

# **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 increase over the years - from 1559 in 1999 to 3874 in 2007. The number of prevalent dialysis patients has similarly increased from 5542 in 1998 to more than 16000 at year end 2007 and almost 19000 in 2008. (Data for 2008 however are preliminary since at the time of writing this report there was still many new patients yet to be notified to registry.)

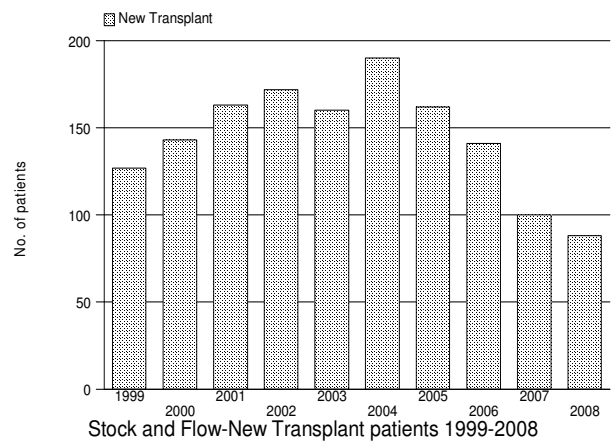
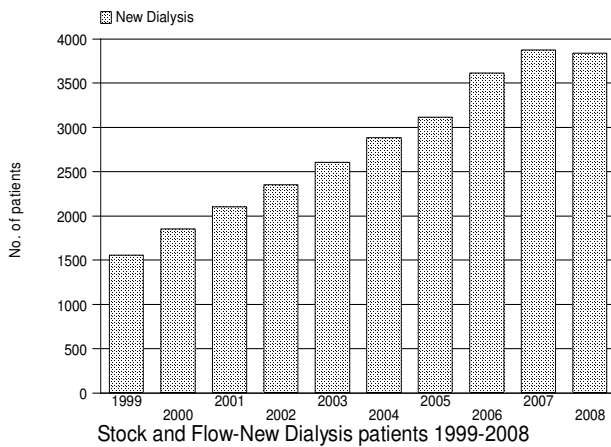
The number of new kidney transplant recipients seems to be showing a decreasing trend from 2005 due most probably to the increasing proscription against commercial transplantation. Patients with functioning renal transplants have also begun to level off since 2006. (Table and Figure 1.01)

**Table 1.1:** Stock and Flow of RRT, Malaysia 1999-2008

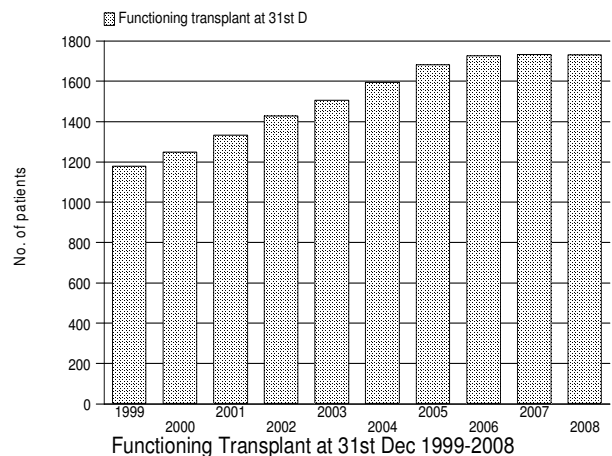
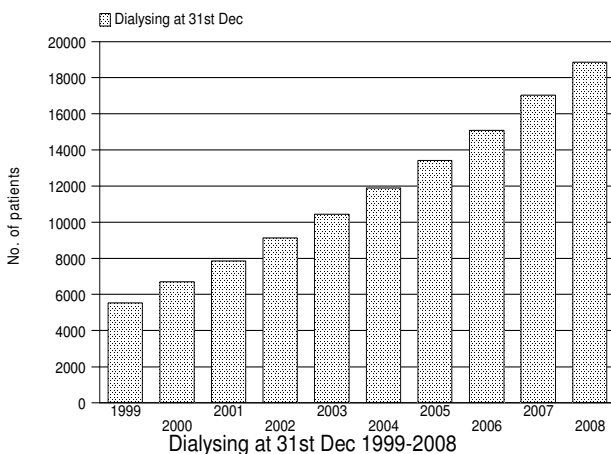
Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
New Dialysis patients	1559	1854	2100	2350	2605	2880	3115	3614	3874	3836
New Transplants	127	143	163	172	160	190	162	141	100	88
Dialysis deaths	493	597	816	929	1161	1278	1430	1696	1780	1803
Transplant deaths	25	30	37	33	37	42	43	50	39	48
Dialyzing at 31st Dec	5542	6694	7847	9119	10438	11884	13403	15084	17015	18856
Functioning transplant at 31st Dec	1178	1250	1333	1428	1505	1595	1683	1726	1732	1730

**Figure 1.1:** Stock and Flow of RRT, Malaysia 1999-2008

(a) New Dialysis and Transplant patients



(b) Patients Dialysing and with Functioning Transplant at 31st December 1999-2008



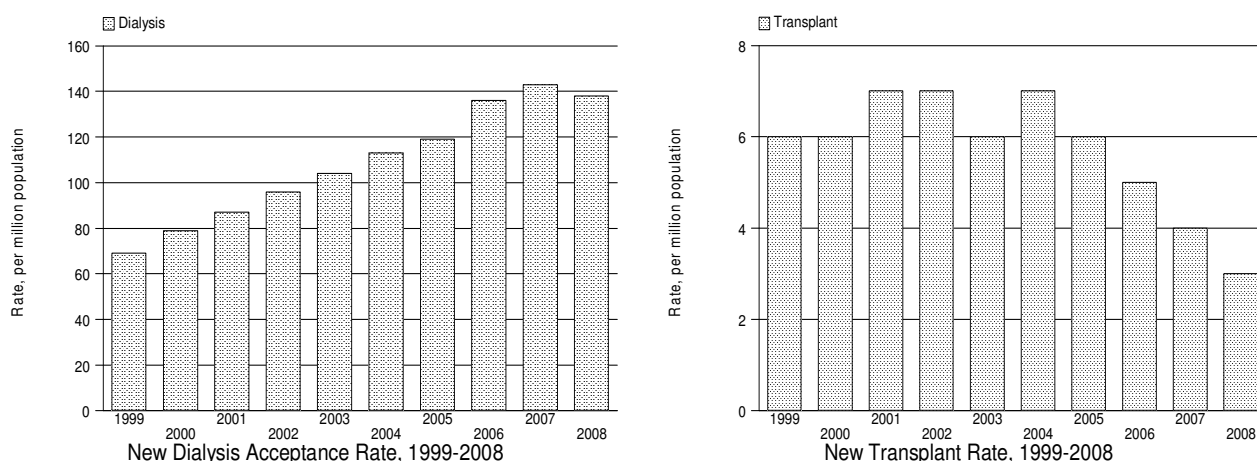
## SECTION 1.2: TREATMENT PROVISION RATE

Dialysis acceptance rates also continued to increase linearly from 69 per million population in 1999 to 143 per million in 2007. New kidney transplant rates remained low over the years and were decreasing since 2005. Since 1990, commercial transplantation carried overseas had contributed more than 50% of all new kidney transplantation each year. With the proscription of commercial transplantation done overseas, commercial donor transplantation contributed less than 50% since 2007 and 2008. (see table 14.1.4, chapter 14)

**Table 1. 2:** New Dialysis Acceptance rate and New Transplant Rate per million population 1999-2008

Acceptance rate	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
New Dialysis	69	79	87	96	104	113	119	136	143	138
New Transplant	6	6	7	7	6	7	6	5	4	3

**Figure 1.2:** New Dialysis Acceptance and New Transplant Rate 1999-2008



Dialysis prevalence rate continued to increase linearly over the last 10 years, from 244 per million population in 1999 to more than 600 since 2007. The transplant prevalence rate however seems to be beginning to show a downward trend. (table and figure 1.03)

**Table 1.3:** RRT Prevalence Rate per million population 1999-2008

Prevalence rate	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Dialysis	244	285	327	372	417	465	513	566	626	680
Transplant	52	53	56	58	60	62	64	65	64	62

**Figure 1.3:** Dialysis and Transplant Prevalence Rate per million population 1999-2008

