

of the Australian and New Zealand Liver Transplant Centres

DATA from 1 July - 31 December 2002



INTRODUCTION

This Interim Report of the Australia and New Zealand Liver Transplant Registry contains data collected from the liver transplant units in Australia and New Zealand from the date of the 14th Report (30th June 2002) to the 31st December 2002.

Demographic data is presented together with analyses of primary diseases and the changing trends in adult disease. The impact of changes in surgical procedures is also highlighted.

Outcome analyses will be performed on the complete data base after data from 1st January 2003 to 30th June 2003 are collated. The full results will be published in the 15th Annual Report by 31st August 2003.

SUMMARY POINTS

- A record number of new patients were transplanted in 2002.
- The increasing burden of patients presenting for transplantation due to chronic viral hepatitis is again seen in the primary disease of new adult transplant recipients.
- The introduction of innovative surgical techniques is contributing to maximising the usage of available donor organs.



From 1 July 2003 to 31 December 109 transplants were performed in 103 patients (5 x second grafts and 1 third graft). A total number of 191 transplants were performed in 179 patients in 2002. The cumulative number of patients and transplants are shown below.



Cumulative Number of Patients & Transplants _____

Demographic data of the new patients transplanted are listed in following table.

<u> Data 1-Jul – 31-Dec 2002</u>	103 Primary transplants			
	19 children [7 <i>M</i> (37%),12 F]			
	median age 3.6y (0.5 – 9.8y)			
	84 adults <i>[</i> 59 <i>M</i> (70%), 25 <i>F</i>]			
	median age 51.4y <i>(18.2 – 68.3y)</i>			





The number of new patients transplanted and the number of transplants performed increased again in 2002 after a decline in 2001 and represented the highest number in a calender year since the beginning of liver transplantation in Australia in 1985.



Number of Transplants by Year







The primary diseases of recipients were similar to that of the historical data from the 14th Report and are shown below.



Data 14th Report (January -85 - June 2002) _____

Primary Diseases





Primary diseases by age sub groups are listed

PRIMIARY DISEASES Children (n= 19)

Biliary atresia	6
Metabolic (2 x a-1-AT, 1 x OTC)	3
Fulminant hepatic failure acute (unspecified)	4
Cryptogenic cirrhosis	1
Other (3 x PFIC, 1 x bile transport defect, 1 x histiocytosis X)	5
TOTAL	19

-1-AT - -1- antitrypsin deficiency OTC - ornithine transcarbamylase deficiency PFIC - progressive fibrosing intrahepatic cholestasis

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DISEASES - Adults (n=84)

Primary Disease	No	Secondary disease
Fulminant hepatic failure - acute (HBV, 2x?)	3	
- subacute (HBV, drug)	2	
Primary sclerosing cholangitis	11	
Primary biliary cirrhosis	3	
Metabolic diseases (2 x a-1-AT, 1xFAP,CF)	4	
Cryptogenic cirrhosis	5	1 x HCC
Alcoholic cirrhosis (ALD)	10	1 x HCC
CAH : autoimmune	4	
CAH : hepatitis C (HCV)	27	10 x HCC, 2 x HBV, 4 x ALD
CAH : hepatitis B (HBV)	9	2 x HCC
Other (2x NASH, 1xpolycystic, secondary biliary cirrhosis , ductopenia)	5	
Hepatocellular carcinoma (HCC)	1	
TOTAL	84	

FAP - familial amyloid polyneuropathy CF - cystic fibrosis NASH - non-alcoholic steatotic hepatitis

In many adult patients more then one disease contributes to end stage liver failure which requires transplantation. This can be seen from the secondary diagnoses listed in the table above. Overall 27 (32%) of 84 adult patients had hepatitis C and 11 (13%) of 84 hepatitis B; 9 were chronic and 2 acute infections. Though this is a small subgroup of the adult recipient population, it reflects the increasing numbers of patients with chronic viral hepatitis being referred to liver units for transplantation





The rate of organ donation has remained static in Australia in 2002. In an attempt to meet the increasing demand for organs for transplantation, all units have introduced innovative surgical techniques. Split liver transplantation, in which a donor liver can be surgically reduced to two viable liver grafts, is now widely applied where an appropriate donor is available. This technique results in a right liver graft of suitable size for an adult recipient and a left liver graft of suitable size for a child recipient. Where a suitable recipient for one of these grafts is not available in the splitting unit, that graft is entered into the rotation for use by another unit thus maximising the graft availability. This is reflected in the number of such grafts transplanted between July and December 2003. Two patients also received grafts from living donors.

	<u>Type of graft (n=109)</u>			
Whole liver (n=85)				
	- adults	76		
	- children	9		
Reduced size graft	a dulta	10		
	- aduits	10	colit	0
			- Spin	9
			- Inving aonor	1
	- children	14	- split	9
			- left segment	4
			- living donor	1



