

CHAPTER 1

All Renal Replacement Therapy in Malaysia

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SECTION 1.1: STOCK AND FLOW

The intake of new dialysis patients continued to show a linear increase over the years - from 1253 in 1998 to 3570 in 2006. The number of prevalent dialysis patients also increased linearly from 4540 in 1998 to almost more than 16000 at year end 2007. (Data for 2007 however are preliminary since at the time preparation of this report there were still many new cases yet to be notified to registry.)

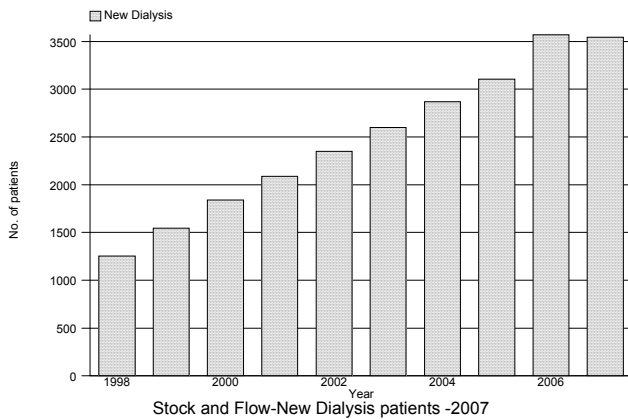
The number of new kidney transplant recipients had been increasing since the late 1990s, but with increasing proscription against commercial transplantation, has started to show a downward trend from 2005. Patients with functioning renal transplants showed a moderate increase - from 1112 to 1726 over the same period. (table and figure 1.1)

Table 1.1: Stock and Flow of RRT, Malaysia 1998-2007

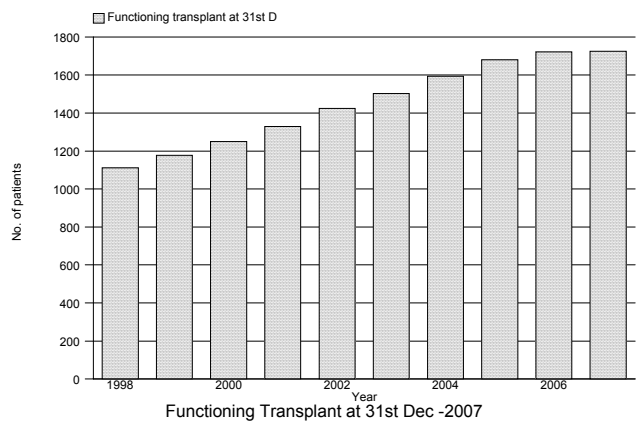
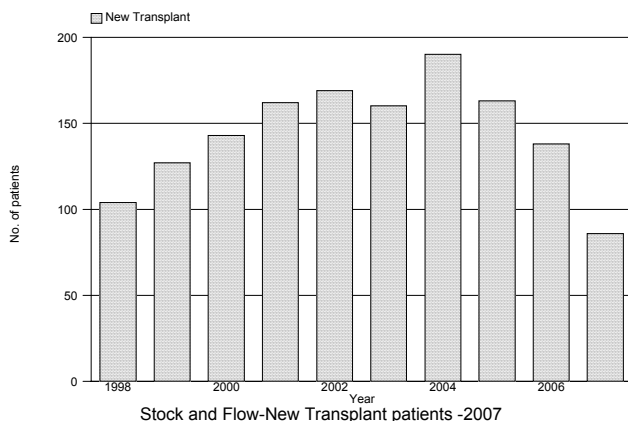
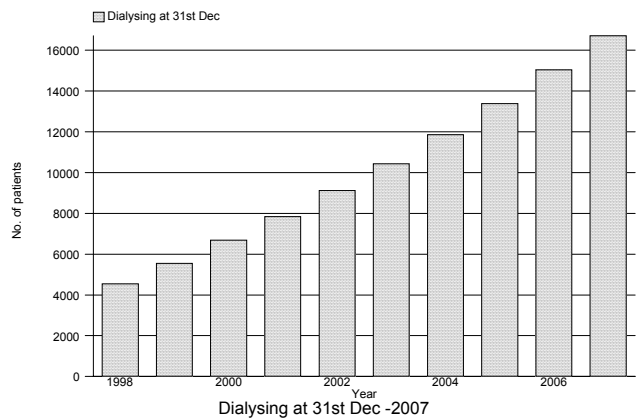
Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
New Dialysis patients	1253	1544	1840	2088	2348	2600	2868	3105	3570	3542
New Transplants	104	127	143	162	169	160	190	163	138	86
Dialysis deaths	376	493	594	816	927	1157	1272	1420	1673	1678
Transplant deaths	26	25	30	37	32	37	41	43	50	34
Dialysing at 31st December	4540	5540	6693	7846	9120	10436	11867	13385	15039	16719
Functioning transplant at 31st December	1112	1177	1249	1330	1424	1502	1593	1681	1722	1726

Figure 1.1: Stock and Flow of RRT, Malaysia 1998-2007

a) New Dialysis and Transplant patients 1998-2007



(b) Patients Dialysing and with Functioning Transplant at 31st December 1998-2007



SECTION 1.2: TREATMENT PROVISION RATE

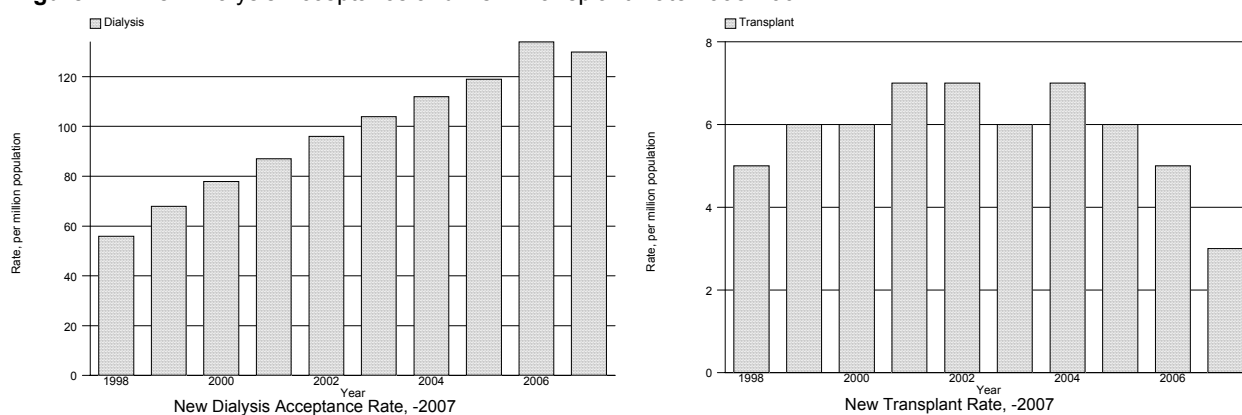
Dialysis acceptance rates also continued to increase linearly from 56 per million population in 1998 to 134 per million in 2006. (table and figure 1.2)

New transplant rates remained dismally low over the years and seemed to be beginning to show a decreasing trend. Since 1990, commercial transplantation carried overseas had contributed more than 50% of all new kidney transplantation each year. With the proscription of commercial transplantation, overseas transplantation contributed only 40% in 2007. (see table 14.3.1)

Table 1.2: New Dialysis Acceptance rate and New Transplant Rate per million population 1998-2007

Acceptance rate	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
New Dialysis	56	68	78	87	96	104	112	119	134	130
New Transplant	5	6	6	7	7	6	7	6	5	3

Figure 1.2: New Dialysis Acceptance and New Transplant Rate 1998-2007



Dialysis prevalence rate continued to increase linearly over the last 10 years, from 205 per million population in 1998 to at least 615 in 2007. The transplant prevalence rate however appears to be static in the last few years. (table and figure 1.3)

Table 1.3: RRT Prevalence Rate per million population 1998-2007

Prevalence rate	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Dialysis	205	244	285	327	372	417	464	512	565	615
Transplant	50	52	53	55	58	60	62	64	65	64

Figure 1.3: Dialysis and Transplant Prevalence Rate per million population 1998-2007

