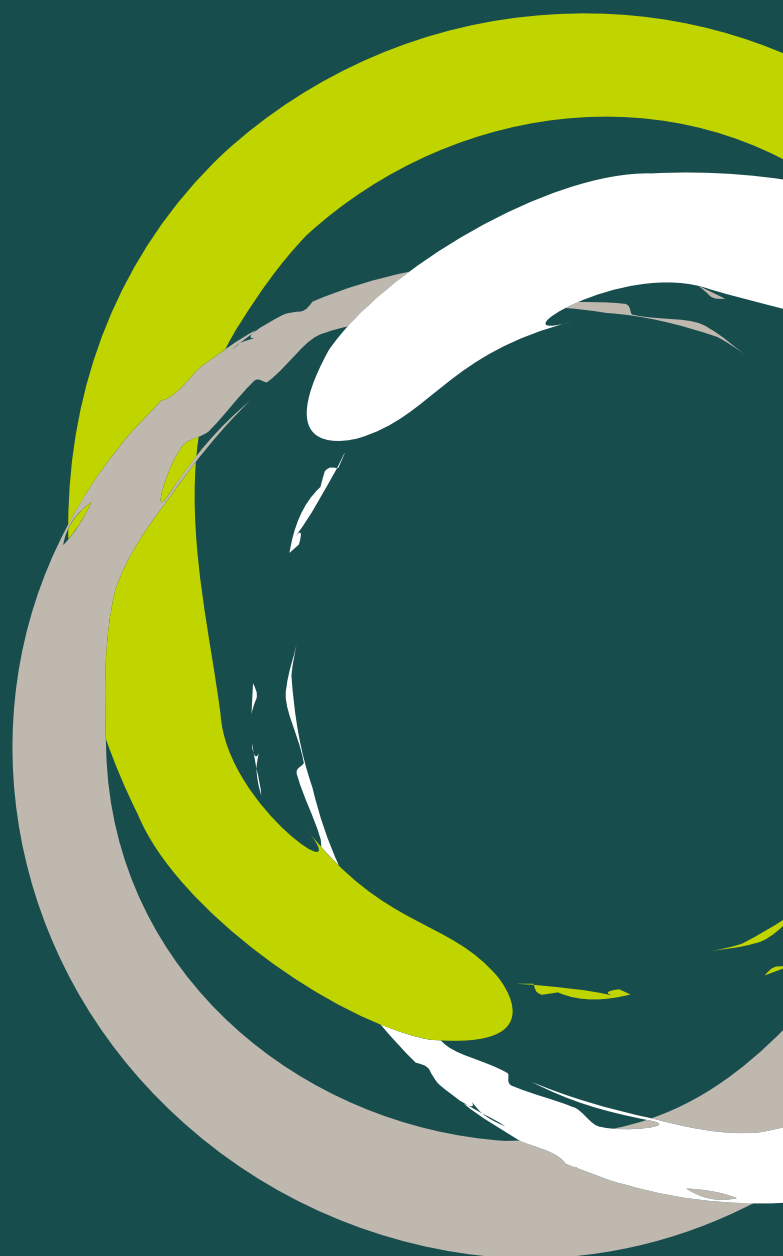


Organ Donation New Zealand

**ANNUAL
REPORT**

2022





Organ and tissue donation – the gift of life

Organ and tissue donation – the gift of life. The ODNZ logo consists of three interlacing circles.

These represent the three key participants in the organ donation story – the donor, the family of the donor and the transplant recipient.

The 'life circles' indicate the connection all three participants have with each other – the donor's gift of an organ or tissue, the family, who gave permission for this process to occur in a time of incredible emotional stress, and the recipient who receives the organ or tissue because of this generosity.

It is an emotional time for all concerned, and they will be linked through this intimate process forever.

The donor/family never meet the recipient or know each other's identities, hence the life circles never quite meet. The stylised strokes of the three circle elements also represent the cycle of all living things, there is a beginning and an end, and in the context of organ and tissue donation, a life can be renewed from the ending of another.

Through death comes the gift of life.



About the Report

This report outlines the activities of Organ Donation New Zealand (ODNZ) and provides an authoritative account of organ and tissue donation and transplantation activity in New Zealand during 2022.

It is intended to be a valuable source of information for health professionals involved in organ and tissue donation and transplantation, as well as for the community.

We gratefully acknowledge the New Zealand transplant units and tissue banks for providing data included in this report.

Published July 2023

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**THE YEAR
IN REVIEW**



**A HISTORY OF ORGAN
DONATION AND
TRANSPLANTATION IN
NEW ZEALAND**



**ODNZ
ACTIVITIES**



**ORGAN AND
TISSUE DONATION**



**IN LOVING
MEMORY**



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Organ Donation New Zealand

THE YEAR IN REVIEW



2022 was a year of refreshed focus and growing momentum for ODNZ. Like many organisations and families all over New Zealand, we finally started 'coming out of COVID'.

There has been such flux over the past two years with COVID as a health priority and the disruption it has caused. At ODNZ, we transitioned well to virtual connection and learnt new ways of working. We were mindful of the ongoing toll and difficulties faced by many and, we were excited to be back at the workplace in 2022 – engaging face-to-face and preparing for the next phase of growth.

Donations

Organ and tissue donation is a precious result of circumstance, compassion, and extensive co-ordination. In 2022, 63 people donated organs following death in New Zealand. This led to 184 people receiving lifesaving kidney, liver, lung, heart, or pancreas transplants. Many more received tissue transplants (cornea, sclera, heart valves and skin) from these donors.

Of the 63 deceased organ donors, 53 donated following brain death (DBD – where the brain has died but the heart has not yet stopped) and 10 were donors after circulatory death (DCD – after the heart has stopped).

A further nine patients were unable to donate organs for various reasons, however three were able to donate tissues for transplantation. A further 55 tissue-only donations were facilitated by ODNZ from people who died in a hospital, hospice or at home.

The team at ODNZ acknowledge the graciousness of whānau who consider the option of organ and

tissue donation for a relative who is dying or who has died. Donation is only possible through a donor whānau making this generous decision at a difficult and sad time.

Aligning Strategic Priorities

We have continued to work towards our national strategy, first published in 2017, with a goal to increase deceased organ, tissue donation and transplantation.

This strategy recognises that lifting the level of organ and tissue donation is everyone's responsibility: the public, clinicians and the government all have a role to play. To better enable the organ and tissue donation decision, our strategy seeks to:

- improve public awareness and knowledge of the options and processes involved,
- improve New Zealand's registration system,
- enhance capability through training and,
- increase hospital-based capacity.

In 2022, we further aligned our efforts with the developing strategy. The budget provided an extra \$12 million in funding for the next four years to accelerate implementation. We also continued to engage extensively with the community and media outlets to further increase public awareness and education. More resources have also been made available in hospitals, which will help us enhance the opportunity for donations.

New Zealand Blood Service and ODNZ

November 2022 marked two years of ODNZ embedded within New Zealand Blood Service (NZBS). While we've retained the ODNZ brand, our

team is now truly a part of NZBS, working closely and collaboratively to make the most of the benefits on offer. Sharing resources and uniting on campaigns provides efficiency together with wider reach and visibility.

Doing the process well

While organ and tissue donation numbers are what people look at, our measure of success is doing the process well. When we look after our team, our immediate whānau, the donor whānau, the ICUs and everyone involved, donation numbers will naturally increase. We are here to make the donation process as respectful and caring as possible for everyone involved.

The dedication and commitment of the ODNZ team, ODNZ Link nurses and doctors, and the wider ICU and Operating Theatre (OT) teams throughout New Zealand, continues to provide an excellent service.

Hellos and goodbyes

Growth has seen new staff welcomed. Two new donor coordinators, two new medical specialists and a new medical secretary have built our team to thirteen.

We also said some goodbyes, including to a person important in our history. Janice Langlands has been an iconic figure behind organ donation in New Zealand for nearly 30 years. She was one of the first donor coordinators, and a respected team leader. Janice helped build the service from the early stages of organ donation to today's highly regarded, multi-faceted operation.

Following Janice's retirement, there was a period of co-leadership with Sue Garland and Annette Flanagan sharing the role. Sue was appointed as Team Leader in December 2022.

Strong relationships

We have expanded our relationships with the National Transplant teams. We appreciate the opportunity to work closely with them and benefit

from some of their game-changing technology. Regular education meetings are also part of our ongoing work together.

Post pandemic we were able to restart the Australian and New Zealand Paired Kidney Exchange (ANZPKX). This program matches incompatible donor and recipient pairs with other incompatible pairs across Australia and New Zealand.

Donation after circulatory death (DCD) has been identified as an area for donation growth. In 2022 we have had another three hospitals successfully credentialed for that process – Nau mai, haere mai Whangārei Hospital, North Shore Hospital, and Taranaki Base Hospital.

We are pleased to see an increasing awareness and focus on the importance of tissue donation. Wellington ICU has been a huge advocate for tissue donation in the last year, more than doubling donations. This is life enhancing for so many recipients of eye tissue, heart valves and skin.

Looking ahead, we will continue to ensure that every opportunity for donation is recognised. We will continue to collaborate with many others to promote organ and tissue donation and to ensure the best outcome for donors, their whānau, transplant recipients, and all staff involved in the donation process.

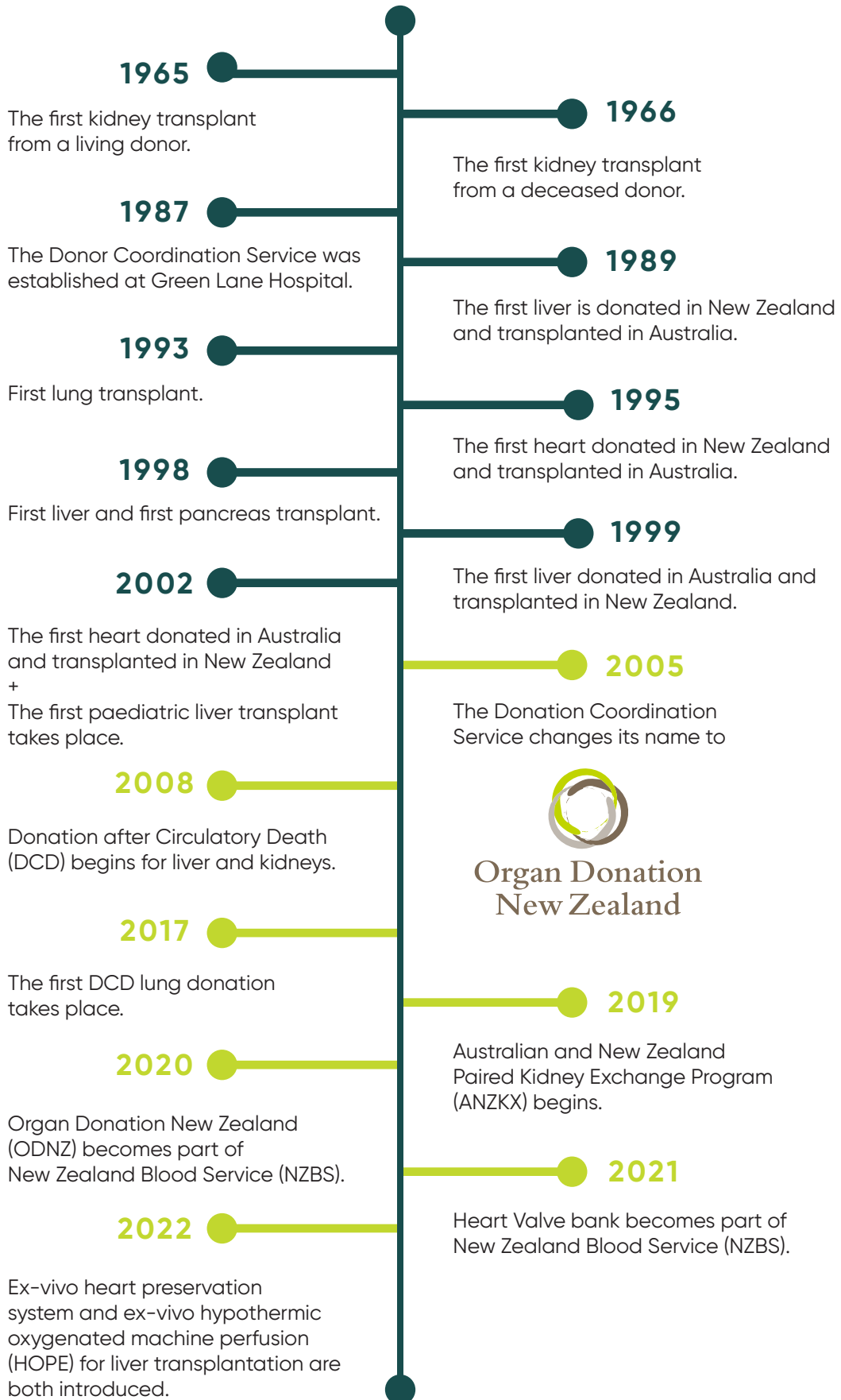
We are looking forward to more face to face events in 2023 including a two day ODNZ Link team Symposium and Thanksgiving services in Auckland and Christchurch!

The ability of our team and partners to find solutions and persevere through challenges has once again been truly inspiring. Over 2023 and beyond, we aim to highlight all donation opportunities, and work hard with other healthcare agencies, to bring life-changing donated organs and tissues to more New Zealanders.

DR JOANNE RITCHIE

MEDICAL SPECIALIST
ODNZ CLINICAL LEAD

A HISTORY OF ORGAN DONATION AND TRANSPLANTATION IN NEW ZEALAND



ORGAN DONATION NEW ZEALAND

About Organ Donation New Zealand

Organ Donation New Zealand (ODNZ) is the national service for deceased organ and tissue donation. It was established in 1987 when heart transplantation began, and the service was managed by the Auckland District Health Board (ADHB).

Originally named the 'Transplant Donor Coordination Service', the organisation changed its name to Organ Donation New Zealand in 2005. Today, ODNZ is managed by New Zealand Blood Service (NZBS) and is situated in the NZBS National Office in Auckland.

ODNZ coordinates organ and tissue donation from deceased donors in New Zealand and the donor coordinators provide information and ongoing support for families who have generously agreed to organ and tissue donation.

ODNZ works with health professionals in donor hospitals to ensure that processes for deceased donation are nationally consistent and of the highest medical, ethical and legal standards.

Our purpose:

"We are committed to providing a respectful and compassionate organ and tissue donation service, enabling life changing transplantation."

Our skilled team of health professionals work with compassion and respect to empower people by providing appropriate knowledge and support

In doing this we commit to the following values:

- Striving for Excellence | Kia tau ki te Tihi
- Teamwork | Te Mahi Ngātahi
- Integrity and Respect | Te Pono me Te Tika
- Open Communication | Te Whakawhitiwhiti Whakaaro i Runga i te Māharahara
- Safety for All | Te Haumaruru Hoki te Katoa

ODNZ's Guiding Principles:

- Every opportunity for deceased organ donation should be recognised by ICU staff and every family should have donation discussed with them by a health care professional with compassion, respect and appropriate knowledge and skill. Donation should be discussed with all families irrespective of whether the word 'donor' is on the driver licence.
- The process of organ donation must accord with good medical practice, ethical standards, and the law. The Human Tissue Act (2008) requires consent before organs or tissue may be removed from a deceased person for transplantation.
- The family's decision about donation should always be respected. All donors come out of human tragedy and donation by the family is voluntary.

STAFFING

Donor Coordinators

Sue Garland (Team Leader), Annette Flanagan (Deputy Team Leader), Mary O'Donnell, Lauren Sprenger, Sharon Skinner, Lisa Craig, Owen Chesbrough and Leigh Travers are the ODNZ donor coordinators.

The donor coordinators are nurse specialists who provide a 24-hour consultation, advice and support service for health professionals involved in organ and tissue donation. They coordinate organ and tissue donations throughout New Zealand for transplant services in New Zealand and Australia and tissue banks in New Zealand.

The donor coordinators also provide an extensive education program, which includes workshops, study days and education sessions for health professionals at hospitals throughout New Zealand, as well as for medical students and the public.

Medical Specialists

The medical specialists, who are also intensive care specialists, provided 24-hour support and advice on all aspects of the donation process for the donor coordinators and health professionals.

Jo Ritchie (National Clinical Lead), Laura Bainbridge, Jonathan Casement, Kim Grayson (Wellington) and Tobias Mertz are employed part-time as the ODNZ medical specialists. Debra Chalmers (Hawkes Bay) and Myles Smith (Dunedin), assisted with on-call in 2022.

Administration

Emma Watts is the ODNZ team medical secretary. She supports the team by streamlining internal processes, assisting with reports, event management and travel coordination.



Sue Garland



Annette Flanagan



Mary O'Donnell



Lauren Sprenger



Sharon Skinner



Lisa Craig



Owen Chesbrough



Leigh Travers



Dr Joanne Ritchie



Dr Jonathan Casement



Dr Laura Bainbridge



Dr Kim Grayson



Dr Tobias Mertz



Emma Watts

Donation Link Teams

The Donation Link teams in donor hospitals consist of ICU Donation Link nurses and doctors and OT Donation Link nurses. They are the local experts and liaison for organ and tissue donation for their hospital and help facilitate organ and tissue donations.

The Ministry of Health funds part-time ICU medical and nursing staff in Donation Link roles and is responsible for these contracts.

“Working as ICU Donation Link nurses is an incredibly special role as we witness the strength and resilience of donor families. It is a privilege to be part of a team that strives to facilitate excellent care for the patient and their whānau.”



Christchurch ICU Donation Link nurses: From left to right:
Sarah Cahill, Karina O'Rourke, Lisa Bargh, Lin Helm.

ODNZ ACTIVITIES

Donor Family Support

The donor coordinators provide information and support for donor families both before and after organ and tissue donation. This includes the offer of items of remembrance such as handprints and locks of hair, providing general information about the outcome of their donation and facilitating anonymous communication between transplant recipients and donor families and vice versa.

Thanksgiving Services are held to 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 and tissue donation and transplantation are invited to these services. Unfortunately, the services were cancelled in 2022 due to the COVID-19 pandemic. Services were held in May 2023 at the Holy Trinity Cathedral in Auckland and the Christchurch Transitional Cathedral.

Education

ODNZ provides an extensive organ and tissue donation education program for health professionals throughout New Zealand. This ranges from short educational sessions to full day workshops and includes the following:

Organ and Tissue Donation Study Day

This general study day held at hospitals around New Zealand, is for health professionals to gain an insight into organ and tissue donation and transplantation, the donation process, address common myths and misconceptions and share donor family and recipient stories.

Donation Link Nurse Induction Day

This introductory workshop for all new ICU and OT Donation Link nurses provides an overview of ODNZ and the organ and tissue donation process. It is an opportunity for the nurses to network with colleagues from other hospitals, to develop a richer understanding and knowledge of their roles and to share experiences and resources.

Advanced Study Day

These workshops are for experienced ICU nurses to increase their awareness of patients who could potentially donate, to provide a better understanding of the donation process and the roles of the health professionals involved and to improve knowledge and skills in the conversations with families and colleagues. In 2022 study days, half day workshops and educational sessions were held in the following hospitals:

- Auckland DCCM
- Auckland CVICU
- Auckland PICU
- Middlemore
- Wellington
- Christchurch
- Dunedin

The donor coordinators and medical specialists also provided short educational sessions for health professionals in other hospital wards and departments, at hospices and for nursing students and postgraduate nurses at Unitec and University of Auckland, as well as for University of Auckland medical students.

New Zealand Donation Awareness Course (NZDAC)

The NZDAC is a course, designed to specifically address how donation occurs in New Zealand. There are sessions on: Tikanga of donation, the process of donation how donation is organised, and the legal aspects. Physiological support of the donor, outcomes for recipients are also presented and there are small group sessions where challenging scenarios are discussed.

The course is aimed at any clinical staff who are involved in the donation process. This is a recommended course for doctors on the Auckland regional intensive care training programme.

In May 2022 two half day abridged Family Donation Conversation (FDC) workshops were facilitated. This workshop combined with the NZDAC met the official College of Intensive Care Medicine (CICM) training requirements and also acknowledged the importance of NZ specific topics regarding donation practices.

“The session on Tikanga Māori was excellent. It will be so helpful for donation situations going forward.”

Core Donation Family Workshop

Every person or family of a person in a situation where donation might be possible has the right to make a donation decision. It is essential that they are provided with the information and support to ensure this is fully informed and enduring.

The core Family donor conversation (cFDC) workshops are interactive sessions designed to teach the best practices for discussing organ donation at a time of enormous grief and loss and how to support families through this process.

Completion of the cFDC is a requirement for all doctors who are to become intensive care specialists in Australasia.

The two day workshop was held in Auckland on the 15th and 16th September 2022 facilitated by Dr Steve Philpott and Bernie Dwyer from Donate Life Australia. The workshop was well attended by 33 attendees: 18 ICU doctors, 13 Donation Link nurses and 2 Donor Coordinators.

“The communication strategies that I have learned will be beneficial in all aspects of my role.”

In 2022 the practical family donor conversation workshop (pFDC) was run for the first time in New Zealand on the 14th November 2022. This one-day workshop expands on the knowledge learnt in the cFDC and gives participants the opportunity to reflect on the key elements of the core FDC workshop while practicing challenging scenarios in simulated scenarios.

The workshop was attended by ODNZ staff, ICU Donation Link nurses and senior ICU nursing staff who are involved in donation conversations with families.

The feedback from attendees at this workshop was very positive. ODNZ plans to hold another practical FDC workshop in July 2023 and recommends attendance to Donation Link doctors and nurses, senior medical and nursing staff and other health professionals who are involved in donation conversations with families.

“The small group, skill and knowledge of the facilitators made the role-playing exercises feel very safe. The scenarios were realistic and provided an excellent opportunity to practice keeping donation conversations open.”

ICU Donation Audit Meeting

A half day hybrid meeting was held at the National Office of the New Zealand Blood Service in November. These meetings are held to present intensive care units throughout New Zealand with recent data collected, highlighting changes and differences in practice. Regional knowledge and experiences are also shared with colleagues throughout New Zealand.

It is usual for these meetings to be attended by ODNZ ICU Donation Link teams throughout New Zealand. In 2022, ODNZ extended this invitation to Operating Theatre Donation Link nurses.

Donation After Circulatory Death (DCD)

DCD accreditation was completed at North Shore Hospital, Whangārei Hospital and Taranaki Base Hospital. Work continues with education and protocol development at CVICU - Auckland City Hospital and Tauranga Hospital.

Medical Grand Rounds

Laura Bainbridge, ODNZ medical specialist and Sue Garland, ODNZ donor coordinator presented at the medical grand round and spoke to ICU staff in New Plymouth Hospital. The presentation included an update on organ and tissue donation in New Zealand and addressed some of the common myths about donation.

Meeting with the abdominal transplant teams

A virtual half day meeting was held in March 2022, attended by ODNZ, Liver transplant and Kidney transplant teams. Topics discussed include: technological advances in liver transplantation, investigations needed prior to a donation and a review of transplantation audit data.

This meeting was well received by all and there are plans to continue this on a yearly basis.

The ODNZ App

The app continues to be a valuable resource for health professionals working in ICUs (Intensive Care Units), operating theatres and emergency departments throughout New Zealand. It provides instant access to organ and tissue donation guidelines and documentation, along with the ability to directly contact ODNZ.

The app was updated in 2022 to reflect recent updates to the ANZICS' (Australia and New Zealand Intensive Care Society) statement as well as to include newly credentialed DCD Hospitals.



ODNZ celebrates two years with New Zealand Blood Service



An excerpt from an article published in NZBS Staff November 2022 news.

It is two years since Organ Donation New Zealand (ODNZ) moved to join us here at New Zealand Blood Service (NZBS) and yesterday they celebrated the milestone.

“The time has absolutely flown,” the team says. “We’ve had such a warm welcome, our team has grown, and it is so nice to be part of the larger service.”

ODNZ’s work during the past two years has helped to impact many lives, with 398 recipients benefitting from the generosity of organ donors, donors’ families and whānau, and the work of the clinicians the ODNZ team support.

“There have been 125 donors who have donated 410 organs,” says ODNZ Medical Specialist Jo Ritchie.

“They include 233 kidneys, 93 livers, 28 hearts, 45 lungs and 11 pancreas’s.”

There have also been 101 tissue donations of eyes (64), heart valves (32) and skin (five) – donations that have the potential to help another 350-400 people.

COMMUNICATION

Public Awareness

Thank You Day

Donating organs and tissues is an incredible act of kindness that can transform lives. On Wednesday 30 November, Organ Donation New Zealand and organ donation recipients came together to say a heartfelt “thank you” to donors, their families and whānau, and all those involved in donation across the country.

Our nationwide campaign attracted media coverage and was supported by a full page newspaper advertisement, online and social media activity. It featured heart transplant recipient Wiremu Keepa who shared his personal story and journey 20 years on from receiving his precious gift – a selfless gift from a donor and their grieving whānau that has given him a second chance at a life lived to the full.

Wiremu’s new heart has enabled him to continue his study and career, raise his children, be an active member of his community, and experience the joy of becoming a koro (grandfather).



“I’m so blessed to be surrounded by the love and presence of my mokopuna. Without my heart transplant, these moments of connection would never have transpired. I’m so lucky.”

This special annual day is an opportunity for Kiwis touched by organ donation to come together and express gratitude towards organ and tissue donors and their families, who have given so generously and changed the lives of others.

Have the Conversation

March 2023 was National Kidney Month with World Kidney Day being recognised on March 9.

Organ Donation New Zealand together with Kidney Health New Zealand joined forces to help raise awareness about the importance of kidney donation and encourage more New Zealanders to have a conversation about organ donation – specifically deceased organ and tissue donation and live kidney donations across Aotearoa.

Our nationwide campaign activity included media coverage and online and social media activity.



ORGAN AND TISSUE DONATION

In loving memory

"Edyn was a real people person. All sorts of people naturally gravitated toward her."

Parents Bonita and Morris will never forget, for the five days Edyn was in hospital the waiting room was always packed.

"There was a journal for visitors and that book got filled out. Every now and then I'll have a read of it, and it'll just take me back" Morris recalls, "Just all the love in the book."

"Culturally, being Māori Pacifica, times like that are usually closed doors. But we just couldn't deny the love for a person. We had friends of friends of friends of friends turning up, saying, can we pray for your girl? Can we sing songs for your girl?"

Edyn had a wide range of friends from all walks of life, "the naughty ones to the good ones to the angels." People were simply drawn to her.

Morris recalls when she went to a friend's house for a birthday party. "The dad actually said that of all the friends, Edyn's the only one that can come back, because she was the only one that helped them with the dishes. But that was her."

"She had a really big heart. She was really giving of her time to her friends. She always put herself out there. But there were times where I had to just rein her in and say, look, we've got to make sure that you're well before you help others because it's demanding."

As a teenager growing up with an allergy, Edyn just didn't want to put people out of place or cause a fuss. "At 16, she was starting to come into her own. We could already see she was really mature for her age. She had a good group of friends around her. And was a real caring and giving person."

Edyn had her own unique style. She loved Japanese anime and everything about Japan, the art, the food, the people, even the calligraphy. She would leave her really curly afro hair out. "That was kind of like her key identifier. When we were out, I could always spot her easily."

Academically she was really clever, taking Te Reo Māori and Japanese and art and music. English was one of her favourite subjects too. She loved to read. When she moved out to Manurewa High School, her music came to the fore. Edyn played alto, tenor, and baritone saxophone in school bands. She could play guitar, easily picking up tunes and chords from videos, and could dabble on piano and drums.

"Home's pretty quiet now. Edyn would have the radio going in her room, the TV going, she'd have her phone going, everything was loud. So, there was heaps of noise at home. It's a bit quiet now."



Like most parents, Bonita and Morris never entertained the thought of anything happening to Edyn. It wasn't until they were at hospital and things were declining, the option of donation was discussed.

Morris remembers the early conversations. "That person at the hospital who talks to the parents has the hardest job because, in the first instance hearing about organ donation, I'm like, what are you talking about, you're already counting her out... because you hope for miracles, you're sort of in dreamland of hoping things will work out. But then reality hits when they've done all the sensor tests, and everything's come back, and a doctor tells you she has been pronounced brain dead."

"We had a tight knit group of friends and family around us. We all discussed organ donation, and everyone came back with the same thing: If Edyn was alive, what would she want? "

"My brother-in-law said, look, if Edyn had a wheelbarrow full of food, what would she do? She'd share the lot; she'd give it away. That was the type of person she was, so that helped the decision making. We needed to share that load with our close friends and family because we couldn't hold that ourselves. It was a difficult decision, but in the end it just felt right. 100 percent."

"We also had to navigate the cultural aspect, because you don't tend to separate the body from its organs or cremate. So, we were learning as we went along in that space. We did have her cremated as we thought, well she's not whole because she's gone on to share herself in others. So, we have her ashes at home in a beautifully carved gourd."

"It also made us think about what we want when we pass on. We made sure we've got a donor down on our licenses and we've had those discussions between us. What are you comfortable with donating? How do you want things to happen? That's a legacy of Edyn."

"One thing I'm grateful for is that we at least had a period to say goodbye to her, while she was in hospital, and that her friends had the opportunity to come and visit her as well."

"We would love to know where Edyn's organs have gone, and how they've got on. We did get a notification that they went to three males, which Edyn would think that was hilarious, because she was a bit of a tomboy herself."

"I always feel like we did make the right decision for Edyn. It's what she would have wanted. She's gone on to help others, which is what she always did. In fact, I'm quite proud when I tell the story to friends about my daughter and the organ donation."



ORGAN AND TISSUE DONATION

Table 1: Number of Deceased Organ Donors in New Zealand

In 2022, 63 deceased organ donors from ICUs in 12 donor hospitals donated organs (and tissues) for transplantation. Of these, 53 donated following brain death (DBD) and 10 donated following circulatory death (DCD).

There were also nine Intended Organ Donors where organ donation did not proceed. Three of these Intended Organ Donors donated tissues for transplantation. These numbers are not included in the table below.

This does not include tissue-only donors (eyes, heart valves and skin).

Hospital	2018	2019	2020	2021	2022
Auckland City CVICU	0	0	0	3 [1]	1
Auckland City DCCM	11 [1]	11 [1]	11	15 [1]	14
Christchurch	12 [1]	17 [5]	9 [1]	12 [1]	13 [5]
Dunedin	4	10 [3]	5 [1]	7	2
Gisborne	0	0	0	1	0
Grey Base	1	0	0	0	0
Hawke's Bay	2	3	1	2	1
Hutt	0	0	2	0	0
Middlemore	6 [3]	3 [1]	4 [2]	4 [1]	5 [1]
Nelson	3	3 [1]	1	2 [1]	0
North Shore	2	2	1	1	3 [2]
Palmerston North	2	0	0	0	1
Rotorua	1	1	2	1	3 [1]
Southland	1	0	2	0	0
Starship Children's	0	1	1 [1]	1	0
Taranaki Base	0	2	1	1	0
Tauranga	0	4	1	1	3
Timaru	2	0	0	0	1
Waikato	5 [2]	5 [1]	11 [2]	3	5 [1]
Wairau	0	0	0	0	0
Whanganui	0	0	0	0	0
Wellington	9 [1]	11 [1]	12 [1]	11 [1]	11
Whakatāne	0	1	0	0	0
Whangārei	1	0	0	1	0
Total number of donors					
Note: [] DCD donors	62 [8]	74 [13]	64 [8]	66 [6]	63 [10]

Deceased Donation by Year 2013–2022

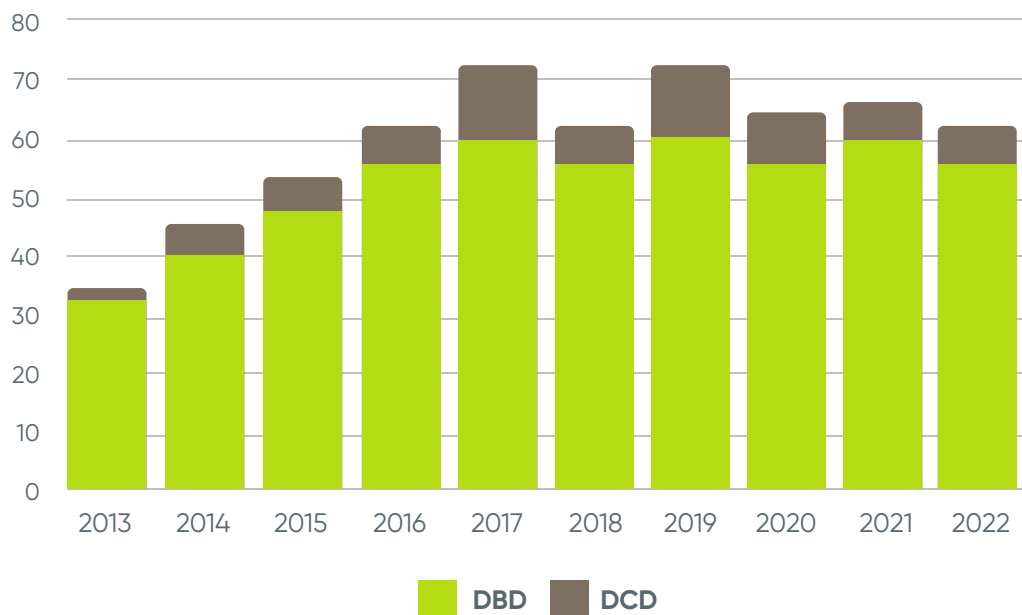


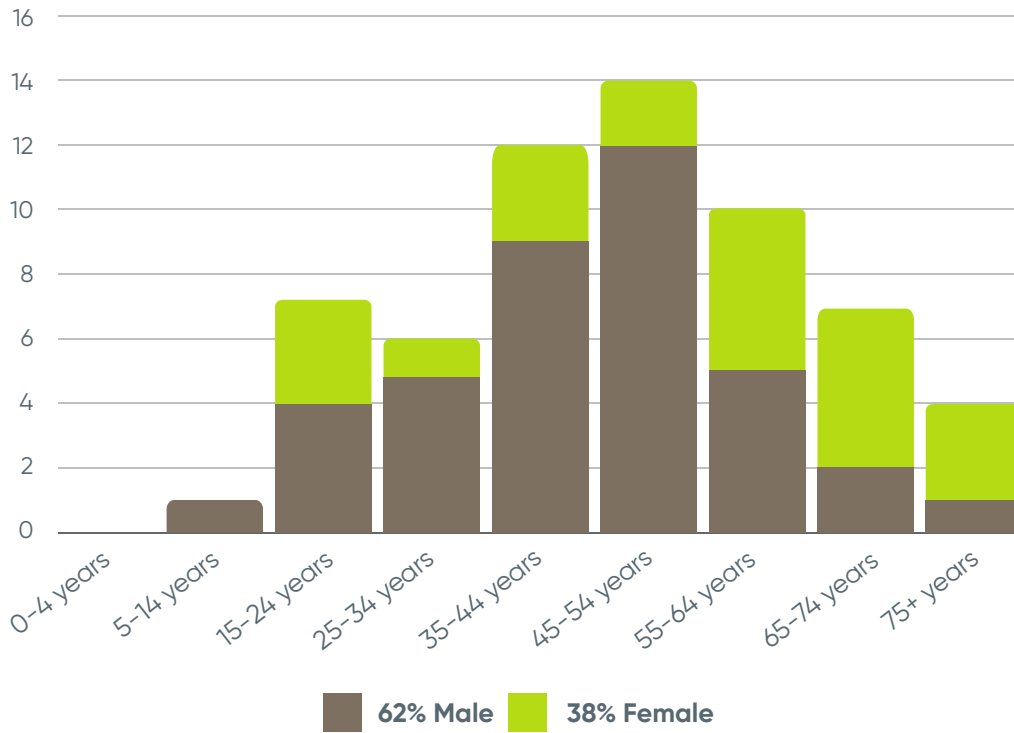
Table 2: Cause of Donor Death by Year

	2018	2019	2020	2021	2022
Intracranial haemorrhage	24	24	23	29	28
Cerebral infarct	3	2	6	5	3
Trauma (road)	11	10	10	8	7
Trauma (other)	11	11	5	10	9
Hypoxia-anoxia	9	18	18	11	12
Other	4	9	2	3	4
Total	62	74	64	66	63

Table 3: Age of Deceased Donors by Year

	2018	2019	2020	2021	2022
Mean	46.9	47.4	46.7	44.6	46.9
Median	49	50.1	52.5	49.8	46.7
Min	14.5	13.8	10.2	1.2	14.5
Max	81.2	82.9	81	78.8	78.8

Age and Gender of Deceased Donors 2022



Ethnicity of Deceased Donors 2022

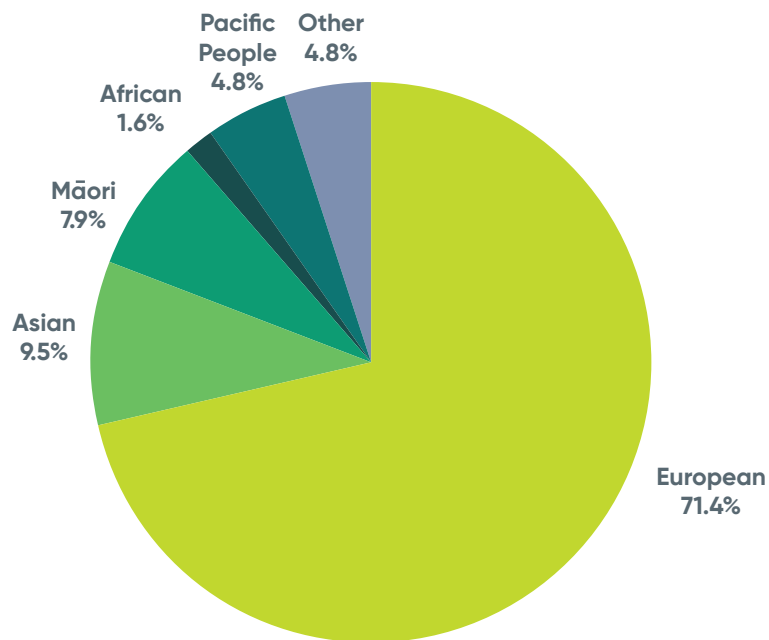


Table 4: Organs and Tissues Donated by Deceased Donors and Transplanted

	2018	2019	2020	2021	2022
Kidneys	94	133	103	108	110
Hearts	19	17	13	14	16
Lungs	28	26	24	26	16
Livers	44	52	42	49	45
Pancreas	6	4	3	6	5
Eye tissue	26	29	39	41	31
Heart valve tissue	7	15	13	15	14
Skin	0	1	8	5	0

Table 5: Organs from New Zealand Deceased Donors Transplanted in Australia

In 2022 some organs from New Zealand donors were transplanted to Australian recipients and vice versa, in accordance with the Transplantation Society of Australia and New Zealand (TSANZ) Clinical Guidelines for Organ Transplantation from Deceased Donors, Version 1.8 – December 2021. These guidelines are available on the TSANZ website www.tsanz.com.au

	2018	2019	2020	2021	2022
Liver	6 [1]	6	5 [1]	4 [2]	2 [1]
Heart	0	0	0	0	2
Lungs	0	0	2	4	0
Kidney	0	0	0	0	0

[] Split livers

Table 6: Organs from Australian Deceased Donors Transplanted in New Zealand

	2018	2019	2020	2021	2022
Liver	3	4	7	3	6 [2]
Heart	1	0	0	0	1
Lungs	0	0	0	0	0
Kidney	0	0	0	0	0

[] Split livers

Table 7: Summary Data from ICU Donation Audit Database

	2018	2019	2020	2021	2022
All deaths in ICU	1329	1362	1189	1215	1398
Deaths ventilated in ICU with severe brain damage	480	471	417	421	457
Possibly brain dead ¹	201	182	185	188	202
Possibly brain dead ¹ and organ donation formally discussed with family by health professionals	132	115	121	117	127
Possibly brain dead ¹ and organ donation formally discussed with family by health professionals and family agreed to donation	63	68	63	63	56
Possibly brain dead ¹ and tested	100	101	97	100	104
Possibly brain dead ¹ and tested and determined to be brain dead	99	100	95	98	96
Potential donation after withdrawal of therapy (WOT) ²	228	216	194	194	227
WOT ² in a DCD accredited hospital ³	169	153	154	152	175
WOT ² in a DCD accredited hospital ³ formally discussed with family by health professionals	37	49	47	49	66
WOT ² in a DCD accredited hospital ³ formally discussed with family by health professionals and family agreed to donation	14	16	9	17	16

1. Possibly brain dead: Fixed dilated pupils and no apparent brain reflexes just prior to death.

2. Possible donation after Withdrawal of Therapy (WOT): Aged 70 or less and had treatment withdrawn and died in ICU 90 minutes later or less.

3. DCD accredited hospitals: North Shore, Auckland City (DDCM), Starship Children's, Middlemore, Waikato, Rotorua, Hawke's Bay, Wellington, Nelson, Christchurch and Dunedin.

Table 8: Summary Data from ODNZ Donor Database

	2018	2019	2020	2021	2022
Telephone discussions about potential organ donation	230	246	226	203	225
DBD donors	54	61	56	60	53
DCD donors	8	13	8	6	10
Total donors	62	74	64	66	63

The number of referrals to ODNZ includes some who do not appear in the ICU donation audit because, for example, they might have died without ever having been admitted to ICU, or might not have died in ICU.

ORGAN TRANSPLANTATION IN NEW ZEALAND

Organ transplantation in New Zealand includes:

- **Kidney transplantation (deceased-donor and live-donor)**
Auckland City, Starship Children's, Wellington and Christchurch Hospitals
- **Liver transplantation (deceased-donor and live-donor)**
Auckland City and Starship Children's Hospitals
- **Heart transplantation**
Auckland City and Starship Children's Hospitals
- **Lung transplantation**
Auckland City and Starship Children's Hospitals
- **Pancreas transplantation**
Auckland City Hospital

Data in Tables 9-11 includes all transplants performed in New Zealand (including organs from Australian deceased donors). See Tables 5 and 6 for details of Trans-Tasman organ sharing.

Table 9: Kidney Transplantation by Year and Donor Type

	2018	2019	2020	2021	2022
Recipients, deceased-donor, single kidney	97	127	97	96	100
Recipients, deceased-donor, double kidney	1	3	3	6	5
Live-donor	84	91	87	85	70
Total number of recipients	182	221	187	187	175

Table 10: Heart and Lung Transplantation by Year

	2018	2019	2020	2021	2022
Heart	20	17	13	14	16
Lung	28	26 [1]	22 [4]	26 [2]	16 [1]

[1] Single lung transplant

Table 11: Liver Transplantation by Year and Donor

	2018	2019	2020	2021	2022
Adult, deceased donor	41	48	41	45	44
Adult, live adult donor	0	1	0	0	1
Child, deceased donor	6	6	10	6	9
Child, live adult donor	2	3	3	2	0
Total	49	58	54	53	54

Table 12: Pancreas Transplantation by Year

	2018	2019	2020	2021	2022
Pancreas	6	4	3	6	5

Table 13: Multiple Organ Transplants by Year

This table does not include the number of recipients of two kidneys or two lungs.

	2018	2019	2020	2021	2022
Kidney and pancreas	6	4	2	5	4
Liver and kidney	2	0	0	2	1
Liver and pancreas	0	0	1	1	1
Heart and liver	1	0	0	0	0
Total number of multiple transplants	9	4	3	8	6

THE PRECIOUS GIFT OF TIME

A whole new perspective on life

"Wearing an oxygen tank made high school hard work. Now I'm free to plan my future."

A childhood of multiple doctors' appointments and a Starship visit affected me socially. In hospital I was always surrounded by great nurses and carers, much preferring to talk with older people than my peers. I simply did not have the same life experience as others my age, and that led to me developing high social animosity towards them.

Growing up wearing an oxygen tank didn't help. I was bullied a lot at school and out in public. High school students and even some teachers saw it as an easy shot. If only they knew that the oxygen tank was there to keep my lungs alive until I was able to move freely and start weaning off it.

Thankfully, during my high school years I did form a close relationship with my teaching aide. I saw her as my second mother who guided and supported me even when things got tough. She has always had my back, and I remain in contact with her to this day.

Years later, during my first appointment with the Auckland Transplant Team, it became clear I was not ready mentally and physically to go on the transplant list, so I decided not to go forward with it at that stage.

On a future hospital appointment, it became apparent I was not going to get better but rather worse over time, with a serious decline showing up during this admission. The doctor, myself, and my partner had to have a serious talk about what the next step was going to be for end-of-life care and resuscitation. The time had come to prepare for a transplant.

After waiting six months, I got the call at 9.30pm but my phone was flat. Suddenly there were doctors and nurses gathering outside my bedroom. A doctor told me we were flying to Auckland at 11.30pm to be prepared for my long-awaited donor lungs.

Heading into surgery, I was happy, nervous, and sad. I knew someone had to die to give me this gift of life. This totally changed my perspective on life, both mentally and physically.

Yes, there were a lot of complications in the first two years living with my new lungs. But now I can look at planning a future for myself and my partner, getting married and possibly having kids. Now I can think about getting a job, and even participating in marathons.

I will forever be grateful for the gift from my donor, and for the support of my partner.

Atiraira Watene



TISSUE ONLY DONATION

Table 14: Deceased Tissue-Only Donation Facilitated by ODNZ

In 2022 there were 58 deceased tissue-only donors facilitated by ODNZ. Three of the tissue-only donors were Intended Organ Donors where organ donation did not proceed, and tissue donation was facilitated. Tissue donation can include skin, eye and heart valve tissues.

Referred from:	Ward/Unit	Tissue-only Donors
Auckland City Hospital	CVICU	5
Auckland City Hospital	Wards 83, 51, Motutapu	3
Christchurch Hospital	ICU	10
Dunedin Hospital	ICU	2
Middlemore Hospital	ICU	3
Nelson Hospital	ICU	1
North Shore Hospital	ICU	1
Palmerston North Hospital	Ward	1
Taranaki Base Hospital	Ward 4B	1
Tauranga Hospital	ICU	2
Waikato Hospital	ICU	1
Wellington Hospital	ICU	19
Whangārei Hospital	ICU	4
Hospices	Mercy Hospice, Auckland	2
Family		3

The corneal coordinators from the New Zealand National Eye Bank facilitate eye-only donation referred from the Bereavement Team at Middlemore Hospital or directly to their service.

The heart transplant team also coordinates heart valve donation from some explanted hearts of heart transplant recipients.

Table 15: Total Deceased Tissue Donation in New Zealand by Year

Number of Donors	2018	2019	2020	2021	2022
Skin	3*	8	12**	8	0
Heart Valves	24	32	28	30***	24
Eyes facilitated by ODNZ	97	89	96	88	85
Eyes total ****	145	131	119	110	101

*Skin retrieval not possible from January to July 2018 **Skin retrieval not possible from August to December 2020.

***Heart valve donation was not possible for a seven-week period during 2021.

****Includes Eye tissue facilitated by ODNZ, the Eye Bank, and Middlemore Hospital Bereavement Service.

