

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 2112 in 2001 to 4740 in 2009 and 4522 in 2010. The number of prevalent dialysis patients has increased almost three-fold from 7837 in 2000 to almost 23,000 in 2010. (Data for 2010 however are preliminary since at the time of writing this report there was still many new patients yet to be notified to registry.)

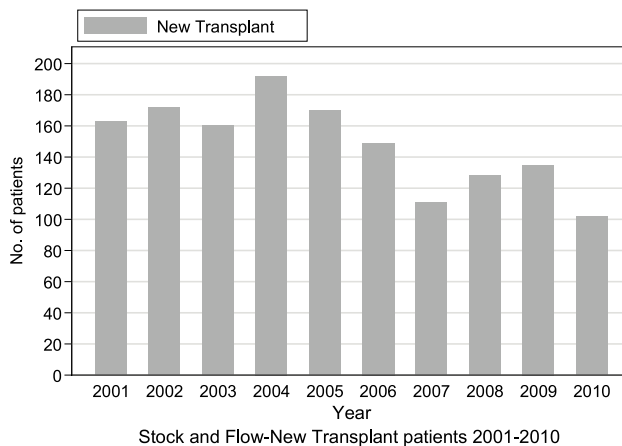
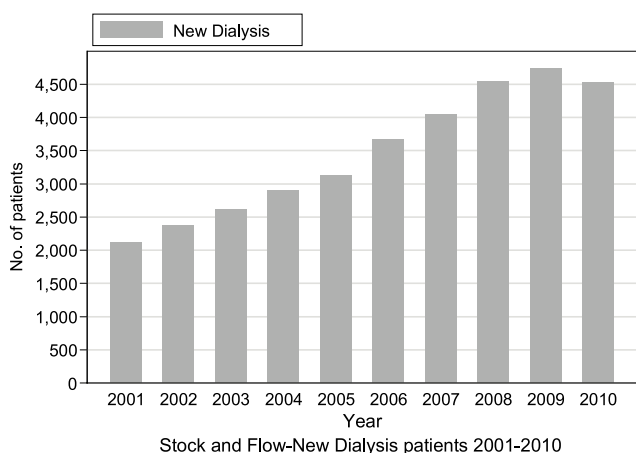
The number of new kidney transplant recipients seems to be showing a decreasing trend from 2005 due most probably to the increasing proscription against commercial transplantation. Patients with functioning renal transplants have also begun to plateau since 2006. (Table and Figure 1.1)

Table 1.1: Stock and Flow of RRT, Malaysia 2001-2010

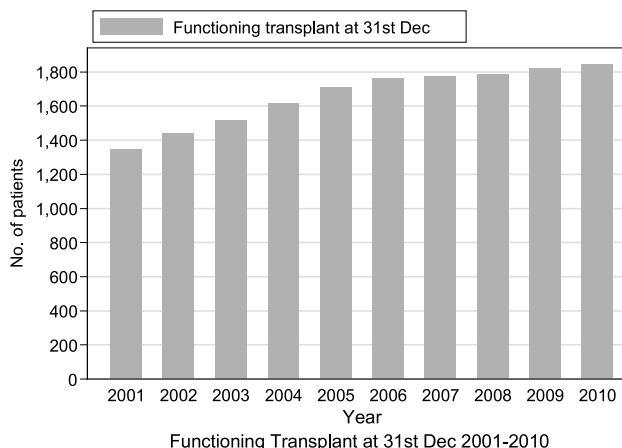
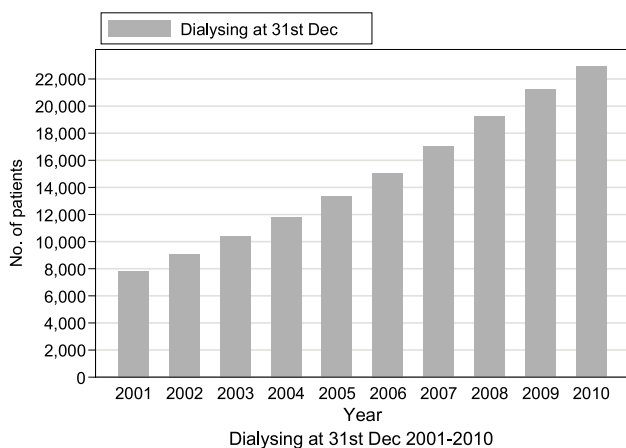
Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
New Dialysis patients	2112	2373	2620	2891	3134	3669	4047	4548	4740	4522
New Transplants	163	172	160	192	170	149	111	128	135	102
Dialysis deaths	850	959	1211	1318	1513	1815	1984	2190	2578	2574
Transplant deaths	40	38	42	44	47	58	46	60	49	33
Dialyzing at 31 st December	7837	9102	10399	11829	13332	15046	17022	19250	21245	22932
Functioning transplant at 31 st December	1343	1440	1513	1612	1708	1759	1772	1787	1822	1841

Figure 1.1: Stock and Flow of RRT, Malaysia 2001-2010

(a) New Dialysis and Transplant patients



(b) Patients Dialysing and with Functioning Transplant at 31st December 2001-2010



SECTION 1.2: TREATMENT PROVISION RATE

Dialysis acceptance rates increased from 88 per million population (pmp) in 2001 to 170 per million population in 2009. The acceptance rate of 160 pmp for 2010 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 pmp over the last 5 years. Dialysis prevalence rate more than doubled over the last 10 years, from 325 per million population in 2001 to more than 800 per million in 2010.

Table 1.2: New Dialysis Acceptance rate and New Transplant Rate per million population 2001-2010

Acceptance rate	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
New Dialysis	88	96	103	112	118	137	149	165	170	160
New Transplant	7	7	6	7	6	6	4	5	5	4

Figure 1.2: New Dialysis Acceptance and New Transplant Rate 2001-2010



Table 1.3: RRT Prevalence Rate per million population 2001-2010

Prevalence rate	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Dialysis	325	368	411	457	504	561	626	699	762	812
Transplant	56	58	60	62	65	66	65	65	65	65

Figure 1.3: Dialysis and Transplant Prevalence Rate per million population 2001-2010

