16	24	32	26	36	36	44	48	43

Table 2.2.1: Number of dialysis centres, HD machines and treatment capacity by sector, December 2005

Sector	Centre (No.)	Centre HD machines (No.)	Centre HD capacity (No.)	Centre HD patients (No.)	Centre HD capacity: patient ratio	All dialysis patients (No.)
MOH	137	1042	5210	3428	1.52	4471
NGO	99	1427	7135	4207	1.7	4169
Private (PRV))	144	1317	6585	4112	1.6	3998
University (UNI)	8	54	270	138	1.96	240
Armed Forces (AF)	8	46	230	102	2.25	96

Figure 2.2.1(a): Distribution of dialysis centres by Sector, December 2005

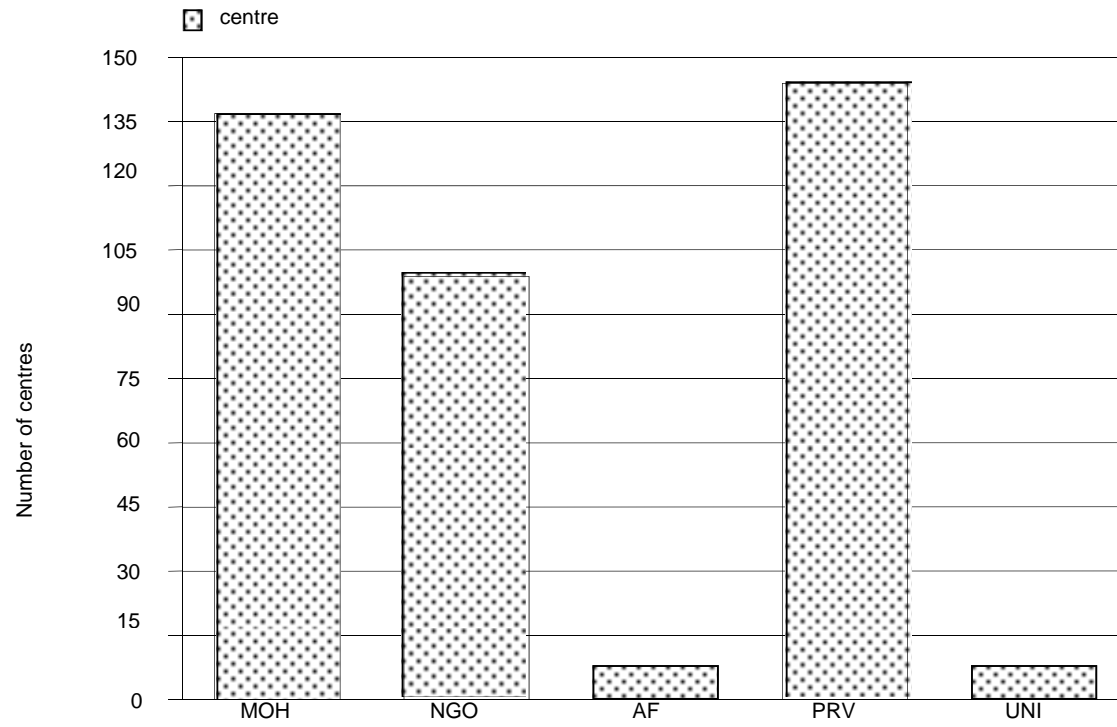


Figure 2.2.1(b): Distribution of HD capacity by Sector, December 2005

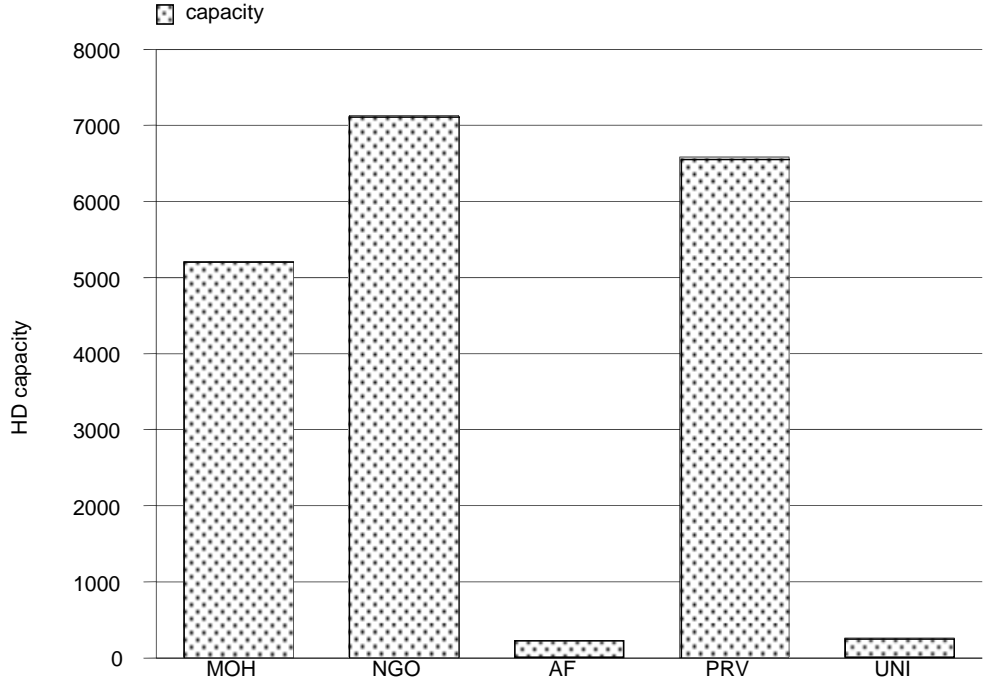


Figure 2.2.1(c): Distribution of dialysis patients by Sector, December 2005

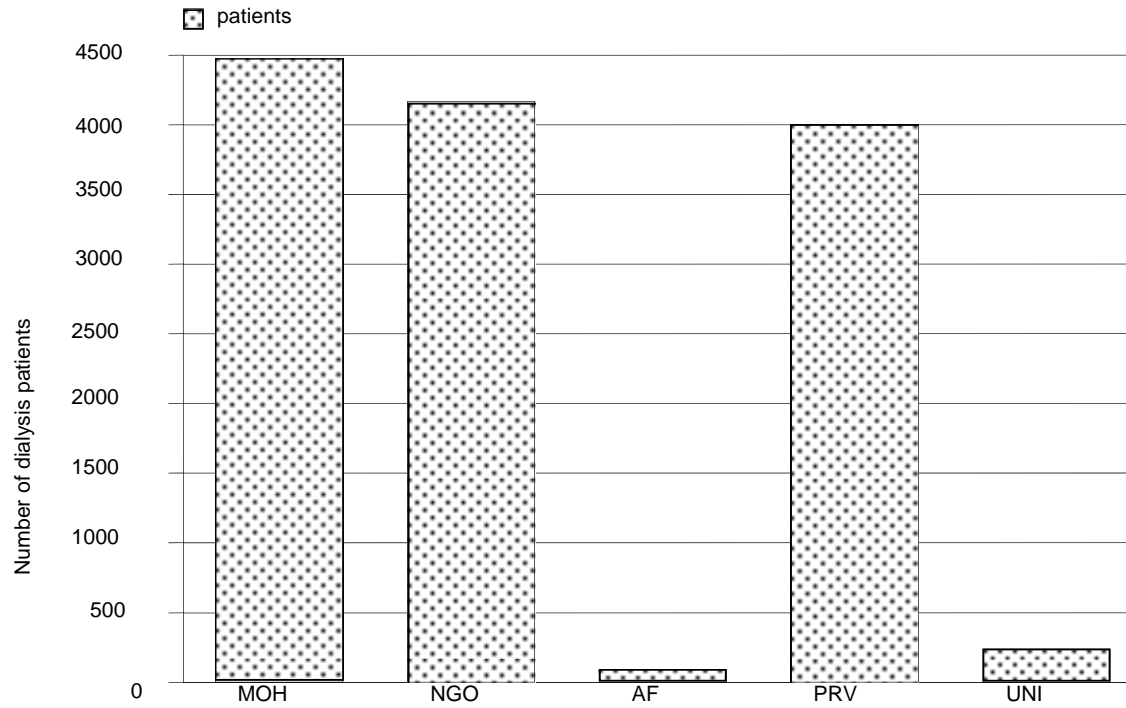


Figure 2.2.1(d): HD capacity: patient ratio by Sector, December 2005

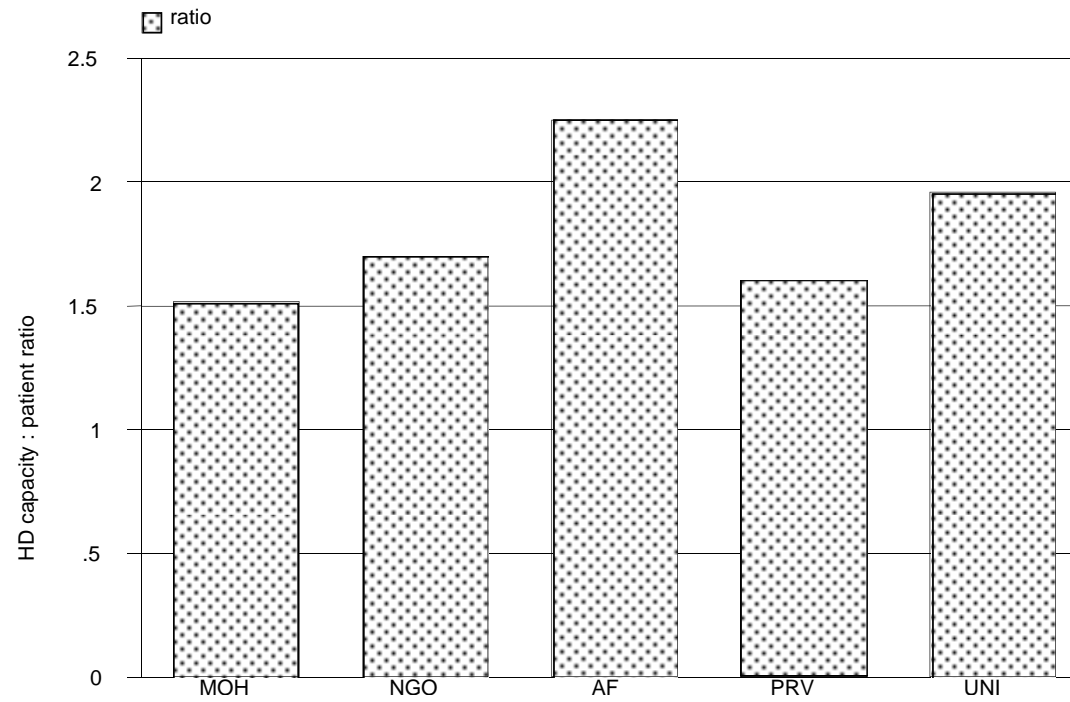


Table 2.2.2: Number of dialysis centres, number of HD machines and treatment capacity, HD capacity to patients ratio and number of dialysis patients by state in Dec 2005.

State	Centre (No.)	Centre HD machines	Centre HD machines pmp	Centre HD capacity (No.)	Centre HD capacity pmp	Centre HD patients (No.)	Centre HD patients pmp	HD capacity: patient ratio	All dialysis patients (No.)	Dialysis treatment rate pmp
Penang (Pe)	36	373	254	1865	1270	1128	768	1.65	1156	787
Melaka (Me)	15	188	264	940	1318	547	767	1.72	530	743
Johor (Jo)	54	570	184	2850	919	1900	613	1.5	2060	664
Selangor & Federal Territory (SF)	111	1174	187	5870	933	3546	564	1.66	3864	614
Perak (Pe)	47	431	191	2155	955	1292	573	1.67	1364	605
Negeri Sembilan (Ne)	12	136	144	680	719	577	610	1.18	559	591
Kedah & Perlis (KP)	28	279	135	1395	673	796	384	1.75	935	451
Sarawak (Sw)	25	218	94	1090	471	729	315	1.5	821	355
Trengganu (Tr)	10	79	78	395	389	271	267	1.46	325	320
Pahang (Pa)	15	141	99	705	494	354	248	1.99	436	306
Kelantan (Ke)	16	117	78	585	389	364	242	1.61	411	273
Sabah (Sb)	27	180	60	900	298	483	160	1.86	513	170
Malaysia	396	3886	149	19430	744	11987	459	1.62	12974	497

Figure 2.2.2(a): Distribution of dialysis centres by State, December 2005

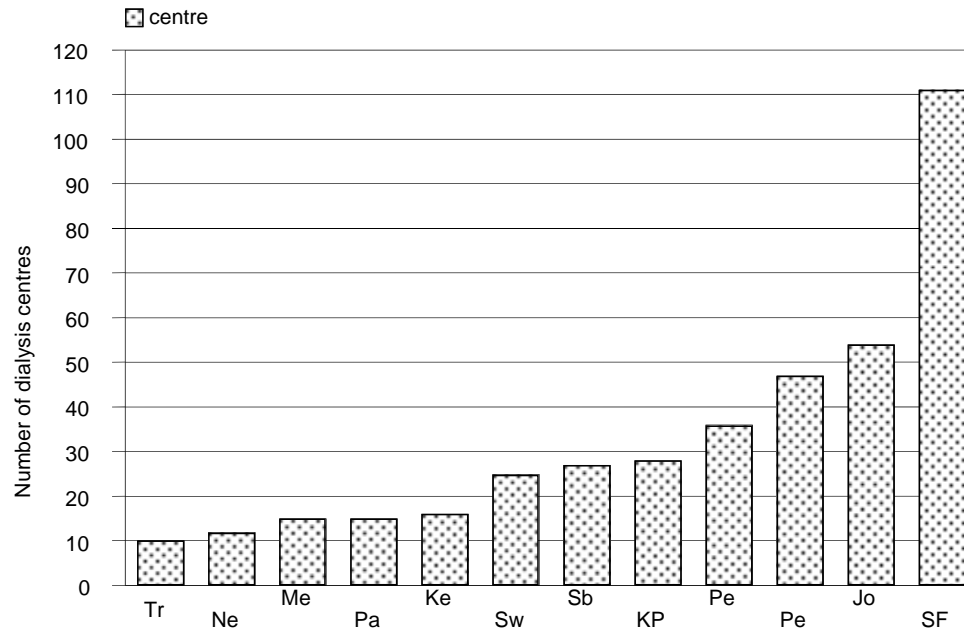


Figure 2.2.2(b): Distribution of dialysis patients by State, December 2005

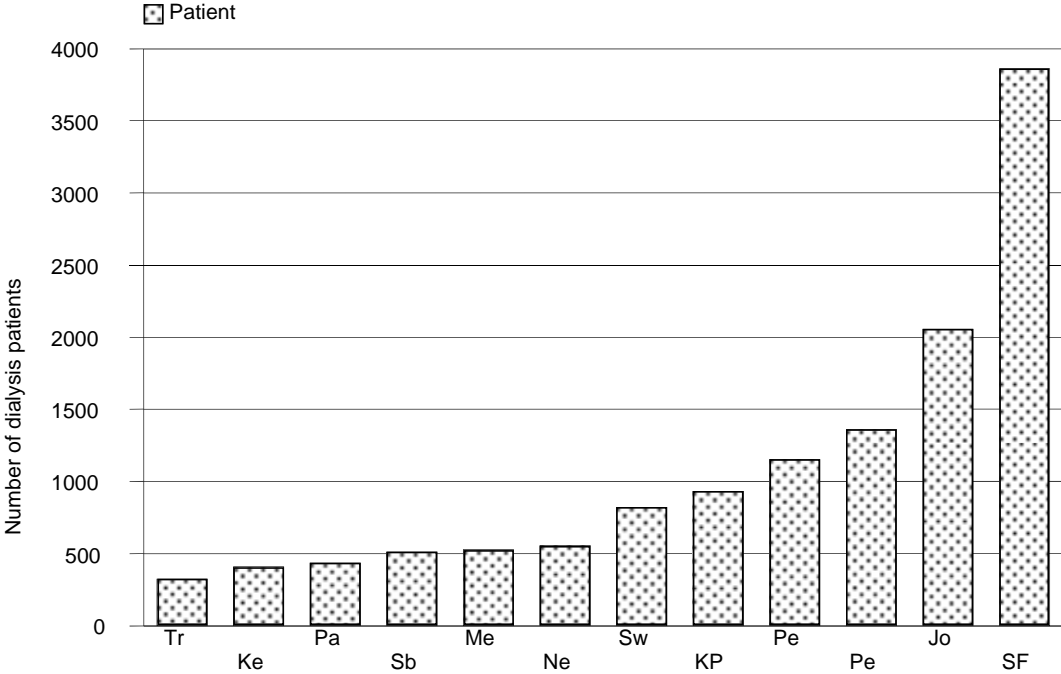


Figure 2.2.2(c): Distribution of dialysis treatment by State, December 2005

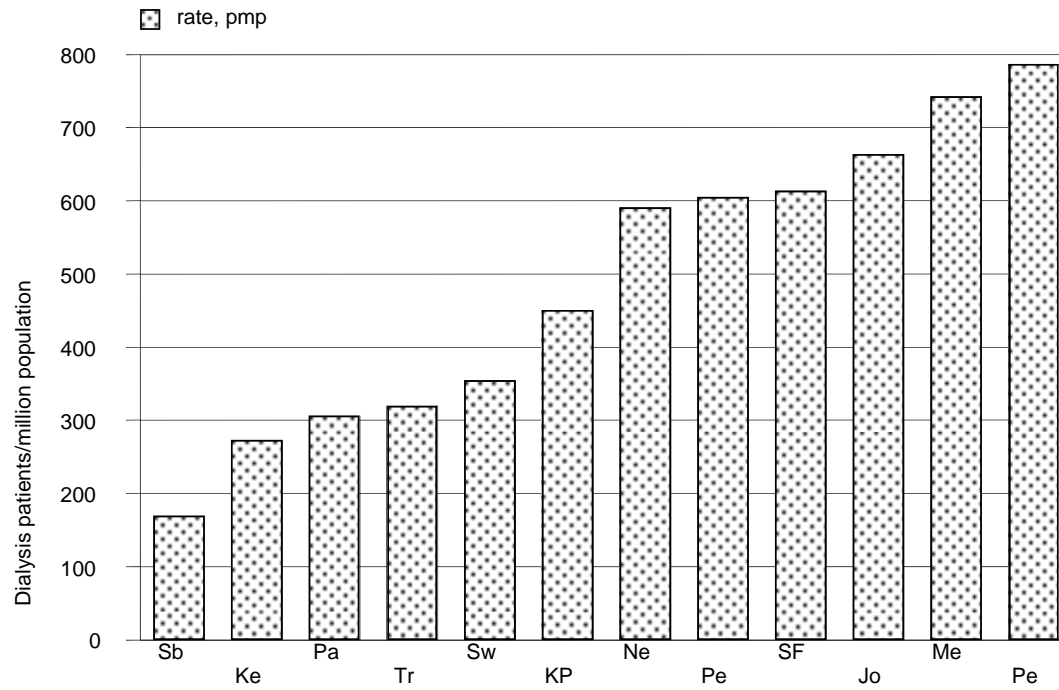


Figure 2.2.2(d): HD capacity to patient ratio by State, December 2005

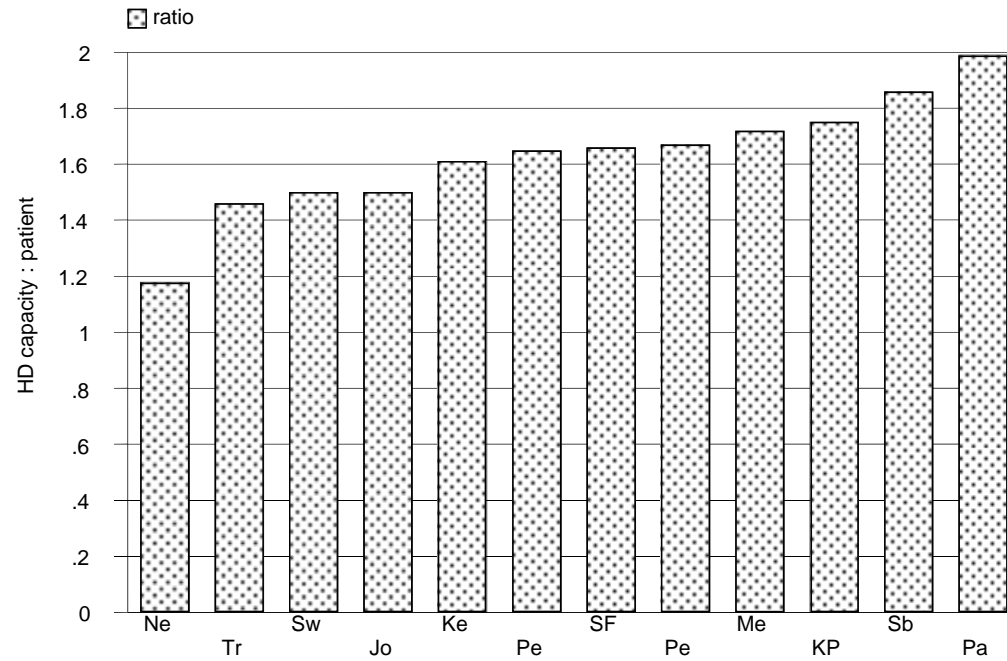
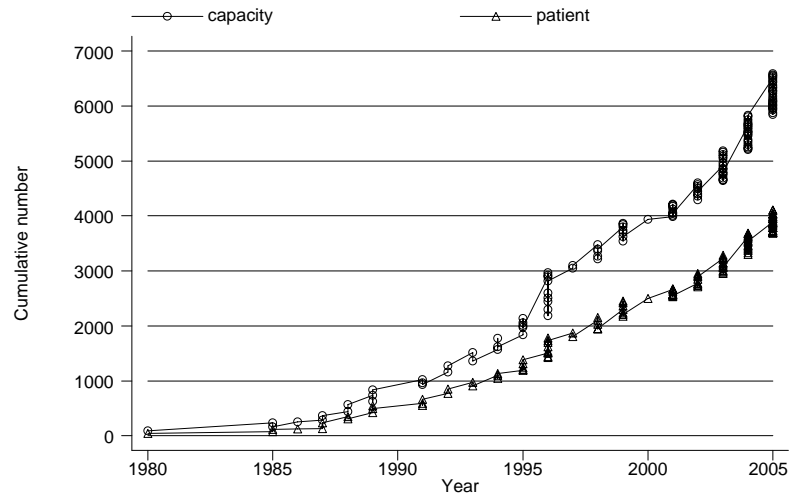


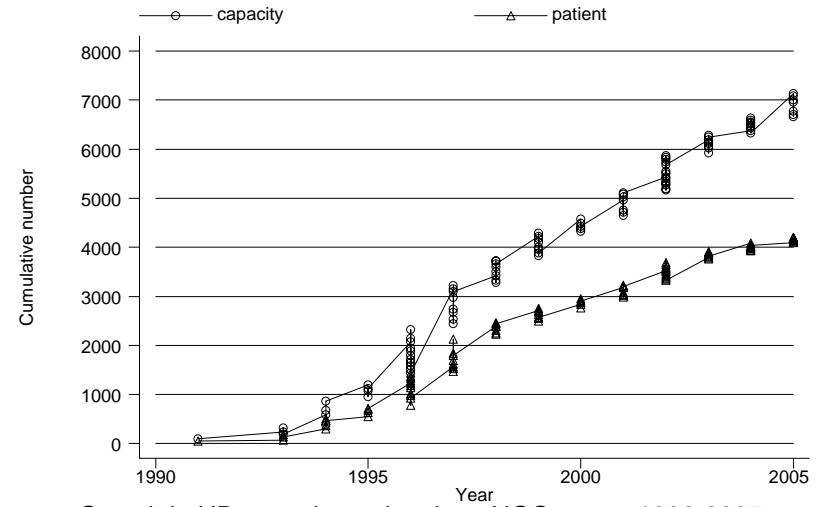
Table 2.2.3: Growth in HD capacity and HD patients in Private, NGO and MOH sectors, 1980-2005

Sector	Private		NGO		MOH	
	Cumulative HD capacity	Cumulative HD patients	Cumulative HD capacity	Cumulative HD patients	Cumulative HD capacity	Cumulative HD patients
1980	95	43	-	-	145	155
1985	235	119	-	-	975	724
1990	1020	666	95	50	1500	1118
1995	2140	1383	1200	716	2345	1758
2000	3940	2497	4575	2953	3525	2505
2005	6585	4112	7135	4207	5710	3668

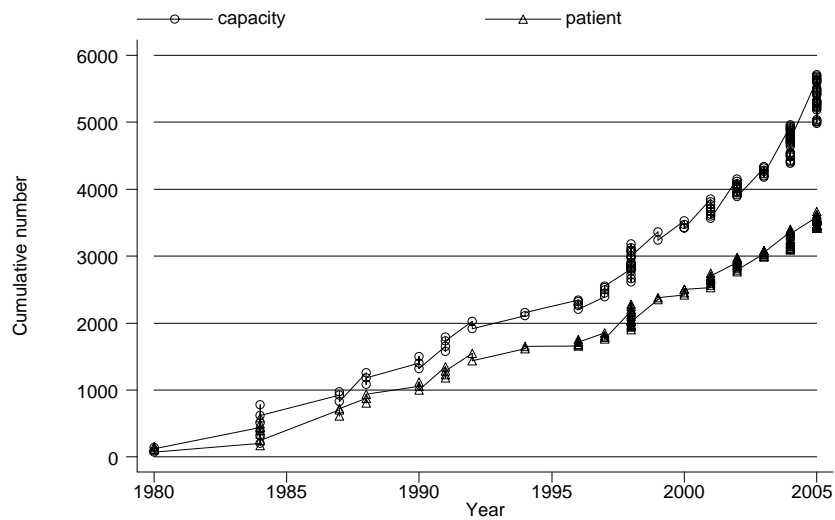
Figure 2.2.3: Growth in HD capacity and HD patients in Private, NGO and MOH sectors, 1980-2005



Growth in HD capacity and patient, private sector 1980-2005



Growth in HD capacity and patient, NGO sector 1990-2005



Growth in HD capacity and patient, MOH sector 1980-2005

Table 2.3.1(a): Dialysis Treatment Rate by Gender, per million male or female population 1996– 2005

Gender	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Male	51	63	62	81	92	97	110	122	125	118
Female	45	50	57	61	73	88	94	95	106	95

Figure 2.3.1 (a): Dialysis Treatment by Gender 1996 – 2005

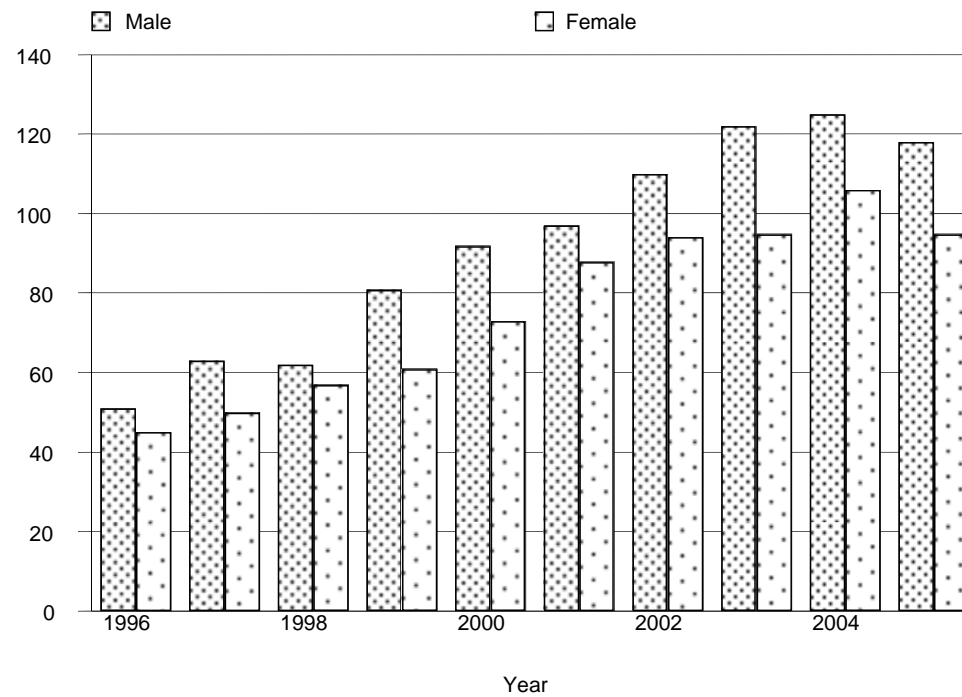
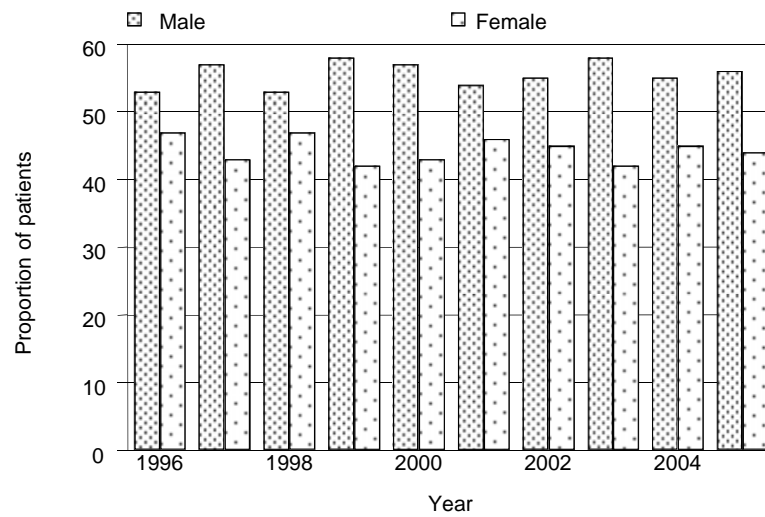


Table 2.3.1(b): Gender distribution of Dialysis Patients 1996-2005

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
New Dialysis patients	952	1135	1250	1543	1835	2078	2333	2573	2774	2636
% Male	53	57	53	58	57	54	55	58	55	56
% Female	47	43	47	42	43	46	45	42	45	44
Dialysing at 31st December	2922	3699	4540	5540	6693	7832	9093	10384	11767	12974
% Male	57	57	56	56	56	55	55	55	55	55
% Female	43	43	44	44	44	45	45	45	45	45

Figure 2.3.1(b): Gender Distribution of Dialysis patients 1996 – 2005

(i) New Dialysis patients



(ii) Dialysing patients at 31st December

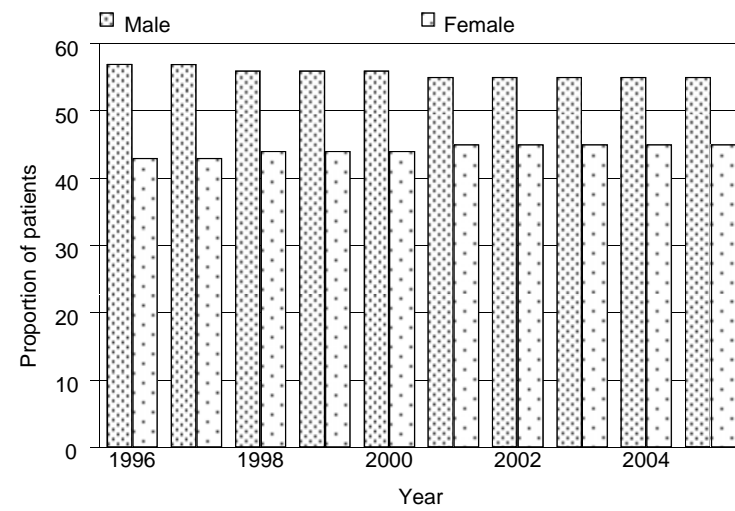


Table 2.3.2(a): Dialysis Treatment Rate by Age Group, per million age group population 1996 – 2005

Age groups (years)	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
1-14	3	3	3	3	4	4	5	4	5	5
15-24	13	15	15	16	18	22	28	25	27	27
25-34	38	39	40	42	46	47	55	51	50	48
35-44	68	80	81	85	98	102	101	101	111	93
45-54	154	166	174	225	248	250	272	276	297	257
55-64	227	290	311	370	430	508	532	583	575	544
>=65	172	213	228	300	347	434	495	575	628	565

Figure 2.3.2(a): Dialysis Treatment Rate by Age Group 1996 - 2005

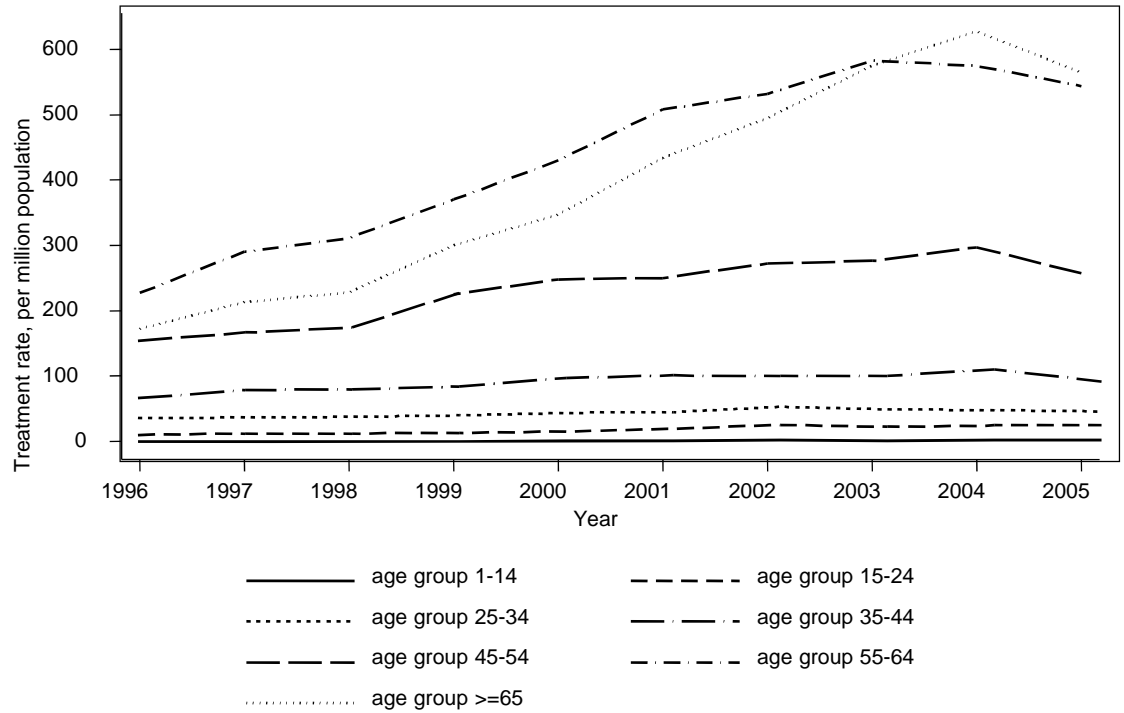


Table 2.3.2(b): Percentage Age Distribution of Dialysis Patients 1996 – 2005

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
New Dialysis patients	952	1135	1250	1543	1835	2078	2333	2573	2774	2636
% 1-14 years	2	1	2	2	1	1	2	1	1	2
% 15-24 years	5	5	5	4	4	4	5	4	4	4
% 25-34 years	13	10	11	9	9	7	8	7	6	6
% 35-44 years	17	18	17	16	16	14	13	12	12	11
% 45-54 years	25	24	24	27	27	25	25	24	25	24
% 55-64 years	23	26	27	26	26	29	28	29	27	29
% >=65 years	14	15	15	16	17	19	20	22	24	23
Dialysing at 31st December	2922	3699	4540	5540	6693	7832	9093	10384	11767	12974
% 1-14 years	2	2	2	2	1	1	1	1	1	1
% 15-24 years	6	5	5	5	5	5	5	5	5	5
% 25-34 years	18	17	15	14	14	13	12	12	11	10
% 35-44 years	24	23	22	21	20	20	19	18	17	17
% 45-54 years	24	24	24	25	25	25	25	25	26	26
% 55-64 years	19	20	21	22	22	23	24	24	24	24
% >=65 years	8	9	10	11	12	13	14	14	15	16

Figure 2.3.2(b): Age Distribution of New Dialysis patients 1996 – 2005
 (i) New Dialysis patients

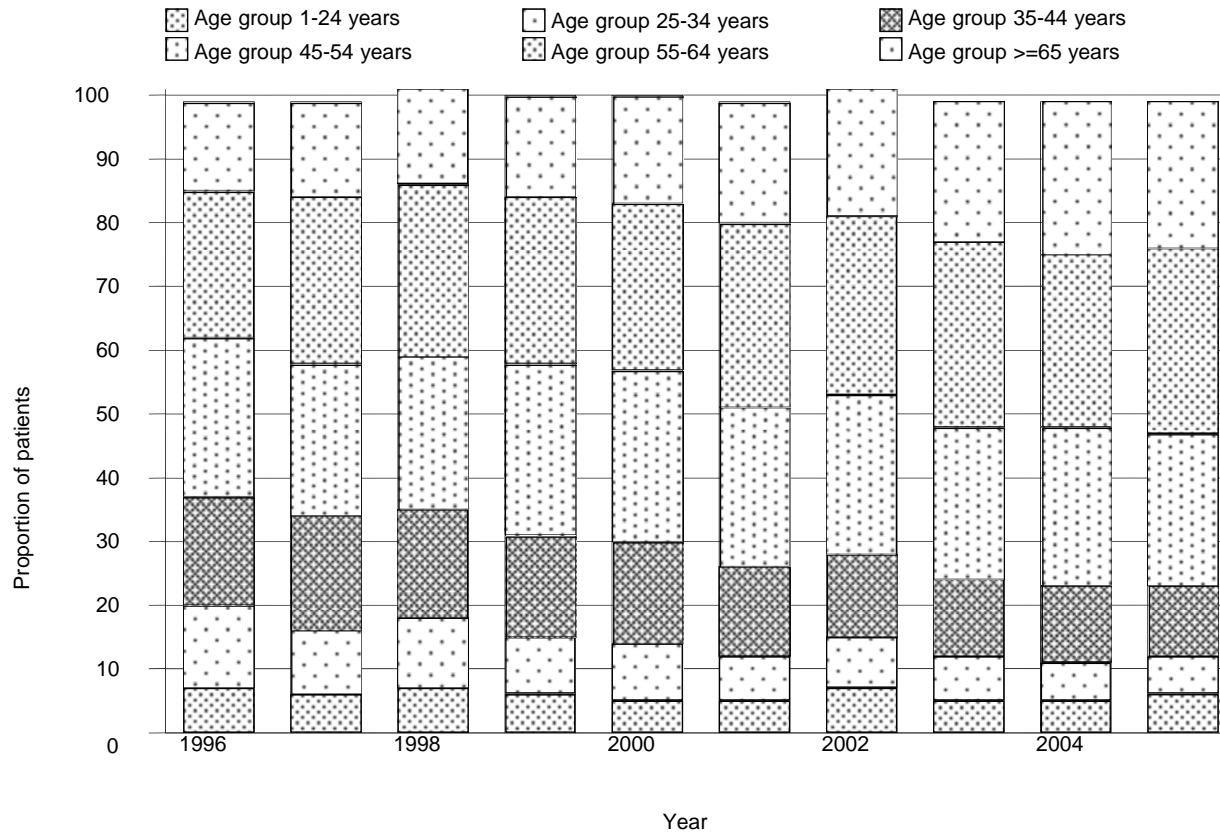


Figure 2.3.2(b): Age Distribution of New Dialysis patients 1996 – 2005
(ii) Dialysing patients at 31st December

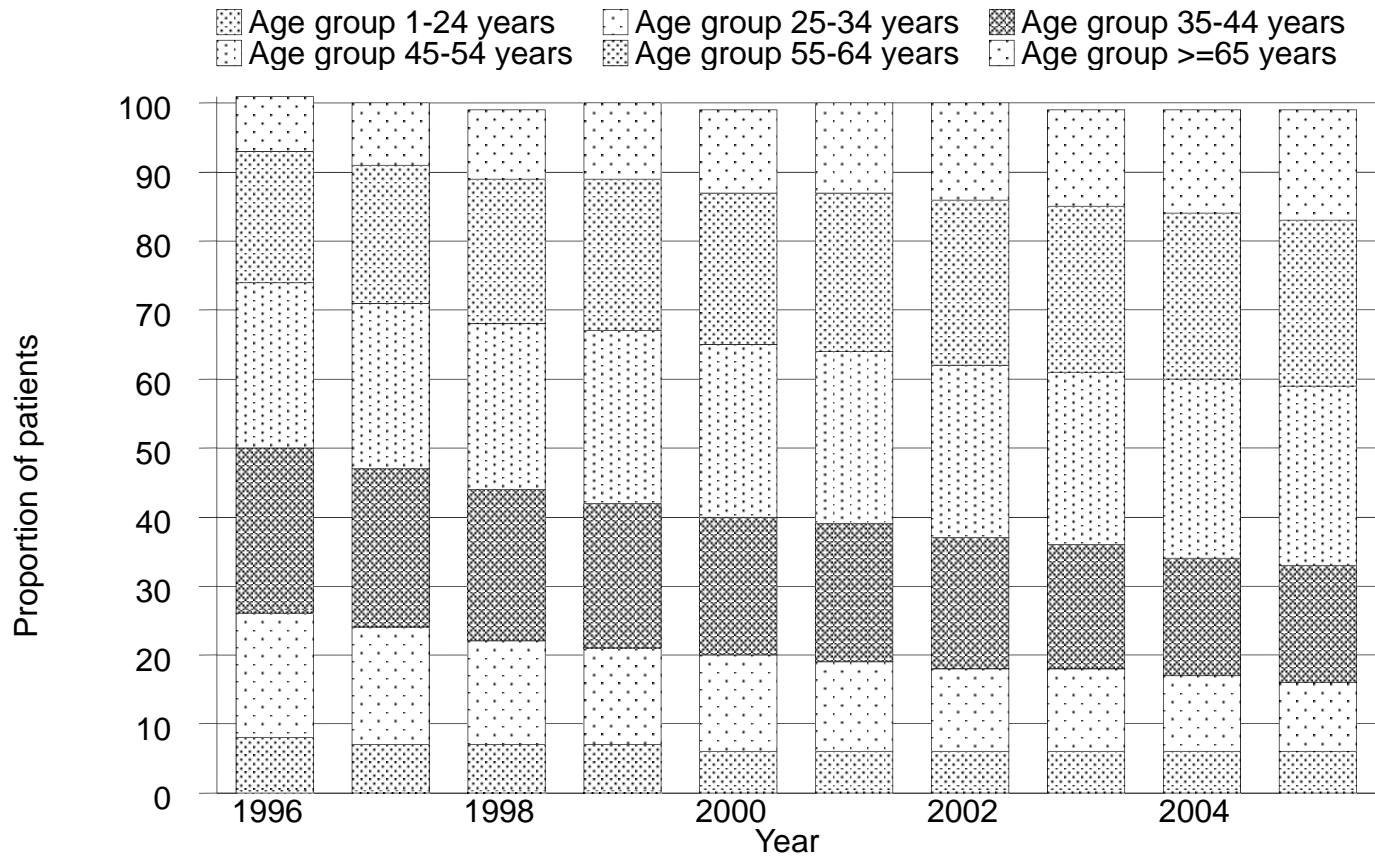


Table 2.3.3: Method and Location of Dialysis 1996 – 2005

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
New Dialysis patients	952	1135	1250	1543	1835	2078	2333	2573	2774	2636
% Centre HD	74	82	87	86	88	85	86	85	89	88
% Home and office HD	3	2	2	2	1	1	1	1	0	0
% CAPD	22	16	12	13	11	14	13	14	10	12
Dialysing at 31st December	2922	3699	4540	5540	6693	7832	9093	10384	11767	12974
% Centre HD	76	79	83	85	87	88	88	88	89	90
% Home and office HD	9	7	5	4	3	3	2	2	1	1
% CAPD	15	14	12	11	10	10	10	10	9	9

Figure 2.3.3: Method and Location of Dialysis Patients 1996 – 2005

(a) New Dialysis patients

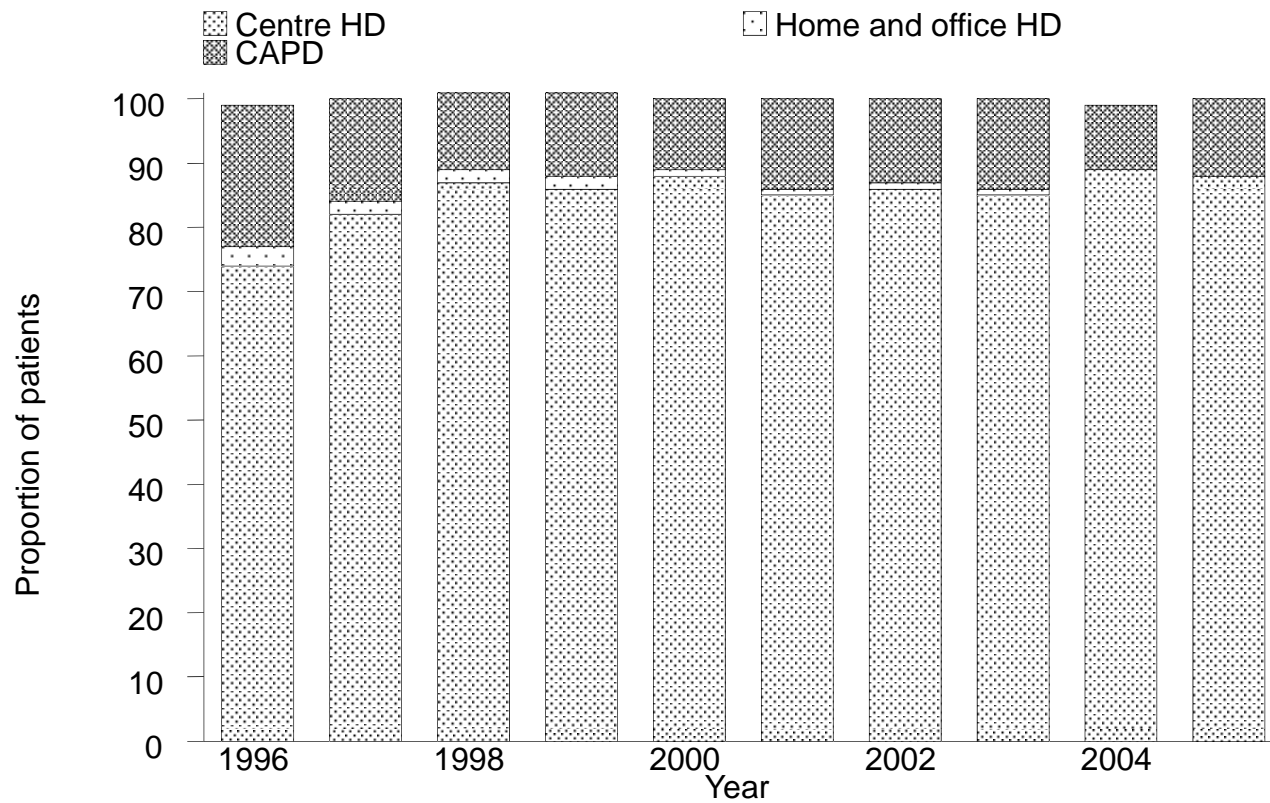


Figure 2.3.3: Method and Location of Dialysis Patients 1996 – 2005
(b) Dialysing patients at 31st December

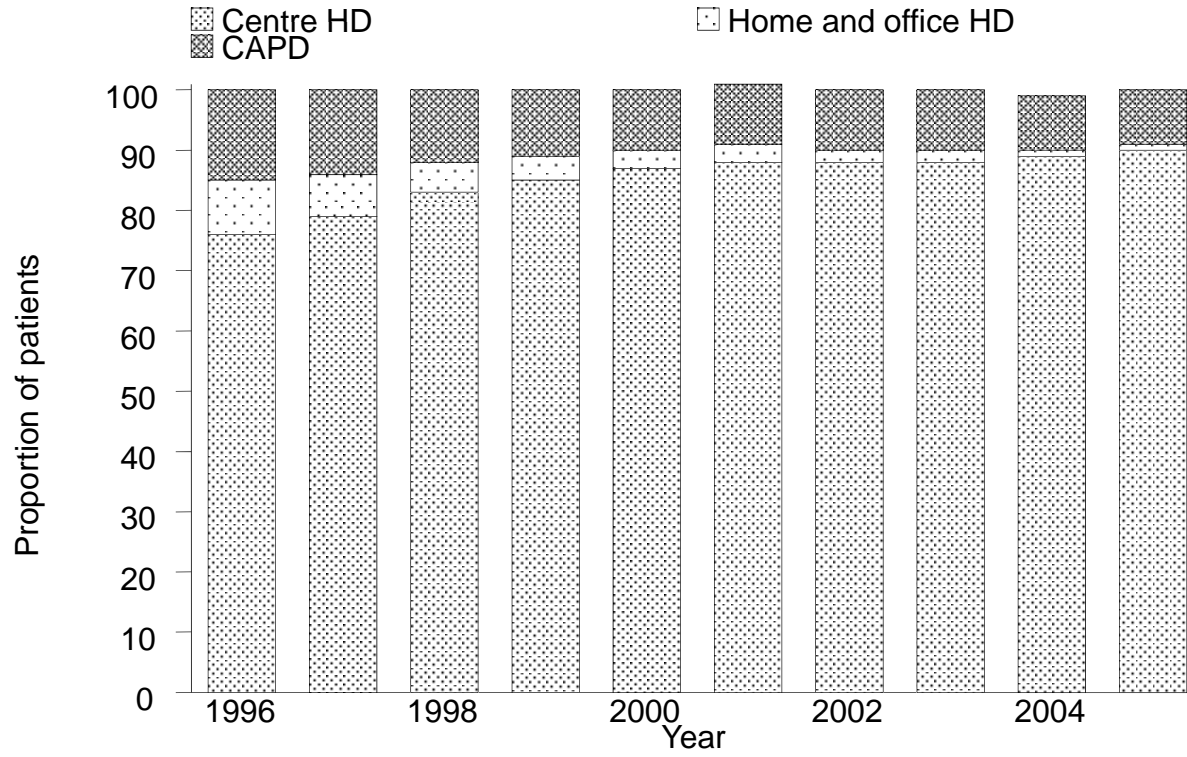
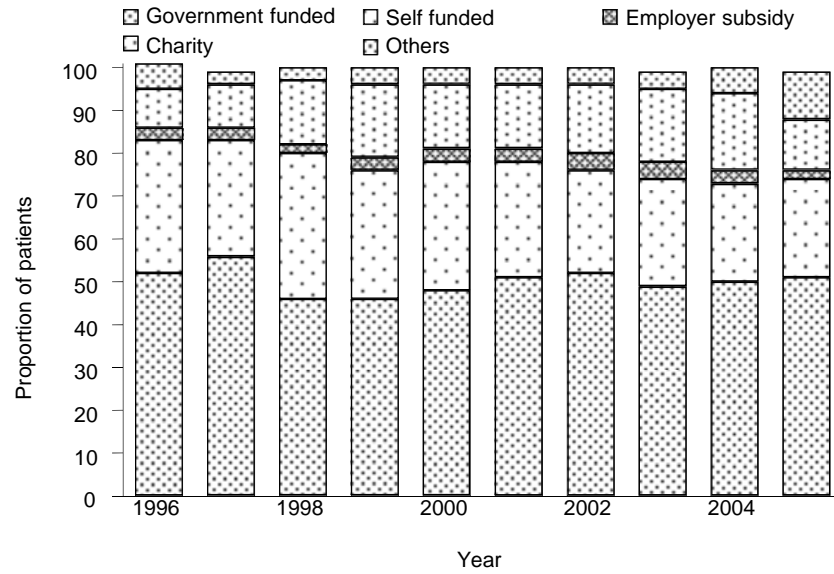


Table 2.3.4: Funding for Dialysis Treatment 1996 – 2005

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
New Dialysis patients	952	1135	1250	1543	1835	2078	2333	2573	2774	2636
% by Government	52	56	46	46	48	51	52	49	50	51
% self funded	31	27	34	30	30	27	24	25	23	23
% subsidized by Employer	3	3	2	3	3	3	4	4	3	2
% by Charity	9	10	15	17	15	15	16	17	18	12
% Others	6	3	3	4	4	4	4	4	6	11
Dialysing at 31st December	2922	3699	4540	5540	6693	7832	9093	10384	11767	12974
% by Government	57	57	54	51	51	51	52	52	52	51
% self funded	26	26	28	28	27	26	24	24	23	22
% subsidized by Employer	5	4	4	4	4	4	4	4	4	4
% by Charity	8	10	12	14	15	15	16	17	17	17
% Others	4	3	3	3	4	4	4	4	5	6

Figure 2.3.4: Funding for Dialysis Treatment 1996 – 2005

a) New Dialysis Patients



(b) Dialysing patients at 31st December

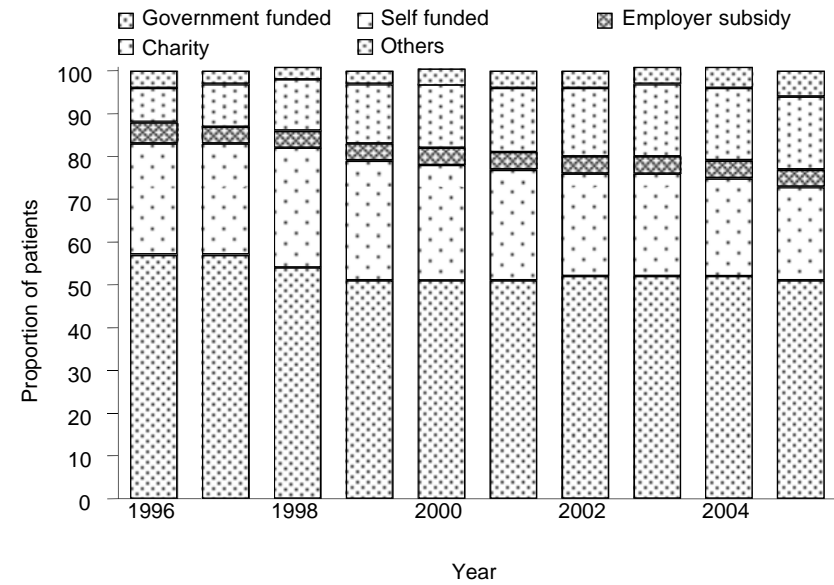
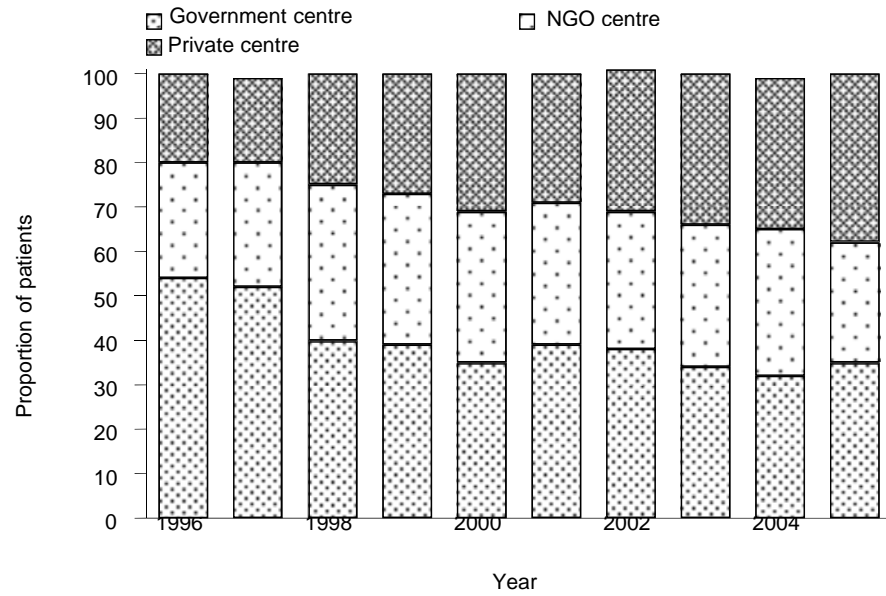


Table 2.3.5: Distribution of Dialysis Patients by Sector 1996 – 2005

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
New Dialysis patients	952	1135	1250	1543	1835	2078	2333	2573	2774	2636
% Government centre	54	52	40	39	35	39	38	34	32	35
% NGO centre	26	28	35	34	34	32	31	32	33	27
% Private centre	20	19	25	27	31	29	32	34	34	38
Dialysing at 31st December	2922	3699	4540	5540	6693	7832	9093	10384	11767	12974
% Government centre	59	56	51	46	43	42	41	39	38	37
% NGO centre	23	26	29	31	32	33	33	33	33	32
% Private centre	18	18	20	23	25	25	26	28	29	31

Figure 2.3.5: Distribution of Dialysis Patients by Sector 1996 – 2005

(a) New Dialysis Patients



(b) Dialysing Patients at 31st December

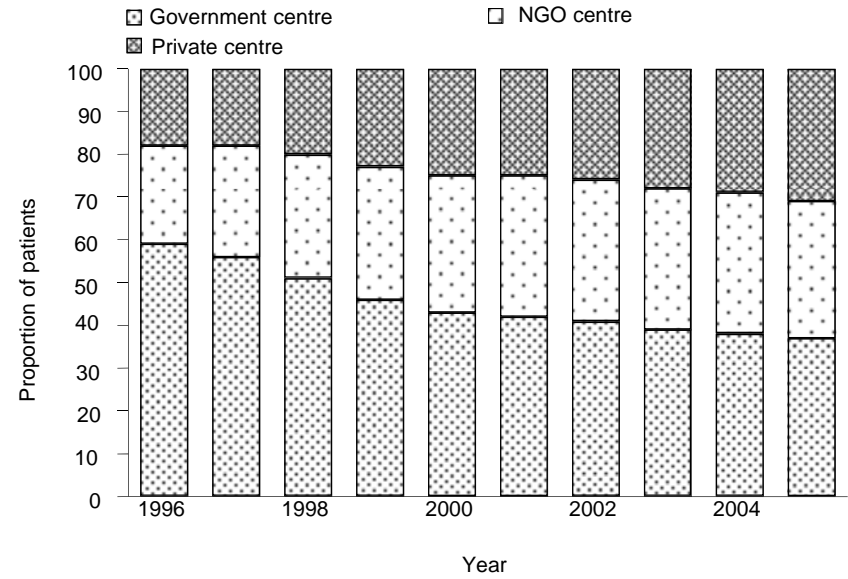


Figure 2.4.1: Primary Renal Disease for New Dialysis Patients 1996– 2005

