

The National Residency Matching Program Results for 2006: Recruitment Shifts to the PG1 Year.

Submitted for May 2006 ASA Newsletter

Alan W. Grogono, M.D., F.R.C.A.,

Introduction: The fourteenth annual report about the anesthesiology results of the National Residency Matching Program (NRMP) shows a change in the pattern of recruitment. There is a significant increase in 1) the number recruited to the PG1 year and 2) the number of US senior medical students recruited..

NRMP Results (Table 1 and Figure 1): This year a total of 1,287 were recruited via the Match, an increase in recruitment of 4.6 percent. This is the greatest total recruited into anesthesiology via the Match and exceeds the 2003 peak by 76 and the 1992 peak by 261. The number of graduating US allopathic seniors matching into anesthesiology had changed little from 2002 – 2005 (Figure 2). This year (Table 2) saw a 13.5% increase of 134 from 916 to 1040. Anesthesiology attracted 6.93% of the total candidates in the match, the largest number ever, and the largest percentage ever.

From 1996 to 2002, apart from US allopathic seniors, the sum of the other groups who were matching into anesthesiology averaged 230 + or – 37 (SD). Then from 2003 to 2005 the number rose to 284, 303, 314. In 2006 this number diminished to 247, not far from the previous average (Table 3 and Figure 3).

Year	PG1 Positions			CA1 Positions			Sum of PG1 + CA1			
	Students	All	Avail	Students	All	Avail	Students	All	Avail	Unfilled
1990	251	264	321	642	693	822	937	957	1143	186
1991	247	266	329	698	751	963	937	1017	1292	275
1992	244	273	352	682	752	1020	926	1025	1372	347
1993	199	235	325	632	708	1094	832	930	1419	456
1994	163	191	297	542	634	1022	705	825	1319	470
1995	93	136	241	330	400	902	423	536	1143	607
1996	43	113	234	126	211	712	169	324	946	622
1997	80	197	317	173	300	677	253	497	994	497
1998	118	246	347	270	399	661	388	645	1008	363
1999	137	255	376	288	401	671	425	656	1047	391
2000	171	291	349	378	510	656	549	801	1005	204
2001	237	332	371	476	641	733	713	973	1104	131
2002	307	375	392	597	737	777	904	1112	1169	57
2003	321	415	431	606	796	833	927	1211	1264	53
2004	322	414	443	575	786	846	897	1200	1289	89
2005	326	439	463	590	791	820	916	1230	1283	53
2006	451	539	552	589	748	759	1040	1287	1311	24

Table 1: Match Results for Anesthesiology 1990 - 2006.

"Students" are graduating seniors from US Allopathic Medical Schools.

"All" includes every category listed in Table 3.

"Avail" represents the number of positions offered via the Match.

"Unfilled" represents the difference between "Available" and "All".

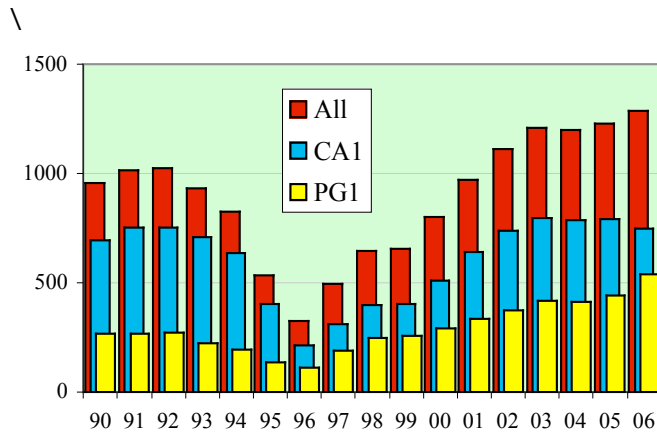


Figure 1: Total recruitment into anesthesiology via the NRMP during the years 1990 to 2006. The three columns represent the numbers recruited into the PG1 year, the CA1 year and the total.

Figure 2: Graduating US Seniors recruited into anesthesiology during the years 1990 to 2006. The three columns represent the numbers recruited into the PG1 year, the CA1 year and the total.

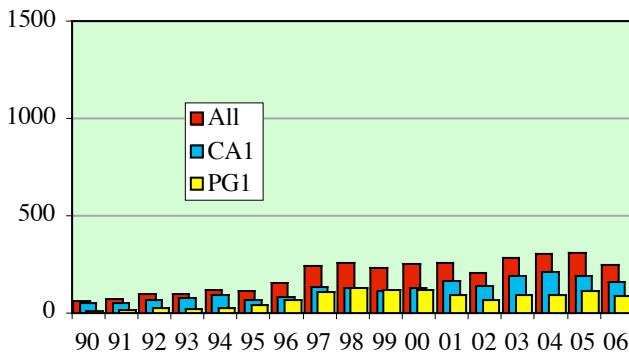
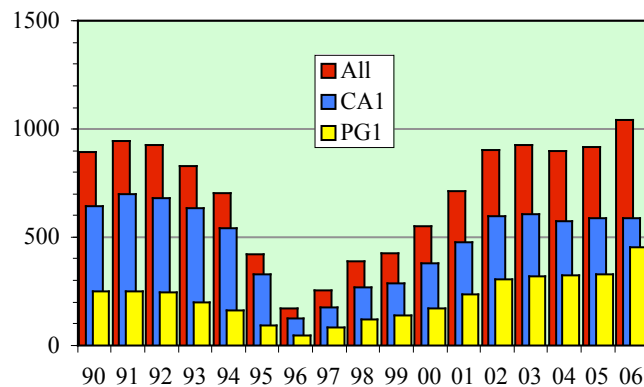
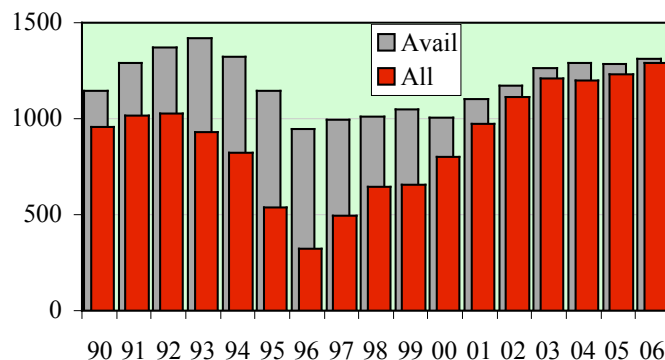


Figure 3: Recruits other than US allopathic seniors matching into anesthesiology during the years 1990 to 2006. The three columns represent the numbers recruited into the PG1 year, the CA1 year and the total.

Figure 4: Number of places available (Avail) vs. total number recruited (All) during 1990 to 2006



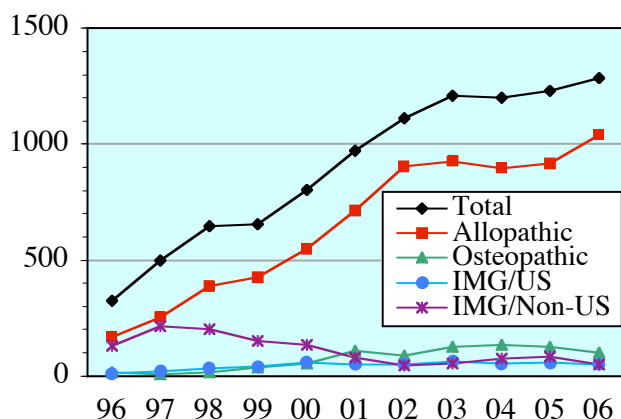


Figure 5. Graph of the distribution of people recruited via the Match 1996 to 2006.

This graph is based on the four largest categories in Table 2. There is a marked increase in recruitment from US allopathic students; a fall in IMG/Non-US graduates; and osteopathic students.

Year	Students	Total	Percent
1990	937	16286	5.75%
1991	937	13945	6.72%
1992	926	14027	6.60%
1993	832	14098	5.90%
1994	705	14209	4.96%
1995	423	14626	2.89%
1996	169	14543	1.16%
1997	253	14614	1.73%
1998	388	14616	2.65%
1999	425	14606	2.91%
2000	549	14993	3.66%
2001	713	14464	4.93%
2002	904	14336	6.31%
2003	927	14331	6.47%
2004	897	14609	6.14%
2005	916	14719	6.22%
2006	1040	15008	6.93%

Table 2. The number of US Allopathic Medical Students (Students) matching into anesthesiology compared to the total number in the NRMP Match for each year.

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
US Allopathic	169	253	388	425	549	713	904	927	897	916	1040
Osteopathic	14	7	17	35	55	107	89	126	133	124	101
IMG/US	10	22	34	41	59	50	51	64	53	58	51
IMG/Non-US	130	213	201	152	133	79	47	53	73	83	49
Sponsored Grad	1	2	2	2	3	15	15	36	40	45	42
Fifth Pathway	0	0	0	1	2	4	3	4	0	1	2
Canadian	1	0	2	0	0	3	3	1	4	3	2
US Physician	0	0	1	0	0	2	0	0	0	0	0
Total	325	497	645	656	801	973	1112	1211	1200	1230	1287
Non-US Allopathic	156	244	257	231	252	260	208	284	303	314	247

Table 3: Distribution via the Match 1996 to 2006.

This table shows the distribution into anesthesiology residencies from various sources during the last eleven years. This year the most significant changes were an increase in the numbers of US allopathic students and a fall in the numbers of osteopathic students and IMG/Non-US graduates.

2002			2003			2004			2005			2006		
State	M	Av	State	M	Av	State	M	Av	State	M	Av	State	M	Av
NY	136	151	NY	177	182	NY	162	186	NY	172	179	NY	182	184
CA	114	115	CA	122	122	CA	118	119	CA	121	121	CA	134	135
TX	77	79	MA	80	86	MA	89	96	MA	89	94	MA	95	95
PA	76	81	TX	80	83	TX	81	83	PA	79	82	PA	87	87
MA	65	67	IL	68	68	IL	73	74	TX	79	79	TX	81	81
IL	58	58	PA	67	68	PA	68	76	IL	65	68	IL	70	72
OH	43	50	OH	52	54	OH	51	55	FL	50	50	OH	57	58
FL	42	42	FL	50	52	FL	47	49	OH	50	57	FL	52	53
NC	38	38	NC	39	39	NC	40	41	NC	40	40	MI	35	35
MD	32	32	MD	36	36	MI	36	36	MI	39	39	NC	34	34
MO	32	32	MI	34	36	MD	32	32	MO	30	36	MO	30	35
WI	28	28	WI	30	30	MO	26	35	WI	28	28	MD	29	30
MI	27	33	MO	24	33	WI	26	26	MD	26	26	NJ	26	26
CT	24	24	MN	23	23	CT	25	25	WA	24	24	IN	25	25
GA	22	22	WA	23	23	IN	23	23	GA	23	23	WI	25	25
WA	21	21	CT	22	27	MN	23	23	MN	23	23	GA	24	24
IN	20	20	GA	22	22	VA	22	22	IN	22	22	MN	23	23
MN	20	21	IN	20	20	GA	21	25	CT	21	25	WA	23	24
KY	19	20	TN	18	23	TN	19	20	KY	21	22	CT	22	23
TN	19	21	KY	17	19	AL	16	16	TN	21	21	VA	22	22
VA	19	23	AL	16	16	LA	16	18	NJ	19	25	TN	20	20
LA	18	18	LA	16	18	WA	16	24	VA	18	22	AL	16	16
AL	15	15	VA	16	23	AR	14	14	AL	16	16	AZ	15	15
DC	15	15	AR	14	14	KY	14	16	LA	16	17	AR	14	14
CO	12	12	DC	14	15	IA	13	13	AR	14	14	LA	14	14
KS	12	12	NJ	13	14	KS	13	13	KS	13	13	DC	12	12
AR	11	11	CO	12	12	NJ	13	18	AZ	12	12	KS	12	12
IA	11	11	IA	12	12	CO	12	12	DC	12	12	KY	12	19
UT	10	10	KS	11	11	UT	10	10	CO	10	10	IA	11	13
AZ	9	9	UT	10	10	AZ	9	9	UT	10	10	CO	10	10
NE	8	8	AZ	9	9	NE	8	8	IA	9	13	UT	10	10
MS	7	7	NE	8	8	DC	7	12	NE	8	8	OR	9	9
SC	7	7	MS	7	7	MS	7	7	OK	8	8	NE	8	8
NJ	6	12	PR	7	7	NH	7	7	OR	8	8	OK	8	8
NM	6	6	SC	7	7	NM	7	7	MS	7	7	MS	7	7
OK	6	6	NM	6	6	OR	7	7	NH	7	7	NH	7	7
OR	6	6	OK	6	6	SC	7	7	SC	7	7	SC	7	7
PR	5	7	OR	6	6	OK	6	6	ME	4	4	NM	6	6
WV	5	5	NH	5	5	PR	6	6	VT	4	4	WV	5	5
ME	4	4	ME	4	4	VT	4	4	NM	3	4	ME	4	4
VT	4	4	VT	4	4	ME	3	4	WV	2	3	VT	4	4
NH	3	6	WV	4	4	WV	3	5						

N=47 11121169

N=47 1211 1264

N=42 1200 1289

N=41 1230 1283

N=41 1287 1311

Table 4: Positions available & matched by State for 2002 to 2006.

For each year the data is ranked by the number matched. This year, of the total matching into anesthesiology, 25% went to the top 2 States, 45% to the top 5, and 64% to the top 10.

Key: M = Total positions Matched
Av = Total positions Available

Positions Offered and Unfilled: With minor fluctuations, the last eleven years have seen a fairly steady increase in the total number of positions offered from 946 in 1996, to 1311 this year. More striking this year is an increase of 89 from 463 to 552 in the number of positions offered at the PG1 level. Moreover, this is larger by 203 than the average of 349 for the years 1990 to 2005. The total number of unfilled positions decreased again, this time from 53 to 24, a 55% decrease, and the fewest unfilled positions ever recorded (Figure 4 and Table 1).

Distribution of Recruits (Table 3): For the seventh year in a row, behind only US allopathic graduates, the osteopathic graduates contribute the greatest numbers to the anesthesiology match; this year's total of 101 shows a slight reduction. Amongst the other non-US allopathic groups the only other significant change is a reduction in the number of IMG/Non-US recruits from 83 to 49 (Figure 5).

Regional Distribution (Table 4): The NRMP data has again been compiled by state and ranked by the number recruited into each state's residencies via the Match. For eight years now, the top six positions have been occupied by the same six states (NY, CA, MA, PA, TX, and IL). For the last four years the number recruited by each of these states has changed little with the exception, this year, that the number recruited by California has risen from 121 to 134. Between them, the top two states recruited 316 (25 percent), the top five states recruited 579 (45 percent), and the top ten recruited 827 (64 percent).

Comment: For the three years 2003 – 2005 the number of residents recruited into anesthesiology via the Match showed relatively minor changes in the overall numbers recruited (1211, 1200, 1230). This year the number rose to 1287. Accompanying this was a major increase in recruitment in the number of US senior medical students (14%), and a shift to recruitment at the PG1 level.

A number of programs appear to have shifted their strategy to recruiting at the PG1 level. It would be tempting to think this may have been well received and to associate the increase of 89 positions offered with the recruitment of 100 more PG1 recruits. However, only a few programs have so made this change and the number of unfilled positions diminished at both the CA1 and PG1 levels. It would appear that US medical students, in particular, are currently judging anesthesiology to be an attractive specialty.

At a time when a shortage of anesthesiologists still affects many programs, this Match should be regarded as welcome trend.

Website: This article, previous articles, and additional information about the numbers of students recruited into anesthesiology from each school and the numbers recruited into, and graduating from, each residency program are available at <www.grogono.com/nrmp>.

Acknowledgments: This article was prepared primarily for publication in the *ASA NEWSLETTER* and I thank the editor, Douglas R. Bacon, M.D., for his agreeing that it may be simultaneously made available on the website. I thank Mona Signer of the NRMP whose prompt response permits the rapid production of this article.

Dr. Grogono's past NRMP articles have appeared in August 1993, May 1994, June 1995, May 1996, May 1997, May 1998, May 1999, May 2000, May 2001, May 2002, May 2003, May 2004 and May 2005.