

CHAPTER 1

ALL RENAL REPLACEMENT THERAPY IN MALAYSIA

Lim Teck Onn
Lim Yam Ngo

1.1 Stock and Flow

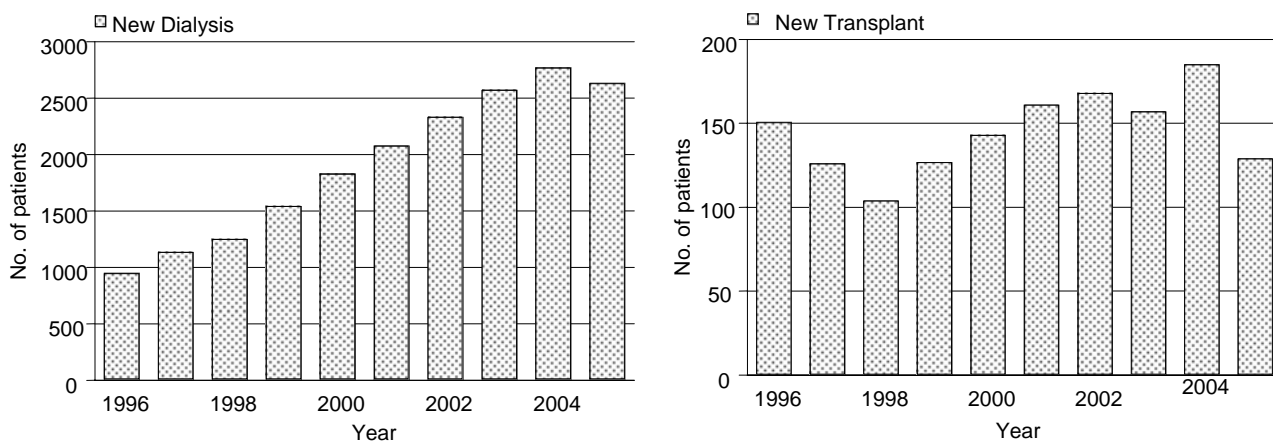
The intake of new dialysis patients continued to grow linearly over the years - from 952 in 1996 to 2774 in 2004. The number of prevalent dialysis patients also increased linearly but more sharply from 2922 in 1996 to 11767 in 2004 and almost 13000 by the end of year 2005. The number of new transplant patients increased from 151 in 1996 to 185 in 2004 and patients with functioning renal transplants increased from 1024 to 1582 over the same period. (table and figure 1.01)

Table 1.01: Stock and Flow of RRT, Malaysia 1996 – 2005

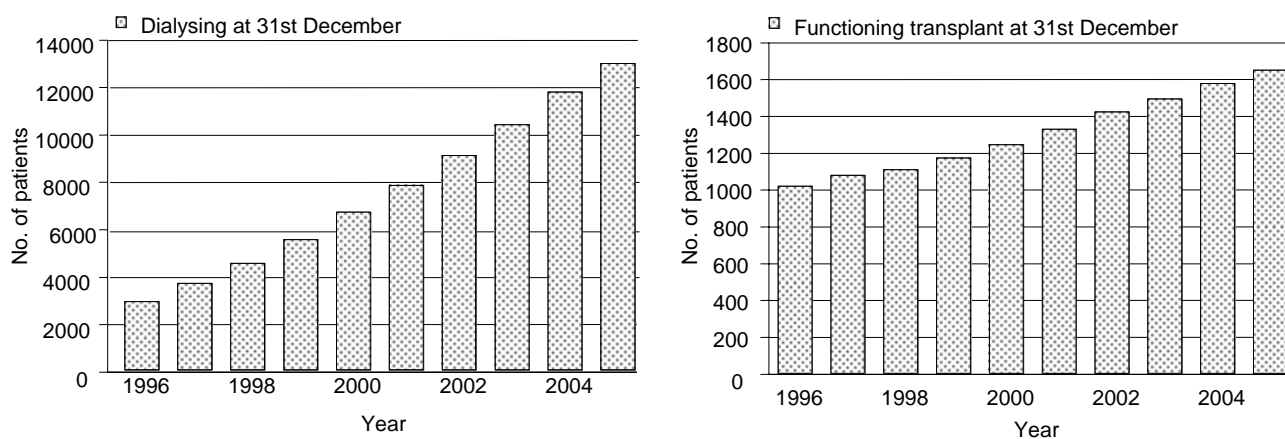
Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
New Dialysis patients	952	1135	1250	1543	1835	2078	2333	2573	2774	2636
New Transplants	151	126	104	127	143	161	168	158	185	133
Dialysis deaths	222	315	373	487	586	810	920	1142	1188	1203
Transplant deaths	31	29	23	25	27	35	31	36	37	37
Dialysing at 31st December	2922	3699	4540	5540	6693	7832	9093	10384	11767	12974
Functioning transplant at 31st December	1024	1083	1114	1176	1250	1334	1426	1498	1582	1659

Figure 1.01: Stock and Flow of RRT, Malaysia 1996 – 2005

(a) New Dialysis and Transplant patients



(b) Patients Dialysing and with Functioning Transplant at 31st December 1996 – 2005



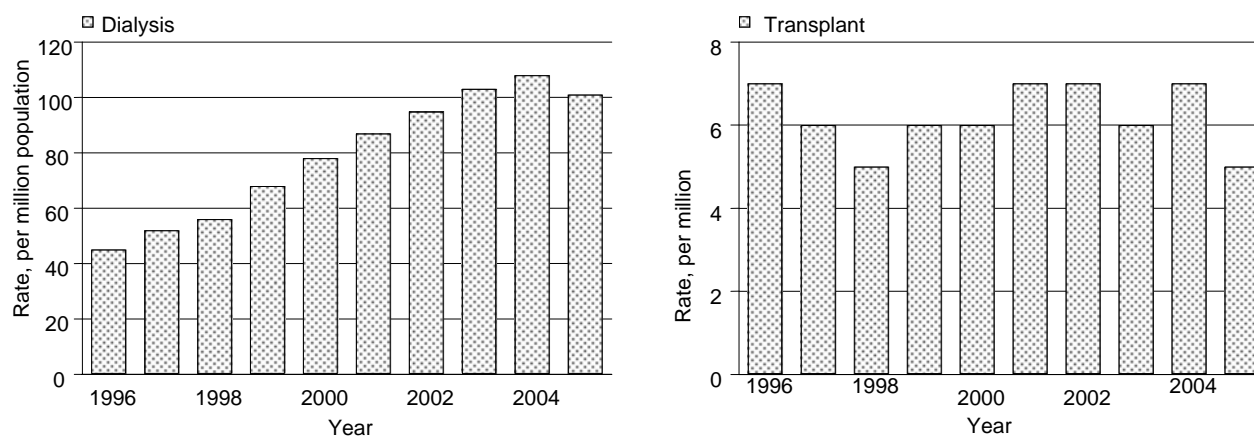
1.2 Treatment Provision Rate

Dialysis acceptance rates continued to increase albeit at a slower rate in the last few years. The dialysis acceptance rate for 2004 was the highest yet at 108 per million population. (Data for 2005 are preliminary since at the time preparation of this report there were still many new cases yet to be notified to registry). New transplant rates remained low over the years fluctuating between 5-7 per million population per year. (table and figure 1.02)

Table 1.02: New Dialysis Acceptance Rate and New Transplant Rate per million population 1996 – 2005

Acceptance rate	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
New Dialysis	45	52	56	68	78	87	95	103	108	101
New Transplant	7	6	5	6	6	7	7	6	7	5

Figure 1.02: New Dialysis Acceptance and New Transplant Rate 1996 - 2005



Dialysis prevalence rate also increased linearly over the last 10 years, from 138 per million population in 1995 to 460 in 2004 and almost 500 in 2005. The transplant prevalence rate however only showed a slight increase to 63 per million in 2005. (table and figure 1.03)

Table 1.03: RRT Prevalence Rate per million population 1996 – 2005

Prevalence rate	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Dialysis	138	171	205	244	285	326	371	415	460	497
Transplant	48	50	50	52	53	56	58	60	62	63

Figure 1.03: Dialysis and Transplant Prevalence Rate per million population 1996 - 2005

