



Eye and Tissue Donation in Australia

Monthly Report

February 2020

Preliminary Data

Data collected from Australian Eye and Tissue Banks
This report supersedes any monthly interim summaries previously released for 2020

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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 2020 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.

3 Eye and Tissue Donors

3.1 Unique Tissue Donors

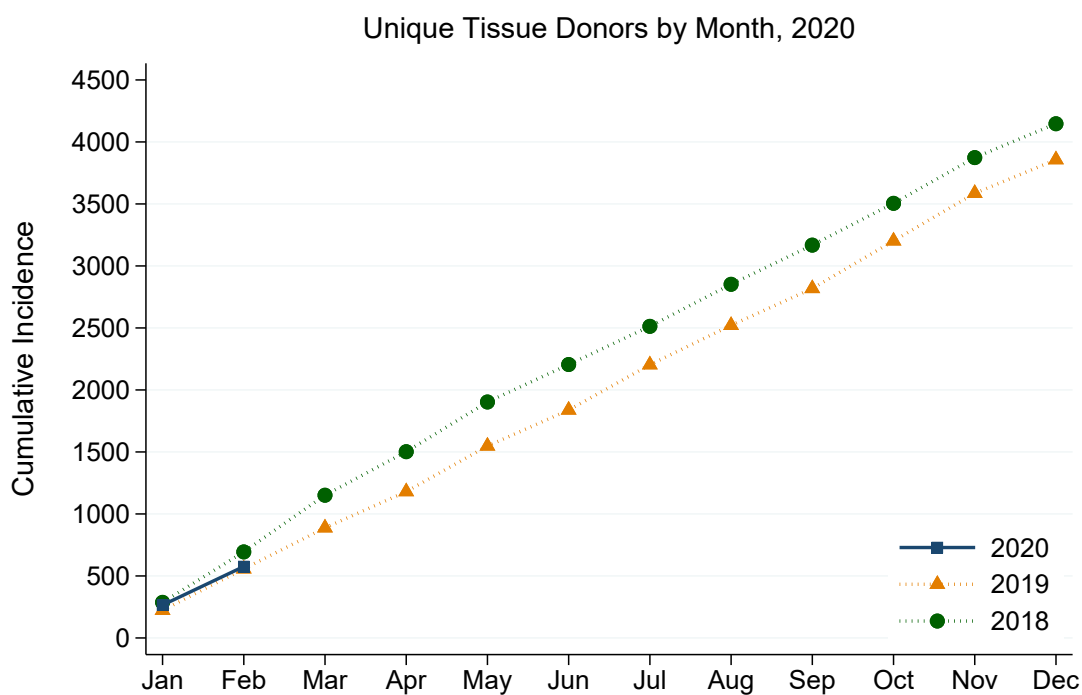


Figure 1: Unique Tissue Donors by Month, 2020

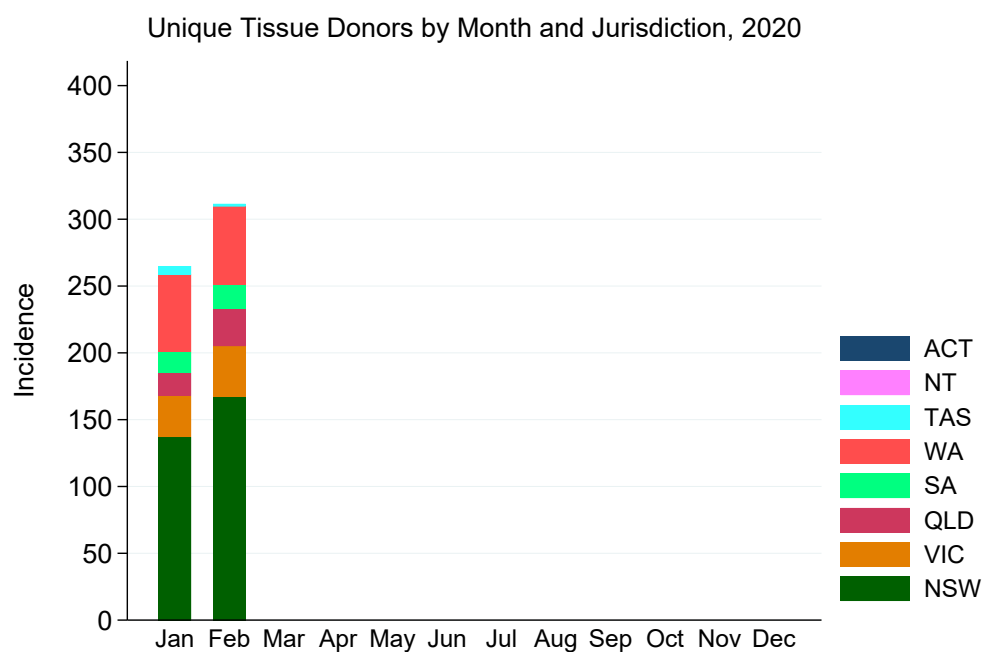


Figure 2: Unique Tissue Donors by Month and Jurisdiction, 2020

Table 1: Unique Tissue Donors by Jurisdiction of Retrieval and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	137	167											304
VIC	31	38											69
QLD	17	28											45
SA	16	18											34
WA	58	59											117
TAS	6	1											7
NT	0	0											0
ACT	0	0											0
AUSTRALIA	265	311											576

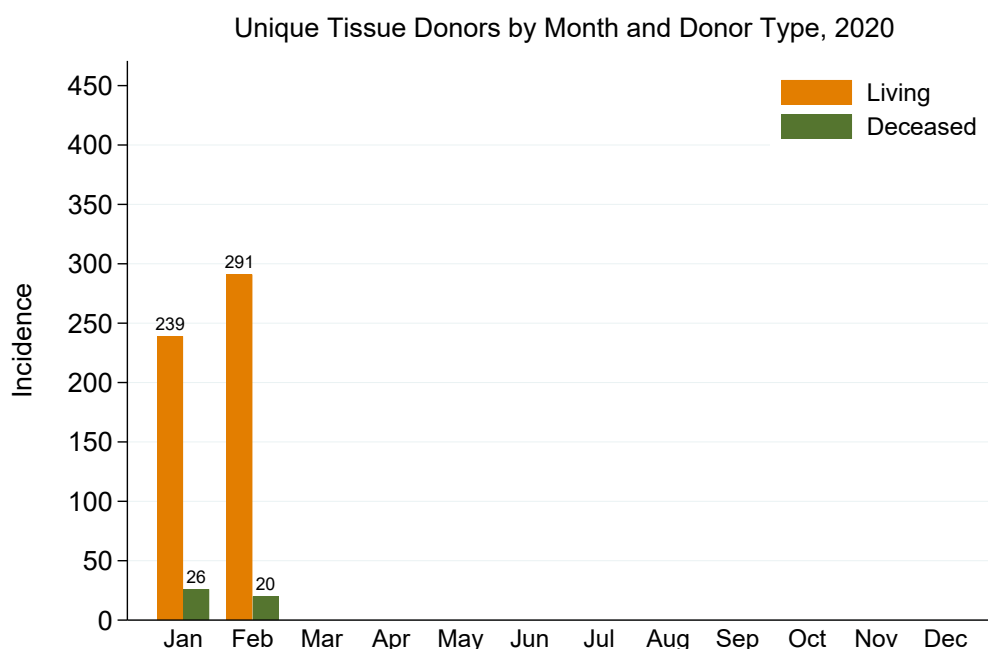


Figure 3: Unique Tissue Donors by Month and Donor Type, 2020

Table 2: Unique Living Tissue Donors by Jurisdiction of Retrieval and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	126	164											290
VIC	27	31											58
QLD	9	21											30
SA	14	18											32
WA	57	57											114
TAS	6	0											6
NT	0	0											0
ACT	0	0											0
AUSTRALIA	239	291											530

Table 3: Unique Deceased Tissue Donors by Jurisdiction of Retrieval and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	11	3											14
VIC	4	7											11
QLD	8	7											15
SA	2	0											2
WA	1	2											3
TAS	0	1											1
NT	0	0											0
ACT	0	0											0
AUSTRALIA	26	20											46

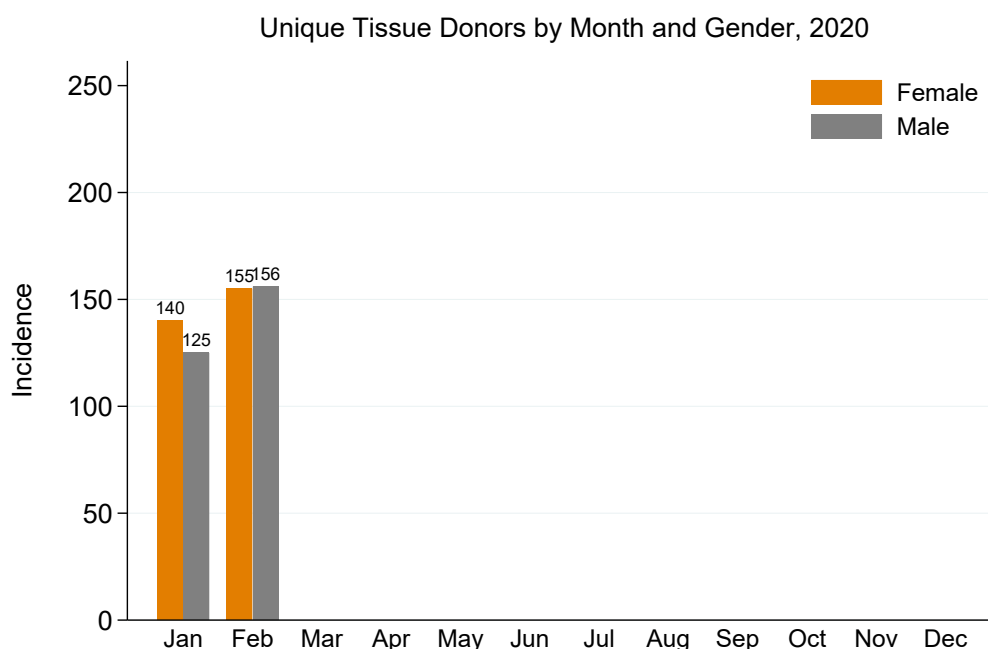


Figure 4: Unique Tissue Donors by Month and Gender, 2020

Table 4: Unique Female Tissue Donors by Jurisdiction of Retrieval and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	72	93											165
VIC	17	16											33
QLD	3	11											14
SA	8	4											12
WA	38	30											68
TAS	2	1											3
NT	0	0											0
ACT	0	0											0
AUSTRALIA	140	155											295

Table 5: Unique Male Tissue Donors by Jurisdiction of Retrieval and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	65	74											139
VIC	14	22											36
QLD	14	17											31
SA	8	14											22
WA	20	29											49
TAS	4	0											4
NT	0	0											0
ACT	0	0											0
AUSTRALIA	125	156											281

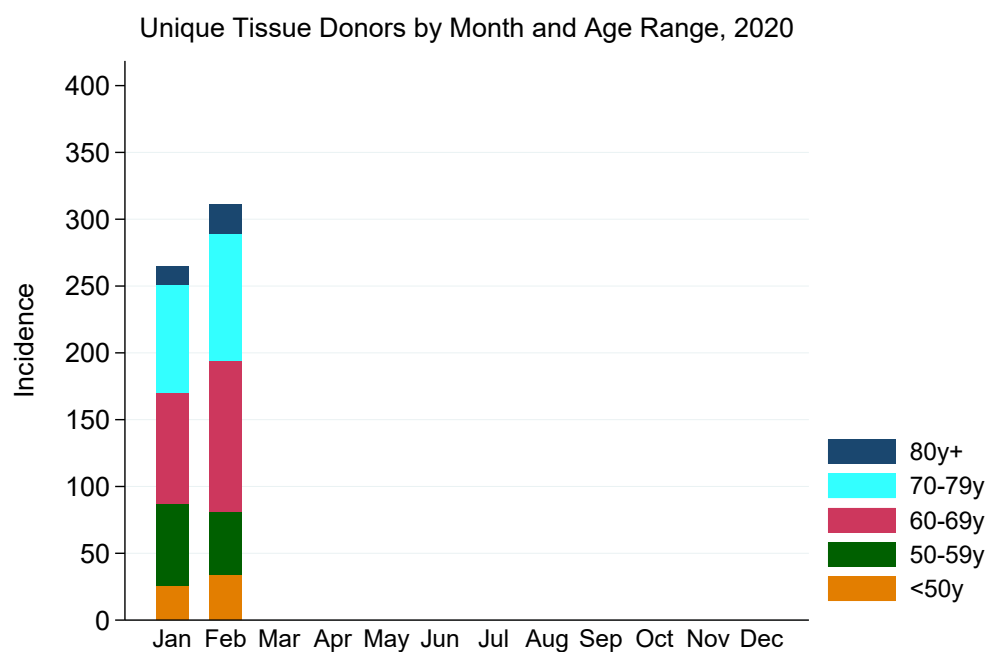


Figure 5: Unique Tissue Donors by Month and Age Range, 2020

Table 6: Unique Tissue Donors by Jurisdiction of Retrieval and Age Range, 2020

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	19	58	113	89	25	304
VIC	9	12	24	20	4	69
QLD	13	11	21	0	0	45
SA	8	7	4	12	3	34
WA	9	18	31	55	4	117
TAS	2	2	3	0	0	7
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	60	108	196	176	36	576

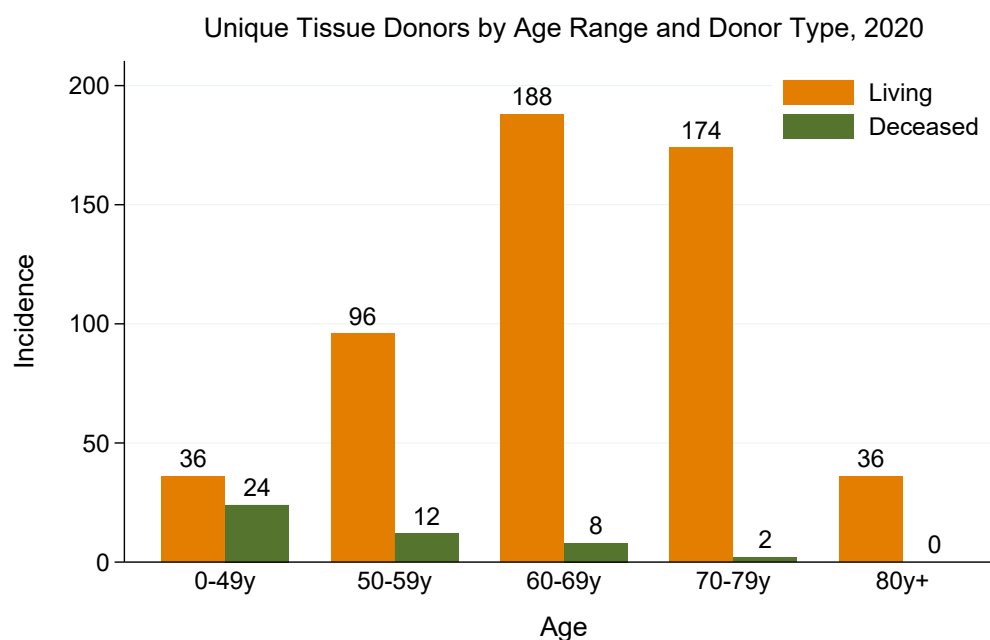


Figure 6: Unique Tissue Donors by Age Range and Donor Type, 2020

Table 7: Unique Living Tissue Donors by Jurisdiction of Retrieval and Age Range, 2020

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	15	54	109	87	25	290
VIC	2	9	23	20	4	58
QLD	4	8	18	0	0	30
SA	6	7	4	12	3	32
WA	8	16	31	55	4	114
TAS	1	2	3	0	0	6
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	36	96	188	174	36	530

Table 8: Unique Deceased Tissue Donors by Jurisdiction of Retrieval and Age Range, 2020

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	4	4	4	2	0	14
VIC	7	3	1	0	0	11
QLD	9	3	3	0	0	15
SA	2	0	0	0	0	2
WA	1	2	0	0	0	3
TAS	1	0	0	0	0	1
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	24	12	8	2	0	46

Eye and Tissue Donation Registry

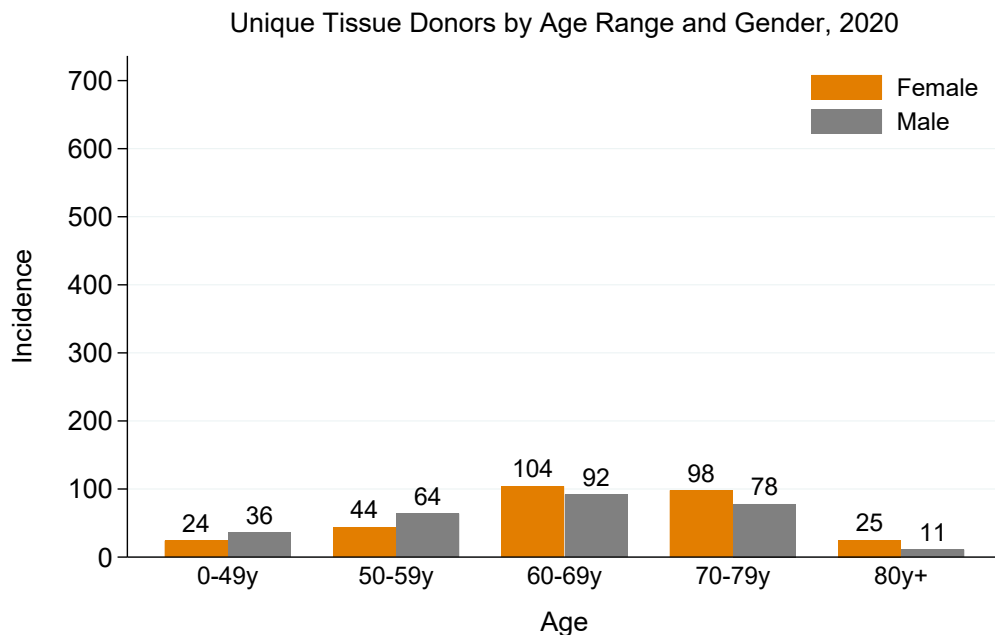


Figure 7: Unique Tissue Donors by Age Range and Gender, 2020

Table 9: Unique Female Tissue Donors by Jurisdiction of Retrieval and Age Range, 2020

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	12	23	63	48	19	165
VIC	1	4	10	14	4	33
QLD	4	2	8	0	0	14
SA	2	2	2	6	0	12
WA	4	12	20	30	2	68
TAS	1	1	1	0	0	3
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	24	44	104	98	25	295

Table 10: Unique Male Tissue Donors by Jurisdiction of Retrieval and Age Range, 2020

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	7	35	50	41	6	139
VIC	8	8	14	6	0	36
QLD	9	9	13	0	0	31
SA	6	5	2	6	3	22
WA	5	6	11	25	2	49
TAS	1	1	2	0	0	4
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	36	64	92	78	11	281

3.2 Eye Donors

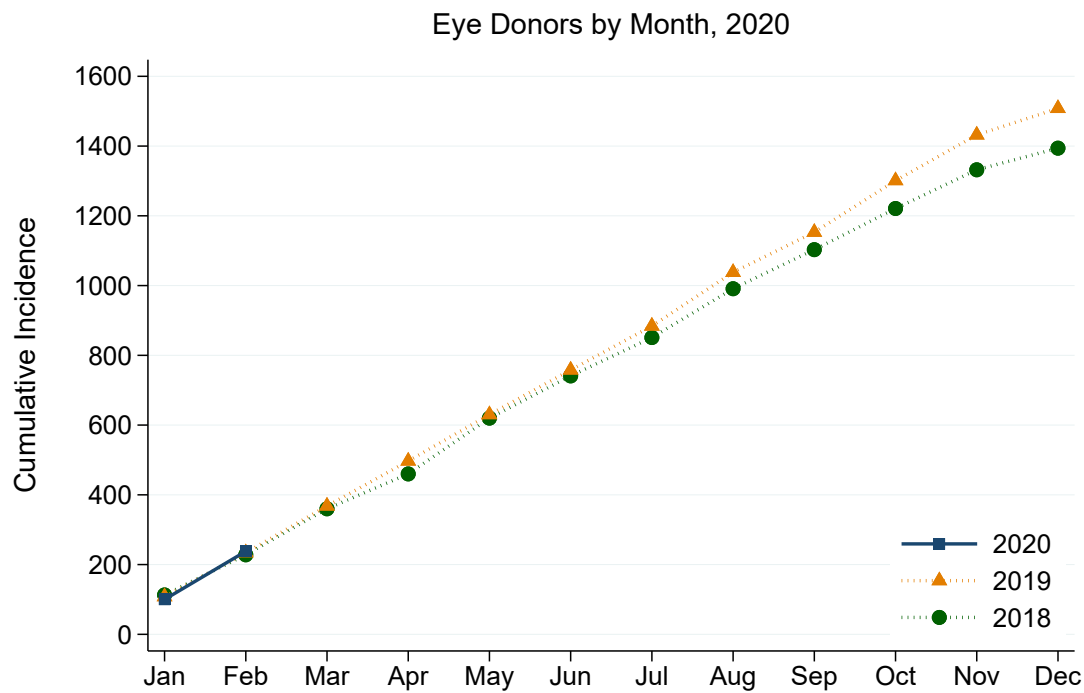


Figure 8: Eye Donors by Month, 2020

Eye and Tissue Donation Registry

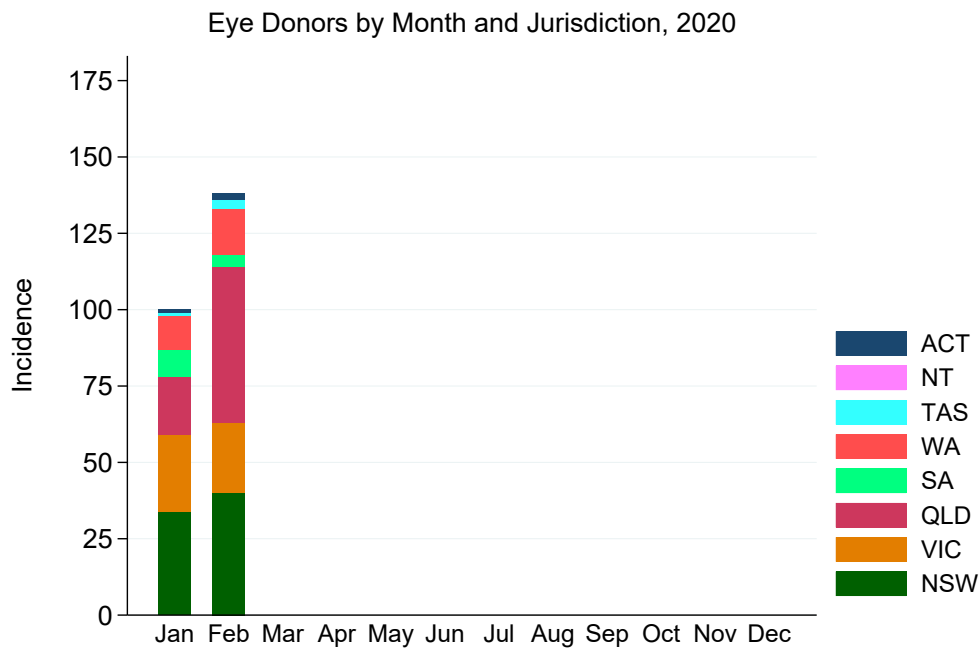


Figure 9: Eye Donors by Month and Jurisdiction, 2020

Table 11: Eye Donors by Jurisdiction of Retrieval and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	34	40											74
VIC	25	23											48
QLD	19	51											70
SA	9	4											13
WA	11	15											26
TAS	1	3											4
NT	0	0											0
ACT	1	2											3
AUSTRALIA	100	138											238

Eye and Tissue Donation Registry

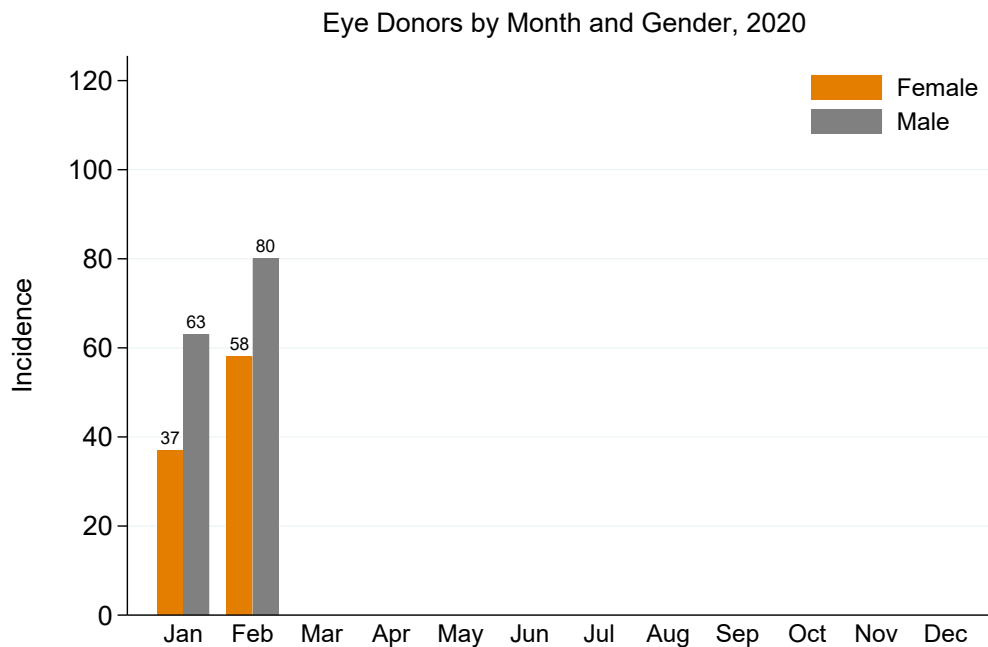


Figure 10: Eye Donors by Month and Gender, 2020

Table 12: Female Eye Donors by Jurisdiction of Retrieval and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	11	19											30
VIC	7	6											13
QLD	8	20											28
SA	5	4											9
WA	5	7											12
TAS	0	1											1
NT	0	0											0
ACT	1	1											2
AUSTRALIA	37	58											95

Table 13: Male Eye Donors by Jurisdiction of Retrieval and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	23	21											44
VIC	18	17											35
QLD	11	31											42
SA	4	0											4
WA	6	8											14
TAS	1	2											3
NT	0	0											0
ACT	0	1											1
AUSTRALIA	63	80											143

Eye and Tissue Donation Registry

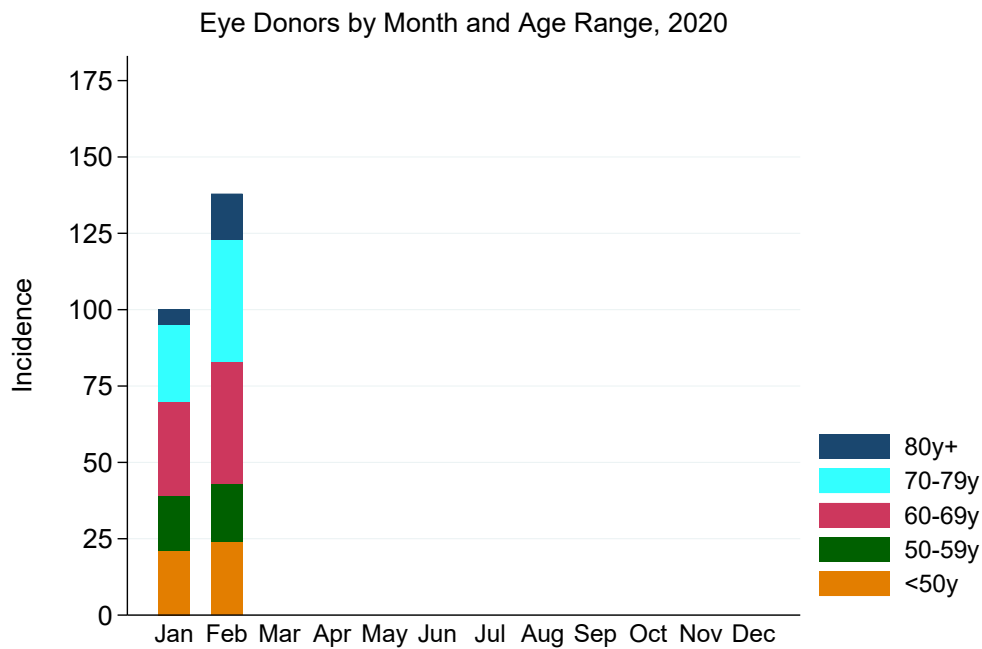


Figure 11: Eye Donors by Month and Age Range, 2020

Table 14: Eye Donors by Jurisdiction of Retrieval and Age Range, 2020

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	9	9	21	20	15	74
VIC	15	5	19	9	0	48
QLD	15	11	16	24	4	70
SA	2	4	2	5	0	13
WA	3	6	10	6	1	26
TAS	1	1	1	1	0	4
NT	0	0	0	0	0	0
ACT	0	1	2	0	0	3
AUSTRALIA	45	37	71	65	20	238

Eye and Tissue Donation Registry

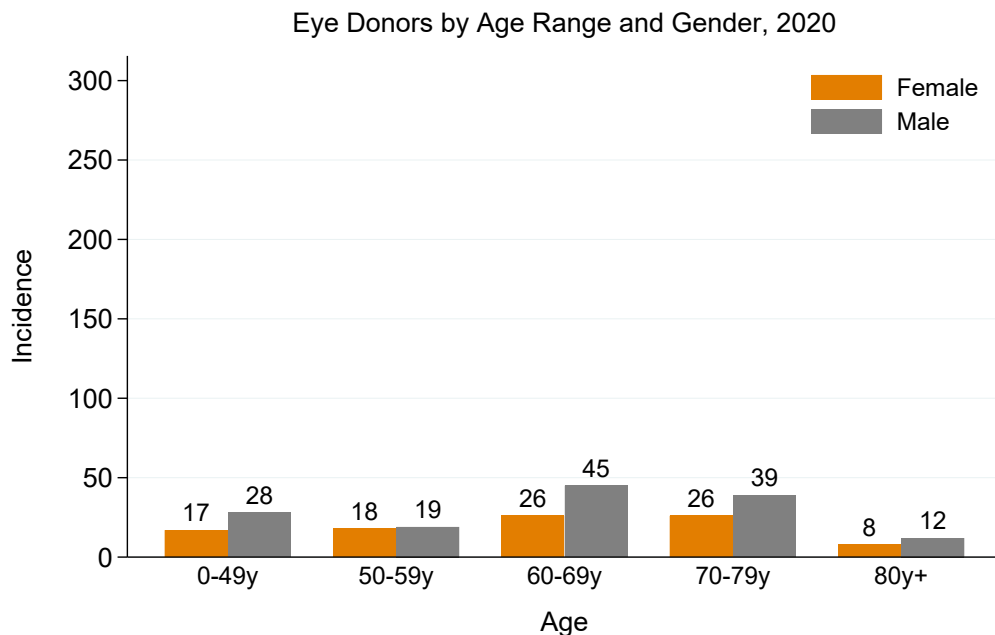


Figure 12: Eye Donors by Age Range and Gender, 2020

Table 15: Female Eye Donors by Jurisdiction of Retrieval and Age Range, 2020

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	3	5	6	10	6	30
VIC	4	1	6	2	0	13
QLD	5	5	6	10	2	28
SA	1	3	2	3	0	9
WA	3	3	5	1	0	12
TAS	1	0	0	0	0	1
NT	0	0	0	0	0	0
ACT	0	1	1	0	0	2
AUSTRALIA	17	18	26	26	8	95

Table 16: Male Eye Donors by Jurisdiction of Retrieval and Age Range, 2020

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	6	4	15	10	9	44
VIC	11	4	13	7	0	35
QLD	10	6	10	14	2	42
SA	1	1	0	2	0	4
WA	0	3	5	5	1	14
TAS	0	1	1	1	0	3
NT	0	0	0	0	0	0
ACT	0	0	1	0	0	1
AUSTRALIA	28	19	45	39	12	143

Eye and Tissue Donation Registry

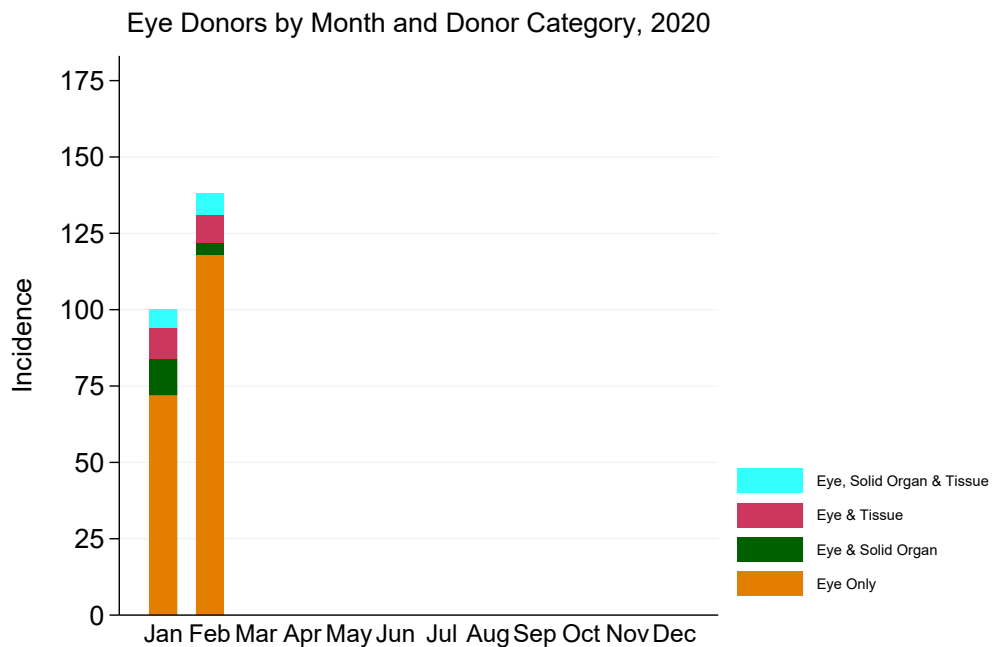


Figure 13: Eye Donors by Month and Donor Category, 2020

Table 17: Eye Donors by Jurisdiction of Retrieval and Donor Category, 2020

	Eye Only	Eye and Solid Organ	Eye and Tissue	Eye, Solid Organ and Tissue
NSW	63	4	3	4
VIC	34	7	5	2
QLD	55	1	10	4
SA	10	2	0	1
WA	24	0	1	1
TAS	1	2	0	1
ACT	3	0	0	0
AUSTRALIA	190	16	19	13

4 Tissue Donations

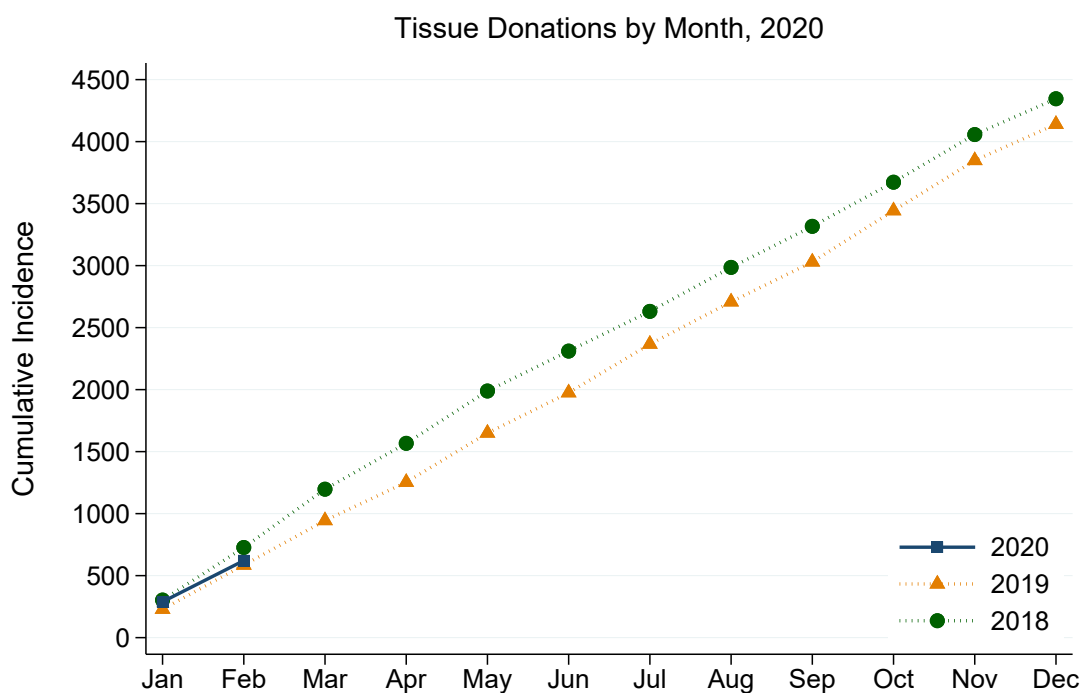


Figure 14: Tissue Donations by Month, 2020

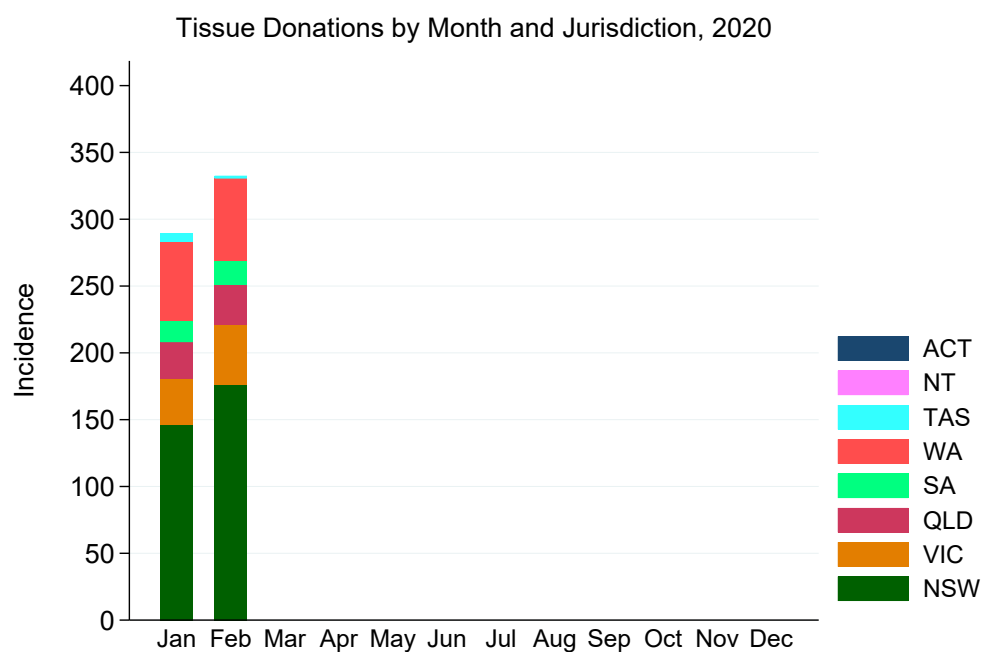


Figure 15: Tissue Donations by Month and Jurisdiction, 2020

Table 18: Tissue Donations by Jurisdiction of Retrieval and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	146	176											322
VIC	35	45											80
QLD	27	30											57
SA	16	18											34
WA	59	62											121
TAS	6	1											7
NT	0	0											0
ACT	0	0											0
AUSTRALIA	289	332											621

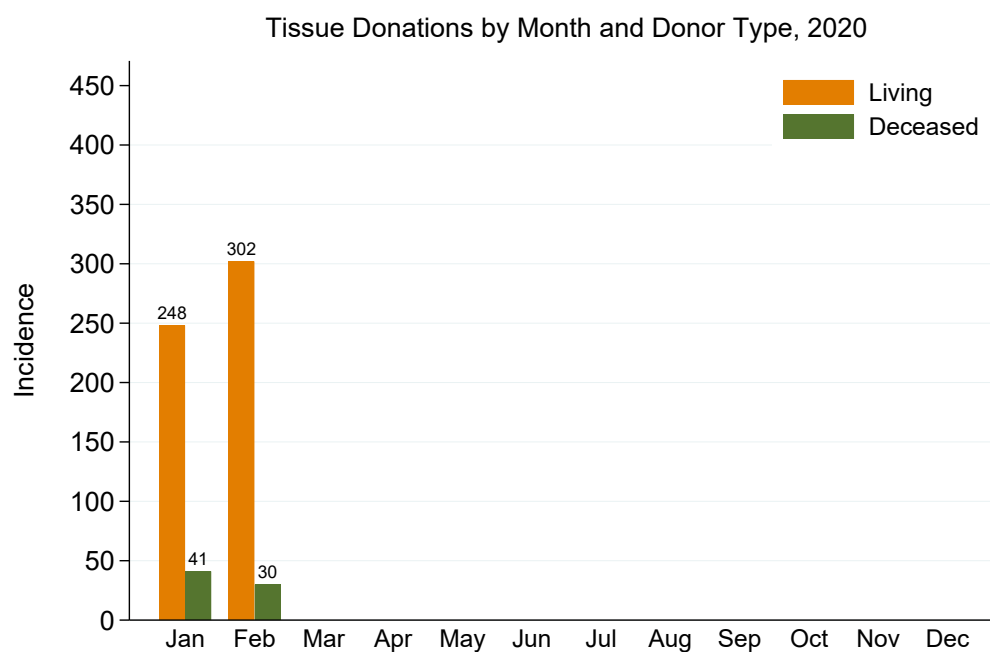


Figure 16: Tissue Donations by Month and Donor Type, 2020

Table 19: Living Tissue Donations by Jurisdiction of Retrieval and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	133	172											305
VIC	27	31											58
QLD	10	21											31
SA	14	18											32
WA	58	60											118
TAS	6	0											6
NT	0	0											0
ACT	0	0											0
AUSTRALIA	248	302											550

Eye and Tissue Donation Registry

Table 20: Living Tissue Donations by Jurisdiction of Retrieval and Tissue Type, 2020

	Amnion	Cardiovascular	Musculoskeletal
NSW	7	1	297
VIC	0	1	57
QLD	0	0	31
SA	0	0	32
WA	0	0	118
TAS	0	0	6
NT	0	0	0
ACT	0	0	0
AUSTRALIA	7	2	541

Table 21: Deceased Tissue Donations by Jurisdiction of Retrieval and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	13	4											17
VIC	8	14											22
QLD	17	9											26
SA	2	0											2
WA	1	2											3
TAS	0	1											1
NT	0	0											0
ACT	0	0											0
AUSTRALIA	41	30											71

Table 22: Deceased Tissue Donations by Jurisdiction of Retrieval and Donor Category, 2020

	Solid Organ/Tissue				Tissue Only				Total			
	cv	ms	skin	pi	cv	ms	skin	pi	cv	ms	skin	pi
NSW	8	4	1	0	1	3	0	0	9	7	1	0
VIC	2	1	1	0	5	6	7	0	7	7	8	0
QLD	3	3	3	1	0	10	6	0	3	13	9	1
SA	2	0	0	0	0	0	0	0	2	0	0	0
WA	0	2	0	0	0	1	0	0	0	3	0	0
TAS	1	0	0	0	0	0	0	0	1	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	16	10	5	1	6	20	13	0	22	30	18	1

Eye and Tissue Donation Registry

Table 23: Intended Solid Organ Donor Who Became Eyes and Tissue Donors, 2020

	Eye Only	Tissue Only	Eye and Tissue
NSW	0	1	0
VIC	0	0	0
QLD	3	0	1
SA	0	0	0
WA	0	1	0
TAS	0	0	0
NT	0	0	0
ACT	0	0	0
AUSTRALIA	3	2	1

Eye and Tissue Donation Registry

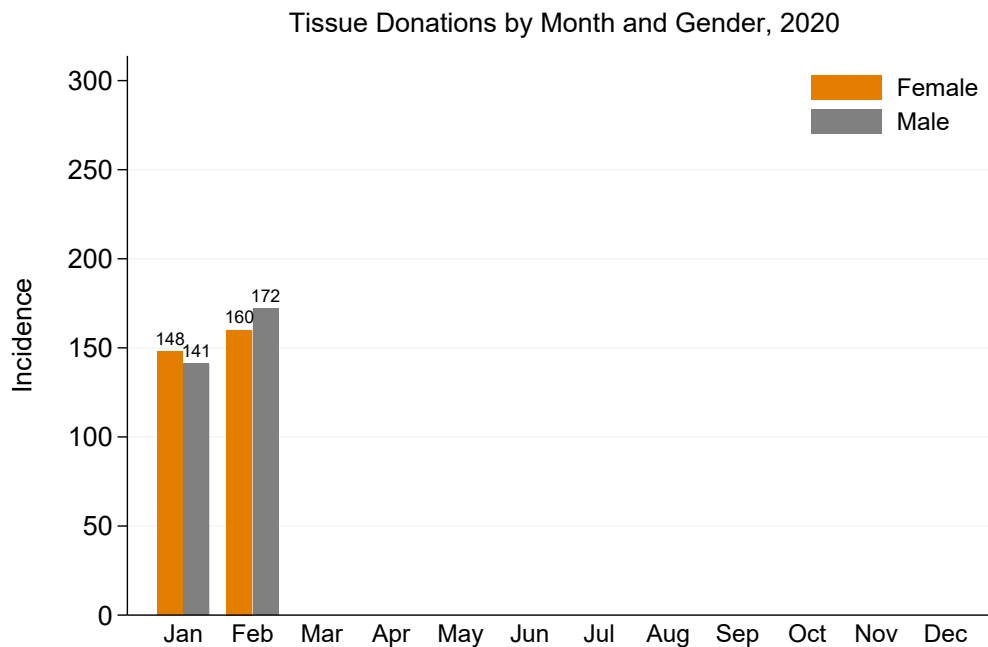


Figure 17: Tissue Donations by Month and Gender, 2020

Table 24: Female Tissue Donations by Jurisdiction of Retrieval and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	78	95											173
VIC	17	16											33
QLD	5	12											17
SA	8	4											12
WA	38	32											70
TAS	2	1											3
NT	0	0											0
ACT	0	0											0
AUSTRALIA	148	160											308

Table 25: Male Tissue Donations by Jurisdiction of Retrieval and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	68	81											149
VIC	18	29											47
QLD	22	18											40
SA	8	14											22
WA	21	30											51
TAS	4	0											4
NT	0	0											0
ACT	0	0											0
AUSTRALIA	141	172											313

5 Notified Tissue Grafts Implanted

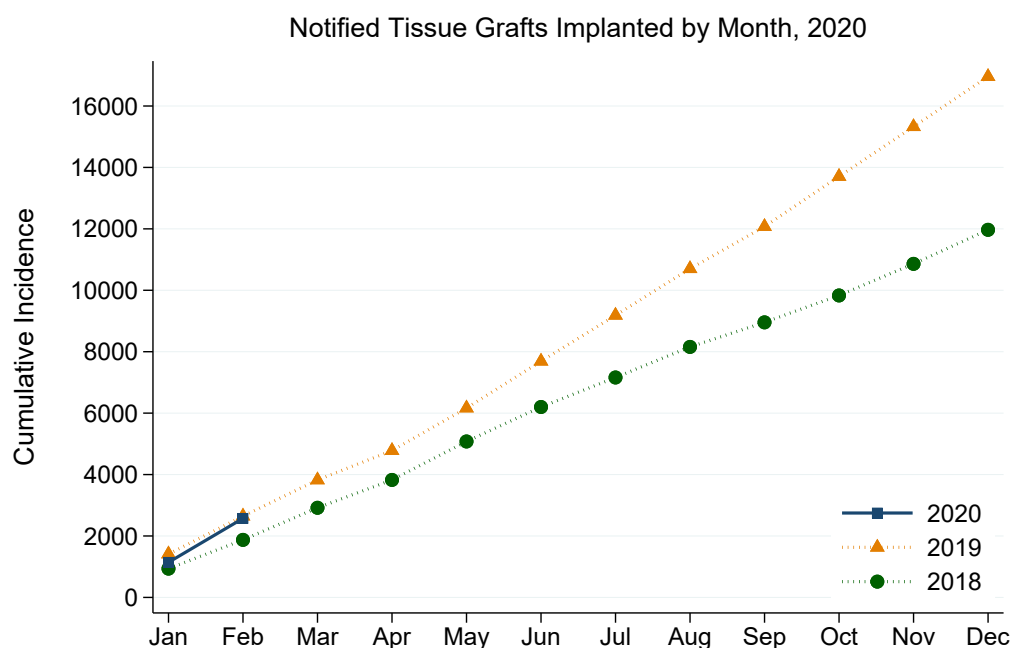


Figure 18: Notified Tissue Grafts Implanted by Month, 2020

Table 26: Notified Tissue Grafts Implanted by Jurisdiction of Retrieving Bank and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	790	1078											1868
VIC	63	51											114
QLD	214	201											415
SA	9	1											10
WA	66	101											167
TAS	0	0											0
NT	0	0											0
ACT	0	0											0
AUSTRALIA	1142	1432											2574

Eye and Tissue Donation Registry

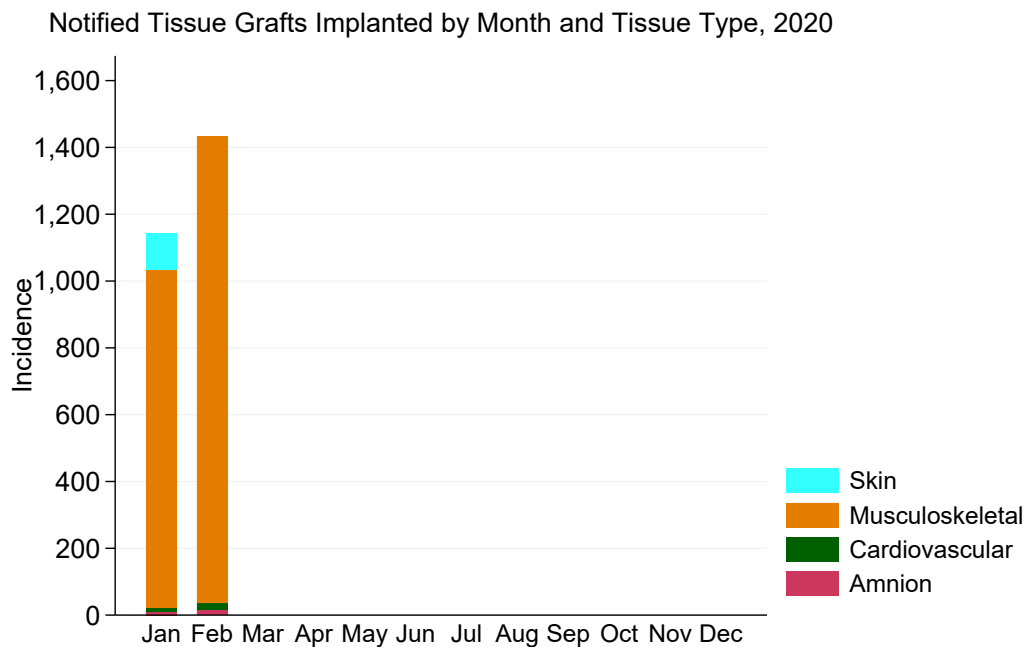


Figure 19: Notified Tissue Grafts Implanted by Month and Tissue Type, 2020

Table 27: Notified Tissue Grafts Implanted by Jurisdiction of Retrieving Bank and Tissue Type, 2020

	Amnion	Cardiovascular	Musculoskeletal	Skin
NSW	26	29	1813	0
VIC	0	4	109	1
QLD	0	0	308	107
SA	0	0	10	0
WA	0	0	167	0
ACT	0	0	0	0
AUSTRALIA	26	33	2407	108

Eye and Tissue Donation Registry

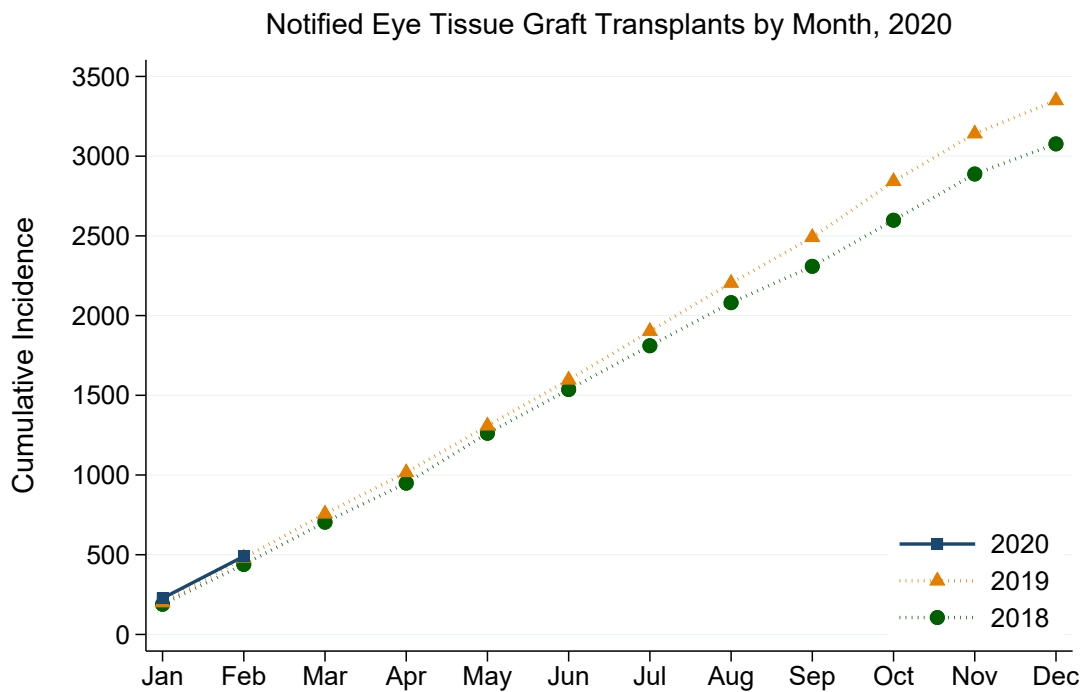


Figure 20: Notified Eye Tissue Graft Transplants by Month, 2020

Table 28: Notified Eye Tissue Graft Transplants by Jurisdiction of Retrieving Bank and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	56	80											136
VIC	44	53											97
QLD	68	72											140
SA	17	13											30
WA	37	35											72
TAS	2	7											9
NT	0	0											0
ACT	3	3											6
AUSTRALIA	227	263											490

Eye and Tissue Donation Registry

Table 29: Cornea Graft Transplants by Jurisdiction of Retrieving Bank and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	41	58											99
VIC	30	41											71
QLD	53	60											113
SA	14	5											19
WA	26	24											50
TAS	1	4											5
NT	0	0											0
ACT	2	1											3
AUSTRALIA	167	193											360

Table 30: Sclera Unit Graft Transplants by Jurisdiction of Retrieving Bank and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	15	22											37
VIC	14	12											26
QLD	15	12											27
SA	3	8											11
WA	11	11											22
TAS	1	3											4
NT	0	0											0
ACT	1	2											3
AUSTRALIA	60	70											130

6 Notified Tissue Graft Recipients

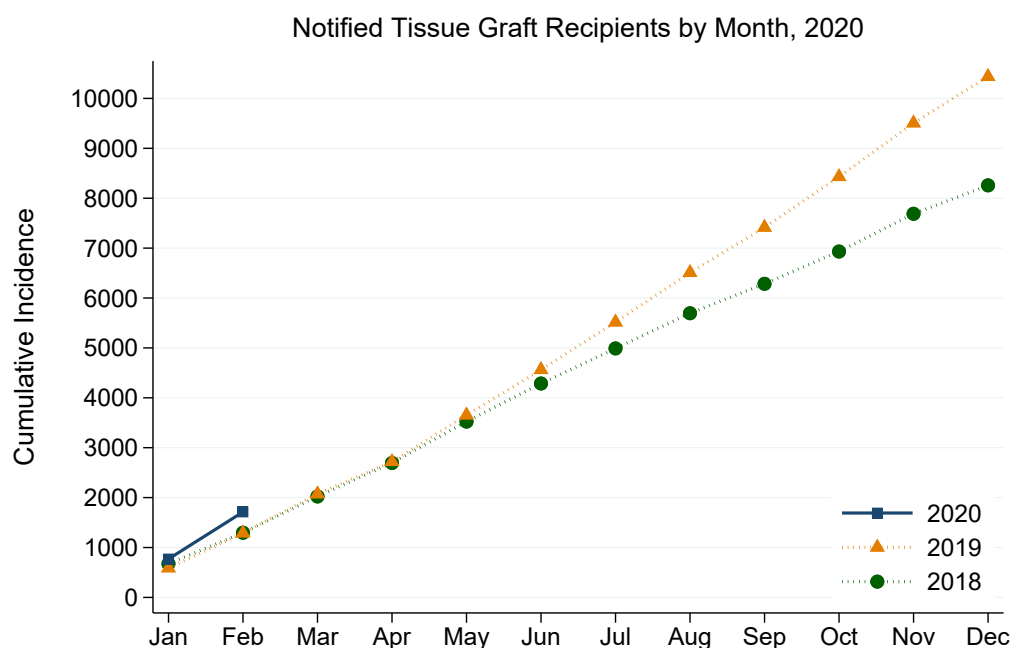


Figure 21: Notified Tissue Graft Recipients by Month, 2020

Table 31: Notified Tissue Graft Recipients by Jurisdiction of Retrieving Bank and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	577	676											1253
VIC	59	48											107
QLD	93	161											254
SA	5	1											6
WA	36	56											92
TAS	0	0											0
NT	0	0											0
ACT	0	0											0
AUSTRALIA	770	942											1712

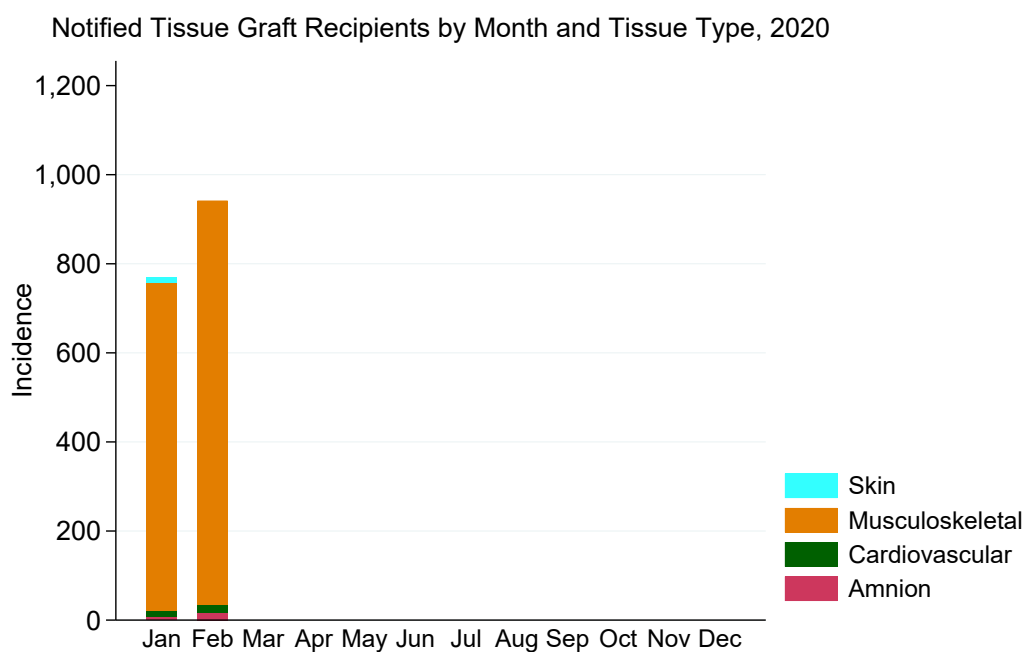


Figure 22: Notified Tissue Graft Recipients by Month and Tissue Type, 2020

Table 32: Notified Tissue Graft Recipients by Jurisdiction of Retrieving Bank and Tissue Type, 2020

	Amnion	Cardiovascular	Musculoskeletal	Skin
NSW	24	28	1201	0
VIC	0	4	102	1
QLD	0	0	243	11
SA	0	0	6	0
WA	0	0	92	0
ACT	0	0	0	0
AUSTRALIA	24	32	1644	12

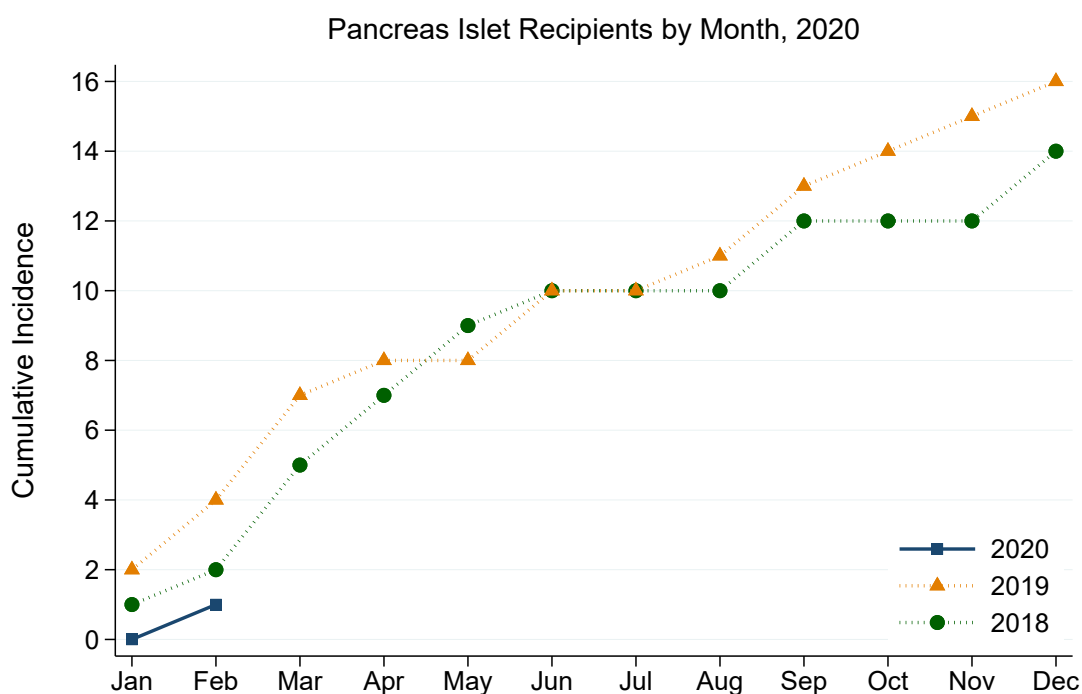


Figure 23: Pancreas Islet Recipients by Month, 2020

Table 33: Pancreas Islet Graft Recipients by Transplant Jurisdiction and Month, 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NSW	0	1											1
VIC	0	0											0
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	0	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 Eye Bank
- QLD Bone Bank
- QLD Heart Valve 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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