

## **CHAPTER 1**

# **All Renal Replacement Therapy In Malaysia**

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**SECTION 1.1: STOCK AND FLOW**

The number of new dialysis patients continues to increase linearly over the last 10 years - from 3710 in 2006 to 7617 in 2014 and at least 7597 in 2015. (Data for 2015 however are preliminary since at the time of writing this report there are still many new patients yet to be notified to registry.) The number of prevalent dialysis patients also showed a linear increase to more than 37 thousand in 2015.

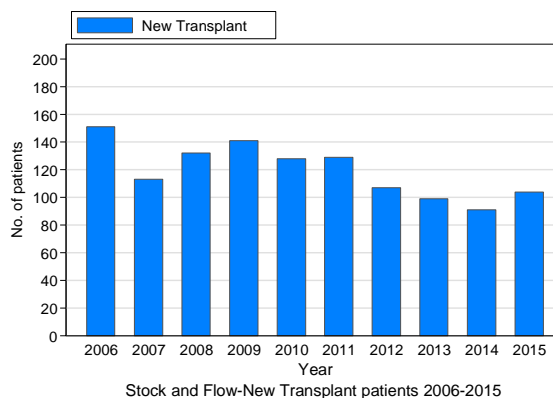
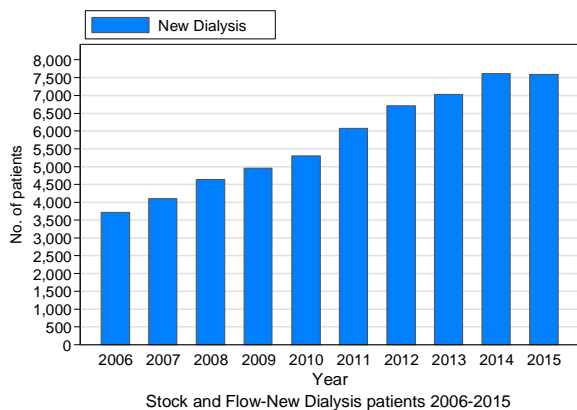
Fortunately the number of new kidney transplant recipients has shown a slight increase compared to the previous 2 years. The number of patients with functioning kidney allografts however continued to decline as the increase in kidney transplantation could not compensate for the loss of allografts. (Table and Figure 1.1)

Table 1.1: Stock and flow of RRT, Malaysia 2006-2015

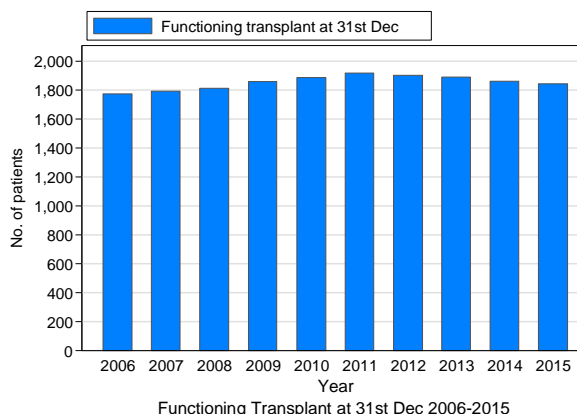
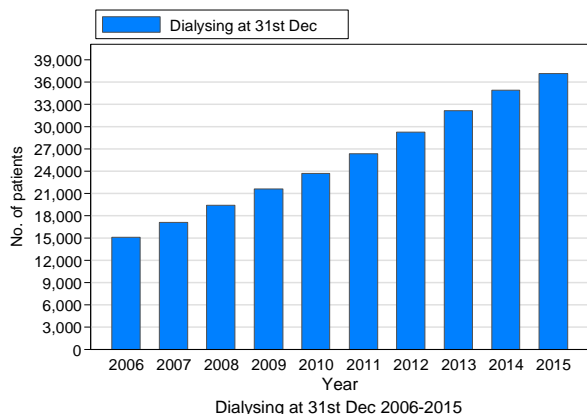
Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
New Dialysis patients	3710	4104	4641	4953	5309	6074	6711	7026	7617	7597
New Transplants	151	113	132	141	128	129	107	99	91	104
Dialysis deaths	1820	1988	2191	2602	3048	3292	3647	4011	4712	4976
Transplant deaths	58	46	59	49	48	55	64	57	65	66
Dialyzing at 31 <sup>st</sup> December	15087	17093	19398	21601	23727	26358	29287	32169	34904	37183
Functioning transplant at 31 <sup>st</sup> December	1774	1793	1814	1859	1889	1918	1903	1890	1862	1845

Figure 1.1: Stock and flow of RRT, Malaysia 2006-2015

(a) New dialysis and transplant patients



(b) Patients dialysing and with functioning transplant at 31st December, 2006-2015



## SECTION 1.2: TREATMENT PROVISION RATE

Dialysis acceptance rates almost doubled in 10 years from 138 per million population (pmp) in 2006 to 253 pmp in 2014. Data for 2015 however is preliminary since at the time of writing this report there was still many new patients yet to be notified to registry. Dialysis prevalence rate increased more than 2-fold over the last 10 years, from 562 pmp in 2006 to at least 1220 pmp in 2015.

New transplant recipient rate has halved over the last 10 years; from 6 pmp in 2006 to about 3 pmp 10 years later. With the significant decrease transplantation rate, the prevalence rate of kidney transplantation continued to decrease.

Table 1.2: New dialysis acceptance rate and new transplant rate per million population, 2006-2015

Acceptance rate	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
New Dialysis	138	151	169	178	186	210	229	236	253	249
New Transplant	6	4	5	5	4	4	4	3	3	3

Figure 1.2: New dialysis acceptance and new transplant rate, 2006-2015

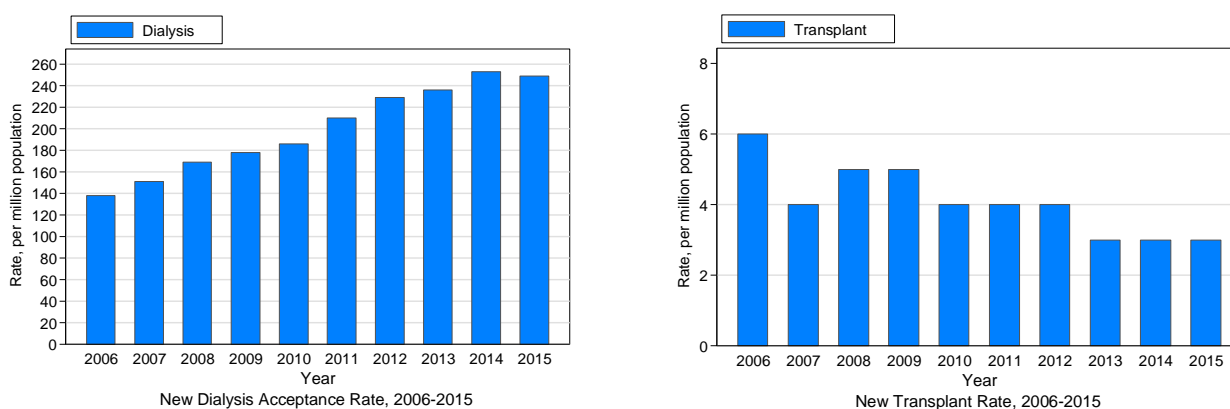


Table 1.3: RRT prevalence rate per million population, 2006-2015

Prevalence rate	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Dialysis	562	629	704	774	830	910	998	1083	1160	1220
Transplant	66	66	66	67	66	66	65	64	62	61

Figure 1.3: Dialysis and transplant prevalence rate per million population, 2006-2015

