

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 - from 2375 in 2002 to 5153 in 2010 and at least 5201 in 2011. The number of prevalent dialysis patients showed a steeper increase from 9107 in 2002 to 25688 in 2011. (Data for 2011 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 plateau since 2006. (Table and Figure 1.1)

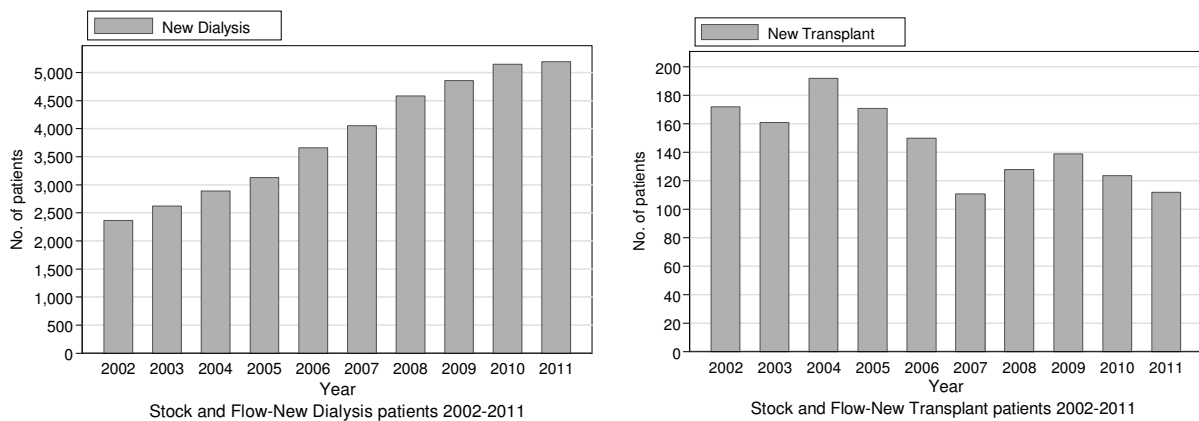
Table 1.1: Stock and flow of RRT, Malaysia 2002-2011

(a) New dialysis and transplant patients

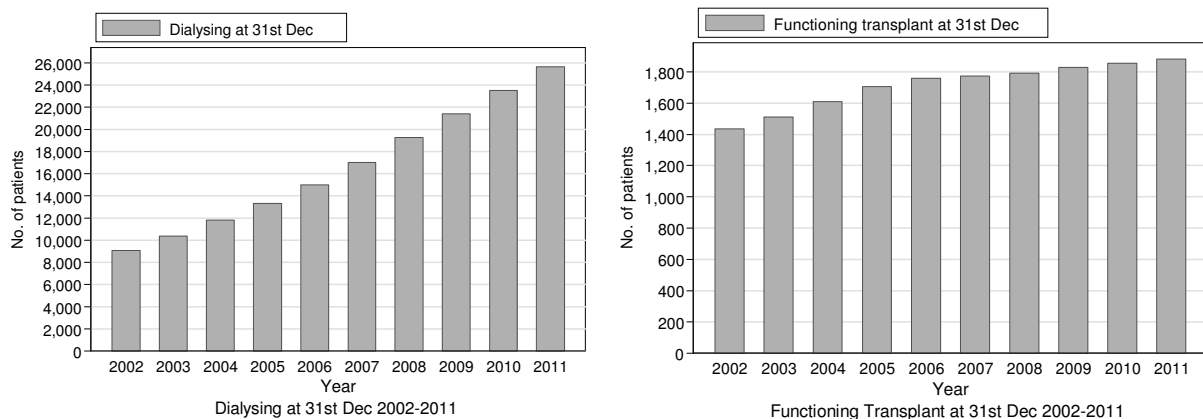
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
New Dialysis patients	2375	2627	2894	3137	3672	4064	4590	4864	5153	5201
New Transplants	172	161	192	171	150	111	128	139	124	112
Dialysis deaths	961	1214	1320	1516	1820	1986	2190	2589	2831	2811
Transplant deaths	38	41	44	48	58	47	60	49	45	38
Dialyzing at 31 st December	9107	10404	11831	13337	15054	17049	19324	21446	23552	25688
Functioning transplant at 31 st December	1438	1513	1612	1708	1761	1776	1792	1832	1859	1884

Figure 1.1: Stock and flow of RRT, Malaysia 2002-2011

(a) New dialysis and transplant patients



(b) Patients dialysing and with functioning transplant at 31st December 2002-2011



SECTION 1.2: TREATMENT PROVISION RATE

Dialysis acceptance rates increased from 96 per million population (pmp) in 2002 to 182 per million population in 2010 and 2011. The acceptance rate of 182 pmp for 2011 however is preliminary since at the time of writing this report there was still many new patients yet to be notified to registry.

With the very low transplant rate, the prevalence rate of kidney transplantation has remained at 65-66 pmp since 2005. Dialysis prevalence rate increased almost 3-fold over the last 10 years, from 368 per million population in 2002 to 900 per million in 2011.

Table 1.2: New dialysis acceptance rate and new transplant rate per million population 2002-2011

Acceptance rate	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
New Dialysis	96	104	112	118	137	149	167	174	182	182
New Transplant	7	6	7	6	6	4	5	5	4	4

Figure 1.2: New dialysis acceptance and new transplant rate 2002-2011

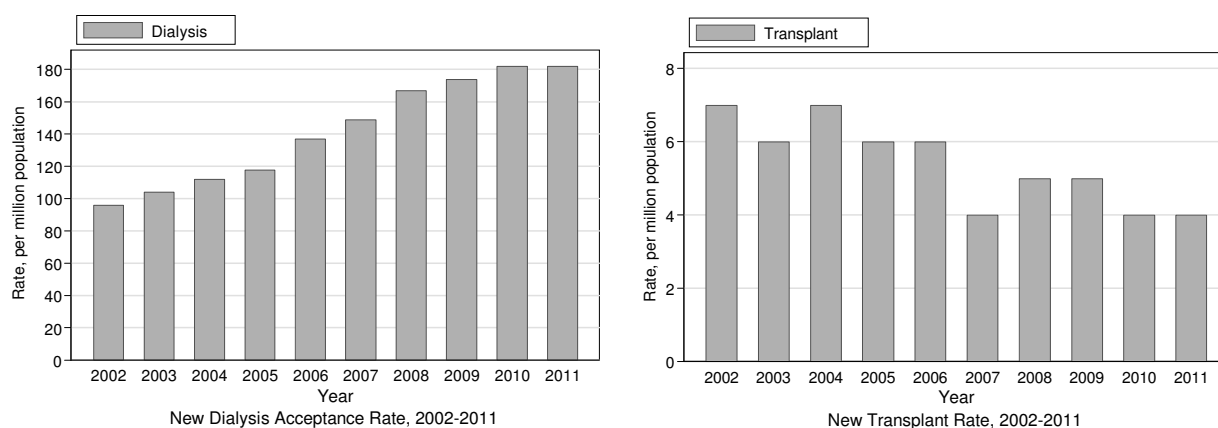


Table 1.3: RRT prevalence rate per million population 2002-2011

Prevalence rate	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Dialysis	368	411	457	504	561	627	702	769	834	900
Transplant	58	60	62	65	66	65	65	66	66	66

Figure 1.3: Dialysis and transplant prevalence rate per million population 2002-2011

