



Organ Donation New Zealand
New Zealand's official donor agency

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Annual Report 2013



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ORGAN DONATION NEW ZEALAND

Organ Donation New Zealand (ODNZ) is the national service for deceased organ and tissue donation. It is managed through the Auckland District Health Board and the offices are situated at the Greenlane Clinical Centre in Auckland.

ODNZ co-ordinates organ and tissue donation from deceased donors in New Zealand and the donor co-ordinators provide information and ongoing support for those families who have generously donated organs or tissues.

ODNZ works with health professionals in donor hospitals to ensure there are nationally consistent processes for deceased donation. The service provides education for health professionals, supplies information to the media and responds to public enquiries.

ABOUT THIS REPORT

This report outlines the activities of ODNZ during 2013 and includes organ and tissue donation and transplantation statistics for this period. It is intended to be a valuable source of information for health professionals involved in organ and tissue donation and transplantation; and for the general community.

We have endeavoured to provide readers with a useful and informative picture of organ donation and transplantation in New Zealand over the reporting period.

For their input into this report we gratefully acknowledge Kylie Hurst and Lauren Bell from the Australia and New Zealand Organ Donation Registry; Helen Twohill from the New Zealand National Eye Bank; Jill Faulkner from the New Zealand Heart Valve Laboratory; Vladimir Slyshkov from the New Zealand Tissue Bank; Helen Gibbs from the New Zealand Heart and Lung Transplant Service; Margaret Johnston from the New Zealand Liver Transplant Unit; and Julie Dunlop, Sheryl Sparkes and Sarah Armstrong from the Kidney Transplant Units in New Zealand.

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COMMENT FROM THE CLINICAL DIRECTOR

I would like to sincerely thank the families of the donors who generously agreed to organ and tissue donation in 2013. Without them transplantation would not be possible and the recipients and their families are forever grateful.

In 2013 Organ Donation New Zealand (ODNZ) reported a 54% increase in tissue-only donors (eyes, heart valves and skin). There were 57 tissue-only donors facilitated by ODNZ in 2013, compared with 37 in 2012.

ODNZ would also like to thank the Link Team members and the other health professionals at donor hospitals for their commitment and support of organ and tissue donation.

I appreciate the support and encouragement we receive from the ODNZ Advisory Committee, our transplant and tissue bank colleagues, the Ministry of Health and the Australian and New Zealand Intensive Care Society.

Finally, my sincere thanks to my colleagues at ODNZ for their commitment and efforts in 2013.



Stephen Streat FRACP
Clinical Director, ODNZ

ODNZ

Janice Langlands (team leader) and Mary O'Donnell were joined by Lauren Sprenger and Maree Hulton as donor co-ordinators in 2013. The donor co-ordinators provide a 24-hour service for referrals for organ and tissue donation and for referrals of livers and cardiothoracic organs from Australia.

A medical specialist is available to provide advice and support for health professionals in the intensive care unit (ICU) on all aspects of the donation process. The two medical specialists: Dr Stephen Streat (clinical director) and

Dr James Judson have continued in their roles.

Melanie Stevenson continues as the communications advisor ensuring the media, health professionals and the public are provided with accurate information about organ and tissue donation, predominately through the website, newsletters, brochures and education resources.

Margaret Kent remains as the team administrator, supporting the ODNZ team.

Link Teams

There are Link Teams in every donor hospital in New Zealand. They consist of ICU Link Nurse(s), Operating Theatre (OT) Link Nurse(s) and an ICU Link Doctor.

They play a key role as local leaders, experts and liaison persons for organ and tissue donation.

Advisory Committee

The Advisory Committee provides oversight and guidance for ODNZ and met with ODNZ in June and December. The committee is comprised of representatives from intensive care medicine and nursing, organ and tissue transplantation, Maori

and Pacific health, and consumers. In 2013 Dr Gerard McHugh, an intensivist from Palmerston North, was replaced by Dr David Galler, an intensivist from Middlemore Hospital in South Auckland.

Donor Family Support

The donor co-ordinators provide information and support for donor families both before and after organ and tissue donation. This can include:

- information about the donation process
- providing hand prints and locks of hair of their family member
- general information about the outcome of the donation
- anonymous communication between the recipients and donor families
- Thanksgiving Services.

The Thanksgiving Services respectfully acknowledge the generosity of families who have donated organs and tissues following the death of a family member. Families of donors, recipients and their families, and health professionals involved in both organ donation and transplantation are invited to these services. Live donors of livers and kidneys are also invited.

A Service was held at the Holy Trinity Cathedral, Parnell, Auckland in 2013 with approximately 500 attendees. Services were also held at the Cathedral of St Paul in Wellington and at St Paul's Cathedral in Dunedin. Approximately 250 people attended both the Wellington and Dunedin Services. ODNZ would like to thank everyone who makes these Services so memorable and poignant.



Link Workshop

The Link Nurses attended a two-day workshop in Auckland on 31 October and 1 November 2013. The first day of the workshop covered the use of hypothermia in the treatment of hypoxic-ischaemic encephalopathy (HIE), brain death in HIE, HIE and heart donation and transplantation and extracranial complications in HIE. One of the highlights of the day was the funeral director who dispelled some myths surrounding death and funeral processes.

On the second day the OT Nurses spent the day learning and enhancing their presentation skills to enable them to feel more confident teaching their colleagues about the organ retrieval operation.

ICU Link Doctors joined the ICU Link Nurses to discuss the data from the ICU Death Audit. This was the second ICU Death Audit meeting in 2013 – the first was held in May. See page 12 for more information about the ICU Death Audit.

Health Professional Education

In 2013 study days or educational sessions were held in the following hospitals:



This education provided nursing staff from ICUs and OTs, and other health professionals involved in donation and transplantation with information about the

various aspects of the donation process. Other education sessions were provided for health professionals, nursing students and postgraduate nurses throughout New Zealand.

Teaching sessions on tissue donation were organised for nursing staff in ICUs and wards at Auckland City Hospital as well as hospices and aged care facilities.

Australasian Donor Awareness Program Training (ADAPT)

A Medical ADAPT workshop was held in Auckland in August 2013. The facilitators for this workshop were Mr Mal McKissock, bereavement counsellor, Sydney, Dr Stephen Streat and Dr James Judson. This one-day workshop for ICU doctors focused on communication with families.

Bereavement Course

In August 2013 bereavement counsellor Mal McKissock also facilitated the three-day bereavement course that is organised annually by ODNZ. This was again attended by health professionals who provide support for bereaved families.

Health Professional Education cont...

ODNZ News

A quarterly newsletter is produced by ODNZ to educate staff in donor hospitals throughout New Zealand. It is distributed by the Link Nurses and features information about organ and tissue donation and transplantation, including stories from donor families and transplant recipients.

ODNZ/ICU Death Audit

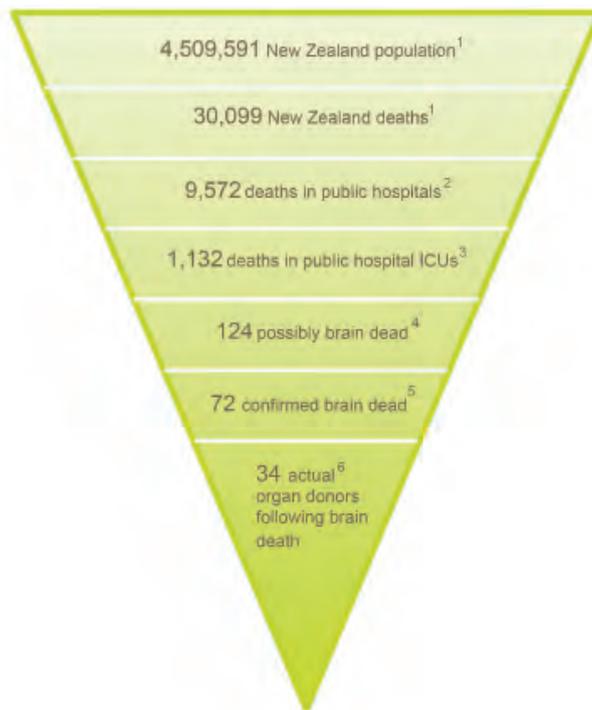
ODNZ gratefully acknowledges the ICU Link Nurses who collect the data for the death audit and respond to the online audit questions.

In 2013 Dr James Judson continued to work with the software provider Enigma to make data entry easier and to improve the quality of the data. He has analysed

the first five complete years of audit data (2008-2012) and started to analyse the responses to the audit questions to date.

Together with the donor co-ordinators, Dr Judson continued to visit hospitals throughout New Zealand to provide feedback on their own hospital's data. Hospitals visited were: Auckland City Hospital Department of Critical Care Medicine (DCCM), Middlemore, Wellington, Christchurch and Timaru.

In 2013 audit meetings, attended by ICU Link Nurses and doctors from donor hospitals in New Zealand, were held in May and November (as part of the Link Workshop).



1. www.stats.govt.nz
2. 2009 Government data
3. ODNZ Death Audit Data 2008-2012. Annualised data.
4. These patients have fixed dilated pupils and no other signs of brain stem activity. They account for 36% of those ventilated in ICU who die with severe brain damage.
5. These patients represent 58% of those who are possibly brain dead. There are many reasons why patients who are possibly brain dead are not confirmed to be brain dead and this is an area of major focus for ODNZ.
6. When families of patients who are confirmed to be brain dead are offered the option of organ donation, they agree 50% of the time. Some of those confirmed to be brain dead are not medically suitable to be organ donors. There were two DCD organ donors in 2013.

Public Awareness

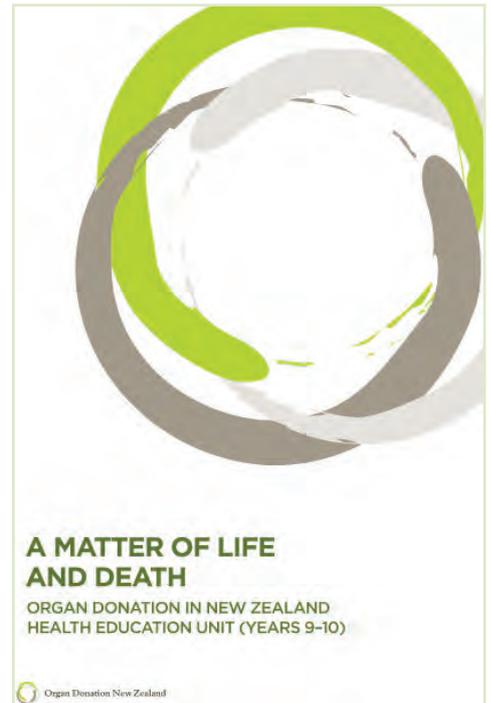
Classic Car Show, Tauranga

A classic car show, organised by lung recipient Danny Saunders, was held in Tauranga on 16 March to raise awareness for organ donation. ODNZ assisted with the show which attracted over 4,000 people and 150 classic cars. Fashion designer Trelise Cooper generously helped with the promotion of the show and judged the 1950s pin-up competition that took place on the day. ODNZ was grateful for the opportunity to be involved and to all those who helped make the day a success.



School Education Program

ODNZ launched a school education program in 2013 to raise students' awareness of the issue of organ donation and encourage them to discuss their thoughts and wishes with friends and whānau. This new resource is freely available at www.donor.co.nz and



consists of units of work to support students and teachers to meet the requirements of the New Zealand Curriculum. The resources provide background information about organ donation for students at Years 9 and 10 and also at Years 11 and 13 (NCEA Level 1 and 3). Teachers are encouraged to contact ODNZ for ongoing support and further information about the resources.

Public enquiries

ODNZ responds to public enquiries from the 24-hour 0800 number (0800 4DONOR) and from the website (www.donor.co.nz).

ORGAN DONATION NEW ZEALAND - ATTENDANCE AT CONFERENCES AND TRAINING WORKSHOPS

Attendance at Conferences and Training Workshops

Advanced Care Planning and End of Life Care Conference, Melbourne, 9-11 May

Dr James Judson attended this conference which covered many aspects of care at the end of life.

Bereavement course, Auckland, 26-28 August

This three-day course is run for health professionals who provide support to bereaved families and was attended by Lauren Sprenger and Maree Hulton.

The Australian Organ and Tissue Authority Electronic Donor Referral (EDR) training, Canberra, 23-25 September

This training for the implementation of the EDR was attended by Janice Langlands. Australia is implementing this in 2014.

2013 Organ Donation Congress, International Society for Organ Donation and Procurement, Sydney, 21-24 November

Dr James Judson, Janice Langlands, Maree Hulton and Melanie Stevenson went to this international conference which was attended by 562 health professionals from 42 countries involved in organ and tissue donation and transplantation. Learning more about the initiatives of the Australian Organ and Tissue Authority was beneficial for the ODNZ contingent who attended. Prior to the congress, Dr Judson attended site visits to DonateLife in Melbourne and the Organ and Tissue Authority in Canberra.

Donor Family Conversation Workshop, Melbourne, 28-29 November

This workshop is for health professionals communicating with those families being offered the option of organ and tissue donation and was attended by Maree Hulton.

Donor Surgeons Donor Co-ordinators Advisory Committee Meeting, Sydney, 3 December

This committee meets bi-annually and Janice Langlands was present at this meeting which addresses procedures involved in organ retrieval.

In 2013, 36 deceased donors from 12 ICUs in 11 donor hospitals donated organs (and tissues) for transplantation and 54% of those who donated organs, also donated tissue(s). This does not include those who donated tissues (eyes, heart valves and skin) only.

Table 1:

Number of deceased organ donors in New Zealand

HOSPITAL	2009	2010	2011	2012	2013
AUCKLAND CITY DCCM	12	8	7	6	9
AUCKLAND CITY CVICU	0	0	0	0	1
CHRISTCHURCH	4	3 [1]*	5	7	7
DUNEDIN	7	4	4	3	1
GREY BASE	1	1	0	0	0
HAWKE'S BAY	3	1	2	3	2
HUTT	0	1	0	1	1
MIDDLEMORE	1	2	3	4	3
NELSON	1	1	1	1	0
NORTH SHORE	1	0	1	1	0
PALMERSTON NORTH	0	0	1	2	0
ROTORUA	1	1	2	0	1
SOUTHLAND	0	2	0	1	1
STARSHIP CHILDREN'S	2	0	0	0	1 [1]*
TARANAKI BASE	1	0	0	0	0
TIMARU	1	0	1	2	0
WAIKATO	2 [1]*	11	5 [2]*	0	5
WAIRAU	1	0	0	0	0
WELLINGTON	4 [1]*	5	4	6	4[1]*
WHANGAREI	1	1	2	1	0
TOTAL NUMBER OF DONORS	43	41	38	38	36

Note: []* DCD donors

ORGAN AND TISSUE DONATION

Table 2:

Cause of Donor Death by Year

	2009	2010	2011	2012	2013
CVA	21	22	19	14	26
TRAUMA (ROAD)	9	9	6	4	1
TRAUMA (OTHER)	4	4	4	8	2
HYPOXIA-ANOXIA	8	2	8	7	6
OTHER	1	4	1	5	1
TOTAL	43	41	38	38	36

Table 3:

Age of Deceased Donors By Year

	2009	2010	2011	2012	2013
MEAN	43.0	43.5	40.0	47.2	47.3
MEDIAN	46	44	44	49.2	51.4
MINIMUM	3.6	15.1	13.0	14.9	1.8
MAXIMUM	74.6	71.4	73.9	76	81.5

Table 4:

Ethnicity of Deceased Donors by Year

	2009	2010	2011	2012	2013
EUROPEAN	35	32	30	28	29
MAORI	5	5	3	6	3
PACIFIC PEOPLE	0	1	4	1	0
OTHER	3	3	1	3	4
TOTAL	43	41	38	38	36

Table 5:

Organs and Tissues Retrieved from Deceased Donors and Transplanted

	2009	2010	2011	2012	2013
KIDNEYS*	56(4)	56[8]	65[8]	54	61(2)[4]
HEARTS	11	11	12	12	9
LUNGS+	16	16	13	12	19
LIVER#	33	33	30	29	24
PANCREAS	2	2	3	2	1
CORNEAS#	13	13	16	14	17
HEART VALVES#	8	8	11	9	14
SKIN#	4	4	3	2	3

* Single kidneys
+ Number of lung recipients

() En-Bloc kidneys
[] Double adult

Number of donors of these organs/tissues

Table 6:

Organs from New Zealand Deceased Donors Transplanted in Australia

	2009	2010	2011	2012	2013
LIVER	5	5(2)	1	5(3)	5[4]
HEART	0	0	1	0	0
LUNGS	8	3	3	1	0
KIDNEY	0	2	0	0	0

Table 7:

Organs from Australian Deceased Donors Transplanted in New Zealand

	2009	2010	2011	2012	2013
LIVER	3	6(1)	7(1)	8(1)	5[3]
HEART	0	0	0	0	0
LUNGS	0	0	0	0	0
KIDNEY	0	0	0	0	0

() Split livers

In 2013 some organs from New Zealand donors were transplanted to Australian recipients and vice versa in accord with the trans-Tasman organ sharing agreement of the Transplant Society of Australia and New Zealand (TSANZ) which is available on their website: <http://www.tsanz.com.au>

ORGAN TRANSPLANTATION IN NEW ZEALAND

Organ transplantation from deceased donors in New Zealand includes:

- Kidney transplantation, deceased-donor and live-donor kidney transplantation, at Auckland City Hospital, Starship Children's Hospital, Wellington Hospital and Christchurch Hospital
- Liver transplantation, deceased-donor and live-donor adult-to-adult and adult-to-child transplantation, at Auckland City Hospital and Starship Children's Hospital
- Heart transplantation at Auckland City Hospital and Starship Children's Hospital and lung transplantation at Auckland City Hospital
- Pancreas transplantation at Auckland City Hospital.

Table 8:

**Kidney
Tranplantation
by Year and
Donor Type**

Kidney Transplantation

	2009	2010	2011	2012	2013
RECIPIENTS, DECEASED DONOR, SINGLE KIDNEY	52	46	57	54	52
RECIPIENTS, DECEASED DONOR, DOUBLE KIDNEY	2	4	4	0	3
LIVING DONOR	67	60	57	54	58
TOTAL	121	110	118	108	113

Table 9:

**Heart and Lung
Transplantation
by Year****Heart and Lung Transplantation**

	2009	2010	2011	2012	2013
HEART	11	11	11	12	9
LUNGS	8	9	10	12	19

Table 10:

**Liver
Transplantation
by Year****Liver Transplantation**

	2009	2010	2011	2012	2013
ADULT, DECEASED DONOR	28	29	31	26	25
ADULT, LIVE ADULT DONOR	2	0	2	0	0
CHILD, DECEASED DONOR	3	6	5	8	6
CHILD, LIVE ADULT DONOR	6	6	6	3	3
TOTAL	39	41	44	37	34

Table 11:

**Pancreas
Transplantation
by Year****Pancreas Transplantation**

	2009	2010	2011	2012	2013
PANCREAS	2	3	3	3	1

TISSUE DONATION AND TRANSPLANTATION

ODNZ continued to work throughout 2013 to increase the opportunity for tissue donation, particularly in the Auckland and Waikato regions where multi-tissue (heart valve, skin and eye donation) can be facilitated. However, eye donation can be facilitated throughout New Zealand.

Table 12:

Tissue Only Donation Facilitated by ODNZ

In 2013 tissue donation was facilitated by ODNZ from the following:

REFERRED FROM:	WARD/UNIT	TISSUE (ONLY) DONORS
NORTH SHORE HOSPITAL	ICU	2
	MEDICAL WARD	1
AUCKLAND CITY HOSPITAL	DCCM	5
	CVICU	3
	WARDS 63, 64, 65, 66, 67, 68, 71, 76, 83	16
STARSHIP CHILDREN'S HOSPITAL	PICU	1
MIDDLEMORE HOSPITAL	NICU	1
	GENERAL SURGERY WARD	1
	OTHER	1
WAIKATO HOSPITAL	ICU	6
	MORTUARY SERVICES	1
TAURANGA HOSPITAL	WARD 3C	1
ROTORUA HOSPITAL	MEDICAL WARD	1
WANGANUI HOSPITAL	ICU	1
NELSON HOSPITAL	MEDICAL UNIT	1
DUNEDIN HOSPITAL	NICU	1
NORTH HAVEN HOSPICE, WHANGAREI		1
NORTH SHORE HOSPICE, AUCKLAND		1
MERCY HOSPICE, AUCKLAND		4
AROHANUI HOSPICE, PALMERSTON NORTH		1
JERVOIS RESIDENTIAL CARE, AUCKLAND		1
REMUERA RISE, AUCKLAND		1
ST JOHN'S HOSPITAL, AUCKLAND		1
WHARERANGI REST HOME, TAUPO		1
VILLAGE AT THE PARK, WELLINGTON		1
FAMILY REFERRAL		2
TOTAL		57

In 2013 there were 57 tissue-only donors facilitated by ODNZ. This was a 54% increase from 2012.

ODNZ would like to thank those who were involved in the referrals and helped ODNZ facilitate tissue donation, in particular Liverpool Care Pathway facilitators at Auckland City Hospital (ACH); the Palliative Care Team at ACH; charge nurses and nursing staff on the wards at ACH; nursing and medical staff at DCCM, CVICU, PICU at ACH, North Shore Hospital ICU and Waikato Hospital ICU; and nursing staff at Mercy Hospice.

ODNZ would also like to thank the Forensic Pathology Technicians at Auckland City and Waikato Hospitals for facilitating tissue retrieval.

Tissue-only donation is also facilitated by:

- The donor tissue co-ordinator facilitates tissue-only donation for those having coronial autopsies at the Department of Forensic Pathology at Auckland City Hospital
- The corneal co-ordinators from the New Zealand National Eye Bank facilitate eye-only donation referred directly to their service. The corneal co-ordinators also facilitate eye donation referred from the Bereavement Team at Middlemore Hospital.
- The heart and lung transplant team co-ordinate heart valve donation from the explanted hearts from heart transplant recipients.

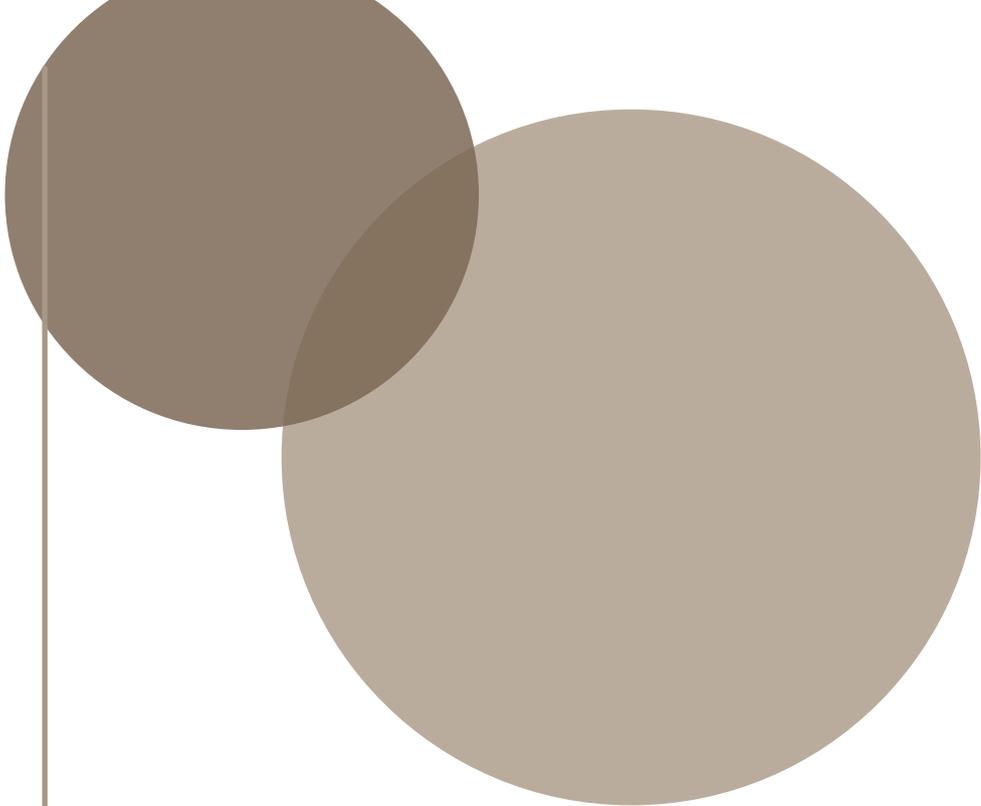
Table 13:

Tissue Donation for Transplantation by Year

Total Tissue Donation in New Zealand

	2009	2010	2011	2012	2013
SKIN	18	10	25	13	29
HEART VALVES	19	21	26	25	29
EYES	123	142	154	167	173

NOTES



www.donor.co.nz