

Organ Donation New Zealand

Annual Report 2014



Organ Donation New Zealand
New Zealand's official donor agency



Organ Donation New Zealand

Organ Donation New Zealand (ODNZ) is the national service for deceased organ and tissue donation. The service 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 New Zealand deceased donors for transplant units in New Zealand and Australia, and for tissue banks in New Zealand. The donor co-ordinators provide information and ongoing support for families who have generously donated organs and tissues for transplantation.

ODNZ works with health professionals involved in deceased organ and tissue donation to ensure the processes are respectful for everyone involved. The service provides education for health professionals and responds to media and public enquiries.

About this report

This report outlines the activities of ODNZ during 2014, and includes organ and tissue donation, and transplantation statistics for this period. It is intended to be a source of information for health professionals involved in organ and tissue donation and transplantation; and for the general community.

For their input into this report we gratefully acknowledge Kylie Hurst from the Australian and New Zealand Organ Donation Registry; Helen Twohill from the New Zealand National Eye Bank; Jill Faulkner from the New Zealand Heart Valve Bank; Vladimir Slyshkov from the New Zealand Tissue Bank; Helen Gibbs from the New Zealand Heart and Lung Transplant Service; Barry Harrison from the New Zealand Liver Transplant Unit; Tricia Casey, Sheryl Sparkes and Sarah Armstrong from the Kidney Transplant Units in New Zealand.

Contents	From our Clinical Director	4
	Organ Donation New Zealand	5
	Link Teams / The ODNZ Advisory Committee / Donor Family Support / Education Study Days and Health Professional Education / Australasian Donor Awareness Program Training (ADAPT) / Link Workshop / Link Nurse Induction Day / ICU Death Audit / Bereavement Course / ODNZ News / Public Awareness / The ODNZ App / Public enquiries / Attendance at Conferences and Training Workshops	
	Organ and Tissue Donation	12
	Number of Deceased Organ Donors in New Zealand / Cause of Donor Death by Year / Age of Deceased Donors by Year / Ethnicity of Deceased Donors by Year / Organs and Tissues Transplanted from New Zealand Deceased Donors / Organs from New Zealand Deceased Donors Transplanted in Australia / Organs from Australian Deceased Donors Transplanted in New Zealand	
	Organ Transplantation In New Zealand	12
	Kidney Transplantation by Year and Donor Type / Heart and Lung Transplantation by Year / Liver Transplantation by Year / Pancreas Transplantation by Year	
	Tissue-Only Donation	16
	Tissue Only Donation Facilitated by ODNZ / Total Tissue Donation in New Zealand	

From our Clinical Director

In 2014 Organ Donation New Zealand (ODNZ) reported 46 organ donations compared with 36 in 2013.

I would like to sincerely thank the families who generously agreed to organ and tissue donation in 2014 and thereby provided recipients and their families with the benefits of organ and tissue transplantation.

ODNZ would also like to thank the Link Team members in the intensive care units (ICUs) and operating rooms, and all of the other health professionals at donor hospitals. ODNZ appreciates their commitment to donation. This commitment includes recognising the situations where donation might be possible, contacting ODNZ at an early stage and discussing these opportunities, continuing intensive care support in patients who are likely to become brain dead, determining whether brain death has occurred in all patients when it appears to be present, discussing donation with families at an appropriate time and performing all the additional tasks that are necessary before donation can occur.

I personally appreciate the support and encouragement that ODNZ receives from the doctors and nurses who staff ICUs, from the ODNZ Advisory Committee, our transplant and tissue bank colleagues, from the Ministry of Health and from the Australian and New Zealand Intensive Care Society.

Thanks again to my ODNZ colleagues for their continued commitment to excellence in donation.



Stephen Streat FRACP
Clinical Director, ODNZ

Organ Donation New Zealand

Four donor co-ordinators: Janice Langlands (team leader), Mary O'Donnell, Lauren Sprenger and Maree Hulton, provide a 24-hour service for referrals from ICUs for organ donation, for tissue donation and for liver referrals from Australia. The two part-time medical specialists: Dr Stephen Streat (clinical director) and Dr James Judson, provide advice and support for health professionals on all aspects of the donation process. The team administrator: Margaret Kent, provides support for the ODNZ team.

The communications advisor: Melanie Stevenson, provides information to health professionals and the public, primarily through the website, newsletters, brochures and the School Education Resources. Melanie commenced parental leave in November and that position is being filled by Michael Colhoun from January 2015.

Link Teams

There are Link Teams consisting of ICU link nurses, operating theatre link nurses and ICU link doctors in all public hospitals capable of facilitating organ donation in New Zealand. They play a key role as experts and liaison persons for organ and tissue donation for their hospital. In 2014 an expanded ICU link nurse role was developed in Middlemore, Waikato, Wellington and Christchurch hospitals.

The ODNZ Advisory Committee

The Advisory Committee provides oversight and guidance for ODNZ and met with ODNZ in May and December. The committee comprises representatives from intensive care medicine and nursing, organ and tissue transplantation, Maori health, Pacific health, and consumers. The committee membership remained unchanged in 2014.

Donor Family Support

The donor co-ordinators provide information and ongoing support for families who have generously donated organs and tissues for transplantation. This support includes the offer of hand prints and locks of hair of their family member, provision of general information about the outcome of the donation and facilitating anonymous communication between recipients and donor families and vice versa.

Thanksgiving services were held in Auckland and Christchurch in 2014. These services respectfully acknowledge the gift of organ and tissue donation given by families. A service was held at the Holy Trinity Cathedral, Parnell, Auckland with approximately 500 attendees and Christchurch Transitional Cathedral with approximately 300 attendees. The services provided an opportunity for recipients to anonymously thank donor families.

Education Study Days and Health Professional Education

Study days or educational sessions were held in 2014 in the following hospitals:



These study days are organised by ODNZ co-ordinators, link nurses and nurse educators and cover all aspects of the organ and tissue donation process. The study days are attended by nursing staff from ICUs and operating theatres (OTs), and other health professionals involved in donation and transplantation. Other education sessions on organ and tissue donation were provided for nursing staff in ICUs, hospital wards, hospices and for nursing students and postgraduate nurses at educational institutes and universities.

Australasian Donor Awareness Program Training (ADAPT)

A Medical ADAPT workshop was held in Auckland in September 2014. The facilitators for this workshop were Mr Mal McKissock, bereavement counsellor, Sydney, Dr Stephen Streat and Dr James Judson. This one-day workshop is for intensivists and trainees and focuses on the communication and care for the families of dying patients and potential organ and tissue donors.

Link Workshop

The ICU and OT link nurses attended a two-day workshop in Auckland in November 2014. The first day of the workshop focused on lung donation, including lung donation after circulatory death (DCD), and lung transplantation. Mr Kumud Dhital, Cardiothoracic Transplant Surgeon, St Vincent's Hospital, Sydney addressed workshop attendees about their use of machine perfusion to improve the function of donated hearts.

ICU link doctors joined ICU link nurses on day two to discuss the data from the ICU Death Audit.

Link Nurse Induction Day

A one-day workshop was organised again in 2014 for link nurses who were new to this role. The workshop provided attendees with a general overview of organ and tissue donation and the processes. The ODNZ team and experienced ICU and OT link nurses gave an overview of their roles.

ICU Death Audit

ODNZ is grateful to the ICU link nurses who continued to collect and enter data for this Audit. In 2014 Dr James Judson continued to work with the software provider Enigma to make data entry easier and to improve the quality of the data. Together with the donor co-ordinators, Dr Judson continued to visit hospitals and ICUs throughout New Zealand to provide feedback on their data. In some hospitals, Dr Judson also provided health professionals with an update on the processes of organ and tissue donation. Sites visited were: Whangarei, Auckland City CVICU, Middlemore, Waikato, Rotorua, Whakatane, Taranaki, Whanganui, Palmerston North, Wellington and Christchurch.

In 2014 audit meetings were held in May and November and were attended by ICU link nurses and doctors.

Bereavement Course

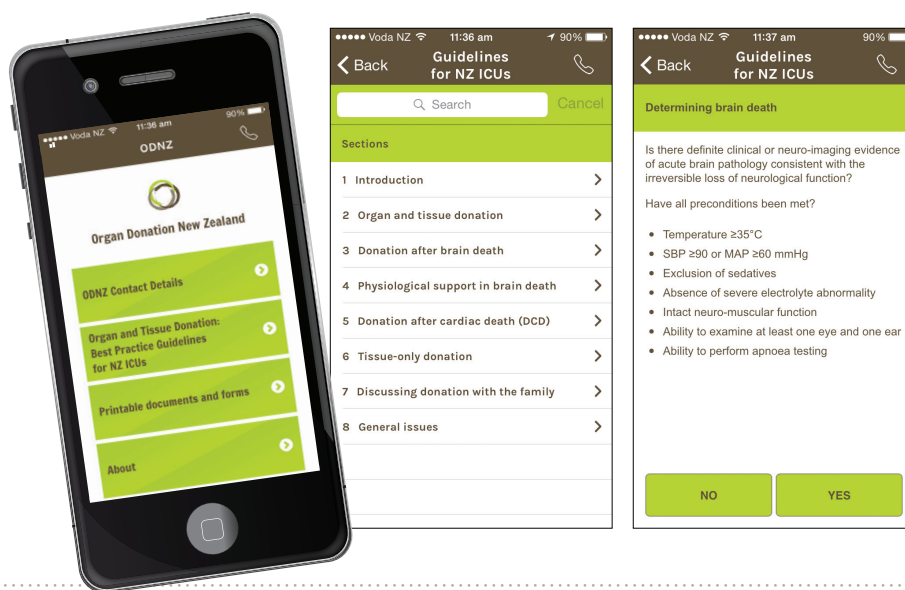
In September 2014 bereavement counsellor Mal McKissock facilitated a three-day bereavement course organised by ODNZ. This was attended by health professionals who act in an advocacy and supportive role for dying and bereaved people. In 2014 audit meetings were held in May and November and were attended by ICU link nurses and doctors.

ODNZ News

A newsletter produced by ODNZ and featuring information about organ donation and transplantation is distributed for health professionals working in donor hospitals throughout New Zealand. Each newsletter also features a story from a donor family and a transplant recipient and gives some insight into the services involved in organ and tissue donation and transplantation.

The ODNZ App

A new smartphone application was developed by ODNZ for health professionals to have all the necessary resources for organ and tissue donation at their fingertips. It contains the ODNZ Best Practice Guidelines and other resources for New Zealand ICUs. The app will be available for mobile users on iPhone, Android and Microsoft Windows phones. It provides quick access to printable documents, forms and ODNZ contact information.



Public enquiries

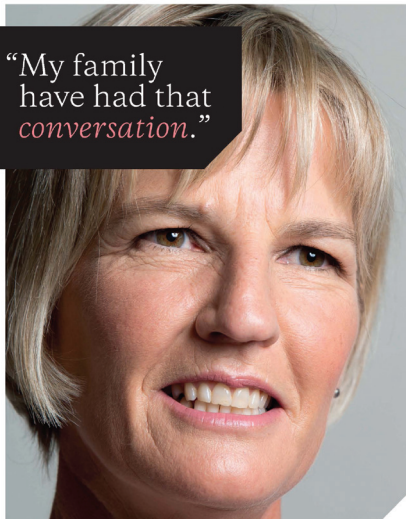
ODNZ responds to public enquiries from the 24-hour 0800 number (0800 4DONOR) and from the website (www.donor.co.nz).

Public Awareness

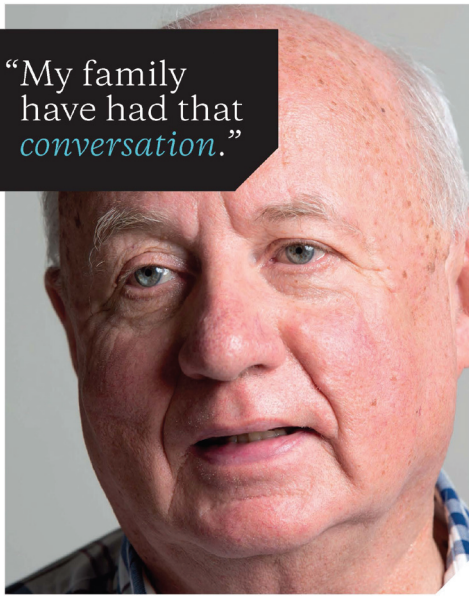
Have The Conversation Today 2014 Awareness Day

A large number of cafés, with the assistance of transplant recipients, placed stickers on coffee cups encouraging people to “Have the conversation today”. This awareness day encouraged people to have the important conversation about organ and tissue donation. The national awareness day was held on Saturday 11 October, the same day as the European Day for Organ Donation and Transplantation. ODNZ released a series of new brochures, posters and postcards as part of the 2014 awareness day.

Latest ODNZ brochures and pamphlets, please contact us for these.



“My family have had that *conversation.*”



“My family have had that *conversation.*”


Have the *conversation* today.



“My family have had that *conversation.*”

Have the *conversation* today.

www.donor.co.nz | 0800 4 DONOR



“My family have had that *conversation.*”

Have the *conversation* today.

www.donor.co.nz


Organ Donation New Zealand
New Zealand's official donor agency



“My family have had that *conversation.*”

Have the *conversation* today.


www.donor.co.nz | 0800 4 DONOR



“My family have had that *conversation.*”

Have the *conversation* today.

www.donor.co.nz | 0800 4 DONOR



Attendance at Conferences and Training Workshops

Family Donation Conversation Core Workshop Melbourne, 3-4 March

Janice Langlands, Dr Jo Ritchie, ICU link doctor, Middlemore Hospital and Jo Farrell, ICU link nurse, Middlemore Hospital attended this two-day workshop which provides training to health professionals working in organ, eye and tissue donation. The workshop aims to provide increased knowledge, understanding and skills in having conversations with potential donor families and ensuring that families are provided with sufficient information to make an informed donation decision.

Family Donation Conversation Core Workshop Melbourne, 11-12 March

Dr Stephen Streat and Dr James Judson attended this workshop hosted by the Australian Organ and Tissue Authority (OTA). This was the pilot of a revised syllabus for the education of health professionals involved in conversations with potential donor families. Their attendance was part of their commitment to the ANZICS Death and Organ Donation Committee.

20th Congress of the International Liver Transplantation Society London, 4-7 June

Dr James Judson attended this conference which was particularly strong on advances in acute liver failure and in the treatment of Hepatitis C.

World Transplant Congress San Francisco, 26-31 July

Lauren Sprenger attended this joint meeting of the American Society of Transplant Surgeons, The Transplantation Society and the American Society of Transplantation.

Australian and New Zealand Intensive Care Society (ANZICS)/ Australian College of Critical Care Nurses (ACCCN) Annual Scientific Meeting on Intensive Care Melbourne, 9-11 October

Dr James Judson attended this conference which included an interesting plenary session on organ donation scenarios. James was awarded life membership of ANZICS at the conference dinner.

TSANZ Donor Surgeons/Donor Co-ordinators Advisory Group Sydney, 2 December

As a member of this advisory group, Janice Langlands attended the Transplant Society of Australia and New Zealand meeting which focused on organ retrieval processes.

ANZICS Death and Organ Donation Committee

Dr Stephen Streat and Dr James Judson travelled to Melbourne and also participated via teleconferences on this committee. The primary purpose was to advise and provide feedback on the ANZICS Statement on Death and Organ Donation.

ANZICS End of Life Care Working Group

Dr Stephen Streat and Dr James Judson travelled to Melbourne and also participated via teleconferences on this working group. This resulted in creation of the ANZICS Statement on Care and Decision Making at the End of Life. This was approved by ANZICS in October 2014 and is available online.

Organ and Tissue Donation

In 2014, 46 deceased donors from ICUs in 16 donor hospitals donated organs (and tissues) for transplantation, a 28% increase from 2013. This does not include those who donated tissues (eyes, heart valves and skin) only. There were six donors in 2014 who donated following circulatory death.

Table 1:
Number of Deceased Organ Donors in New Zealand

Hospital	2010	2011	2012	2013	2014
Auckland City DCCM	8	7	6	9	6 [1]
Auckland City CVICU	0	0	0	1	0
Christchurch	3 [1]	5	7	7	7
Dunedin	4	4	3	1	4
Gisborne	0	0	0	0	1
Grey Base	1	0	0	0	0
Hawke's Bay	1	2	3	2	3
Hutt	1	0	1	1	0
Middlemore	2	3	4	3	3 [1]
Nelson	1	1	1	0	0
North Shore	0	1	1	0	1
Palmerston North	0	1	2	0	2
Rotorua	1	2	0	1	1
Southland	2	0	1	1	1
Starship Children's	0	0	0	1 [1]	1
Tauranga	0	0	0	0	0
Taranaki Base	0	0	0	0	0
Timaru	0	1	2	0	0
Waikato	11	5 [2]	0	5	3 [1]
Wairau	0	0	0	0	0
Wellington	5	4	6	4 [1]	10 [3]
Whakatane	0	0	0	0	1
Whanganui	0	0	0	0	1
Whangarei	1	2	1	0	1
Total number of donors	41 [1]	38 [2]	38	36 [2]	46 [6]

Table 2:
Cause of Donor Death
by Year

	2010	2011	2012	2013	2014
Intracranial haemorrhage	20	17	13	25	15
Cerebral infarct	3	1	1	1	5
Traumatic brain injury (road)	9	6	4	1	7
Traumatic brain injury (other)	3	4	8	2	10
Hypoxic-ischaemic encephalopathy	2	8	7	6	8
Other neurologic condition	4	2	5	1	1
Total	41	38	38	36	46

Table 3:
Age of Deceased
Donors by Year

Hospital	2010	2011	2012	2013	2014
Median	44.4	44.1	49.2	51.4	49.7
Mean	43.5	40.0	47.2	47.3	45.6
Minimum	15.1	13.0	14.9	1.8	0.2
Maximum	71.4	73.8	76	81.5	82.5

Table 4:
Ethnicity of Deceased
Donors by Year

	2010	2011	2012	2013	2014
European	32	30	28	29	37
Maori	5	3	6	3	4
Pacific People	1	4	1	0	2
Other	3	1	3	4	3
Total	41	38	38	36	46

**Table 5:
Organs and Tissues
Transplanted from
New Zealand Deceased
Donors**

	2010	2011	2012	2013	2014
Kidneys*	56 [8]	65 [8]	54	61(2)[4]	67 (2)
Hearts	11	12	12	9]	17
Lungs†	16	13	12	19	20
Liver#	33	30	29	24	32
Pancreas	2	3	2	1	2
Corneas#	13	16	14	17	23
Heart Valves#	8	11	9	14	8
Skin#	4	3	2	3	3

* Single kidneys, † number of lung recipients, () En-Bloc kidneys, [] Double adult

Number of donors of these organs/tissues

Note: Transplantation can take place in New Zealand and Australia

**Table 6:
Organs from
New Zealand Deceased
Donors Transplanted
in Australia**

In 2014 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: www.tsanz.com.au

	2010	2011	2012	2013	2014
Liver	5 [2]	1	5 [3]	5[4]	4[3]
Heart	0	1	0	0	1
Lungs	3	3	1	0	3
Kidney	2	0	0	0	0

[] Split livers

**Table 7:
Organs from Australian
Deceased Donors
Transplanted in
New Zealand**

	2010	2011	2012	2013	2014
Liver	6 [1]	7 [1]	8 [1]	5 [3]	7
Heart	0	0	0	0	1
Lungs	0	0	0	0	0
Kidney	0	0	0	0	0

[] Split livers

Organ Transplantation In New Zealand

Organ transplantation in New Zealand includes:

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

In 2014 there was one combined heart and liver transplant, two combined liver and kidney transplants and two simultaneous kidney and pancreas transplants.

Table 8:
Kidney Transplantation
by Year and Donor Type

	2010	2011	2012	2013	2014
Recipients, deceased-donor, single kidney	46	57	54	52	65
Recipients, deceased-donor, double kidney	4	4	0	3	1
Living donor	60	57	54	58	72
Total	110	118	108	113	138

Table 9:
Heart and Lung
Transplantation by Year

	2010	2011	2012	2013	2014
Heart	11	11	12	9	17
Lung	9	10	12	19	17

Table 10:
Liver Transplantation
by Year

	2010	2011	2012	2013	2014
Adult, deceased donor	29	31	26	25	31
Adult, live adult donor	0	2	0	0	0
Child, deceased donor	6	5	8	6	7
Child, live adult donor	6	6	3	3	5
Total	41	44	37	34	43

Table 11:
Pancreas
Transplantation
by Year

	2010	2011	2012	2013	2014
Pancreas	3	3	3	1	2

Tissue-Only Donation

Tissue donation can include heart valves, skin and eyes (corneas and sclerae). Tissue-only donation is possible in most circumstances when people die. In 2014 there were 48 tissue-only donors facilitated by ODNZ from the following:

Table 12:
Tissue-Only Donation
Facilitated by ODNZ

Referred from:	Ward/Unit	Tissue (only) Donors
Auckland City Hospital	DCCM	13
	CVICU	4
	Wards 63, 64, 68, 74, 76	11
Christchurch Hospital	ICU	2
Hawke's Bay Hospital	Medical Ward	1
Middlemore Hospital	ICU	1
	NICU	1
North Shore Hospital	ICU	2
	Medical Ward, ED	2
Rotorua Hospital	ICU	1
Waikato Hospital	ICU	3
Wellington Hospital	Ward 7 South	1
Whangarei Hospital	Ward 16	1
Mercy Hospice, Auckland		2
North Haven Hospice, Whangarei		1
Coronial Service		1
Family Referral		1
TOTAL		48

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 donations referred directly to their service. The corneal co-ordinators also facilitate eye donations referred from the Bereavement Team at Middlemore Hospital.
- The Heart and Lung Transplant Service co-ordinates heart valve donation of the explanted hearts from heart transplant recipients.

Table 13:
Total Tissue Donation
in New Zealand

Number of Donors	2010	2011	2012	2013	2014
Skin	10	25	13	29	13
Heart Valves	21	26	25	29	34
Eyes	142	154	167	173	174

www.donor.co.nz