

Australia and New Zealand Organ Donation Registry

2000 Report

Australia and New Zealand Organ Donation Registry

(ANZOD Registry)

2000 Report

[Data collected to 31st December 1999]

Edited by Ms Karen Herbertt and Dr Graeme Russ

Special Section on Pancreas Transplantation
Contributed by Dr Jeremy Chapman

FUNDING

ANZOD Registry is funded by
Australian Health Ministers' Advisory Council
New Zealand Ministry of Health
The Australian Kidney Foundation

COORDINATING CENTRE

ANZDATA Registry,
The Queen Elizabeth Hospital,
28 Woodville Road, Woodville,
Adelaide, South Australia, 5011.
Phone (61-8) 8222.6704
Fax (61-8) 8445.9699
Email karen.herbertt@dhs.sa.gov.au
anzdata@ozemail.com.au
Web <http://www.anzdata.org.au>

Ms K. Herbertt	Editor/ATCA Delegate for ANZOD
A/Prof G.R. Russ	Editor/Project Manager Transplantation ANZDATA
Mrs L.R. Excell	Project Manager ANZDATA
Mr B. Livingston	Computer Programmer ANZDATA
Mrs E.K. Steinmetz	Secretary/Administrative Officer ANZDATA

SUGGESTED CITATION

The suggested citation for this report is as follows:

ANZOD Registry Report 2000
Australia and New Zealand Organ Donation Registry
Adelaide, South Australia.
Editors: K. Herbertt, G.R. Russ.

Publications based upon ANZOD Registry information reported here or supplied upon request, must include the citation as noted above and the following notice:

The data reported here have been supplied by the Australia and New Zealand Organ Donation Registry. The interpretation and reporting of these data are the responsibility of the Editors and in no way should be seen as an official policy or interpretation of the Australia and New Zealand Organ Donation Registry.

ACKNOWLEDGMENTS

The Editors would like to thank the Donor Coordinators whose reporting of data has made this 2000 Report possible.

NEW SOUTH WALES

Marnie Berriman
Cristina deLeon
Jessica Raimond

QUEENSLAND

Greg Armstrong
Tina Cooper
Angela McInnes
Carolyn Windle

SOUTH AUSTRALIA

Kathy Hee
Karen Herbertt
Glenys Hodgeman
Mary Kelly

VICTORIA

Lisa Jager
Annette Kakris
Geoff Scully

WESTERN AUSTRALIA

Linda Brnjich
Kenneth Reed

NEW ZEALAND

Janice Langlands
Ralph Maddison

STATISTICAL METHODS

Actuarial and Kaplan-Meier survivals have been produced using the procedure contained in SPSS® for Windows™ Release 9.0.1
SPSS Inc.



Government House
Canberra ACT 2600

The excellent results that are now achieved in the transplantation of organs has created an expectation amongst those people who require a transplant that a new future lies ahead. It is thus unfortunate that many of these people are destined to disappointment for the simple reason that there are insufficient organs donated. In fact, as this report details, in 1999 the number of people requiring transplantation rose, while the overall donation rate fell.

This is despite the fact that the great majority of Australians approve of organ donation. A recent survey commissioned by Australians Donate – the National Authority – showed that 73% of Australians would be willing organ donors, although only half that number have registered as such.

The translation of the evident good intentions of a vast majority of Australians into a practical increase in the number of donated organs is a task which we must address as a nation – for it remains a sorry fact that the organ donation rate in Australia is amongst the lowest in the developed world.

The formation of a National Organ Donor Registry, announced recently by the Federal Government, will both increase awareness and commitment to organ donation. The establishment in each State of units responsible for improving the donation rate will also have a positive effect. I hope that through these measures the fall in organ donation rates that has occurred in recent years may be reversed.

Once again I acknowledge the efforts of the Donor Coordinators and the Editors of the Australian and New Zealand Organ Donation Registry in producing this record of donation and transplantation in both countries. I look forward to receiving the year 2000 report in the expectation of improved results, and as a result, an increase in the number of people given a chance at a new life.

A handwritten signature in black ink, which appears to read "William Deane". The signature is fluid and cursive, with a large loop at the end.

Sir William Deane

Governor-General of the Commonwealth of Australia

TABLE OF CONTENTS

INTRODUCTION	
SUMMARY	Page
Australia	1
New Zealand	1
ORGAN DONORS IN AUSTRALIA AND NEW ZEALAND	
Number and Donors per Million of Population	2
International Donor Statistics	2
Donors per Thousand Deaths	2
Donors per Thousand Deaths by State	3
Donors per Three Months in Australia	3
Donor Postcodes	3
DONOR PROFILE IN AUSTRALIA AND NEW ZEALAND	
Age and Gender Distribution	4-5
Intended Donors	6
Cause of Donor Death	7-9
Donor Occupation	10
Ethnic Origin and Religious Denomination	10
Heart-Beating Donors	11
Cardiopulmonary Resuscitation	11
Cytomegalovirus Status of Donors	11
Hepatitis B and Hepatitis C Status of Donors	12
Epstein-Barr Virus Status of Donors	12
Blood Group of Donors	12
Medical Condition of Donors - Donor Weight	13-14
DONOR INTENTION	
Driver's Licence and Donor Card Status	15
CONSENT	16
Direct Contact with Donor Coordinator	16
Coroner's Cases	17
SUMMARY OF ORGANS REQUESTED, CONSENT GIVEN, RETRIEVED AND TRANSPLANTED	17
Organs Requested	18
Organ Recipients Transplanted	18
EXCHANGE OF ORGANS	
Exchange of Organs between States and New Zealand	19
Summary of Organs from New Zealand Donors Transplanted in Australia	19
KIDNEY DONATION	
Waiting List versus Cadaver Transplants	20
Outcome of Request for Kidney Donation	20
Age of Kidney Donors	21
Kidney Perfusion Methods	21
Reasons Kidneys were Unusable	22
Donor Age of Unusable Kidneys	22
Kidney Transplants - Australia and New Zealand	22
Donor Kidney Function	
Terminal Levels of Serum Creatinine and Urea	23
Effect of Creatinine Level on Kidney Graft Survival	24
Effect of Oliguria on Kidney Graft Survival	24
Effect of Hypotension on Kidney Graft Survival	24
Combined Effect of Hypotension and Oliguria on Kidney Graft Survival	25
LIVER DONATION	
Waiting List versus Cadaver Transplants	26
Regional Outcome of Requests for Liver Donation	27
Age of Liver Donors	27
Outcome of Request for Liver Donation	28
Perfusion of Livers	28
Donor Liver Function	28
HEART DONATION	
Waiting List versus Cadaver Transplants	29
Age of Heart Donors	30
Regional Outcome of Requests for Heart Donation	31
Number of Recipients of Heart and Lung Transplants	31
Outcome of Request for Heart Donation	31

TABLE OF CONTENTS

LUNG DONATION		Page
	Age of Lung Donors	32
	Regional Outcome of Requests for Lung Donation	33
	Outcome of Request for Lung Donation	33
	Donor Lung Function	33
PANCREAS DONATION		
	Waiting List versus Cadaver Transplant	34
	Age of Pancreas Donors	35
	Outcome of Request for Pancreas Donation	35
SPECIAL SECTION - PANCREAS TRANSPLANT ANALYSIS 1984 - 1999		
	Age of Pancreas Donors.	36
	Ischaemia Times	36
	Perfusion of Pancreas	36
	Pancreas Transplant Procedure	36
	Pancreas Transplant Outcome	36
CORNEA DONATION		
	Outcome of Request for Cornea Donation	37
BONE DONATION		
	Outcome of Request for Bone Donation	37
TERMINAL MANAGEMENT		
	Time from Admission to Brain Death	38
	Time from Ventilation to Brain Death	38
	Time from Brain Death to Aortic Cross Clamp	39
	Drugs for Maintenance of the Donor	40
	Terminal Treatment (provided in the Operating Theatres)	40
ESTIMATED RESIDENT POPULATION		
	Australia 1996-1999	41
	New Zealand 1992-1999	41

AUSTRALIA

CONTENTS

	APPENDIX I
	Yellow Pages
Donor Numbers for each State	2
Donor Gender Numbers and Age Groups for each State	2-5
Number of Donors from each Hospital	6-8
Cause of Donor Death Related to Gender and Age Group	9-11
Organs Requested by Donor State	12
Organ Consent Obtained by Donor State	13
Organ Consents by Donor State	14
Organ Consents All Australia	14
Reason Organs not Requested by Donor State	15-17
Organs Retrieved by Donor State	18-19
Solid Organs Retrieved by Donor State	20
Solid Organs Retrieved All Australia	20
Reason Organs not Retrieved by Donor State	21-23
Organs Retrieved in Each Donor State by Retrieval State Team	24-25
Transplanted Solid Organs from Donor States	26-27
Outcome of Organs Retrieved in Australia	28-29
Transplanted Solid Organs - Donor State to Destination State	30-32

NEW ZEALAND

CONTENTS

	APPENDIX II
	Green Pages
Donor Gender Numbers and Age Groups	2
Number of Donors from Each Hospital	2
Cause of Donor Death Related to Gender and Age Group	3
Reason Organs not Requested	4
Organ Consents	5
Solid Organs Retrieved	6
Organs Retrieved in New Zealand by Retrieval State Team	6
Reason Organs not Retrieved	7
Combination of Transplanted Solid Organs	8
Outcome of Organs Retrieved	9
Transplanted Solid Organs - Donor State to Destination State	10-12

INTRODUCTION

We are pleased to present the 2000 Report of the Australia and New Zealand Organ Donation Registry (ANZOD Registry). This report contains 1999 data as well as cumulative Australian data from the inception of the Registry in 1989 and New Zealand data since 1993.

The Registry is a collaborative effort of the Australasian Transplant Coordinators Association (ATCA Inc) and the Australia and New Zealand Dialysis and Transplant Registry (ANZDATA).

We are once again honoured to have the support of the Governor General of the Commonwealth of Australia, Sir William Deane, who has kindly written the foreword.

The special section of this Report has been provided by Dr Jeremy Chapman, on behalf of the Pancreas Transplant Registry.

The Registry is grateful for the ongoing financial support provided through the Australian Health Minister's Advisory Council, the Australian Kidney Foundation and the New Zealand Ministry of Health.

The staff employed by the ANZDATA Registry, are exceptionally dedicated and take great pride in their work. Ms Lee Excell continues her meticulous work as the Database Manager, Ms Lis Steinmetz is responsible for the layout and presentation of the report, and Mr Brian Livingston provides statistical programming.

The report can be accessed via our Internet Web Site <http://www.anzdata.org.au> and copies are available at a small cost.

Karen Herbertt
Graeme Russ