

**NHS BLOOD & TRANSPLANT  
PANCREAS ADVISORY GROUP**

**NATIONAL PANCREAS OFFERING SCHEME**

**36 MONTH ACTIVITY SUMMARY -  
11 SEPTEMBER 2019 TO 10 SEPTEMBER 2022**

**INTRODUCTION**

1. The National Pancreas Offering Scheme was revised on 11 September 2019 to introduce a new top tier for patients. A review of the first year was presented at PAG in November 2020. The second 6-months of the scheme were severely affected by the COVID-19 pandemic and in the latest two years of the scheme activity is still recovering.
2. Between March and August 2020, pancreas transplantation was suspended for a period of time and as centres began reopening with selected patients, it was agreed to have a deviation from the offering scheme. Tier A patients were still given patient specific offers but organs were then fast tracked to centres for use in any of their listed patients. The deviation came to an end on 10 August 2020, when five centres were re-opened.
3. This paper summarises activity in the first 3 years of the scheme and is not a review of how the scheme is performing, due to the issues mentioned above.

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Statistics and Clinical Studies**

**November 2022**

## NATIONAL PANCREAS OFFERING SCHEME (2019)

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# PANCREAS TRANSPLANTATION

**Table 1.1 Overview of transplant activity, 11 September 2019 - 10 September 2022**

Transplant type		Donor type		Total
		DBD	DCD	
Vascularised pancreas	SPK	248	98	<b>346</b>
	PAK	11	5	<b>16</b>
	PTA	9	2	<b>11</b>
	<b>Total</b>	<b>268</b>	<b>105</b>	<b>373</b>
Pancreatic islet	Routine	20	5	<b>25</b>
	Priority	15	3	<b>18</b>
	SIK	11	5	<b>16</b>
	<b>Islet total</b>	<b>46</b>	<b>13</b>	<b>59</b>
<b>TOTAL</b>		<b>314</b>	<b>118</b>	<b>432</b>

**Table 1.2 Centre-specific transplant activity, 11 September 2018 - 10 September 2022**

Transplant centre	Previous year		NPOS 2019 (3 Year)					Donor type	
	N	(%)	N	(%)	Transplant type			DBD	DCD
					SPK	PAK	PTA		
<b>Vascularised pancreas</b>									
Cambridge	20	(12)	56	(15)	55	1	0	33	23
Cardiff	8	(5)	25	(7)	22	3	0	15	10
Edinburgh	16	(10)	42	(11)	42	0	0	31	11
Guy's	27	(16)	49	(13)	49	0	0	34	15
Manchester	34	(21)	57	(15)	48	5	4	41	16
Newcastle	7	(4)	14	(4)	12	1	1	12	2
Oxford	46	(28)	113	(30)	101	6	6	88	25
WLRTC	7	(4)	17	(5)	17	0	0	14	3
<b>Total</b>	<b>165</b>	<b>(100)</b>	<b>373</b>	<b>(100)</b>	<b>346</b>	<b>16</b>	<b>11</b>	<b>268</b>	<b>105</b>
<b>Pancreatic islet</b>									
	N	(%)	N	(%)	Routine	Priority	SIK	DBD	DCD
Bristol	0	-	0	-	0	0	0	0	0
Edinburgh	11	(38)	31	(53)	13	12	6	24	7
King's College	2	(7)	3	(5)	2	1	0	2	1
Manchester	9	(31)	10	(17)	0	2	8	6	4
Newcastle	4	(14)	9	(15)	7	2	0	9	0
Oxford	3	(10)	6	(10)	3	1	2	5	1
Royal Free	0	-	0	-	0	0	0	0	0
<b>Total</b>	<b>29</b>	<b>(100)</b>	<b>59</b>	<b>(100)</b>	<b>25</b>	<b>18</b>	<b>16</b>	<b>46</b>	<b>13</b>

**Table 1.3 Transplant demographics, 11 September 2018 - 10 September 2022**

Factor	Previous Year		NPAS 2019 results (year1)		NPAS 2019 results (year2)		NPAS 2019 results (year3)		
	N	(%)	N	(%)	N	(%)	N	(%)	
Number of transplants	194	(100)	145	(100)	129	(100)	158	(100)	
Waiting time (months)	0 to <3	34	(18)	27	(19)	26	(20)	13	(8)
	3 to <6	22	(11)	16	(11)	12	(9)	9	(6)
	6 to <12	39	(20)	29	(20)	14	(11)	26	(16)
	12 to <24	73	(38)	59	(41)	46	(36)	47	(30)
	24 to <36	17	(9)	10	(7)	24	(19)	49	(31)
	36 or more	9	(5)	4	(3)	7	(5)	14	(9)
Sensitisation (cRF%)	0 to <30	139	(72)	99	(68)	99	(77)	115	(73)
	30 to <75	34	(18)	30	(21)	18	(14)	31	(20)
	75 to <100	20	(10)	15	(10)	10	(8)	11	(7)
	100	1	(1)	1	(1)	2	(2)	1	(1)
Matchability Score	1-3	40	(21)	69	(48)	66	(51)	84	(53)
	4-7	111	(57)	67	(46)	54	(42)	67	(42)
	8-10	43	(22)	9	(6)	9	(7)	7	(4)
Total HLA mismatch (A,B,DR)	0 to 4	162	(84)	114	(79)	98	(76)	123	(78)
	5 or 6	32	(16)	31	(21)	31	(24)	35	(22)
Centre location	Closest three	128	(66)	79	(54)	66	(51)	91	(58)
	Other	66	(34)	66	(46)	63	(49)	67	(42)
On dialysis	Yes	115	(59)	64	(44)	66	(51)	89	(56)
	No	79	(41)	81	(56)	63	(49)	69	(44)

**Table 1.3 Transplant demographics, 11 September 2018 - 10 September 2022**

Factor		Previous Year		NPAS 2019 results (year1)		NPAS 2019 results (year2)		NPAS 2019 results (year3)	
		N	(%)	N	(%)	N	(%)	N	(%)
Transplant type	SPK	150	(77)	119	(82)	101	(78)	126	(80)
	PAK, PTA	15	(8)	8	(6)	5	(4)	14	(9)
	Routine islet	8	(4)	9	(6)	12	(9)	4	(3)
	Priority islet	12	(6)	7	(5)	4	(3)	7	(4)
	SIK	9	(5)	2	(1)	7	(5)	7	(4)
Recipient sex	Male	116	(60)	67	(46)	67	(52)	88	(56)
	Female	78	(40)	78	(54)	62	(48)	70	(44)
Recipient blood group	O	87	(45)	63	(43)	47	(36)	61	(39)
	A	81	(42)	55	(38)	53	(41)	71	(45)
	B	18	(9)	22	(15)	20	(16)	21	(13)
	AB	8	(4)	5	(3)	9	(7)	5	(3)
Recipient age (years)	Less than 30	13	(7)	8	(6)	6	(5)	11	(7)
	30 to <40	51	(26)	54	(37)	39	(30)	66	(42)
	40 to <50	68	(35)	47	(32)	42	(33)	39	(25)
	50 to <60	56	(29)	29	(20)	33	(26)	36	(23)
	60 or older	6	(3)	7	(5)	9	(7)	6	(4)
Recipient ethnicity	White	166	(86)	123	(85)	110	(85)	143	(91)
	Asian	7	(4)	9	(6)	8	(6)	8	(5)
	Black	16	(8)	10	(7)	9	(7)	4	(3)
	Other	4	(2)	3	(2)	2	(2)	2	(1)
	Unknown	1	(1)	0	-	0	-	1	(1)
Offer Tier	New KOS Tier A	4	(2)	2	(1)	3	(2)	1	(1)
	New POS Tier A	9	(5)	4	(3)	8	(6)	14	(9)
	New POS Tier B	180	(93)	136	(94)	116	(90)	134	(85)
	Other	1	(1)	3	(2)	2	(2)	9	(6)

**Table 1.4 Median waiting time by transplant demographics,  
11 September 2019 - 10 September 2022**

Factor		N	Waiting Times (days)	
			Median	IQ Range
Sensitisation (cRF%)	0 to <30	313	439	160 - 711
	30 to <75	79	534	252 - 760
	75 to <100	36	549	302 - 920
	100	4	-	-
Matchability Score	1-3	219	423	159 - 711
	4-7	188	527	201 - 773
	8-10	25	635	329 - 926
Total HLA mismatch (A,B,DR)	0 to 4	335	485	234 - 720
	5 or 6	97	369	109 - 891
Centre location	Closest three	236	433	197 - 689
	Other	196	509	182 - 785
On dialysis	Yes	219	524	197 - 795
	No	213	412	185 - 683
Transplant type	SPK	346	520	251 - 771
	PAK, PTA	27	237	72 - 644
	Routine islet	25	345	109 - 667
	Priority islet	18	174	92 - 234
	SIK	16	267	68 - 562
Recipient sex	Male	222	494	206 - 729
	Female	210	416	157 - 749
Recipient blood group	O	171	635	280 - 882
	A	179	377	126 - 558
	B	63	604	249 - 1010
	AB	19	183	120 - 412
Recipient age (years)	Less than 30	25	329	154 - 693
	30 to <40	159	463	206 - 797
	40 to <50	128	483	135 - 690
	50 to <60	98	529	285 - 760
	60 or older	22	366	92 - 604
Recipient ethnicity	White	376	478	199 - 728
	Asian	25	488	154 - 875
	Black	23	299	42 - 653
	Other	7	-	-
	Unknown	1	-	-

Data not presented where less than 10 patients included

**Table 1.5 Blood group matching, 11 September 2019 - 10 September 2022**

Donor blood group	Recipient blood group								TOTAL	
	O		A		B		AB		N	(%)
O	171	(86)	10	(5)	16	(8)	3	(2)	<b>200</b>	<b>(46)</b>
A	0		169	(98)	0		3	(2)	<b>172</b>	<b>(40)</b>
B	0		0		47	(100)	0		<b>47</b>	<b>(11)</b>
AB	0		0		0		12	(100)	<b>12</b>	<b>(3)</b>
Unknown	0		0		0		1	(100)	<b>1</b>	<b>(0)</b>
<b>TOTAL</b>	<b>171</b>	<b>(40)</b>	<b>179</b>	<b>(41)</b>	<b>63</b>	<b>(15)</b>	<b>19</b>	<b>(4)</b>	<b>432</b>	<b>(100)</b>

Of the 33 non-identical transplants, 14 were patients in Tier A of KOS or POS

**Table 1.6 Donor BMI by transplant type, 11 September 2019 - 10 September 2022**

Donor BMI (kg/m <sup>2</sup> )	Transplant type				TOTAL
	Vascularised pancreas		Pancreatic islet		N
Less than 23	184	(49)	2	(3)	186
23 to <26	115	(31)	11	(19)	126
26 to <29	59	(16)	17	(29)	76
29 to <31	14	(4)	9	(15)	23
31 or over	1	(0)	20	(34)	21
<b>TOTAL</b>	<b>373</b>	<b>(100)</b>	<b>59</b>	<b>(100)</b>	<b>432</b>

Please note: Those islet transplants where donor BMI <25kg/m<sup>2</sup>, the donor age was ≥25 years

**Table 1.7 Donor age by transplant type, 11 September 2019 - 10 September 2022**

Donor age (years)	Transplant type				TOTAL
	Vascularised pancreas		Pancreatic islet		N
Less than 25	133	(36)	6	(10)	139
25 to <30	54	(14)	4	(7)	58
30 to <40	63	(17)	8	(14)	71
40 to <50	88	(24)	17	(29)	105
50 or older	35	(9)	24	(41)	59
<b>TOTAL</b>	<b>373</b>	<b>(100)</b>	<b>59</b>	<b>(100)</b>	<b>432</b>

Please note: Those islet transplants where donor age was <25 years, the donor BMI ≥25kg/m<sup>2</sup>



Figure 1.8 Centre-specific cold ischaemia time - vascularised pancreas (DBD)  
(CIT reported on pancreas transplant record form)

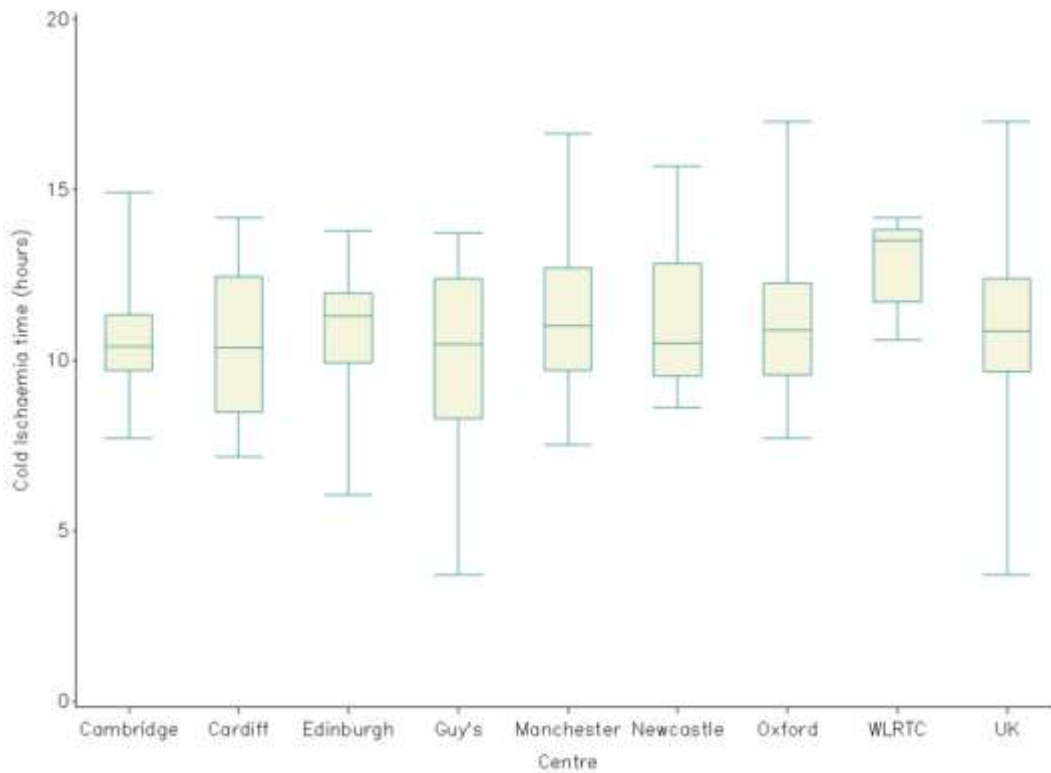
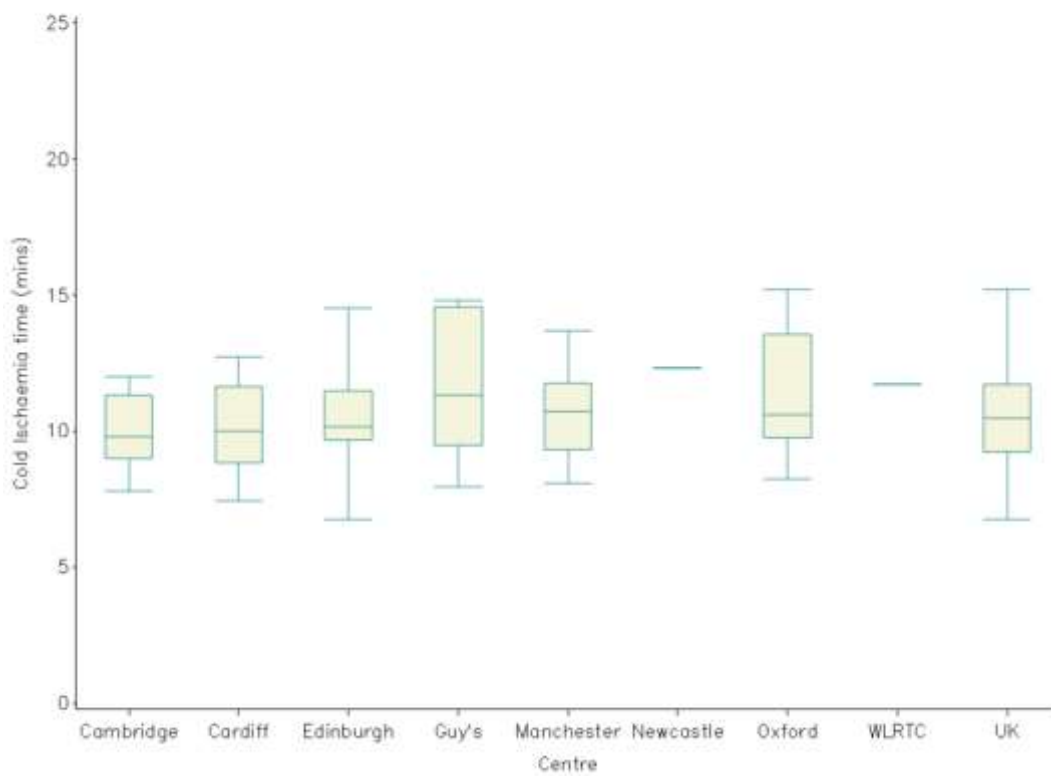


Figure 1.9 Centre-specific cold ischaemia time - vascularised pancreas (DCD)  
(CIT reported on pancreas transplant record form)



# **PANCREAS TRANSPLANT LIST & WAITING TIMES**

**Table 2.1 Overview of the national and centre specific transplant list, as at 1 September 2019 and 1 September 2022**

Transplant centre	1 Sep 2019		1 Sep 2022				
	N	(%)	N	(%)	Transplant type		
					SPK	PAK	PTA
<b>Vascularised pancreas</b>							
Cambridge	12	(6)	13	(5)	13	0	0
Cardiff	13	(6)	6	(2)	6	0	0
Edinburgh	33	(15)	36	(14)	36	0	0
Guy's	25	(12)	27	(11)	27	0	0
Manchester	29	(13)	75	(29)	74	0	1
Newcastle	6	(3)	17	(7)	15	0	2
Oxford	86	(40)	76	(30)	73	1	2
WLRTC	12	(6)	5	(2)	5	0	0
<b>Total</b>	<b>216</b>	<b>(100)</b>	<b>255</b>	<b>(100)</b>	<b>249</b>	<b>1</b>	<b>5</b>
<b>Pancreatic islet</b>	<b>N</b>	<b>(%)</b>	<b>N</b>	<b>(%)</b>	<b>Routine</b>	<b>Priority</b>	<b>SIK</b>
Bristol	0	-	0	-	0	0	0
Edinburgh	9	(21)	7	(27)	5	1	1
King's College	3	(7)	0	(0)	0	0	0
Manchester	19	(44)	9	(35)	0	1	8
Newcastle	6	(14)	8	(31)	7	1	0
Oxford	4	(9)	2	(8)	2	0	0
Royal Free	2	(5)	0	(0)	0	0	0
<b>Total</b>	<b>43</b>	<b>(100)</b>	<b>26</b>	<b>(100)</b>	<b>14</b>	<b>3</b>	<b>9</b>

**Table 2.2 Transplant list demographics, 1 September 2019 and 1 September 2022**

Factor		1 Sep 2019		Current (1 Sep 2022)		New Registrations	
		N	(%)	N	(%)	N	(%)
Time listed (months) <sup>1</sup>	0 to <3	66	(25)	40	(14)	214	(29)
	3 to <6	37	(14)	38	(14)	134	(18)
	6 to <12	74	(29)	77	(27)	201	(28)
	12 to <24	58	(22)	103	(37)	168	(23)
	24 to <36	12	(5)	14	(5)	9	(1)
	36 or more	12	(5)	9	(3)	-	-
Sensitisation (cRF%)	0 to <30	160	(62)	191	(68)	600	(83)
	30 to <75	43	(17)	52	(19)	83	(11)
	75 to <100	39	(15)	29	(10)	37	(5)
	100	17	(7)	9	(3)	6	(1)
Matchability Score	1-3	39	(15)	138	(49)	366	(50)
	4-7	133	(51)	108	(38)	294	(40)
	8-10	87	(34)	35	(12)	56	(8)
	Not known <sup>2</sup>	0	(0)	0	(0)	10	(1)
On dialysis	Yes	95	(37)	143	(51)	386	(53)
	No	164	(63)	138	(49)	340	(47)
Transplant type	SPK	201	(78)	249	(89)	596	(82)
	PAK, PTA	15	(6)	6	(2)	30	(4)
	Routine islet	23	(9)	14	(5)	36	(5)
	Priority islet	3	(1)	3	(1)	30	(4)
	SIK	17	(7)	9	(3)	34	(5)
Recipient sex	Female	132	(51)	133	(47)	339	(47)
	Male	127	(49)	147	(52)	386	(53)
	Not known	0	(0)	1	(0)	1	(0)
Recipient blood group	O	130	(50)	149	(53)	336	(46)
	A	75	(29)	96	(34)	284	(39)
	B	45	(17)	34	(12)	85	(12)
	AB	9	(3)	2	(1)	21	(3)
Recipient age (years)	Less than 30	18	(7)	14	(5)	56	(8)
	30 to <40	71	(27)	105	(37)	273	(38)
	40 to <50	77	(30)	88	(31)	229	(32)
	50 to <60	76	(29)	67	(24)	143	(20)
	60 or older	17	(7)	7	(2)	25	(3)
Recipient ethnicity	Asian	19	(7)	11	(4)	11	(4)
	Black	13	(5)	6	(2)	12	(4)
	White	221	(85)	230	(92)	254	(90)
	Other	6	(2)	2	(1)	3	(1)
	Unknown	0	(0)	0	(0)	1	(0)
Offering Tier	New KOS Tier A	15	(6)	6	(2)	6	(1)
	New POS Tier A	7	(3)	4	(1)	2	(0)
	Other	237	(92)	271	(96)	718	(99)

<sup>1</sup> New registrations: active waiting time only

<sup>2</sup> Matchability score not calculated as patients were active for less than a day.

**Table 2.3 Median waiting time on the list by demographics, as at 1 September 2019 and 1 September 2022**

Factor		1 Sep 2019			1 Sep 2022		
		N	Median	IQ Range	N	Median	IQ Range
All patients		259	228	89 - 416	281	334	162 - 499
Sensitisation (cRF%)	0 to <30	160	203	77 - 363	191	324	142 - 464
	30 to <75	43	198	89 - 436	52	322	150 - 518
	75 to <100	39	330	172 - 520	29	349	211 - 544
	100	17	820	389 - 1557	9	1916	509 - 2709
Matchability Score	1-3	39	201	73 - 368	138	323	140 - 495
	4-7	133	207	79 - 402	108	327	170 - 466
	8-10	87	296	156 - 585	35	476	211 - 643
On dialysis	Yes	95	277	107 - 472	143	356	163 - 505
	No	164	203	79 - 371	138	307	155 - 475
Transplant type	SPK	201	220	82 - 402	249	335	162 - 477
	PAK, PTA	15	233	30 - 585	6	872	330 - 2709
	Routine islet	23	474	176 - 726	14	280	168 - 582
	Priority islet	3	105	61 - 228	3	264	116 - 288
	SIK	17	267	107 - 549	9	406	57 - 524
Recipient sex	Female	132	287	136 - 486	133	356	189 - 530
	Male	127	198	61 - 387	147	303	141 - 462
	Not known	0	0		1	230	230 - 230
Recipient blood group	O	130	231	94 - 411	149	351	189 - 546
	A	75	212	73 - 409	96	323	140 - 452
	B	45	289	144 - 528	34	273	140 - 434
	AB	9	166	43 - 267	2	316	232 - 399
Recipient age (years)	Less than 30	18	166	68 - 311	14	322	84 - 572
	30 to <40	71	221	50 - 416	105	330	140 - 447
	40 to <50	77	205	75 - 359	88	360	170 - 533
	50 to <60	76	273	100 - 486	67	334	176 - 512
	60 or older	17	340	115 - 520	7	264	188 - 495
Recipient ethnicity	Asian	19	213	129 - 359	11	384	106 - 533
	Black	13	326	207 - 411	12	248	105 - 409
	White	221	222	80 - 416	254	337	168 - 502
	Other	6	227	99 - 486	3	170	155 - 1916
	Unknown	0	0		1	222	222 - 222
Centre	Cambridge	12	122	40 - 253	13	114	92 - 261
	Cardiff	13	416	201 - 449	6	174	120 - 211
	Edinburgh	42	314	99 - 520	43	385	190 - 533
	Guy's	25	106	47 - 372	27	378	274 - 435
	King's College	3	228	199 - 596	0	0	
	Manchester	48	126	58 - 339	84	342	165 - 503
	Newcastle	12	359	180 - 1136	25	419	189 - 643
	Oxford	90	225	89 - 407	78	334	142 - 512
	Royal Free	2	444	373 - 515	0	0	
	WLRTC	12	270	183 - 418	5	222	195 - 294
Offering Tier	New KOS Tier A	15	549	354 - 1138	6	1213	497 - 2234
	New POS Tier A	7	1250	228 - 1613	4	2234	1209 - 3300
	Other	237	213	80 - 394	271	330	154 - 477

# **OFFERING, RETRIEVAL AND ORGAN USE**

**Table 3.1 Overall use of pancreases from solid organ donors, 11 September 2018 to 10 September 2022**

	<b>Solid organ donors</b>	<b>SPC<sup>1</sup> donors</b>	<b>Offered</b>		<b>Accepted</b>		<b>Pancreas Retrieved</b>		<b>Transplanted</b>		<b>Conversion %</b>
			N	(%)	N	(%)	N	(%)	N	(%)	
<b>Donations after brain death</b>											
NPOS Yr 1	888	721	547	(76)	277	(51)	225	(81)	106	(47)	19
NPOS Yr 2	766	625	477	(76)	267	(56)	200	(75)	100	(50)	21
NPOS Yr 3	763	601	430	(72)	279	(65)	214	(77)	110	(51)	26
Previous year	909	696	598	(86)	389	(65)	332	(85)	144	(43)	24
<b>Donations after cardiac death</b>											
NPOS Yr 1	509	279	210	(75)	111	(53)	81	(73)	39	(48)	19
NPOS Yr 2	516	270	218	(81)	102	(47)	72	(71)	29	(40)	13
NPOS Yr 3	631	291	239	(82)	133	(56)	108	(81)	50	(46)	21
Previous year	664	297	249	(84)	146	(59)	109	(75)	50	(46)	20

<sup>1</sup> Standard pancreas criteria (SPC) donors have been defined as those aged 65 years or less for DBD and 55 years or less for DCD

**Table 3.2 Use of pancreases from solid organ donors, 11 September 2018 to 10 September 2022**

	Solid organ donors	SPC <sup>1</sup> donors	Offered		Whole Pancreas				Transplanted	
			N	(%)	Accepted N	(%)	Retrieved N	(%)	N	(%)
<b>Donations after brain death</b>										
NPOS Yr 1	888	721	486	(67)	223	(46)	176	(79)	93	(53)
NPOS Yr 2	766	625	423	(68)	195	(46)	146	(75)	80	(55)
NPOS Yr 3	763	601	396	(66)	224	(57)	173	(77)	97	(56)
Previous year	909	696	518	(74)	280	(54)	241	(86)	118	(49)
<b>Donations after cardiac death</b>										
NPOS Yr 1	509	279	193	(69)	92	(48)	67	(73)	34	(51)
NPOS Yr 2	516	270	211	(78)	84	(40)	63	(75)	26	(41)
NPOS Yr 3	631	291	226	(78)	116	(51)	94	(81)	45	(48)
Previous year	664	297	226	(76)	119	(53)	95	(80)	47	(49)
	Solid organ donors	SPIC <sup>2</sup> donors	Offered		Pancreas Islets				Transplanted	
			N	(%)	Accepted N	(%)	Retrieved N	(%)	N	(%)
<b>Donations after brain death</b>										
NPOS Yr 1	888	642	205	(32)	72	(35)	49	(68)	13	(27)
NPOS Yr 2	766	536	258	(48)	87	(34)	54	(62)	20	(37)
NPOS Yr 3	763	518	224	(43)	71	(32)	41	(58)	13	(32)
Previous year	909	613	274	(45)	129	(47)	91	(71)	26	(29)
<b>Donations after cardiac death</b>										
NPOS Yr 1	509	213	72	(34)	21	(29)	14	(67)	5	(36)
NPOS Yr 2	516	196	90	(46)	19	(21)	9	(47)	3	(33)
NPOS Yr 3	631	223	107	(48)	20	(19)	14	(70)	5	(36)
Previous year	664	220	98	(45)	28	(29)	14	(50)	3	(21)

<sup>1</sup> Standard pancreas criteria (SPC) donors have been defined as those aged 65 years or less for DBD and 55 years or less for DCD

<sup>2</sup> Standard pancreas islet criteria (SPIC) donors have been defined as those aged 60 years or less for DBD and 50 years or less for DCD



Figure 3.3 Review of islet isolations performed  
11 September 2019 – 10 September 2022

