



Annual Report 2020

Tables and Figures

*Australian and New Zealand Islet
and Pancreas Transplant Registry*

Table 1.1

Waitlist activity in Australia for the last three years



Activity	Patients (n)		
	2018	2019	2020
On active list at beginning of year	91	78	72
Added to active list during the year	51	48	34
Removed from active list during year	7	7	5
Pancreas transplants to patients on waiting list	50	40	47
Kidney only transplants to patients on waiting list	5	3	2
Transplants performed outside Australia/New Zealand	0	0	0
Died while active on list	2	4	2
On active waiting list at the end of year	78	72	50
Died within 12 months of removal from list	0	0	0
Under consideration but not active on list	185	173	163
Referred but declined for pancreas transplantation	2	2	2

Figure 1.1

Distribution of people active on the waiting list by state of residence

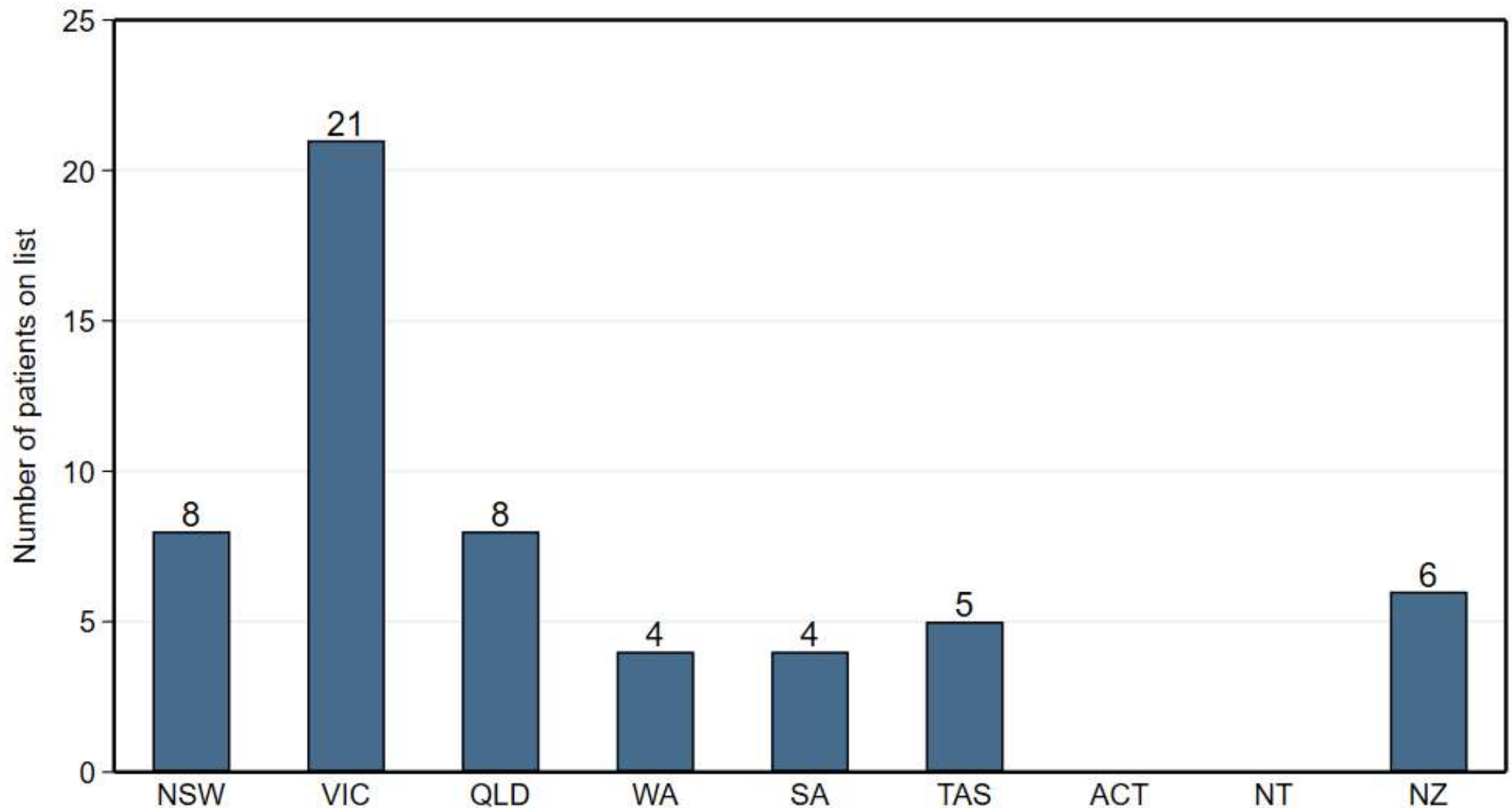
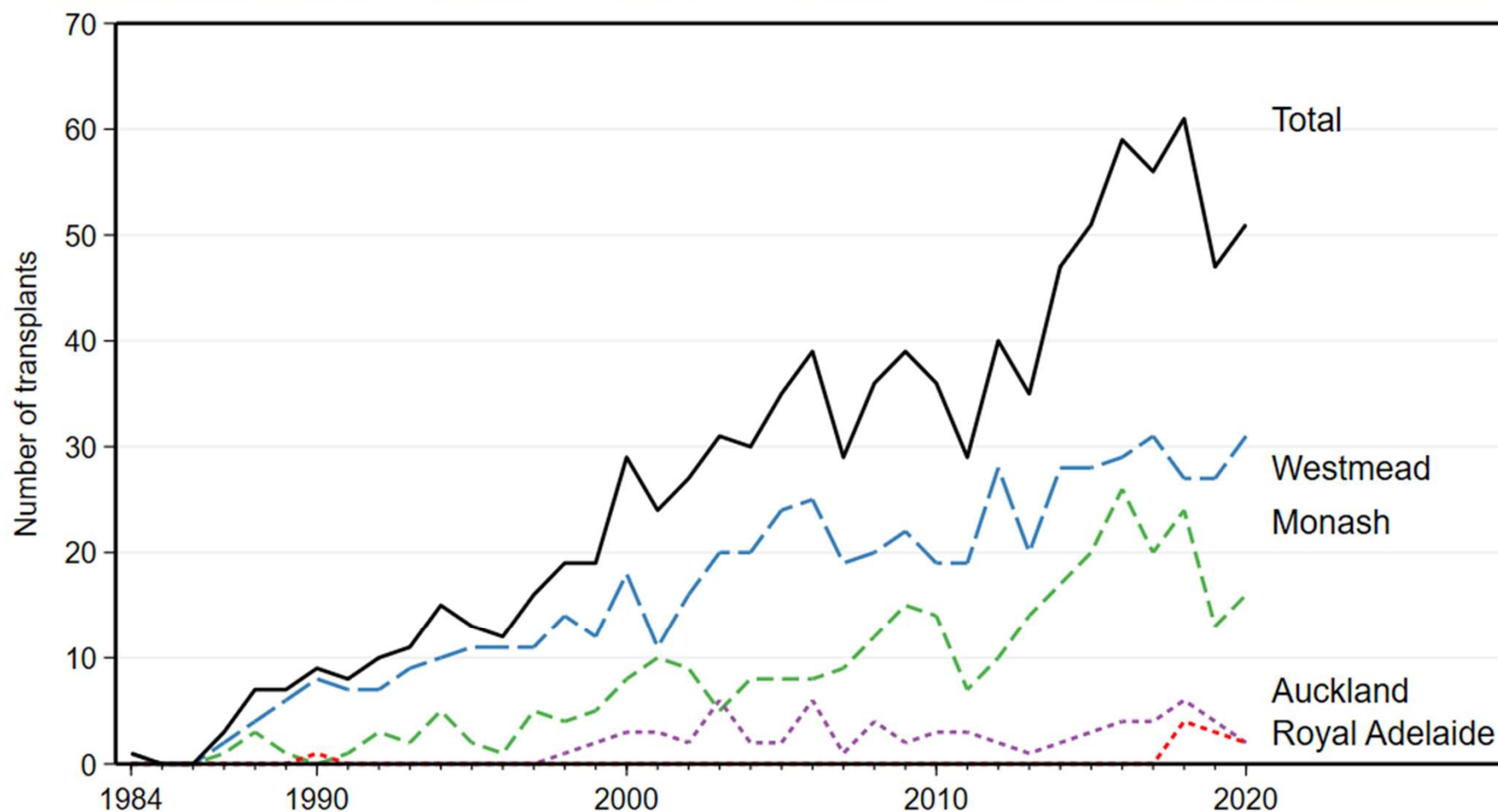


Figure 2.1

Pancreas transplants by hospital,
1984-2020



Note: There have been four pancreas transplants performed in Australia, which were not conducted by either Westmead, Monash, or Royal Adelaide. These occurred in 1988, 1990, 2005, and 2017

Figure 2.2

Pancreas transplant by type over time

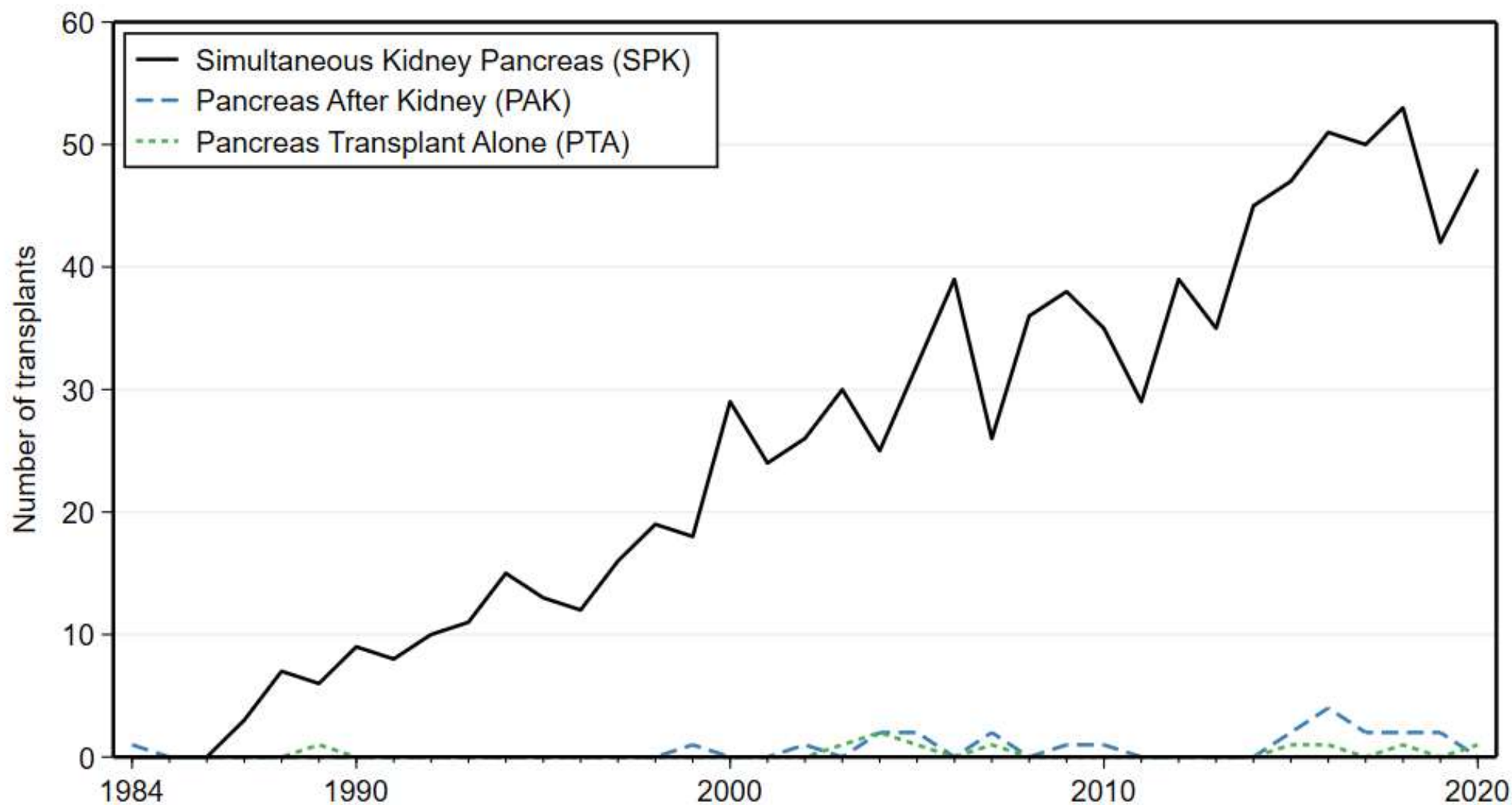


Table 2.3a

Demographics and characteristics of pancreas transplant recipients



Patients, n (column %)	2020	1984-2019	Total
Age category			
Median (IQR)	42 (37, 46.5)	39 (33, 44)	39 (33, 44)
0-34	8 (16)	285 (31)	293 (30)
35-44	26 (53)	417 (46)	443 (46)
45-50	8 (16)	149 (16)	157 (16)
50+	7 (14)	60 (7)	67 (7)
Sex			
Female	17 (35)	428 (47)	445 (49)
Male	32 (65)	484 (53)	516 (54)
Blood group			
O	18 (37)	425 (47)	443 (46)
A	22 (45)	360 (39)	382 (40)
B	6 (12)	84 (9)	90 (9)
AB	3 (6)	42 (5)	45 (5)
Total	49	912	961

Table 2.3b

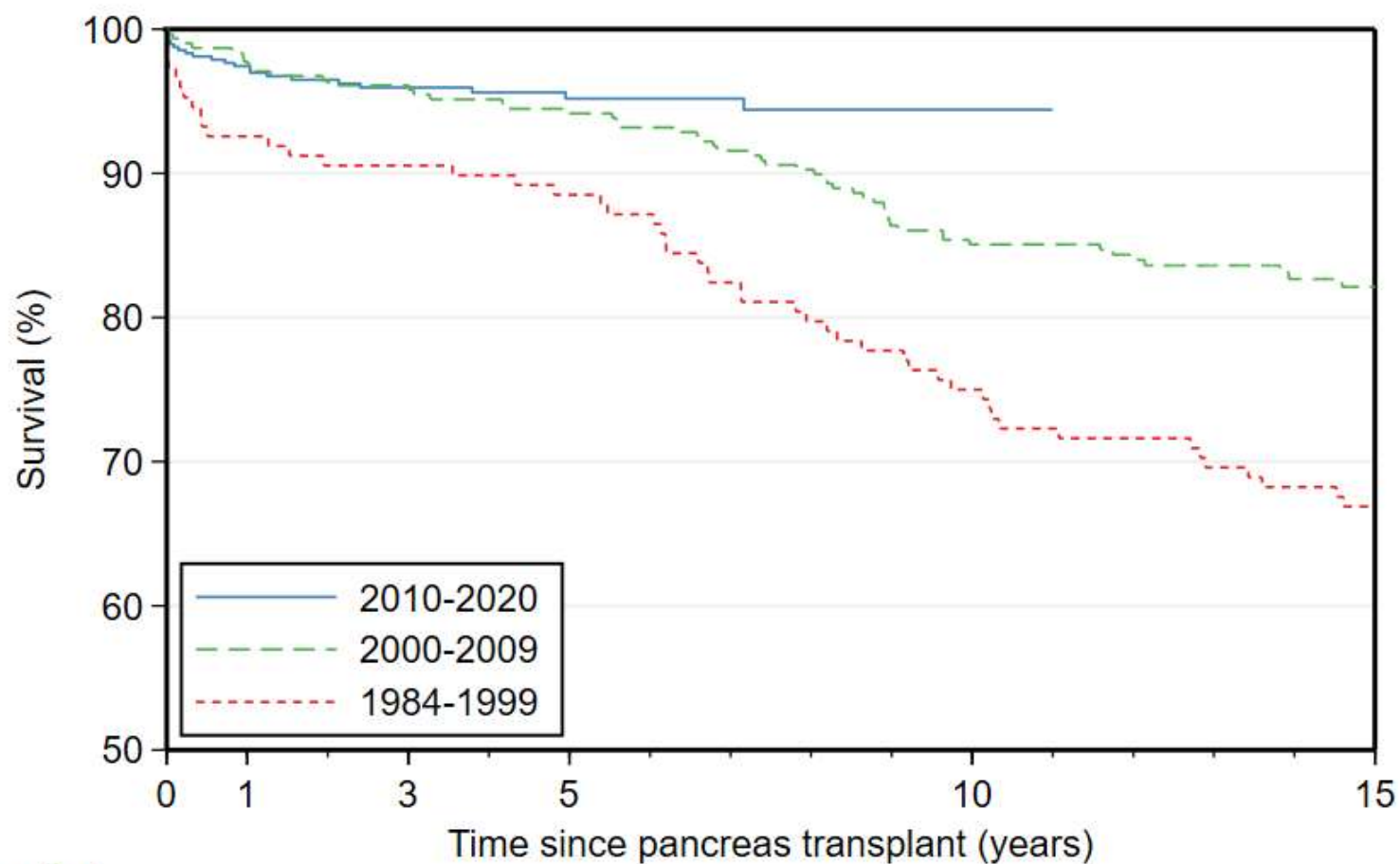
Demographics and characteristics of pancreas transplant recipients



Patients, n (column %)	2020	1984-2019	Total
Cause of end stage kidney disease			
Diabetes type 1	48 (98)	890 (98)	938 (98)
Diabetes type 2	1 (2)	1 (<1)	2 (<1)
Haemolytic uraemic syndrome	0 (0)	1 (<1)	1 (<1)
Interstitial nephritis	0 (0)	1 (<1)	1 (<1)
Wegener's granulomatosis	0 (0)	1 (<1)	1 (<1)
No kidney disease	0 (0)	18 (2)	18 (2)
Not reported	0 (0)	2 (<1)	2 (<1)
Ethnicity			
Indigenous Australian	0 (0)	2 (<1)	2 (<1)
Maori	0 (0)	8 (<1)	8 (<1)
Pacific islander	0 (0)	10 (1)	10 (1)
White	44 (90)	858 (94)	902 (94)
North Asian	1 (2)	3 (<1)	4 (<1)
South-East Asian	1 (2)	0 (0)	1 (<1)
Southern and Central Asian	2 (4)	17 (1)	19 (2)
North African and Middle Eastern	1 (2)	9 (1)	13 (1)
Other	0 (0)	1 (<1)	1 (<1)
Not reported	0 (0)	1 (<1)	1 (<1)
Total	49	912	961

Figure 2.4

Patient survival by era of transplantation

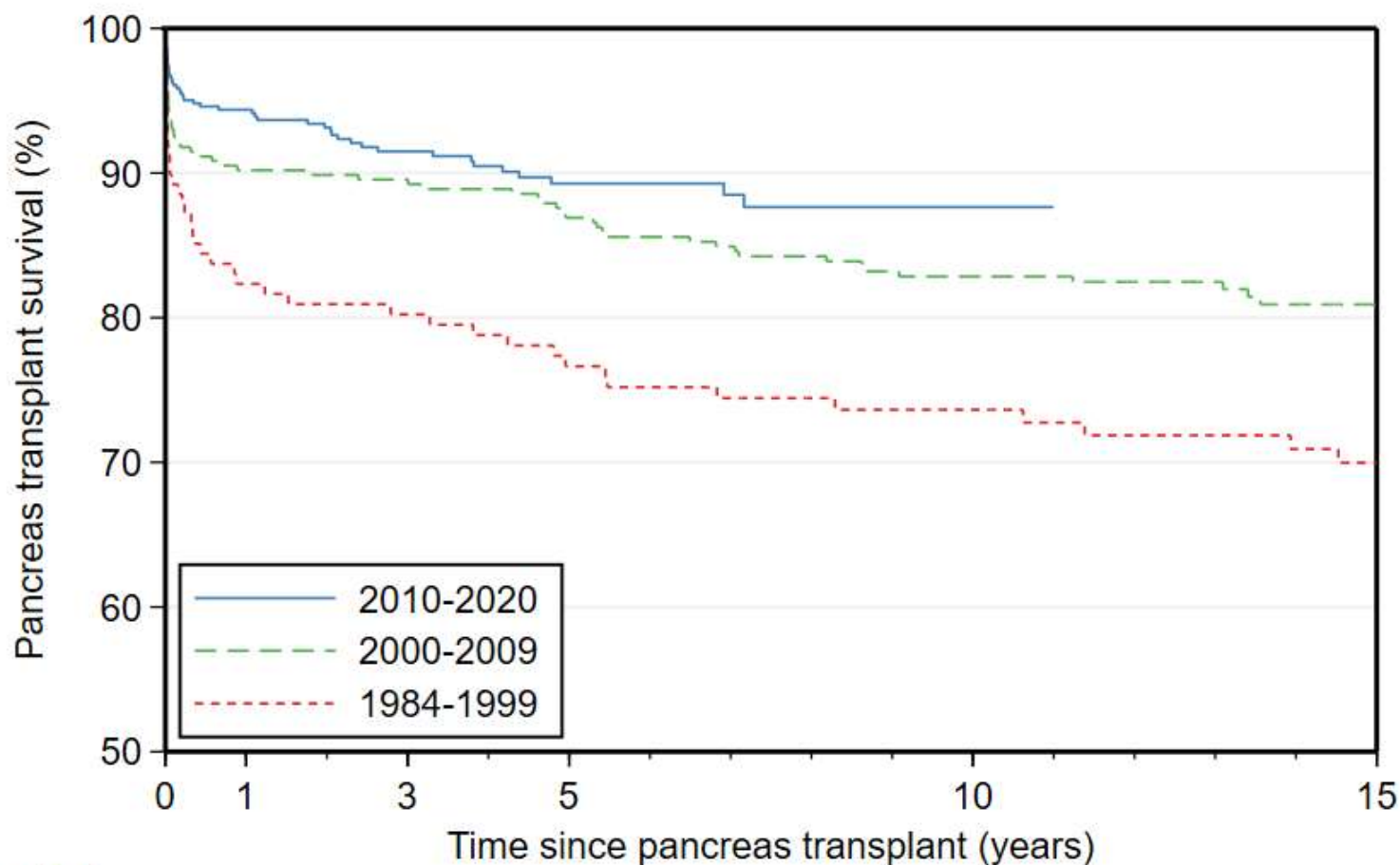


Year of transplant

2010-2020	482	422	321	218	31	0
2000-2009	308	301	296	290	262	140
1984-1999	148	137	134	131	111	99

Figure 2.8

Pancreas transplant survival by era of transplantation (censored at death)



Year of transplant

2010-2020	489	405	296	190	28	0
2000-2009	317	282	276	262	230	112
1984-1999	150	118	113	106	87	73

Table 2.7

Pancreas graft survival censored at death,
by country and era



Year of transplant	Australia					New Zealand				
	N	1-year		5-year		N	1-year		5-year	
		<i>n</i>	%	<i>n</i>	%		<i>n</i>	%	<i>n</i>	%
2011-2016	240	216	91.98%	152	86.66%	15	14	93.33%	9	86.67%
2012-2017	263	237	93.03%	131	87.86%	16	15	93.75%	6	87.50%
2013-2018	276	251	94.11%	103	90.09%	20	19	95.00%	4	88.67%
2014-2019	282	259	94.96%	77	92.16%	23	22	95.65%	3	88.82%
2015-2020	286	223	96.35%	44	93.90%	23	21	100.00%	2	92.31%

Table 2.8

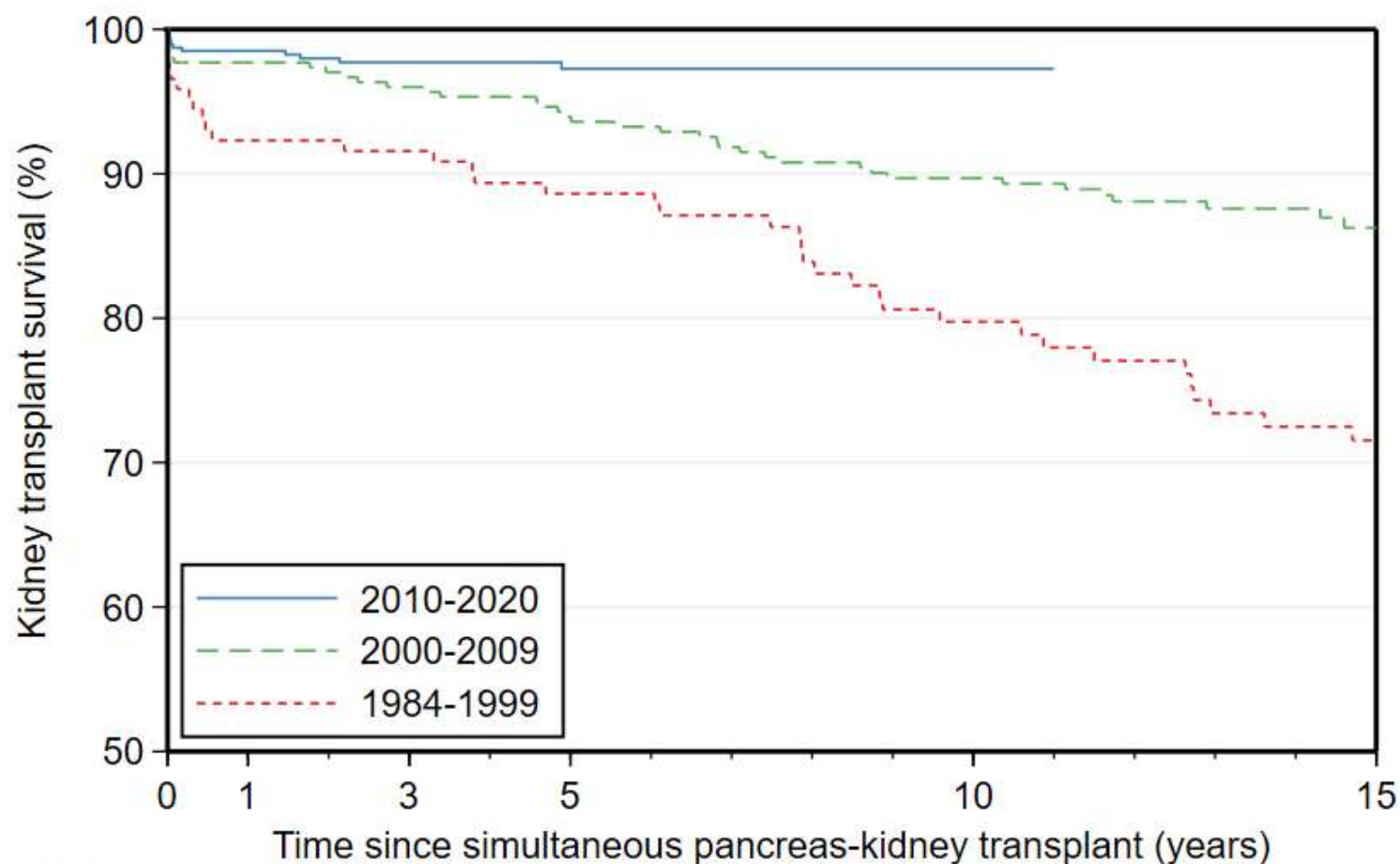
People alive with a functioning pancreas graft by year and state of residence



State/country of residence	2016	2017	2018	2019	2020
New South Wales	130	140	153	167	183
Victoria	154	167	184	191	205
Queensland	102	109	116	126	137
Western Australia	29	28	30	32	35
South Australia	37	40	47	50	53
Tasmania	24	25	27	29	29
Australian Capital Territory	14	15	15	15	15
Northern Territory	4	4	4	4	4
New Zealand	35	38	44	48	48
Total	529	566	620	662	709

Figure 2.13

Kidney graft survival among SPK recipients by era of transplantation (censored at death)



Year of transplant

2010-2020	474	410	312	213	29	0
2000-2009	305	293	283	272	238	115
1984-1999	147	129	125	119	93	75

Table 3.1a

Demographics and characteristics of pancreas donors



	Donors, n (column %)		
	2020	1984-2019	Total
Age category			
0-24	20 (41)	425 (47)	445 (46)
25-34	15 (31)	241 (26)	256 (27)
35-44	7 (14)	199 (22)	206 (21)
45+	0 (0)	33 (4)	33 (3)
Not reported	7 (14)	14 (2)	21 (2)
Sex			
Female	16 (33)	517 (57)	533 (55)
Male	29 (59)	384 (42)	413 (43)
Not reported	4 (8)	11 (1)	15 (2)
BMI (kg/m2)			
Underweight/Normal (<24.9)	29 (59)	575 (63)	604 (63)
Overweight (25-29.9)	15 (31)	283 (31)	298 (31)
Obese (30+)	2 (4)	36 (4)	38 (4)
Not reported	3 (6)	18 (2)	21 (2)
Total (row %)	49 (100)	912 (100)	961 (100)

Table 3.1b

Demographics and characteristics of pancreas donors



	Donors, n (column %)		
	2020	1984-2019	Total
Donor type			
Brain death (DBD)	42 (86)	893 (98)	935 (97)
Circulatory death (DCD)	3 (6)	18 (2)	21 (2)
Not reported	4 (8)	1 (<1)	5 (<1)
Donor mode of death			
Cerebral hypoxia/ischaemia	18 (37)	115 (13)	133 (14)
Cerebral infarct	1 (2)	17 (2)	18 (2)
Intracranial haemorrhage	10 (20)	239 (26)	249 (26)
Non-neurological condition	1 (2)	194 (21)	195 (20)
Other neurological condition	0 (0)	20 (2)	20 (2)
Traumatic brain injury	16 (33)	313 (34)	329 (34)
Not reported	3 (6)	14 (2)	17 (1)
Total (row %)	49 (100)	912 (100)	961 (100)

Table 3.1c

Demographics and characteristics of pancreas donors



	Donors, n (column %)		
	2020	1984-2019	Total
Alcohol consumption			
Never	27 (55)	670 (73)	697 (73)
Former	0 (0)	7 (<1)	7 (<1)
Current	10 (20)	60 (7)	70 (7)
Not reported	12 (24)	175 (19)	187 (19)
Smoking history			
Never	21 (43)	534 (59)	555 (58)
Former	2 (4)	37 (4)	39 (4)
Current	14 (29)	222 (24)	236 (25)
Not reported	12 (24)	119 (13)	131 (14)
Total (row %)	49 (100)	912 (100)	961 (100)

Table 3.1d

Demographics and characteristics of pancreas donors



	Donors, n (column %)		
	2020	1984-2019	Total
Donor's blood group			
O	17 (35)	461 (51)	478 (50)
A	22 (45)	338 (37)	360 (37)
B	5 (10)	87 (10)	92 (10)
AB	2 (4)	21 (2)	23 (2)
Not reported	3 (6)	5 (<1)	8 (<1)
Kidney biopsy			
Performed	12 (24)	202 (22)	214 (22)
Not performed	20 (41)	679 (74)	699 (73)
Not reported	17 (35)	31 (3)	48 (5)
Total (row %)	49 (100)	912 (100)	961 (100)

Table 3.1e

Demographics and characteristics of pancreas donors



	Donors, n (column %)		
	2020	1984-2019	Total
Cytomegalovirus (CMV)			
Positive	15 (31)	538 (59)	553 (58)
Negative	4 (8)	325 (36)	329 (34)
Not reported	30 (61)	49 (5)	79 (8)
Epstein-Barr virus (EBV)			
Positive	9 (18)	532 (58)	541 (56)
Negative	1 (2)	83 (9)	84 (9)
Not reported	39 (80)	293 (33)	336 (335)
Total (row %)	49 (100)	912 (100)	961 (100)

Table 3.3

Number of pancreas transplants by donor and recipient state of residence in Australia



Recipient state	Donor state (number of transplants)									Total
	NSW	VIC	QLD	WA	SA	TAS	ACT	NT	Not reported	
All years (1984-2020)	333	255	86	63	77	26	39	3	9	891
NSW	161	12	30	21	22	5	18	0	0	269
VIC	22	196	3	5	7	18	2	0	8	261
QLD	79	9	33	17	23	0	12	1	0	174
WA	21	5	13	12	5	1	2	0	0	59
SA	17	20	3	5	16	1	5	2	0	69
TAS	16	12	1	0	1	1	0	0	1	32
ACT	16	1	3	1	2	0	0	0	0	23
NT	1	0	0	2	1	0	0	0	0	4