Analysis of available data:

ABCP Perfusion Workforce Anticipated Retirement Survey: 2016 - 2017
vs.
CAAHEP/AC-PE Perfusion School Enrollment/Graduate Data

Figure 1: Anticipated perfusionist retirement per year vs. number of anticipated graduates.

Anticipated Year of Retirement	Number of Perfusionists Anticipating Retirement	Number anticipated graduates	Net Gain or Loss
2018	103	185	+82
2019	93	185	+92
2020	160	185	+25
2021	71	185	+114
2022	151	185	+34
2023	82	185	+103
2024	67	185	+118
2025	143	185	+42
2026	35	185	+150
2027	214	185	-29
	1119	1850	**+731**

*Number of perfusionists anticipating retirement per year based on ABCP 2016 – 2017 Workforce Survey Results. http://www.abcp.org/wkforce.htm

*Number of anticipated graduates obtained from CAAHEP AC-PE Annual Report Outcome Database (obtained via private communication). Number of graduates is based on an 85% graduation rate of the projected 214 students admitted to perfusion school per year. This doesn't take into account the number of graduates who don't pursue a clinical perfusionist position, between 0 and 8 graduates per year.

Figure 2: CAAHEP Annual Report Data for perfusion school admission, graduation and employment.

Year	# Admitted	# graduated	# employed	Graduation rate
2008	128	106	98	82.81
2009	131	114	89	87.02
2010	124	106	99	85.48
2011	142	124	118	87.32
2012	147	130	123	88.44
2013	159	139	135	87.42
2014	157	134	133	86.84
2015	170	151	150	88.82
2016	178	164	161	92.14

Figure 3: 2018 – 2020 admissions and graduates

Year	Admitted Students	Anticipated Graduates
2018	204	185
2019	214	185
2020	214	185

*185 anticipated graduates in figure 3 assumes approximately an 85% graduation rate.

*Figure 3 data obtained from a survey of perfusion program directors.

Figure 4: ABCP 2016 – 2017 Workforce Survey Results.
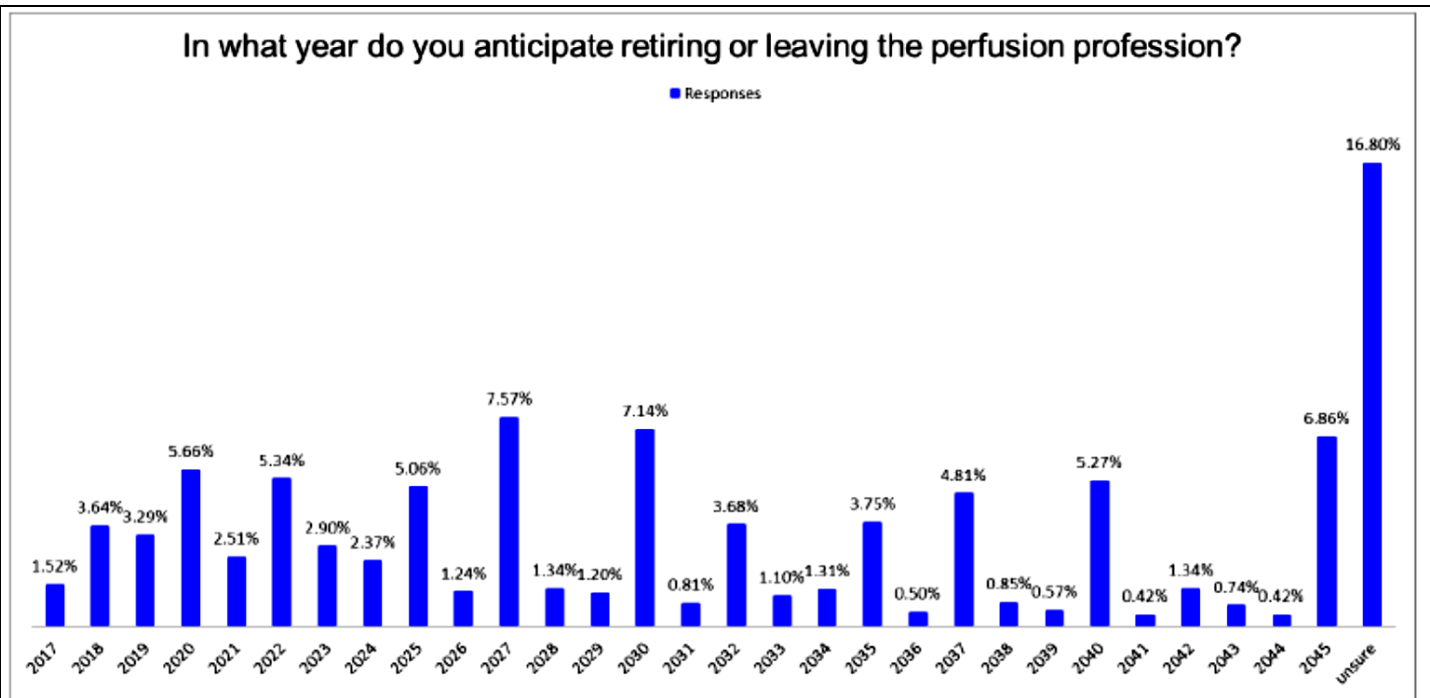
In what year do you anticipate retiring or leaving the perfusion profession?

Answer Choices	Responses		Answer Choices	Responses		Answer Choices	Responses	
2017	1.52%	43	2028	1.34%	38	2039	0.57%	16
2018	3.64%	103	2029	1.20%	34	2040	5.27%	149
2019	3.29%	93	2030	7.14%	202	2041	0.42%	12
2020	5.66%	160	2031	0.81%	23	2042	1.34%	38
2021	2.51%	71	2032	3.68%	104	2043	0.74%	21
2022	5.34%	151	2033	1.10%	31	2044	0.42%	12
2023	2.90%	82	2034	1.31%	37	2045	6.86%	194
2024	2.37%	67	2035	3.75%	106	unsure	16.80%	475
2025	5.06%	143	2036	0.50%	14	**Answered**		**2828**
2026	1.24%	35	2037	4.81%	136	**Skipped**		**398**
2027	7.57%	214	2038	0.85%	24			

*2828 responses with 475 of that 2828 unsure of retirement date and 398 perfusionists who skipped the question.

*About 75% of the 4200 licensed perfusionists in 2017 answered, were unsure of, or skipped the question. Therefore, these yearly numbers may be slightly lower than actual.

Figure 5: 2018 ABCP Annual Report – Recertification update

2018 RECERTIFICATION RESULTS UPDATE

A total of 3939 CCPs recertified in August of 2018. An additional 63 candidates completed the certification process in the spring of 2018 and an additional 154 completed the certification process in the fall of 2018 for a total of 4,153. Including 100 CCPs on conditional certification and 67 CCPs on extension, there are currently 4,323 Certified Clinical Perfusionists. A total of 69 perfusionists lost certification December 31, 2018.

Following is a chart that depicts the certification and recertification trends for the past 19 years.

YEAR	TOTAL RECERTS	SPRING CERTS	FALL CERTS	NEW CERTS	PROBATION/ EXTENDED LEAVE	EXTENSION	TOTAL CERTIFIED	LOST CERTS
2000	3073	71	71	142	118	42	3375	83
2001	3120	80	60	140	120	45	3425	86
2002	3158	78	82	160	108	49	3475	103
2003	3238	75	77	152	110	43	3543	73
2004	3279	74	54	128	124	45	3576	95
2005	3302	52	67	119	148	40	3609	84
2006	3328	75	73	148	135	46	3657	89
2007	3396	83	44	127	127	32	3682	89
2008	3403	47	102	149	129	51	3732	96
2009	3464	64	51	115	108	68	3755	83
2010	3490	68	69	137	127	57	3811	72
2011	3562	57	61	118	93	71	3844	73
2012	3595	76	83	159	111	54	3919	79
2013	3669	53	108	161	88/11	58	3987	80
2014	3724	55	101	156	95/13	66	4054	84
2015	3758	44	141	185	127/12	53	4135	76
2016	3819	36	134	170	100/13	81	4183	120
2017	3876	58	114	172	90/7	89	4234	119
2018	3939	63	154	217	87/13	67	4323	69

Figure 6: 2018 ABCP Annual Report data – new certs vs lost certs, 2012 through 2018

Year	New Certs	Lost Certs	Net Gain or Loss
2012	159	79	+80
2013	161	80	+81
2014	156	84	+72
2015	185	76	+109
2016	170	120	+50
2017	172	119	+53
2018	217	69	+148

Figure 7: "doomsday scenario" where more than half of the certified perfusionists in the United States leave the profession in the next ten years. We would be down a total of around 380 perfusionists compared to present.

Anticipated Year of Retirement	Number of Perfusionists Anticipating Retirement - Manpower Survey #, Doubled	Number anticipated graduates	Net Gain or Loss
2018	206	185	-21
2019	186	185	-1
2020	320	185	-135
2021	142	185	+43
2022	302	185	-117
2023	164	185	+21
2024	134	185	+51
2025	286	185	-101
2026	70	185	+115
2027	428	185	-243
	2238 (over half of the total perfusionists in America)	1850	**-388**