Illustration of Model for Estimating Number of Students Registering for APPIC Match

Assuming 0% program growth after 2014

Entering Classes of Clinical Programs, 2007 to 2013 from Program C-20 Data

Total entering class for 2013 year, all accredited clinical programs participating in the APPIC match

	13Entering Class	13No Longer Enrolled	13 Est After Attrition	12Entering Class	12No Longer Enrolled	12 Est After Attrition	11Entering Class	11No Longer Enrolled	11 Est After Attrition	10Entering Class	10No Longer Enrolled	10 Est After Attrition	09Entering Class	09No Longer Enrolled	09 Est After Attrition	08Entering Class	08No Longer Enrolled	08 Est After Attrition	07Entering Class	07No Longer Enrolled	07 Est After Attrition
	3235	304	2788	3264	205	2816	3405	351	2932	3635	547	3099	3669	537	3123	3742	606	3192	3728	632	3161
Total Attrition Rate		0.14			0.14			0.14			0.15			0.15			0.15			0.15	

Estimate based on 2007-2009 attrition

Total seeking internship after attrition correction of 14%

Matrix of Application Fractions from APPIC Survey Data

Year Entered Program	Net	Peak Match Year		2009 Match	2010 Match	2011 Match	2012 Match	2013 Match	2014 Match	2015 Match	2016 Match	2017 Match	2018 Match	2019 Match	2020 Match
2007	3,161	2011		0.01	0.13	0.44	0.28	0.10	0.03	0.01	0.00	0.00	0.00		
2008	3,192	2012			0.01	0.13	0.44	0.28	0.10	0.03	0.01	0.00	0.00	0.00	
2009	3,123	2013				0.01	0.13	0.44	0.28	0.10	0.03	0.01	0.00	0.00	0.00
2010	3,099	2014					0.01	0.13	0.44	0.28	0.10	0.03	0.01	0.00	0.00
2011	2,932	2015						0.01	0.13	0.44	0.28	0.10	0.03	0.01	0.00
2012	2,816	2016							0.01	0.13	0.44	0.28	0.10	0.03	0.01
2013	2,788	2017								0.01	0.13	0.44	0.28	0.10	0.03
2014	2,788	2018									0.01	0.13	0.44	0.28	0.10
2015	2,788	2019										0.01	0.13	0.44	0.28
2016	2,788	2020											0.01	0.13	0.44
2017	2,788	2021												0.01	0.13
2018	2,788	2022													0.01
		Fraction Totals		0.01	0.14	0.57	0.86	0.96	0.99	0.99	1.00	1.00	1.00	1.00	1.00

Year in which peak number of students will enter the match

Fraction of entering class expected to enter each match - e.g., 28% would enter the 2012 match - from APPIC post-match survey data

Fraction of total set of students seeking internship for this year that are represented in this sample

Net seeking internships after attrition correction; projected at 0% growth after 2013

Entered Program	2009 Match	2010 Match	2011 Match	2012 Match	2013 Match	2014 Match	2015 Match	2016 Match	2017 Match	2018 Match	2019 Match	2020 Match
2007	30	402	1,384	888	317	94	26	11	5	4	-	-
2008	-	30	406	1,398	897	320	95	27	11	5	4	-
2009	-	-	29	397	1,367	878	313	93	26	11	5	4
2010	-	-	-	29	394	1,357	871	311	92	26	11	5
2011	-	-	-	-	27	373	1,284	824	294	87	24	10
2012	-	-	-	-	-	26	358	1,233	792	282	84	23
2013	-	-	-	-	-	-	26	354	1,221	783	280	83
2014	-	-	-	-	-	-	-	26	354	1,221	783	280
2015	-	-	-	-	-	-	-	-	26	354	1,221	783
2016	-	-	-	-	-	-	-	-	-	26	354	1,221
2017	-	-	-	-	-	-	-	-	-	-	26	354
2018	-	-	-	-	-	-	-	-	-	-	-	26
Subtotal	1,819	2,712	3,003	3,047	2,973	2,879	2,821	2,800	2,792	2,789		
Corrected by Fraction:												
Total Seeking Internships	3,167	3,170	3,142	3,093	2,992	2,887	2,824	2,800	2,792	2,789		
Corrected By Participation Rate		2,812	2,831	2,787	2,696	2,659	2,658	2,660	2,652	2,650		
Participation Rate		0.887	0.901	0.901	0.901	0.921	0.941	0.95	0.95	0.95		
By Reapplication Rate		**3,122**	**3,142**	**3,079**	**2,979**	**2,938**	**2,817**	**2,793**	**2,785**	**2,782**		
Reapplication Rate		1.11	1.11	1.105	1.105	1.105	1.06	1.05	1.05	1.05		
APPIC Actual		**3,138**	**3,162**	**3,089**								
non-participating				306	296	228	167	140	140	139		

Product of total seeking internship and fraction expected to apply for each match year - see green line for example: .28 x 3,192 = 897

Subtotal is divided by fraction of applicants represented in matrix: e.g., 2,712/.86 = 3,170 - see green line

Not all students seeking internships participate in the APPIC match. The total seeking is multiplied by the overall participation rate for all clinical programs, projected to increase to 95% by 2018; this reduces the expected number of registrants

Students not placing in previous years apply again; rate from APPIC post-match survey; projected to decrease to 5% by 2018; this increases the expected registrants

Final projection of APPIC registrants

Actual number of registrants from APPIC 2011-2014 data

Number projected to remain outside the APPIC match