



Eye and Tissue Donation in Australia

Monthly Report

January 2023

Preliminary Data

Data collected from Australian Eye and Tissue Banks
This report supersedes any monthly interim summaries previously released for 2023

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1 Acknowledgements

According to the Eye Bank Association of Australia and New Zealand (EBAANZ), since the end of 2011, the number of corneal transplants in Australia each year has exceeded the number of new patients requiring transplants each year. This means the current demand for corneal transplants in Australia is being met and should be noted when comparing 2023 corneal transplantation numbers to previous years published.

2 Counting Methodology

Each eye and tissue bank uses a Minimum Data Set Template (MDS) to provide the Registry de-identified donor information for each tissue type, as well as aggregate data for reporting of notified tissue graft implants and notified tissue graft recipients.

Data received undergoes reconciliation and cross checking between the solid organ sector (ANZOD), the eye sector (participating eye banks) and the tissue sector (participating tissue banks) to ensure accuracy at the time of reporting.

The Registry declares:

- All donations of eye tissue have come from deceased donors.
- Eye donors include those who have donated 2 whole eyes, 2 corneas or one whole eye or one cornea.
- Eye and Tissue Graft Implants and Transplant Recipient data includes transplant events that have occurred in a different jurisdiction to where the tissue was donated.
- Graft Implants and Transplant Recipient data may or may not be a direct outcome of tissue donations reported for the month, as tissue can be stored for a period of time before the graft is implanted.
- Outcome data does not capture tissue that has been supplied for implant but not yet notified as implanted to the distributing tissue bank.
- This report supersedes previous monthly reports and as data reported is subject to revision it may change in subsequent reporting.

3 Eye and Tissue Donors

3.1 Unique Tissue Donors

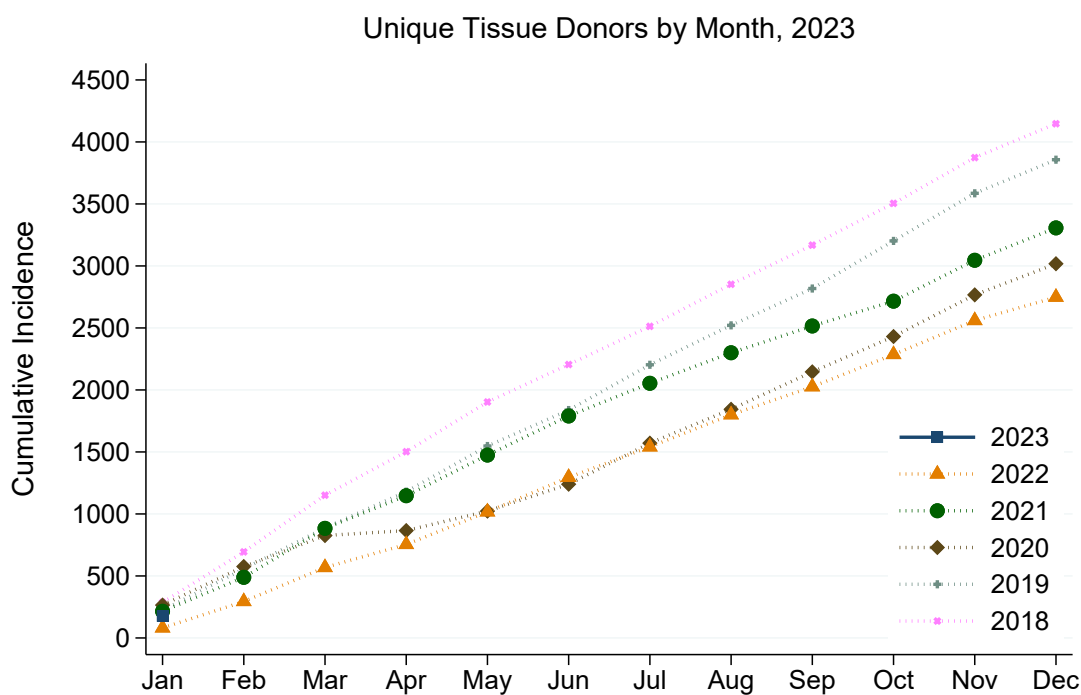


Figure 1: Unique Tissue Donors by Month, 2023

Eye and Tissue Donation Registry

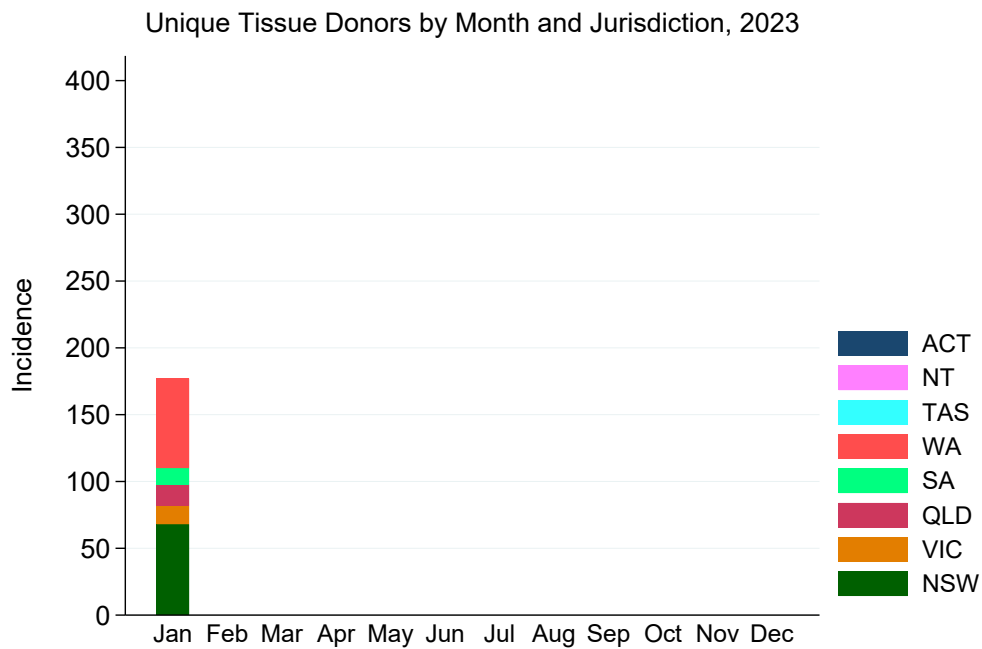


Figure 2: Unique Tissue Donors by Month and Jurisdiction, 2023

Table 1: Unique Tissue Donors by Jurisdiction of Retrieval and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	68												68
VIC	14												14
QLD	16												16
SA	12												12
WA	67												67
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	177												177

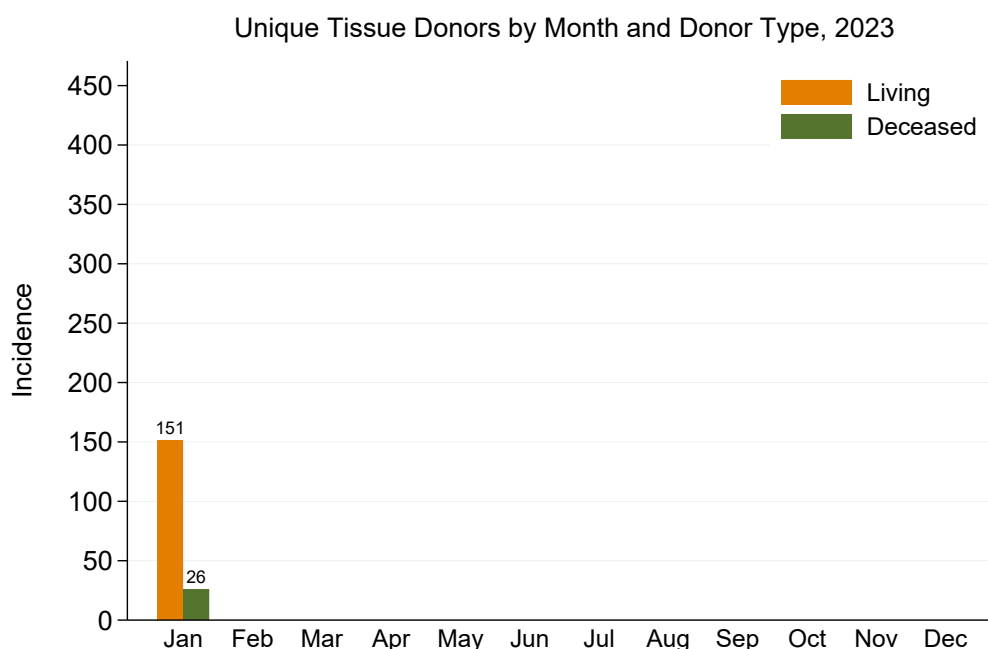


Figure 3: Unique Tissue Donors by Month and Donor Type, 2023

Table 2: Unique Living Tissue Donors by Jurisdiction of Retrieval and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	61												61
VIC	5												5
QLD	9												9
SA	10												10
WA	66												66
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	151												151

Table 3: Unique Deceased Tissue Donors by Jurisdiction of Retrieval and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	7												7
VIC	9												9
QLD	7												7
SA	2												2
WA	1												1
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	26												26

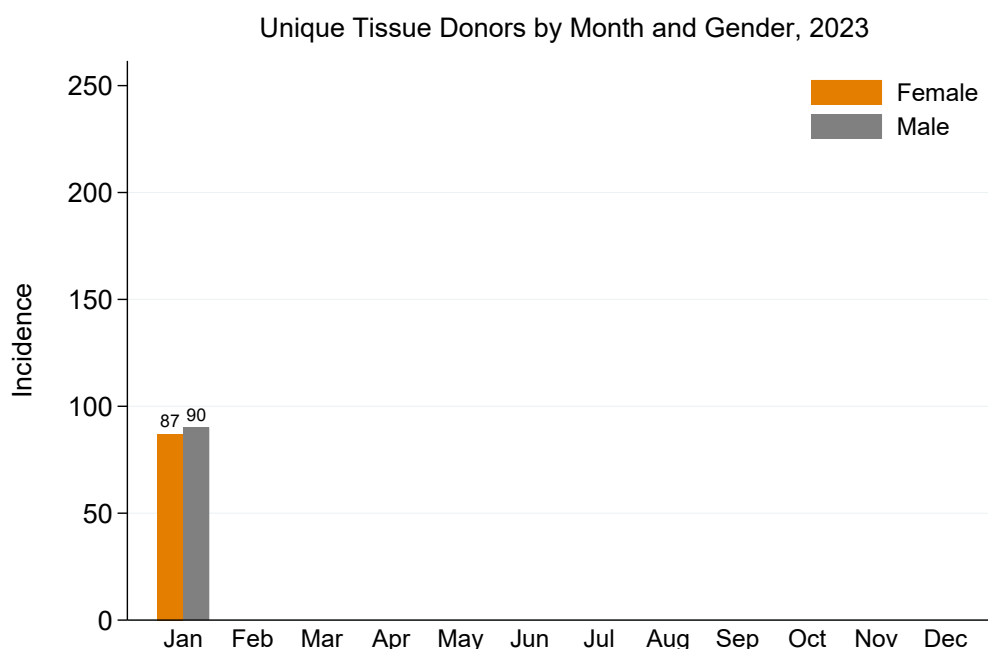


Figure 4: Unique Tissue Donors by Month and Gender, 2023

Table 4: Unique Female Tissue Donors by Jurisdiction of Retrieval and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	38												38
VIC	6												6
QLD	2												2
SA	7												7
WA	34												34
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	87												87

Table 5: Unique Male Tissue Donors by Jurisdiction of Retrieval and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	30												30
VIC	8												8
QLD	14												14
SA	5												5
WA	33												33
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	90												90

Eye and Tissue Donation Registry

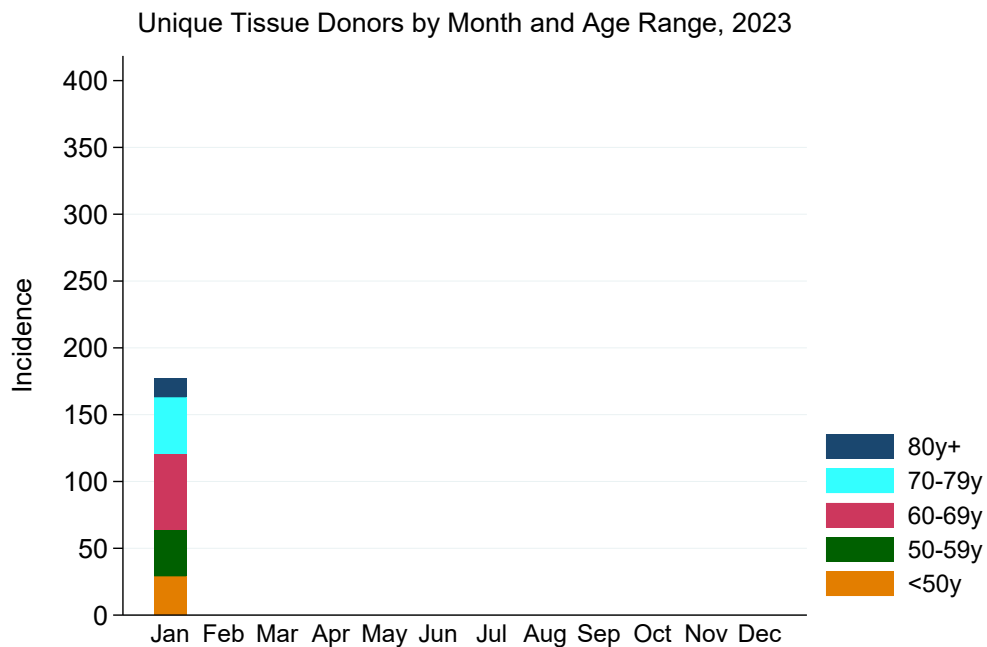


Figure 5: Unique Tissue Donors by Month and Age Range, 2023

Table 6: Unique Tissue Donors by Jurisdiction of Retrieval and Age Range, 2023

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	16	10	17	19	6	68
VIC	3	4	4	3	0	14
QLD	2	5	7	2	0	16
SA	1	3	3	4	1	12
WA	7	13	26	14	7	67
TAS	0	0	0	0	0	0
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	29	35	57	42	14	177

Eye and Tissue Donation Registry

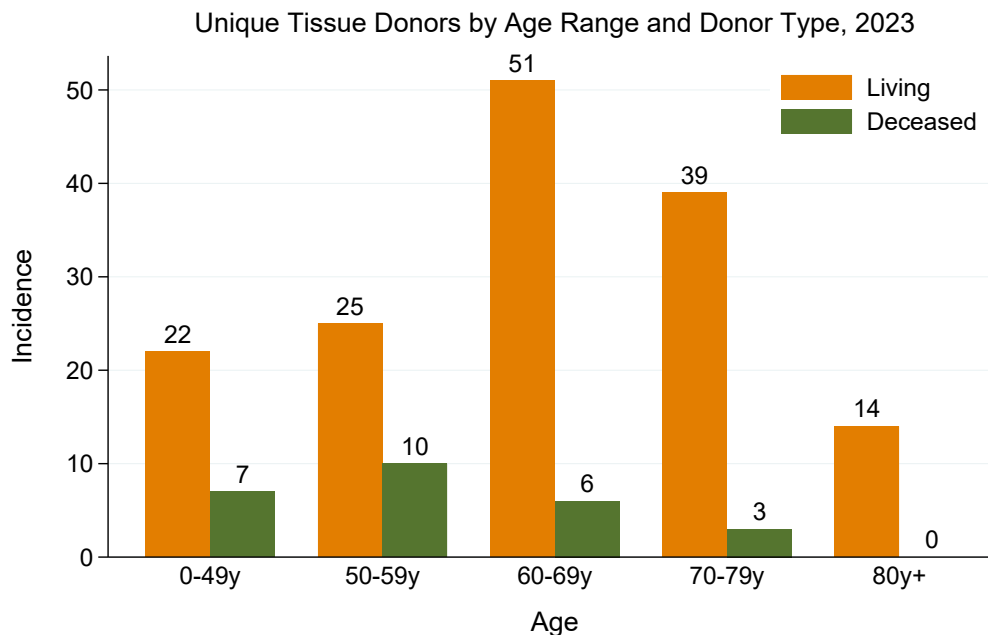


Figure 6: Unique Tissue Donors by Age Range and Donor Type, 2023

Table 7: Unique Living Tissue Donors by Jurisdiction of Retrieval and Age Range, 2023

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	14	7	15	19	6	61
VIC	1	0	2	2	0	5
QLD	0	3	6	0	0	9
SA	1	2	2	4	1	10
WA	6	13	26	14	7	66
TAS	0	0	0	0	0	0
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	22	25	51	39	14	151

Table 8: Unique Deceased Tissue Donors by Jurisdiction of Retrieval and Age Range, 2023

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	2	3	2	0	0	7
VIC	2	4	2	1	0	9
QLD	2	2	1	2	0	7
SA	0	1	1	0	0	2
WA	1	0	0	0	0	1
TAS	0	0	0	0	0	0
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	7	10	6	3	0	26

Eye and Tissue Donation Registry

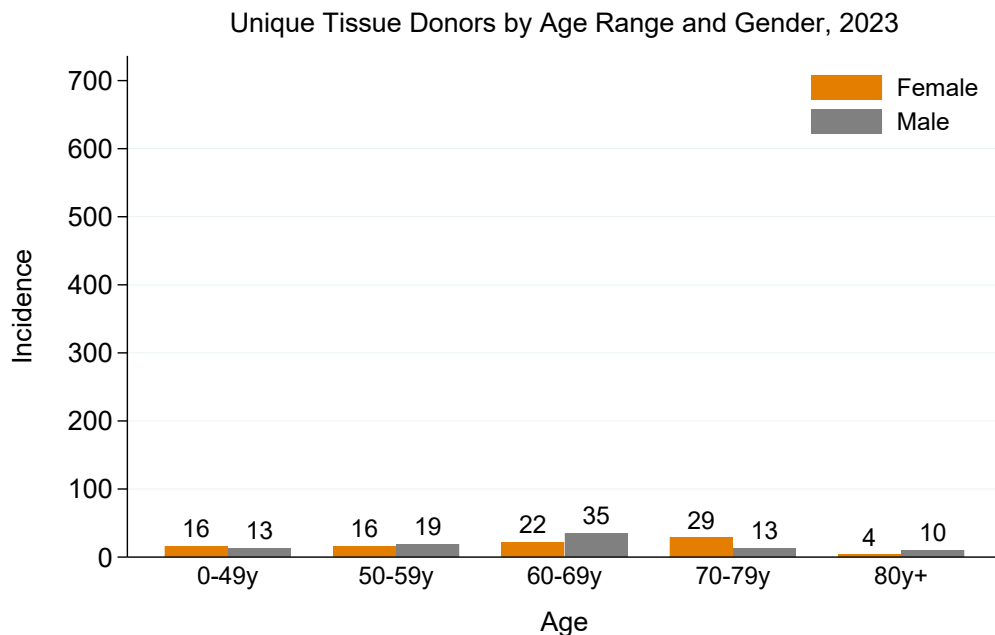


Figure 7: Unique Tissue Donors by Age Range and Gender, 2023

Table 9: Unique Female Tissue Donors by Jurisdiction of Retrieval and Age Range, 2023

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	9	5	7	16	1	38
VIC	1	2	2	1	0	6
QLD	0	0	2	0	0	2
SA	1	2	1	3	0	7
WA	5	7	10	9	3	34
TAS	0	0	0	0	0	0
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	16	16	22	29	4	87

Table 10: Unique Male Tissue Donors by Jurisdiction of Retrieval and Age Range, 2023

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	7	5	10	3	5	30
VIC	2	2	2	2	0	8
QLD	2	5	5	2	0	14
SA	0	1	2	1	1	5
WA	2	6	16	5	4	33
TAS	0	0	0	0	0	0
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	13	19	35	13	10	90

Eye and Tissue Donation Registry

3.2 Eye Donors

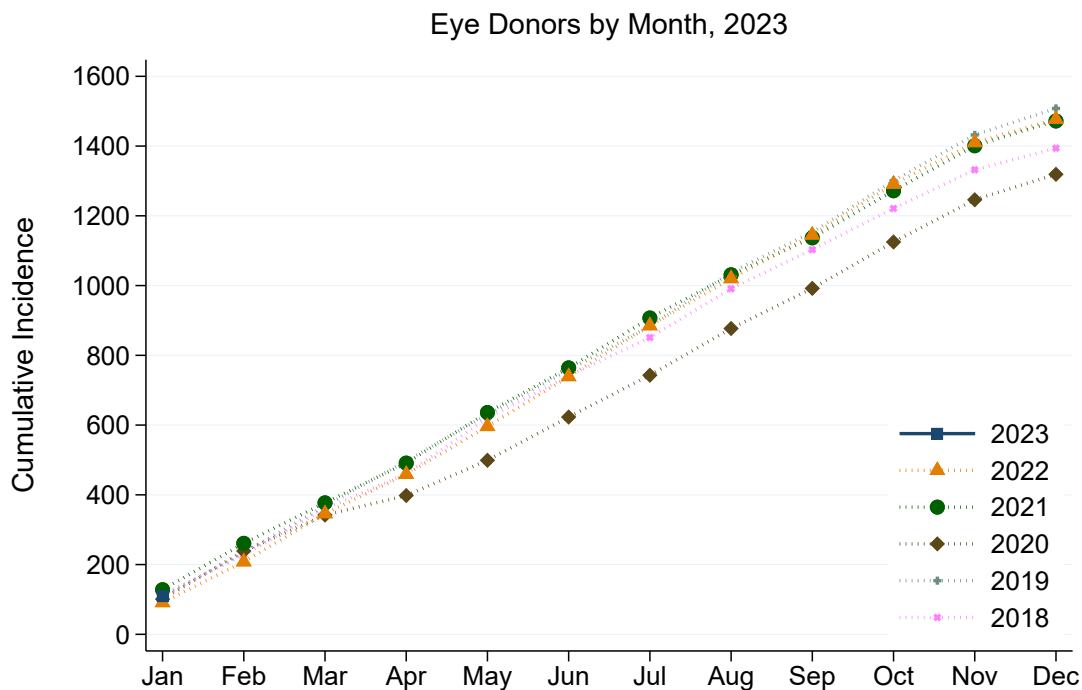


Figure 8: Eye Donors by Month, 2023

Note: The total number of eye donors for January 2020 has increased by 1 due to revision of data provided to the Eye and Tissue Donation Registry.

Eye and Tissue Donation Registry

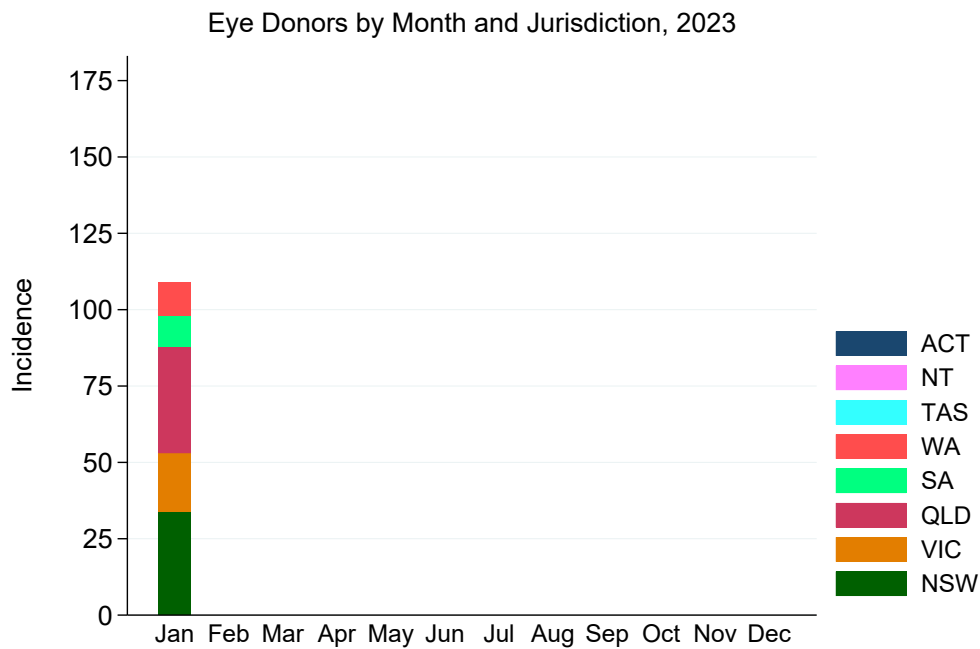


Figure 9: Eye Donors by Month and Jurisdiction, 2023

Table 11: Eye Donors by Jurisdiction of Retrieval and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	34												34
VIC	19												19
QLD	35												35
SA	10												10
WA	11												11
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	109												109

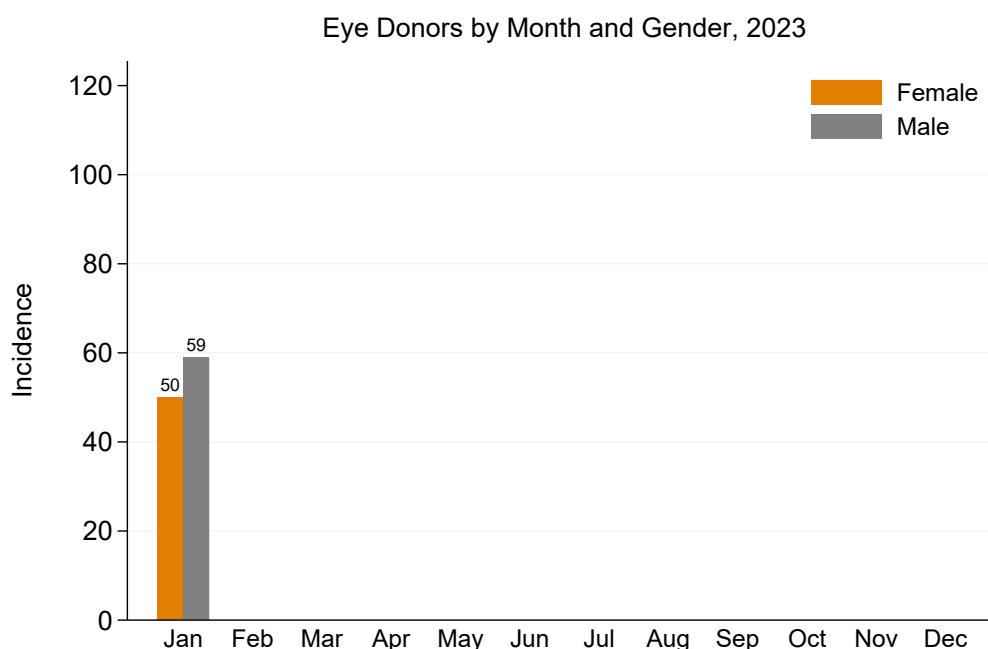


Figure 10: Eye Donors by Month and Gender, 2023

Table 12: Female Eye Donors by Jurisdiction of Retrieval and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	16												16
VIC	10												10
QLD	14												14
SA	6												6
WA	4												4
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	50												50

Table 13: Male Eye Donors by Jurisdiction of Retrieval and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	18												18
VIC	9												9
QLD	21												21
SA	4												4
WA	7												7
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	59												59

Eye and Tissue Donation Registry

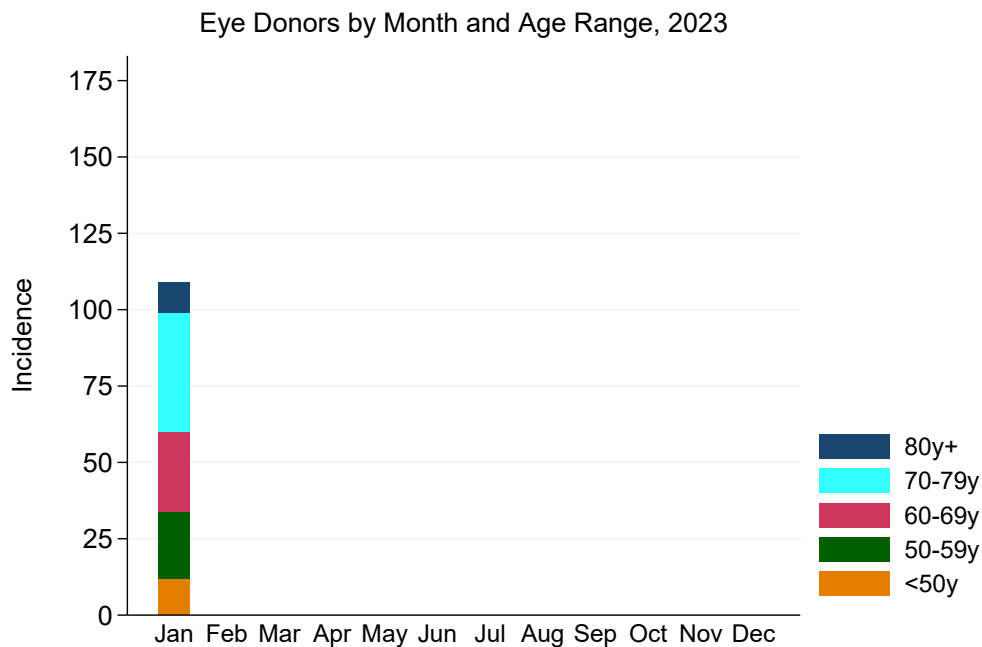


Figure 11: Eye Donors by Month and Age Range, 2023

Table 14: Eye Donors by Jurisdiction of Retrieval and Age Range, 2023

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	0	5	7	14	8	34
VIC	3	5	6	5	0	19
QLD	6	6	7	14	2	35
SA	1	2	5	2	0	10
WA	2	4	1	4	0	11
TAS	0	0	0	0	0	0
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	12	22	26	39	10	109

Eye and Tissue Donation Registry

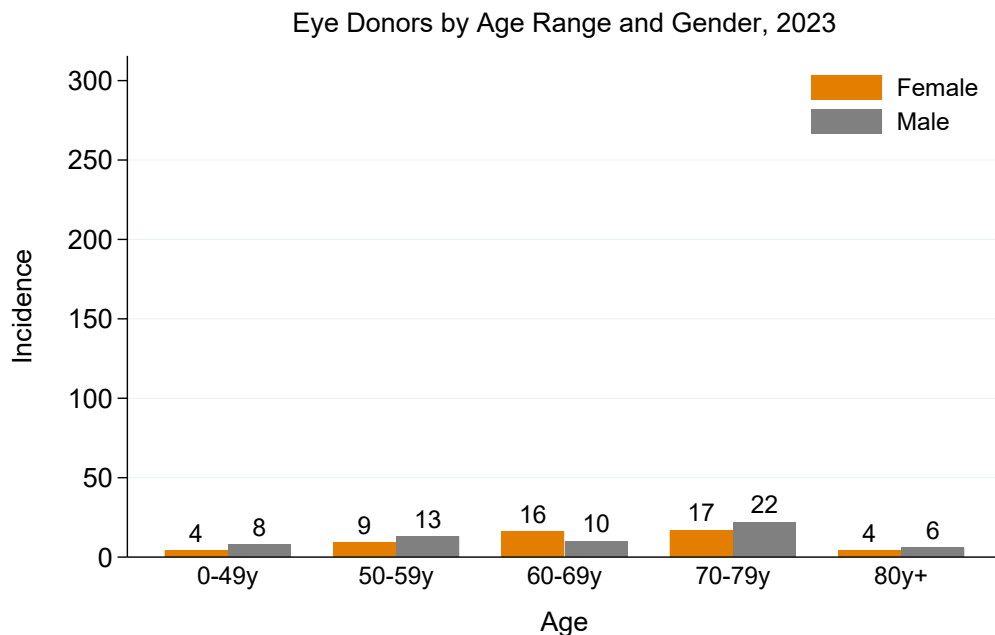


Figure 12: Eye Donors by Age Range and Gender, 2023

Table 15: Female Eye Donors by Jurisdiction of Retrieval and Age Range, 2023

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	0	1	3	8	4	16
VIC	1	3	5	1	0	10
QLD	2	3	5	4	0	14
SA	1	1	3	1	0	6
WA	0	1	0	3	0	4
TAS	0	0	0	0	0	0
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	4	9	16	17	4	50

Table 16: Male Eye Donors by Jurisdiction of Retrieval and Age Range, 2023

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	0	4	4	6	4	18
VIC	2	2	1	4	0	9
QLD	4	3	2	10	2	21
SA	0	1	2	1	0	4
WA	2	3	1	1	0	7
TAS	0	0	0	0	0	0
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	8	13	10	22	6	59

Eye and Tissue Donation Registry

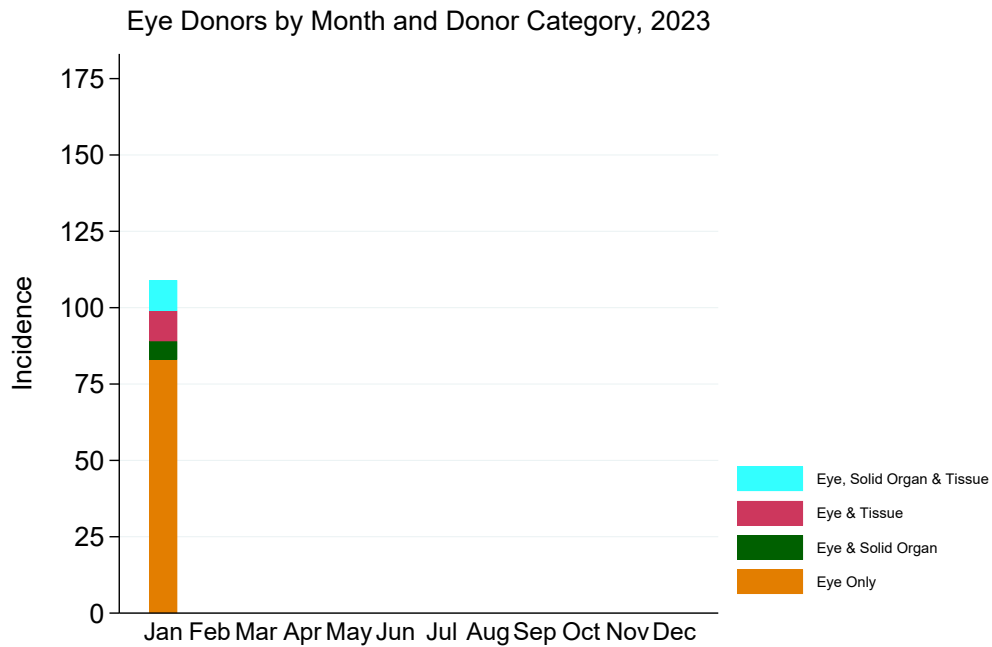


Figure 13: Eye Donors by Month and Donor Category, 2023

Table 17: Eye Donors by Jurisdiction of Retrieval and Donor Category, 2023

	Eye Only	Eye and Solid Organ	Eye and Tissue	Eye, Solid Organ and Tissue
NSW	28	2	2	2
VIC	12	0	4	3
QLD	25	3	4	3
SA	8	1	0	1
WA	10	0	0	1
AUSTRALIA	83	6	10	10

4 Tissue Donations

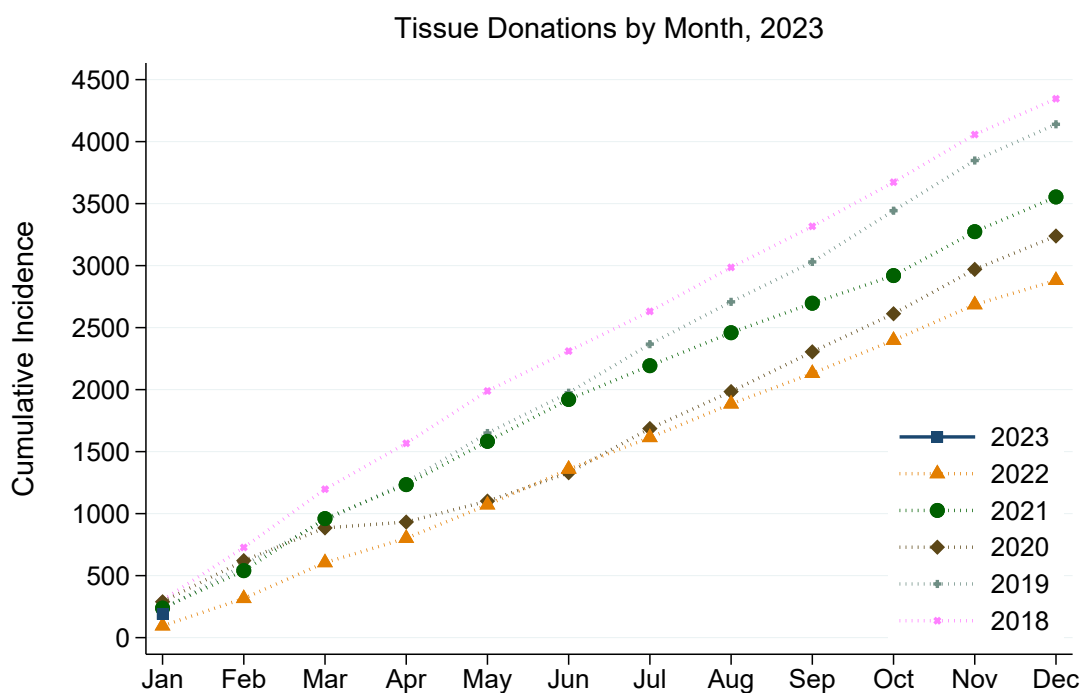


Figure 14: Tissue Donations by Month, 2023

Eye and Tissue Donation Registry

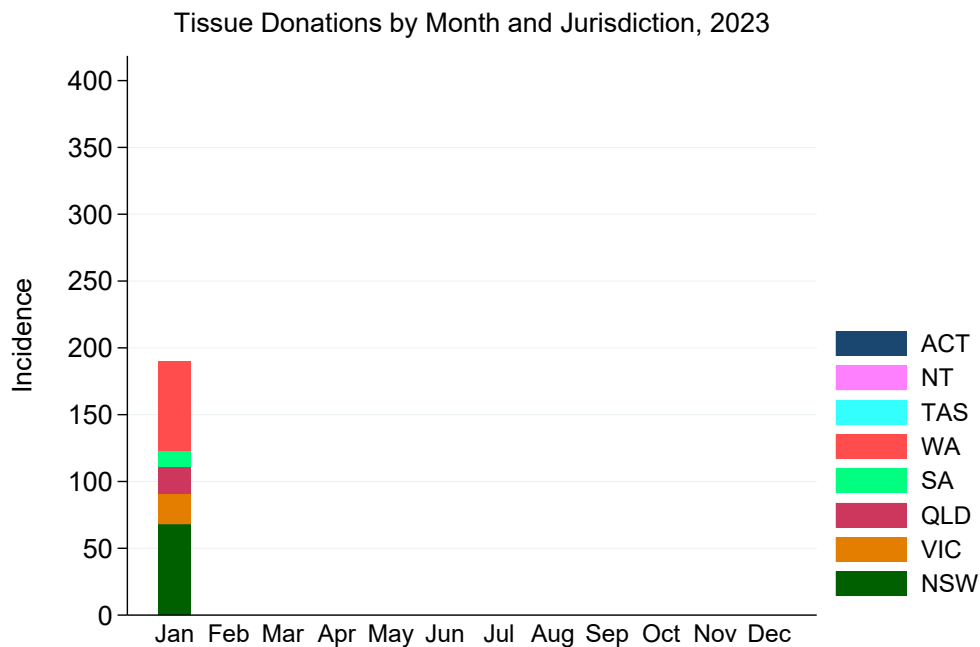


Figure 15: Tissue Donations by Month and Jurisdiction, 2023

Table 18: Tissue Donations by Jurisdiction of Retrieval and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	68												68
VIC	23												23
QLD	20												20
SA	12												12
WA	67												67
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	190												190

Eye and Tissue Donation Registry

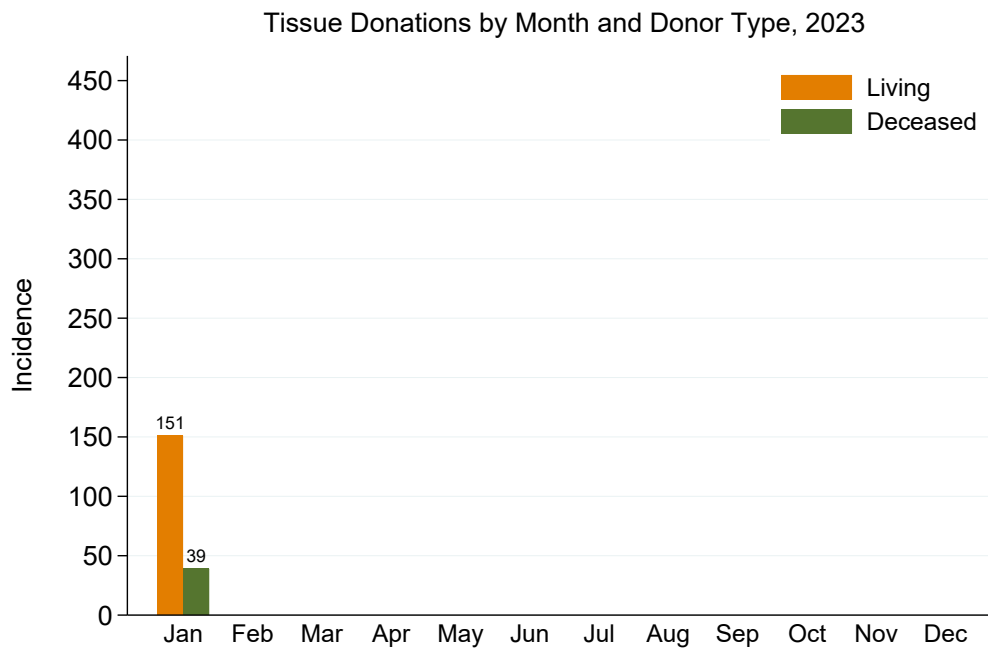


Figure 16: Tissue Donations by Month and Donor Type, 2023

Table 19: Living Tissue Donations by Jurisdiction of Retrieval and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	61												61
VIC	5												5
QLD	9												9
SA	10												10
WA	66												66
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	151												151

Eye and Tissue Donation Registry

Table 20: Living Tissue Donations by Jurisdiction of Retrieval and Tissue Type, 2023

	Amnion	Cardiovascular	Musculoskeletal
NSW	3	1	57
VIC	0	1	4
QLD	0	0	9
SA	0	0	10
WA	0	0	66
TAS	0	0	0
NT	0	0	0
ACT	0	0	0
AUSTRALIA	3	2	146

Table 21: Deceased Tissue Donations by Jurisdiction of Retrieval and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	7												7
VIC	18												18
QLD	11												11
SA	2												2
WA	1												1
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	39												39

Table 22: Deceased Tissue Donations by Jurisdiction of Retrieval and Donor Category, 2023

	Solid Organ/Tissue				Tissue Only				Total			
	cv	ms	skin	pi	cv	ms	skin	pi	cv	ms	skin	pi
NSW	5	0	0	0	0	2	0	0	5	2	0	0
VIC	2	2	3	0	2	4	5	0	4	6	8	0
QLD	1	2	1	0	0	4	3	0	1	6	4	0
SA	2	0	0	0	0	0	0	0	2	0	0	0
WA	0	0	0	1	0	0	0	0	0	0	0	1
TAS	0	0	0	0	0	0	0	0	0	0	0	0
NT	0	0	0	0	0	0	0	0	0	0	0	0
ACT	0	0	0	0	0	0	0	0	0	0	0	0
AUSTRALIA	10	4	4	1	2	10	8	0	12	14	12	1

Eye and Tissue Donation Registry

Table 23: Intended Solid Organ Donor Who Became Eyes and Tissue Donors, 2023

	Eye Only	Tissue Only	Eye and Tissue
NSW	0	0	0
VIC	1	1	1
QLD	0	0	0
SA	0	0	0
WA	0	0	0
TAS	0	0	0
NT	0	0	0
ACT	0	0	0
AUSTRALIA	1	1	1

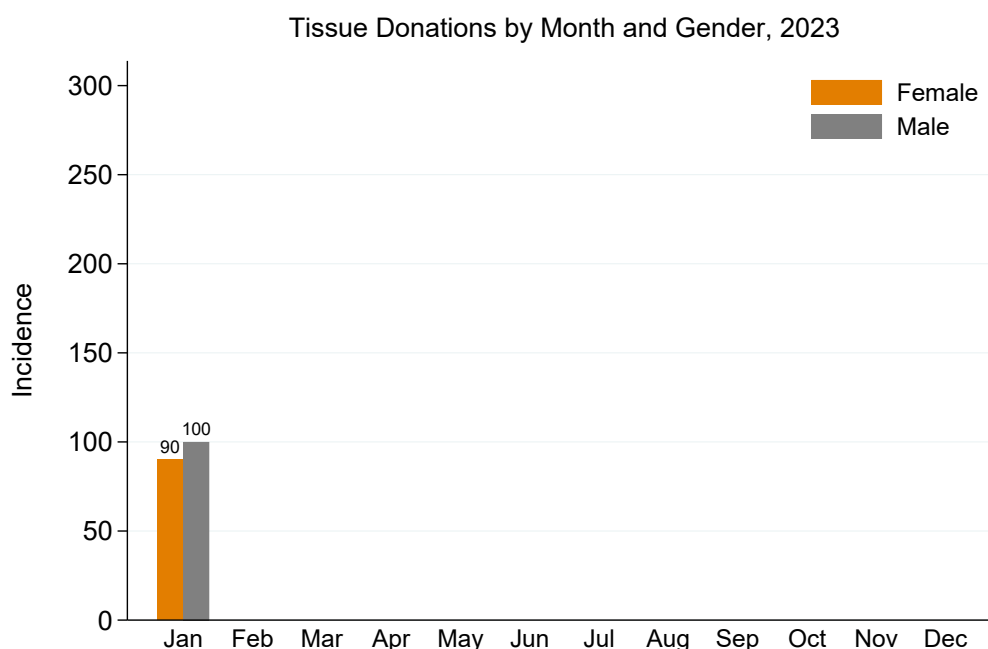


Figure 17: Tissue Donations by Month and Gender, 2023

Table 24: Female Tissue Donations by Jurisdiction of Retrieval and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	38												38
VIC	9												9
QLD	2												2
SA	7												7
WA	34												34
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	90												90

Table 25: Male Tissue Donations by Jurisdiction of Retrieval and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	30												30
VIC	14												14
QLD	18												18
SA	5												5
WA	33												33
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	100												100

5 Notified Tissue Grafts Implanted

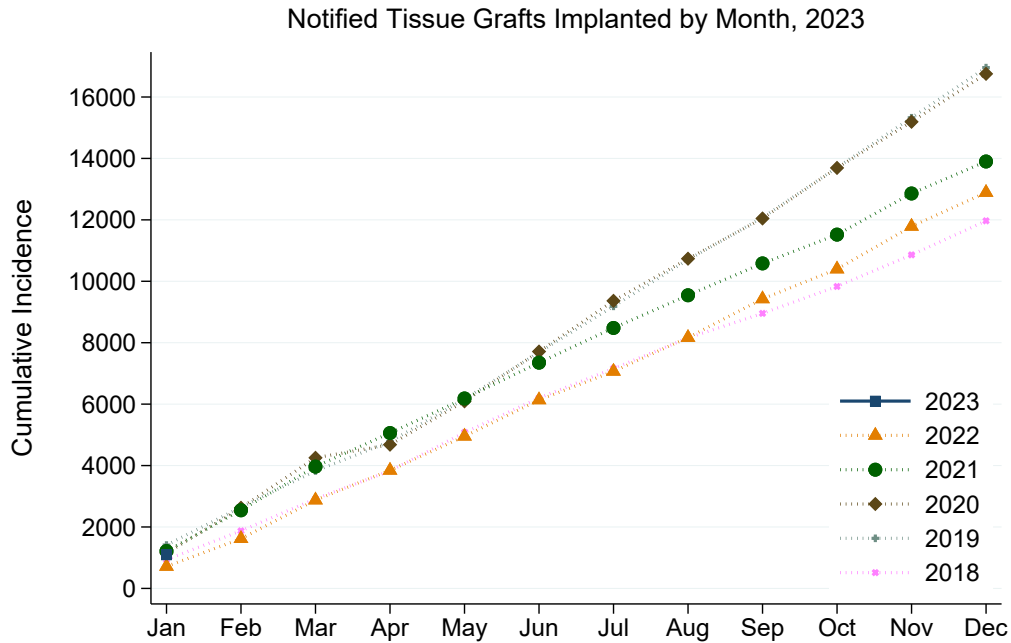


Figure 18: Notified Tissue Grafts Implanted by Month, 2023

Table 26: Notified Tissue Grafts Implanted by Jurisdiction of Retrieving Bank and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	516												516
VIC	356												356
QLD	124												124
SA	6												6
WA	92												92
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	1094												1094

Eye and Tissue Donation Registry

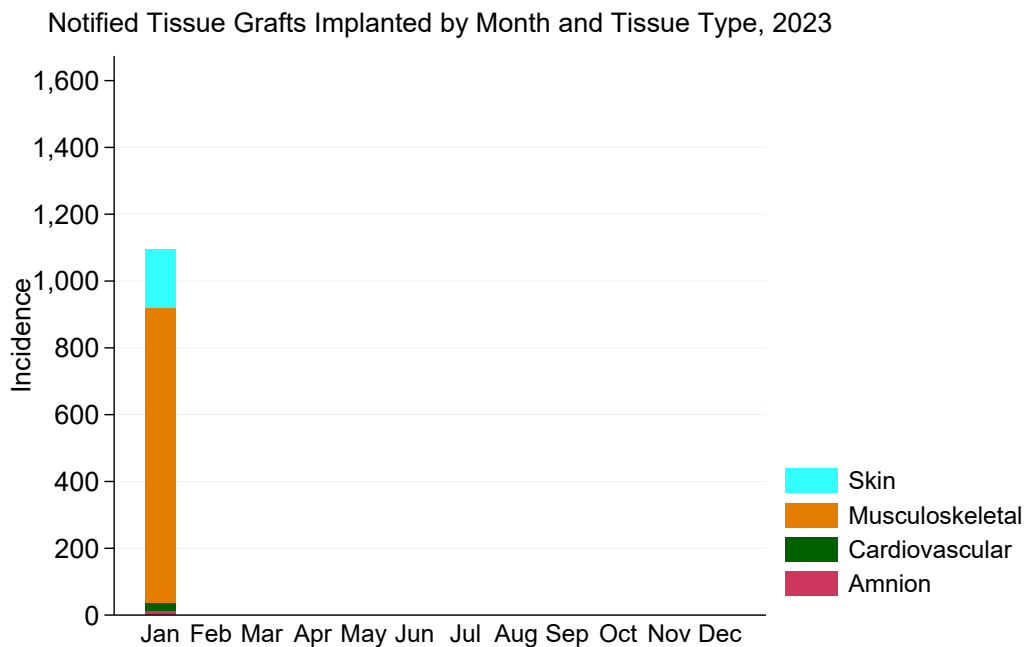


Figure 19: Notified Tissue Grafts Implanted by Month and Tissue Type, 2023

Table 27: Notified Tissue Grafts Implanted by Jurisdiction of Retrieving Bank and Tissue Type, 2023

	Amnion	Cardiovascular	Musculoskeletal	Skin
NSW	15	21	480	0
VIC	0	0	182	174
QLD	0	0	124	0
SA	0	0	6	0
WA	0	0	92	0
AUSTRALIA	15	21	884	174

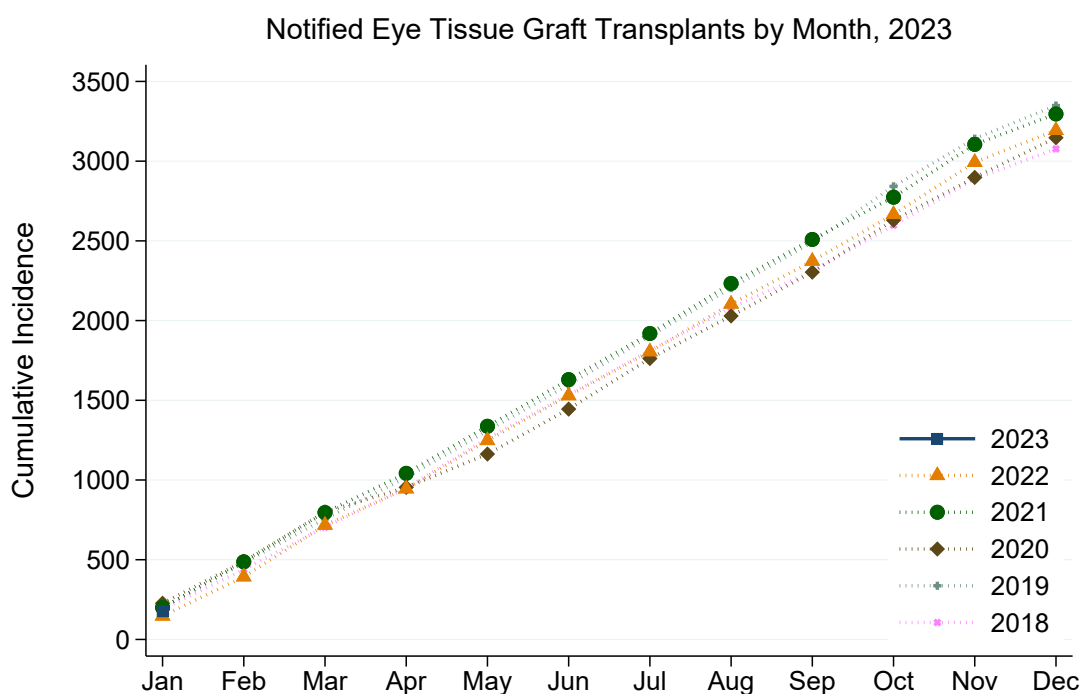


Figure 20: Notified Eye Tissue Graft Transplants by Month, 2023

Table 28: Notified Eye Tissue Graft Transplants by Jurisdiction of Retrieving Bank and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	43												43
VIC	33												33
QLD	53												53
SA	19												19
WA	21												21
TAS	6												6
NT	0												0
ACT	1												1
AUSTRALIA	176												176

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Table 29: Cornea Graft Transplants by Jurisdiction of Retrieving Bank and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	35												35
VIC	13												13
QLD	42												42
SA	17												17
WA	15												15
TAS	4												4
NT	0												0
ACT	0												0
AUSTRALIA	126												126

Table 30: Sclera Unit Graft Transplants by Jurisdiction of Retrieving Bank and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	8												8
VIC	20												20
QLD	11												11
SA	2												2
WA	6												6
TAS	2												2
NT	0												0
ACT	1												1
AUSTRALIA	50												50

6 Notified Tissue Graft Recipients

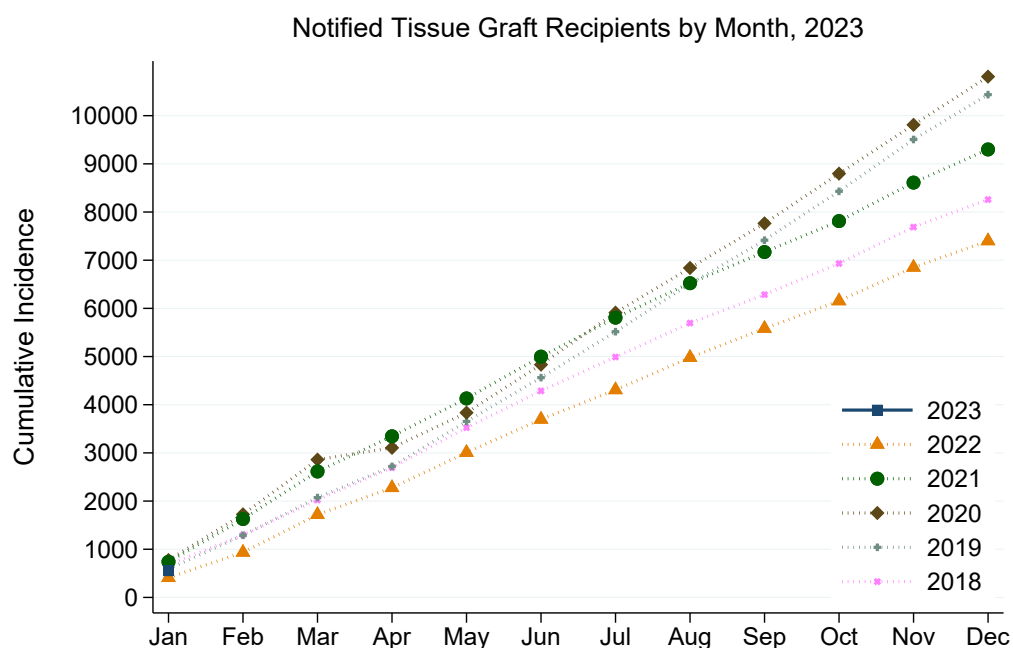


Figure 21: Notified Tissue Graft Recipients by Month, 2023

Table 31: Notified Tissue Graft Recipients by Jurisdiction of Retrieving Bank and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	337												337
VIC	115												115
QLD	56												56
SA	4												4
WA	41												41
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	553												553

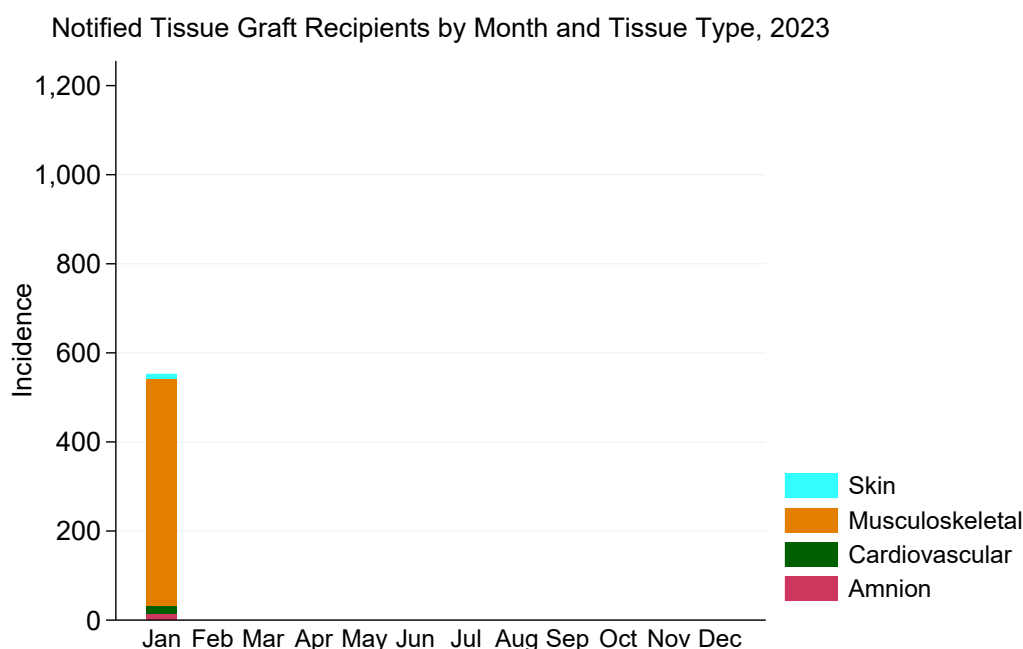


Figure 22: Notified Tissue Graft Recipients by Month and Tissue Type, 2023

Table 32: Notified Tissue Graft Recipients by Jurisdiction of Retrieving Bank and Tissue Type, 2023

	Amnion	Cardiovascular	Musculoskeletal	Skin
NSW	15	18	304	0
VIC	0	0	104	11
QLD	0	0	56	0
SA	0	0	4	0
WA	0	0	41	0
AUSTRALIA	15	18	509	11

Eye and Tissue Donation Registry

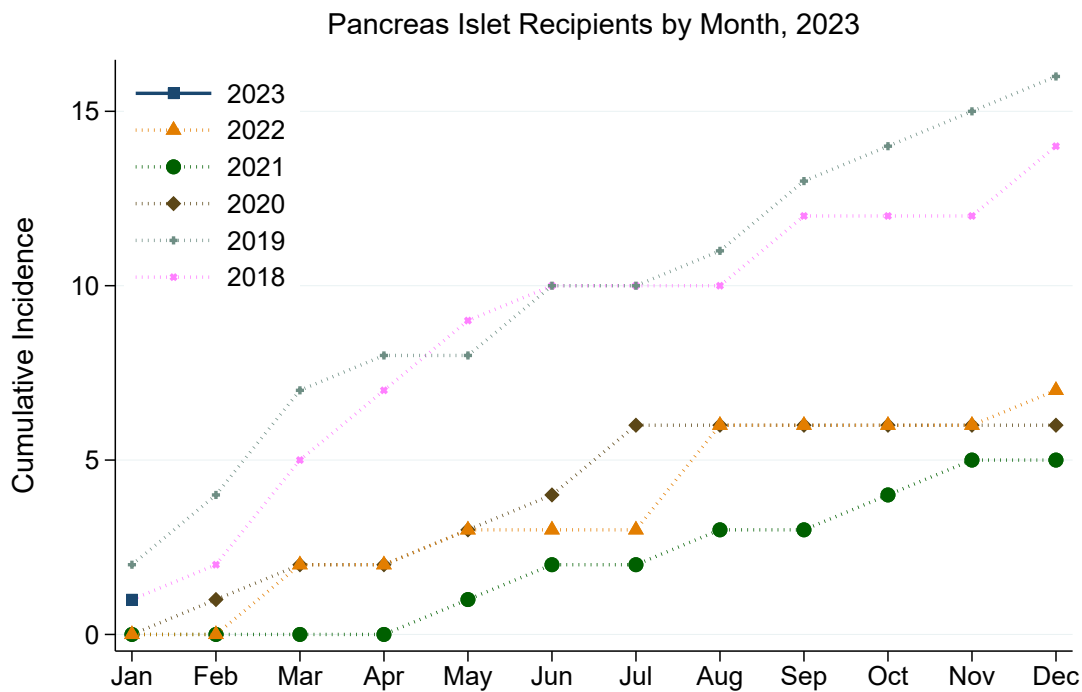


Figure 23: Pancreas Islet Recipients by Month, 2023

Table 33: Pancreas Islet Graft Recipients by Transplant Jurisdiction and Month, 2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	0												0
VIC	1												1
QLD	0												0
SA	0												0
WA	0												0
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	1												1

7 Glossary and Definitions

- 1 *Amnion (am)* – is the innemost layer of the embryonic membranes.
- 2 *Cardiovascular tissue (cv)* – includes, but not limited to, heart valves, pericardium and annexed vessels.
- 3 *Cornea* – The cornea is the transparent anterior tissue of the eyeball consisting of many layers.
- 4 *Deceased solid organ and tissue donation* – identifies a donation event where one or more solid organs and tissues are retrieved from a deceased donor. Data has been crosschecked with the solid organ and tissue sector to ensure the donor has met the deceased solid organ and tissue donation criteria.
- 5 *Deceased tissue donation* – identifies a donation event where one or more tissues are retrieved from a deceased donor and can comprise of musculoskeletal, cardiovascular, skin or eye tissue.
- 6 *Donation event*
 - A single retrieval event, within a calendar day, where a living donor can donate one or more musculoskeletal, cardiovascular, or amnion tissues.
 - Retrieval from deceased donors of solid organ, tissue and/or eyes that may occur on differing days but after the donor declaration of death date.
- 7 *Eye only donor* – A deceased donor where eye only retrieval has taken place. A donor is counted as an eye only donor if 2 whole eyes, 2 corneas only, one eye or one cornea only is retrieved. Outcomes of donated eye tissue are not limited to transplantation.
- 8 *Eye and solid organ (and tissue) donor* – A deceased donor where eye and solid organ retrieval has taken place. These donors may or may not have donated an additional tissue(s) e.g. musculoskeletal, cardiovascular or skin. Data has been crosschecked with the solid organ and tissue sector to confirm the donation event and donor classification.
- 9 *Eye and tissue only donor* – A deceased donor where eye and an additional tissue(s) e.g. musculoskeletal, cardiovascular or skin has taken place. Data has been crosschecked with the tissue sector to confirm the donation event and donor classification.
- 10 *Eye tissue donation* – Unless otherwise specified all donors undergo retrieval of both whole eyes or both corneas. This means the number of eye tissue donations can be calculated by doubling the amount of total eye donors.
- 11 *Eye tissue graft transplants* – Corneal or scleral tissue transplanted into an eye tissue recipient within the reporting time period.
- 12 *Eye tissue recipient* – Unless otherwise specified the number of eye tissue recipients is equal to the number of eye tissue graft transplants (consistent with EBAANZ).
- 13 *Living tissue donation* – identifies a donation event where one or more tissues are retrieved from a living donor. Living tissue can be amnion, cardiovascular, but is vastly comprised of donated femoral heads (bone) retrieved during hip replacement surgery. A living musculoskeletal donor can donate one femoral head during one donation event, two femoral heads during one donation event or one femoral head during two separate donation events.
- 14 *Musculoskeletal tissue (ms)* – includes, but not limited to, bone, cartilage and tendon retrieved from areas such as the pelvis, arm and leg.

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- 15 *Notified tissue graft implants* – Number of tissue grafts supplied and confirmed by the hospital to the distributing tissue bank to have been implanted. One tissue graft recipient may receive multiple graft implants.
- 16 *Notified tissue graft recipients* – The number of tissue graft recipients, confirmed by the hospital to the distributing bank, who receive one or more graft implants during a single tissue transplant event.
- 17 *Pancreas islet (pi)* – A multicellular structure within the pancreas that maintains normal blood glucose level within the body.
- 18 *Sclera unit* – A unit of the protective outer layer of the eyeball, used for transplantation during ocular surgery.
- 19 *Skin tissue (sk)* – includes, but not limited to, split thickness skin (epidermis and upper part of the dermis), of varying size.
- 20 *Tissue transplant event*
 - A single tissue transplant event occurs when a tissue graft recipient receives 1 or more tissue grafts on a single occasion. This will be counted as one tissue graft recipient, one tissue transplant event.
 - If a tissue graft recipient receives 1 or more tissue grafts during multiple tissue transplant events, this will be counted as one tissue graft recipient *for each tissue transplant event*.
- 21 *Unique donor* – A deceased or living donor who donates one or more tissue(s) during a single donation event.

8 Contributors

NSW:

- Australian Tissue Donation Network
- Hunter New England Bone Bank
- Lions NSW Eye Bank
- NSW Bone Bank
- Rachel Forster Bone Bank
- Sydney Heart Valve Bank

VIC:

- Barwon Health Bone Bank
- Donor Tissue Bank of Victoria
- Lions Eye Donation Service

QLD:

- QLD Tissue Bank

SA:

- Eye Bank of SA
- SA Tissue Bank

WA:

- Lions Eye Bank WA
- PlusLife (Perth Bone and Tissue Bank)

ACT:

- DonateLife ACT

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