

Eye and Tissue Donation in Australia

Monthly Report January 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

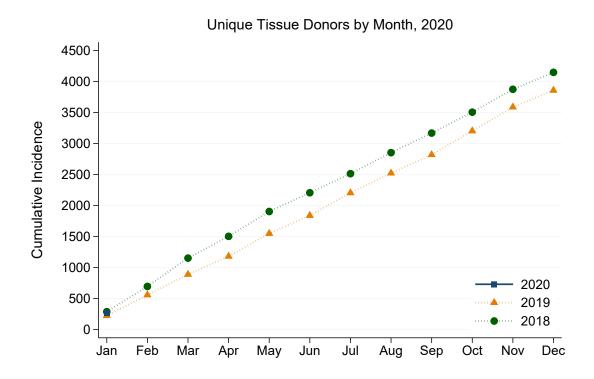


Figure 1: Unique Tissue Donors by Month, 2020



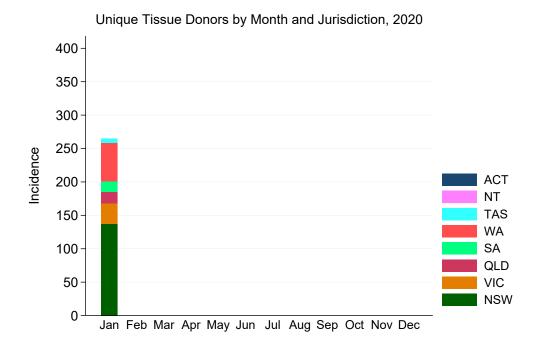


Figure 2: Unique Tissue Donors by Month and Jurisdiction, 2020

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												137
VIC	31												31
QLD	17												17
SA	16												16
WA	58												58
TAS	6												6
NT	0												0
ACT	0												0
AUSTRALIA	265												265



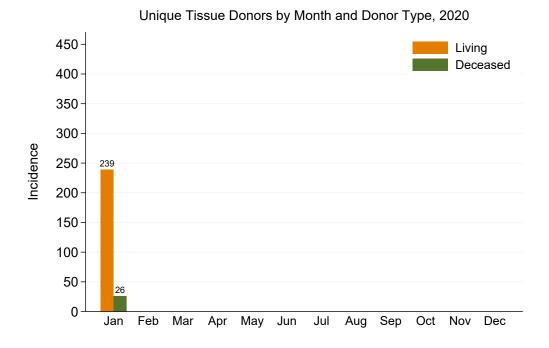


Figure 3: Unique Tissue Donors by Month and Donor Type, $2020\,$

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												126
VIC	27												27
QLD	9												9
SA	14												14
WA	57												57
TAS	6												6
NT	0												0
ACT	0												0
AUSTRAL	IA 239												239

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												11
VIC	4												4
QLD	8												8
SA	2												2
WA	1												1
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	26												26



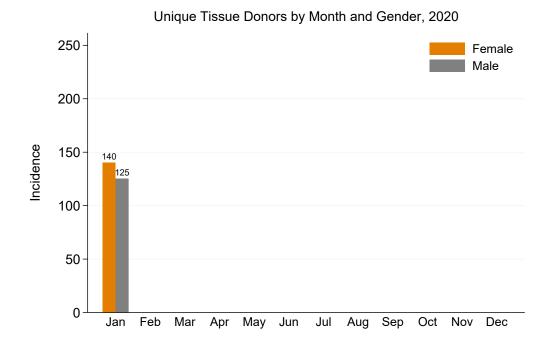


Figure 4: Unique Tissue Donors by Month and Gender, 2020

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												72
VIC	17												17
QLD	3												3
SA	8												8
WA	38												38
TAS	2												2
NT	0												0
ACT	0												0
AUSTRALIA	140												140

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												65
VIC	14												14
QLD	14												14
SA	8												8
WA	20												20
TAS	4												4
NT	0												0
ACT	0												0
AUSTRALL	A 125												125



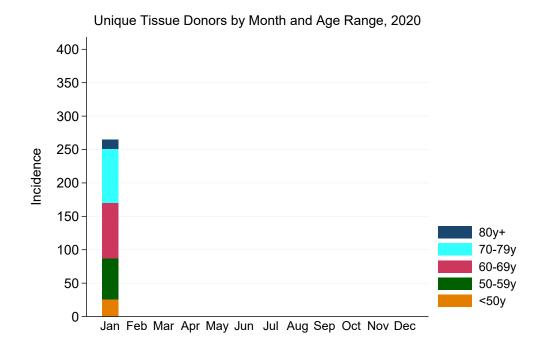


Figure 5: Unique Tissue Donors by Month and Age Range, 2020

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

	<50y	50-59y	60–69y	70-79y	80y+	Total
NSW	8	33	47	41	8	137
VIC	3	4	11	9	4	31
QLD	7	5	5	0	0	17
SA	4	4	3	4	1	16
WA	3	13	14	27	1	58
TAS	1	2	3	0	0	6
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	26	61	83	81	14	265



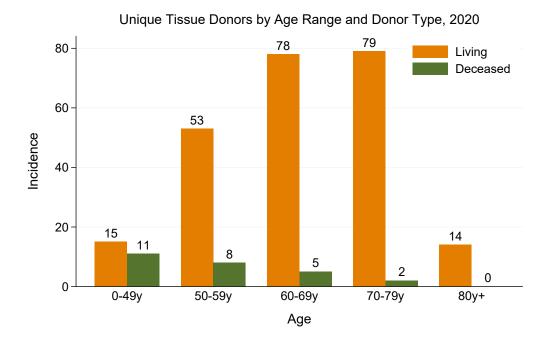


Figure 6: Unique Tissue Donors by Age Range and Donor Type, 2020

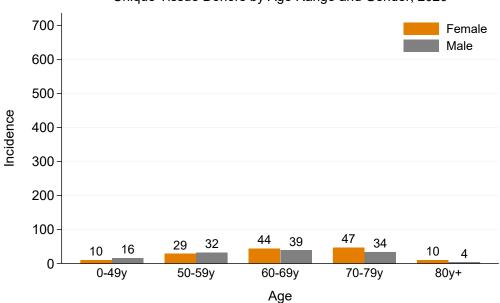
Table 7: Unique Living Tissue Donors by Jurisdiction of Retrieval and Age Range, 2020

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	6	29	44	39	8	126
VIC	1	3	10	9	4	27
QLD	2	3	4	0	0	9
SA	2	4	3	4	1	14
WA	3	12	14	27	1	57
TAS	1	2	3	0	0	6
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	15	53	78	79	14	239

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

	<50 y	50-59y	60-69y	70 - 79y	80y+	Total
NSW	2	4	3	2	0	11
VIC	2	1	1	0	0	4
QLD	5	2	1	0	0	8
SA	2	0	0	0	0	2
WA	0	1	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	11	8	5	2	0	26





Unique Tissue Donors by Age Range and Gender, 2020

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	6	15	27	19	5	72
VIC	0	1	5	7	4	17
QLD	0	1	2	0	0	3
SA	2	2	1	3	0	8
WA	2	9	8	18	1	38
TAS	0	1	1	0	0	2
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	10	29	44	47	10	140

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

-						
	<50 y	50-59y	60-69y	70 - 79y	80y+	Total
NSW	2	18	20	22	3	65
VIC	3	3	6	2	0	14
QLD	7	4	3	0	0	14
SA	2	2	2	1	1	8
WA	1	4	6	9	0	20
TAS	1	1	2	0	0	4
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	16	32	39	34	4	125



3.2 Eye Donors

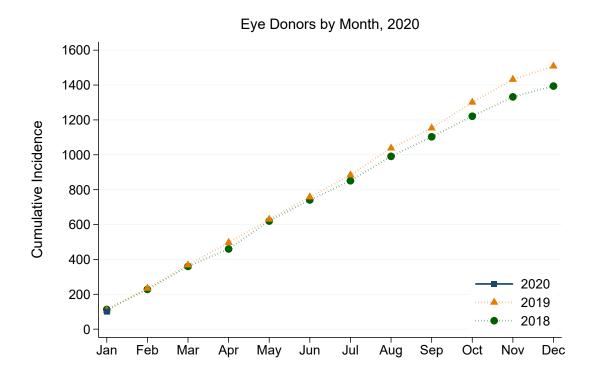


Figure 8: Eye Donors by Month, 2020



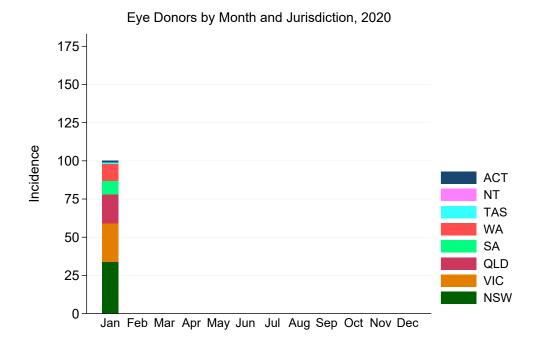


Figure 9: Eye Donors by Month and Jurisdiction, 2020

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												34
VIC	25												25
QLD	19												19
SA	9												9
WA	11												11
TAS	1												1
NT	0												0
ACT	1												1
AUSTRALIA	100												100



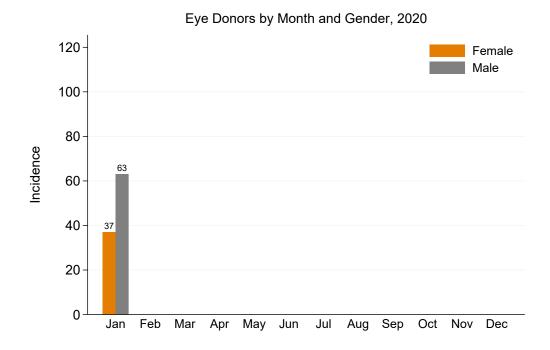


Figure 10: Eye Donors by Month and Gender, 2020

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												11
VIC	7												7
QLD	8												8
SA	5												5
WA	5												5
TAS	0												0
NT	0												0
ACT	1												1
AUSTRALIA	37												37

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												23
VIC	18												18
QLD	11												11
SA	4												4
WA	6												6
TAS	1												1
NT	0												0
ACT	0												0
AUSTRALIA	63												63



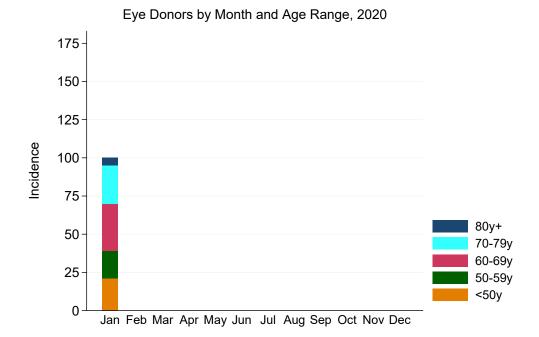


Figure 11: Eye Donors by Month and Age Range, 2020

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

	<50y	50-59y	60–69y	70-79y	80y+	Total
NSW	5	5	10	9	5	34
VIC	8	1	12	4	0	25
QLD	6	4	2	7	0	19
SA	2	2	2	3	0	9
WA	0	5	4	2	0	11
TAS	0	0	1	0	0	1
NT	0	0	0	0	0	0
ACT	0	1	0	0	0	1
AUSTRALIA	21	18	31	25	5	100



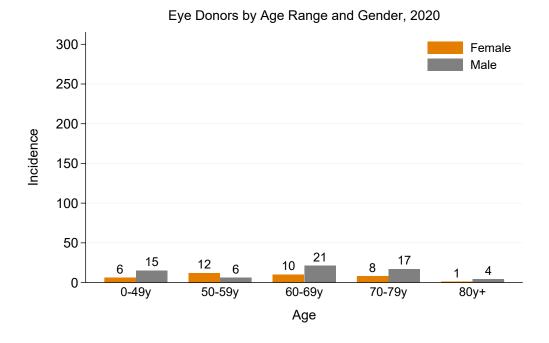


Figure 12: Eye Donors by Age Range and Gender, 2020

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

	<50y	50-59y	60-69y	70-79y	80y+	Total
NSW	2	3	3	2	1	11
VIC	2	1	3	1	0	7
QLD	1	3	0	4	0	8
SA	1	1	2	1	0	5
WA	0	3	2	0	0	5
TAS	0	0	0	0	0	0
NT	0	0	0	0	0	0
ACT	0	1	0	0	0	1
AUSTRALIA	6	12	10	8	1	37

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

	<50 y	50-59y	60-69y	70 - 79y	80y+	Total
NSW	3	2	7	7	4	23
VIC	6	0	9	3	0	18
QLD	5	1	2	3	0	11
SA	1	1	0	2	0	4
WA	0	2	2	2	0	6
TAS	0	0	1	0	0	1
NT	0	0	0	0	0	0
ACT	0	0	0	0	0	0
AUSTRALIA	15	6	21	17	4	63



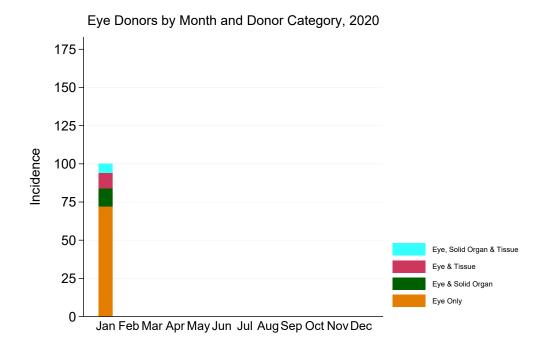


Figure 13: Eye Donors by Month and Donor Category, 2020

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	26	3	3	2
VIC	17	6	2	0
QLD	11	1	5	2
SA	7	1	0	1
WA	10	0	0	1
TAS	0	1	0	0
ACT	1	0	0	0
AUSTRALIA	72	12	10	6



4 Tissue Donations

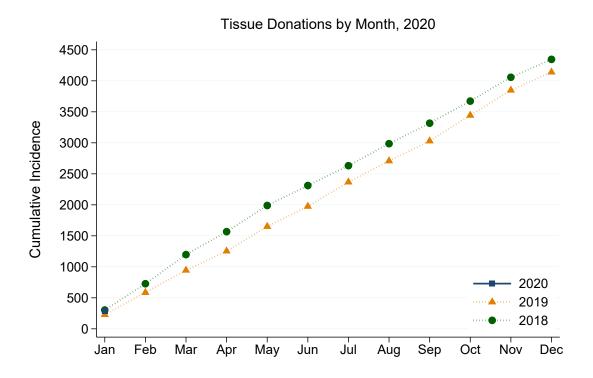


Figure 14: Tissue Donations by Month, 2020



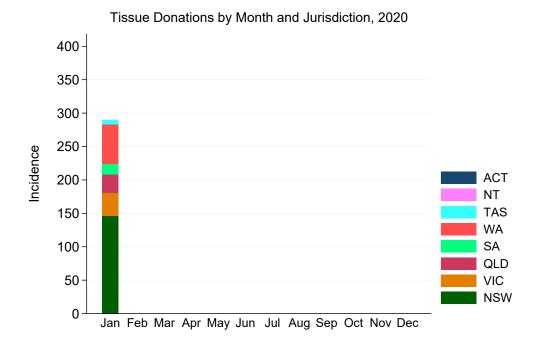


Figure 15: Tissue Donations by Month and Jurisdiction, 2020

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												146
VIC	35												35
QLD	27												27
SA	16												16
WA	59												59
TAS	6												6
NT	0												0
ACT	0												0
AUSTRALIA	289												289



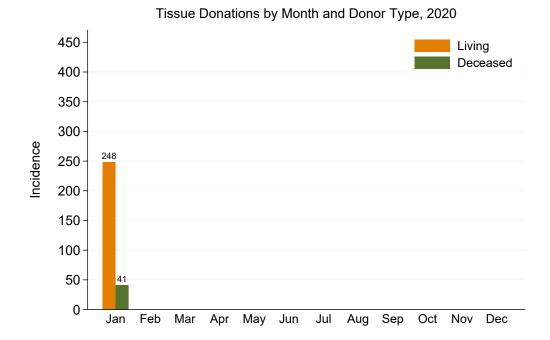


Figure 16: Tissue Donations by Month and Donor Type, 2020

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												133
VIC	27												27
QLD	10												10
SA	14												14
WA	58												58
TAS	6												6
NT	0												0
ACT	0												0
AUSTRALIA	248												248



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

	Amnion	Cardiovascular	Musculoskeletal
NSW	3	1	129
VIC	0	1	26
QLD	0	0	10
SA	0	0	14
WA	0	0	58
TAS	0	0	6
NT	0	0	0
ACT	0	0	0
AUSTRALIA	3	2	243

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												13
VIC	8												8
QLD	17												17
SA	2												2
WA	1												1
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	41												41

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

	Sc	olid Org	an/Tissi	ue		Tissue	e Only			To	tal	
	cv	ms	skin	pi	cv	ms	skin	pi	cv	ms	skin	pi
NSW	5	3	1	0	1	3	0	0	6	6	1	0
VIC	0	0	0	0	1	3	4	0	1	3	4	0
QLD	2	3	3	0	0	5	4	0	2	8	7	0
SA	2	0	0	0	0	0	0	0	2	0	0	0
WA	0	1	0	0	0	0	0	0	0	1	0	0
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	9	7	4	0	2	11	8	0	11	18	12	0

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	4	0	0
QLD	1	0	1
SA	0	0	0
WA	0	0	0
TAS	0	0	0
NT	0	0	0
ACT	0	0	0
AUSTRALIA	5	1	1



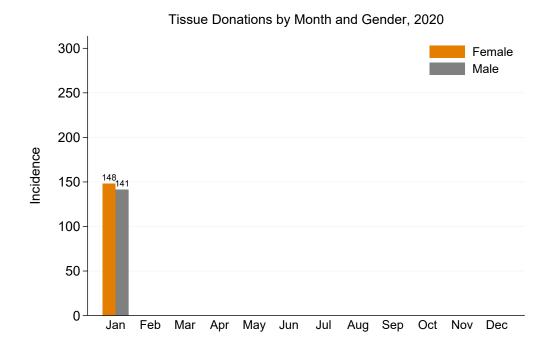


Figure 17: Tissue Donations by Month and Gender, 2020

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												78
VIC	17												17
QLD	5												5
SA	8												8
WA	38												38
TAS	2												2
NT	0												0
ACT	0												0
AUSTRALIA	148												148

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												68
VIC	18												18
QLD	22												${\bf 22}$
SA	8												8
WA	21												21
TAS	4												4
NT	0												0
ACT	0												0
AUSTRALIA	141												141



5 Notified Tissue Grafts Implanted

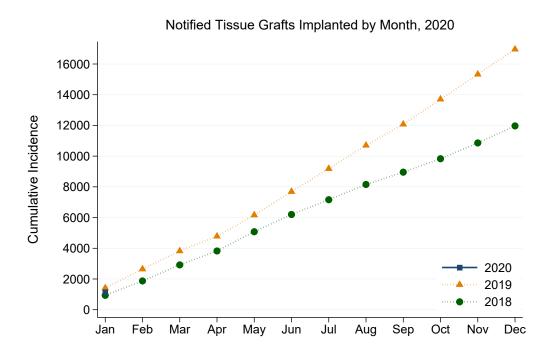


Figure 18: Notified Tissue Grafts Implanted by Month, 2020

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												790
VIC	62												62
QLD	214												214
SA	9												9
WA	66												66
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	1141												1141



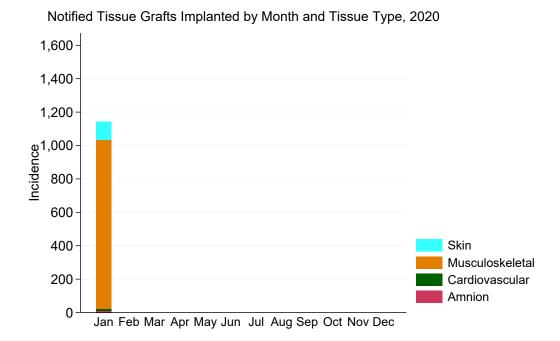


Figure 19: Notified Tissue Grafts Implanted by Month and Tissue Type, 2020

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

	Amnion	Cardiovascular	Musculoskeletal	Skin
NSW	9	11	770	0
VIC	0	3	58	1
QLD	0	0	107	107
SA	0	0	9	0
WA	0	0	66	0
ACT	0	0	0	0
AUSTRALIA	9	14	1010	108



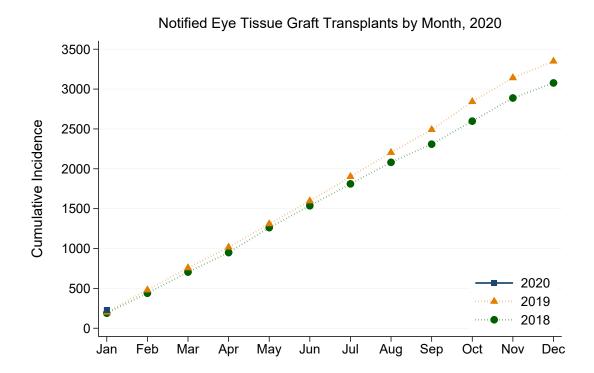


Figure 20: Notified Eye Tissue Graft Transplants by Month, 2020

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												56
VIC	44												44
QLD	68												68
SA	17												17
WA	37												37
TAS	2												2
NT	0												0
ACT	3												3
AUSTRALIA	227												227

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												41
VIC	30												30
QLD	53												53
SA	14												14
WA	26												26
TAS	1												1
NT	0												0
ACT	2												2
AUSTRAI	LIA 167												167

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												15
VIC	14												14
QLD	15												15
SA	3												3
WA	11												11
TAS	1												1
NT	0												0
ACT	1												1
AUSTRALIA	60												60



6 Notified Tissue Graft Recipients

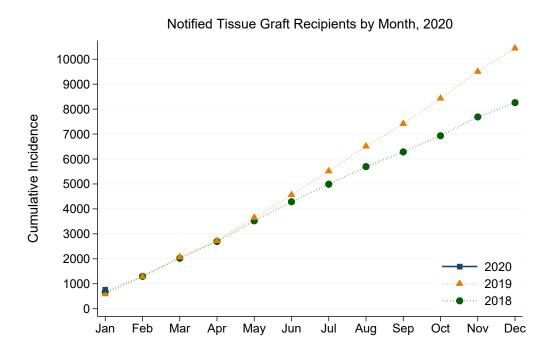


Figure 21: Notified Tissue Graft Recipients by Month, 2020

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												577
VIC	58												58
QLD	93												93
SA	5												5
WA	36												36
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	769												769



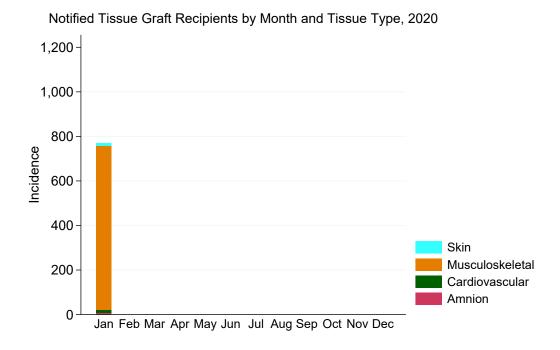


Figure 22: Notified Tissue Graft Recipients by Month and Tissue Type, 2020

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

	Amnion	Cardiovascular	Musculoskeletal	Skin
NSW	8	10	559	0
VIC	0	3	54	1
QLD	0	0	82	11
SA	0	0	5	0
WA	0	0	36	0
ACT	0	0	0	0
AUSTRALIA	8	13	736	12



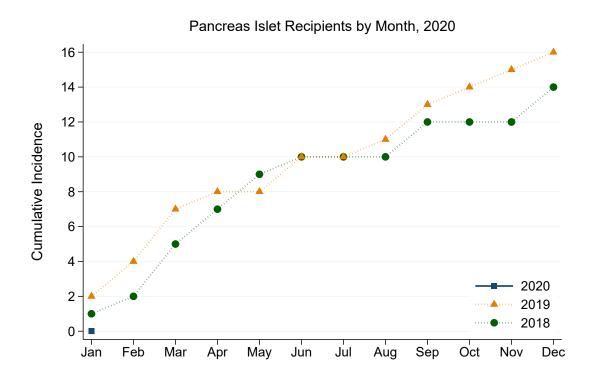


Figure 23: Pancreas Islet Recipients by Month, 2020

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												0
VIC	0												0
QLD	0												0
SA	0												0
WA	0												0
TAS	0												0
NT	0												0
ACT	0												0
AUSTRALIA	0												0



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.



- 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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