

So, You Want To Go Into Pediatrics?

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What's the attraction?

Kids:

- are cuter than adults
- get better faster than adults
- don't whine as much as adults
- usually don't cause their own illness



Common Myths

- All pediatricians do is see kids with runny noses & vomiting/diarrhea
- If you are AOA with great board scores, you shouldn't "waste" your hard work by going into an easy-to-match specialty
- All pediatricians have low salaries
- A career in pediatrics won't offer enough intellectual stimulation
- Only women go into pediatrics

Pediatricians can:

- Be primary care providers
- Have longitudinal relationships with children and families
- Resuscitate newborns in the delivery room & counsel adolescents on substance abuse & sexually transmitted illness both in the same day



Pediatricians can:

- Be subspecialty care providers
- Perform procedures multiple days per week
- OR never perform procedures



Pediatricians can:

- Work exclusively in hospital-based practice
 - ◆ In an academic environment
 - ◆ In a community environment
- Work exclusively in an outpatient-based practice
 - ◆ As clinicians
 - ◆ As clinician-educators
 - ◆ As clinician-educator, researcher
- Combine the two



Pediatricians can:

- Focus on public health
- Focus on advocacy
- Participate in international health opportunities



Pediatricians can:

- Serve important leadership roles in US government, public policy, industry
- Richard Besser was acting director of the CDC

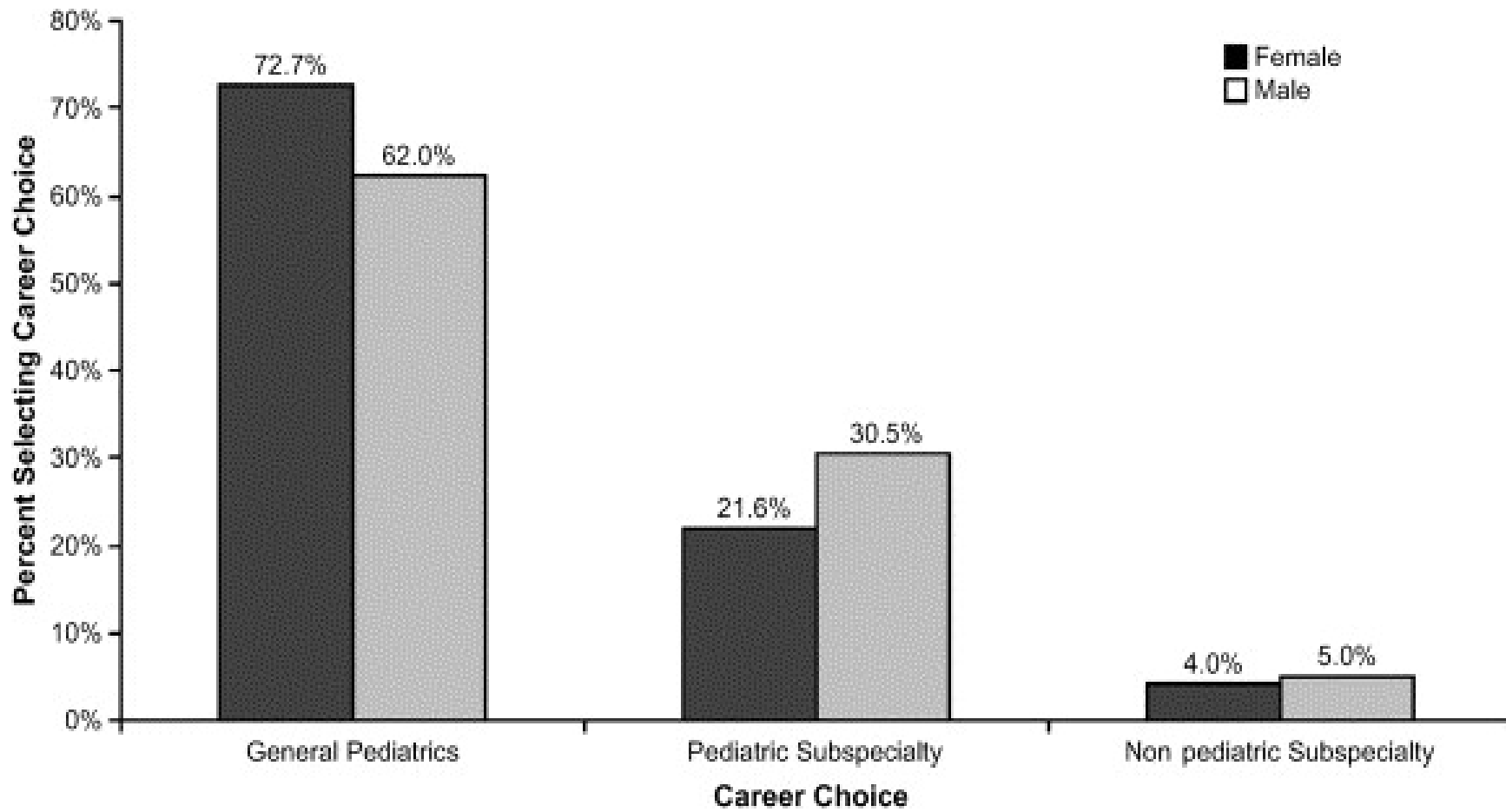


Board certified subspecialty training opportunities

- Adolescent Medicine
- Neonatal-Perinatal Medicine
- Pediatric Cardiology
- Pediatric Critical Care Medicine
- Pediatric Emergency Medicine
- Pediatric Endocrinology
- Pediatric Gastroenterology
- Pediatric Hematology-Oncology
- Pediatric Infectious Diseases
- Pediatric Nephrology
- Pediatric Pulmonology
- Pediatric Rheumatology
- Pediatric Sports Medicine

Breakdown of Primary v. Subspecialty Care

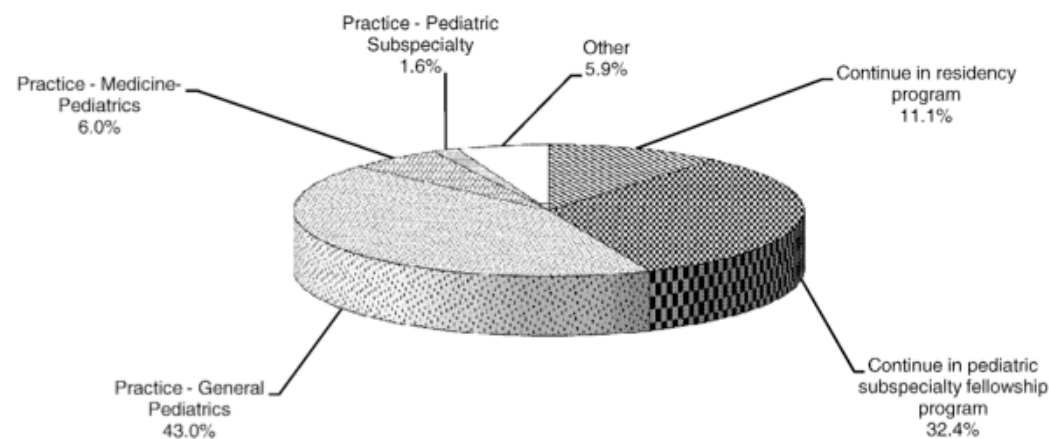
By Gender



What do we know about recent residency graduates?

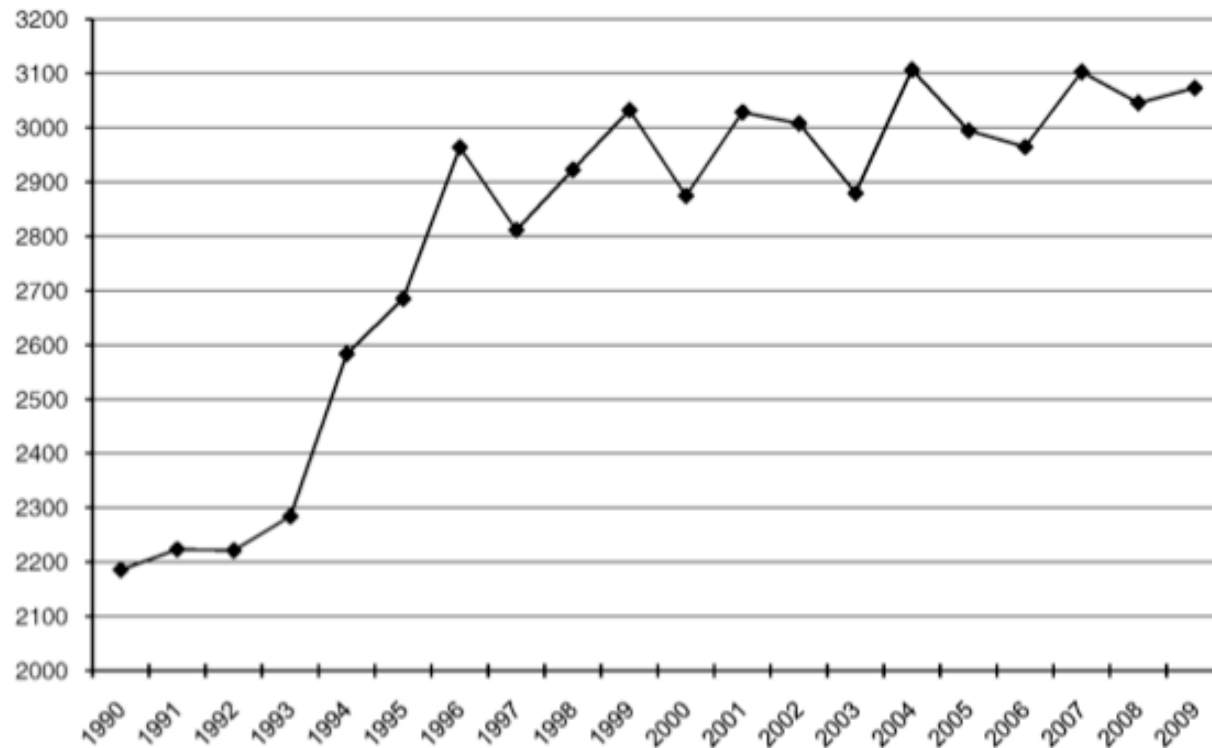
**2009 General Pediatrics Examination
First-time Applicants (n=3073)
Career Plans for Upcoming Year**

	Total Number	%	Percentage			
			Female	Male	AMG	IMG
Continue in residency program	342	11.1%	71.6%	28.4%	85.1%	14.9%
Continue in pediatric subspecialty fellowship program	996	32.4%	63.7%	36.3%	69.7%	30.3%
Practice - General Pediatrics	1322	43.0%	77.7%	22.3%	76.9%	23.1%
Practice - Medicine-Pediatrics	184	6.0%	56.0%	44.0%	85.9%	14.1%
Practice - Pediatric Subspecialty	49	1.6%	67.3%	32.7%	59.2%	40.8%
Other	180	5.9%	65.0%	35.0%	87.2%	12.8%
Total	3073	100.0%	70.3%	29.7%	76.3%	23.7%



How many pediatricians do we train per year?

General Pediatrics Examination
Overall Total Number of First-time Applicants Since 1990



ABP

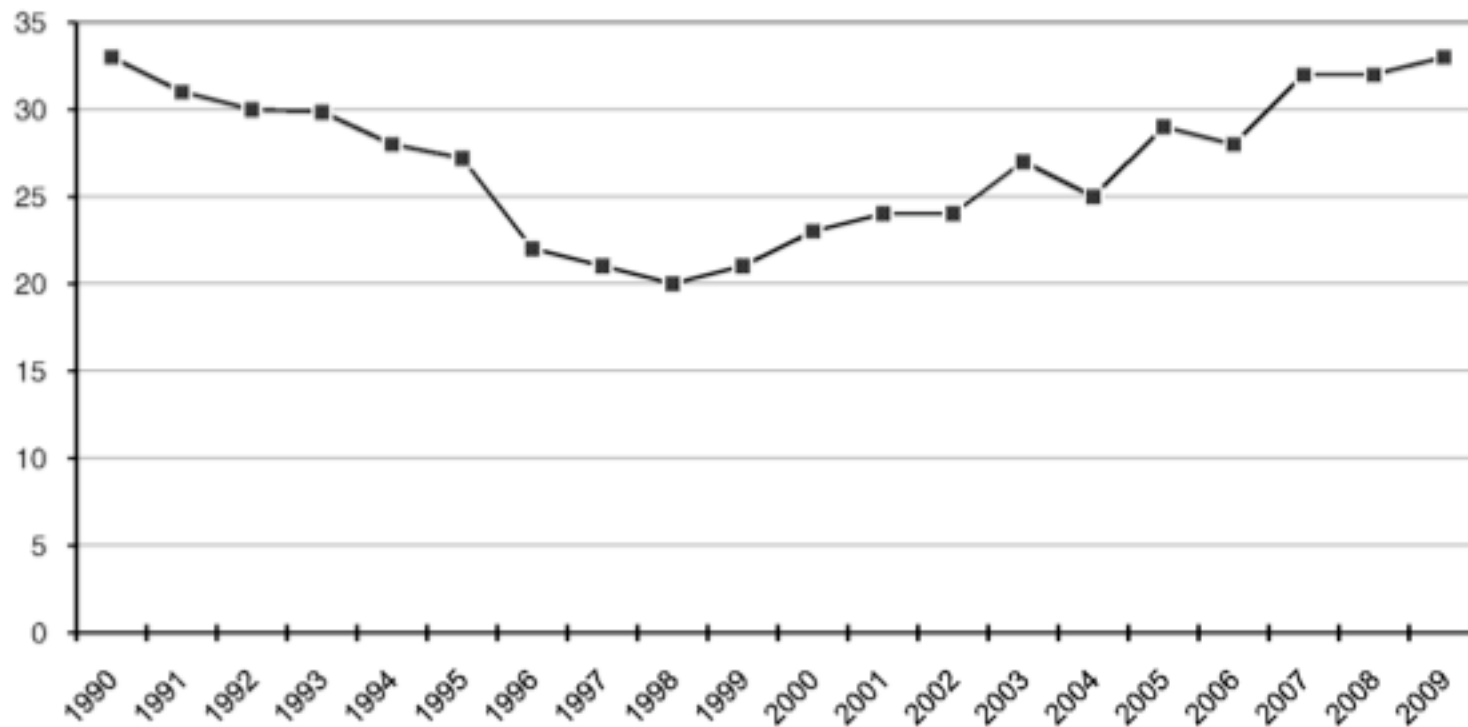
How many men go into pediatrics?

Table II. Entering categorical pediatric residents by sex and medical school

Year	Total	Percentage			
		Female	Male	AMG	IMG
1991-1992	2496	59.6	40.4	67.5	32.5
1992-1993	2577	60.2	39.8	63.3	36.7
1993-1994	2720	59.4	40.6	64.0	36.0
1994-1995	2739	60.8	39.2	68.0	32.0
1995-1996	2682	63.6	36.4	71.6	28.4
1996-1997	2646	63.7	36.4	70.4	29.6
1997-1998	2607	64.4	35.6	77.3	22.7
1998-1999	2615	64.2	35.8	82.4	17.6
1999-2000	2709	65.6	34.4	82.7	17.3
2000-2001	2669	65.6	34.5	79.5	20.5
2001-2002	2719	65.9	34.1	79.1	20.9
2002-2003	2729	68.5	31.5	75.3	24.7
2003-2004	2776	68.4	31.6	75.1	24.9
2004-2005	2893	68.9	31.1	74.1	25.9

What percent of peds residents go into subspecialties?

General Pediatrics Examination
Percent of First-time Applicants Selecting Subspecialty Career Areas Since 1990



What subspecialties did pediatricians choose?

2009 General Pediatrics Examination First-time Applicants (n=3073) Fellowship Training in ABP Subspecialty Career Areas

	n	% of Total
Adolescent Medicine	16	0.5%
Pediatric Cardiology	97	3.2%
Child Abuse Pediatrics	7	0.2%
Pediatric Critical Care	125	4.1%
Developmental-Behavioral Pediatrics	17	0.6%
Pediatric Emergency Medicine	121	3.9%
Pediatric Endocrinology	63	2.1%
Pediatric Gastroenterology	77	2.5%
Pediatric Hematology-Oncology	137	4.5%
Hospice and Palliative Medicine	6	0.2%
Pediatric Infectious Diseases	51	1.7%
Medical Toxicology	1	0.0%
Neonatal-Perinatal Medicine	180	5.9%
Pediatric Nephrology	35	1.1%
Neurodevelopmental Disabilities	5	0.2%
Pediatric Pulmonology	41	1.3%
Pediatric Rheumatology	21	0.7%
Sleep Medicine	4	0.1%
Sports Medicine	15	0.5%
Pediatric Transplant Hepatology	0	0.0%
Total	1019	33.2%

Note: The percent values are based on the 3073 applicants.

Who's out in the workforce?

Table VI. Number of pediatricians certified by ABP as of December 31, 2004

	Total
General Pediatricians	82,270
Adolescent Medicine	469
Cardiology	1,870
Critical Care Medicine	1,287
Developmental-Behavioral Pediatrics	427
Emergency Medicine	1,291
Endocrinology	989
Gastroenterology	785
Hematology-Oncology	1,884
Infectious Diseases	910
Medical Toxicology	30
Neonatal-Perinatal Medicine	4,136
Nephrology	633
Neurodevelopmental Disabilities	221
Pulmonology	767
Rheumatology	215
Sports Medicine	96

Are pediatricians happy?

BMC Health Services Research 2009, 9:166

<http://www.biomedcentral.com/1472-6963/9/166>

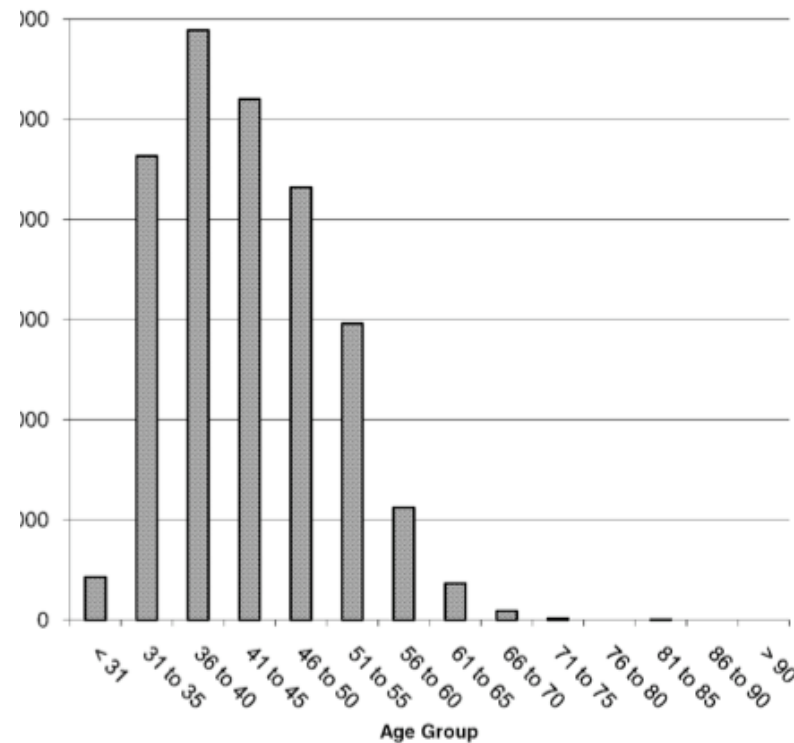
Table 3: Descriptive Statistics and Regression Results for Specialties; Ranked from High to Low Regression Coefficient, Unadjusted for Covariates ^a

Obs	Specialty	Frequency	Mean satisfaction score	Regression Coefficient	Lower 95% Confidence Limit	Upper 95% Confidence Limit
1	Pediatric emergency medicine	29	0.64	0.409**	0.150	0.667
2	Geriatric medicine	34	0.57	0.339*	0.066	0.612
3	Dermatology	101	0.55	0.312***	0.144	0.480
4	Pediatrics	740	0.52	0.283***	0.181	0.385
5	Internal medicine and pediatrics	50	0.50	0.268**	0.095	0.442
6	Other pediatric subspecialty	98	0.50	0.265**	0.073	0.457
7	Neonatal and perinatal medicine	67	0.50	0.264*	0.012	0.516
8	Allergy and immunology	55	0.50	0.263*	0.061	0.466
9	Child and adolescent psychiatry	59	0.46	0.224*	0.053	0.395
10	Radiation oncology	42	0.44	0.202	-0.039	0.443
11	Cardiovascular diseases	149	0.43	0.198*	0.014	0.381
12	Medical oncology	48	0.43	0.195	-0.097	0.487
13	Ophthalmology	184	0.41	0.172*	0.012	0.332
14	Occupational medicine	53	0.40	0.166	-0.070	0.402
15	Hospitalists	37	0.40	0.165	-0.181	0.510
16	Physical medicine and rehabilitation	69	0.39	0.155	-0.027	0.338
17	Psychiatry	306	0.37	0.137*	0.010	0.265
18	Otolaryngology	81	0.35	0.120	-0.083	0.323
19	Other medical subspecialty	20	0.34	0.106	-0.252	0.465
20	Critical care internal	70	0.33	0.096	-0.201	0.393

How old are pediatricians?

General Pediatrics Certificate Holders (Active/Time-limited)
Distribution by Age
(as of December 31, 2009)

Age Group	n	%
< 31	857	1.7%
31 to 35	9268	18.5%
36 to 40	11,776	23.5%
41 to 45	10401	20.8%
46 to 50	8642	17.3%
51 to 55	5920	11.8%
56 to 60	2239	4.5%
61 to 65	732	1.5%
66 to 70	176	0.4%
71 to 75	35	0.1%
76 to 80	0	0.0%
81 to 85	9	0.0%
86 to 90	0	0.0%
> 90	0	0.0%
Total	50,055	

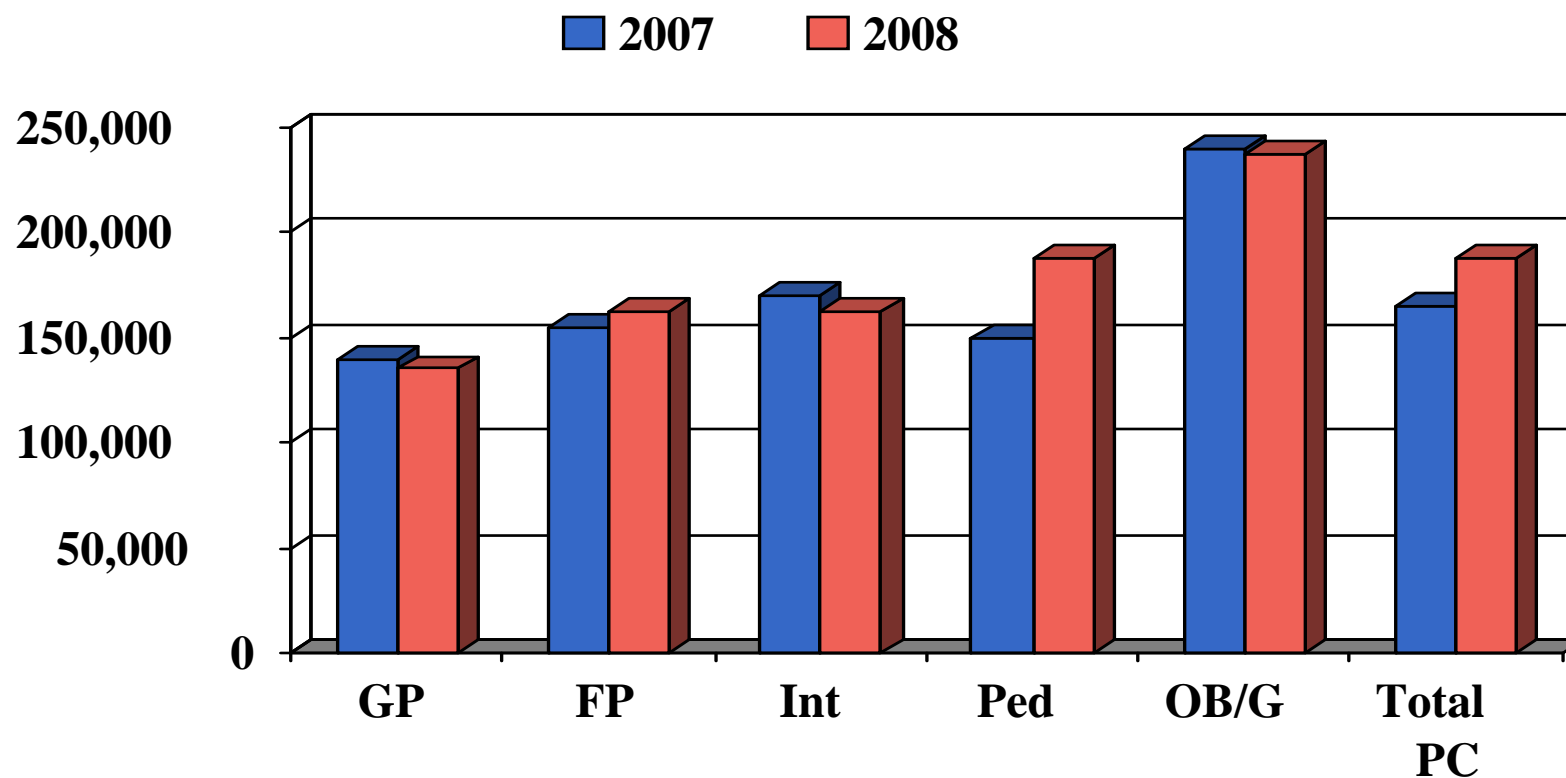


Now let's get to what you really want to know...



“So in other words, we're hoping to discover what makes the nitty, gritty.”

Median total compensation for primary care providers



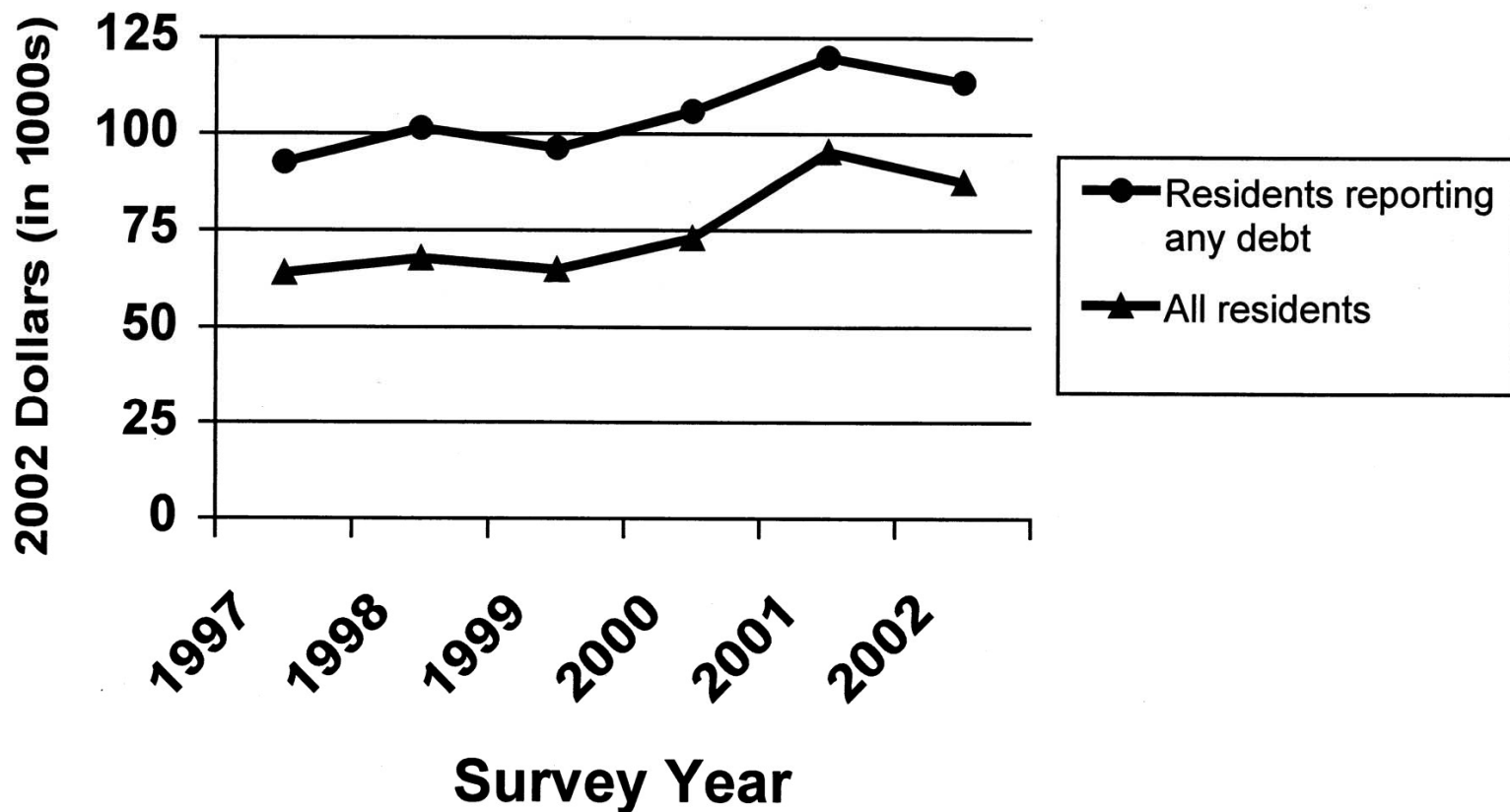
Medical Economics August 1, 2008 Exclusive Survey: Good news for primary care income: Supply and demand lead to higher reimbursement, but for how long?

Average salary by pediatric subspecialty

	Annual Salary (\$)
Endocrinology	187,693
Gastroenterology	218,032
Hematology/Oncology	205,567
Intensive Care	228,434
Nephrology	192,958
Neurology	204,540
Pulmonology	172,755
Infectious Disease	174,154
Cardiology	234,613

2008 Physician Compensation Survey by the American Medical Group Association

Median debt of residents by survey year



Cull, W. L. et al. Pediatrics 2003;112:787-792

Loan Repayment Options

- NIH Extramural Pediatric Research Loan Repayment Program
 - ◆ http://www.lrp.nih.gov/about_the_programs/pediatric.aspx
 - ◆ Pediatric investigators, up to \$35,000/year
- National Health Service Corps
 - ◆ http://www.idph.state.il.us/about/rural_health/NHSC_State_LR_program_app.pdf
 - ◆ Up to \$120,000 total for 4 year commitment
 - ◆ Primary care pediatrics
- Indian Health Service
 - ◆ www.ihs.gov
 - ◆ Up to \$20,000/yr, min 2 year commitment, plus additional 20% to offset tax liability

**What do we know about the
match in pediatrics?**

What are the stats?

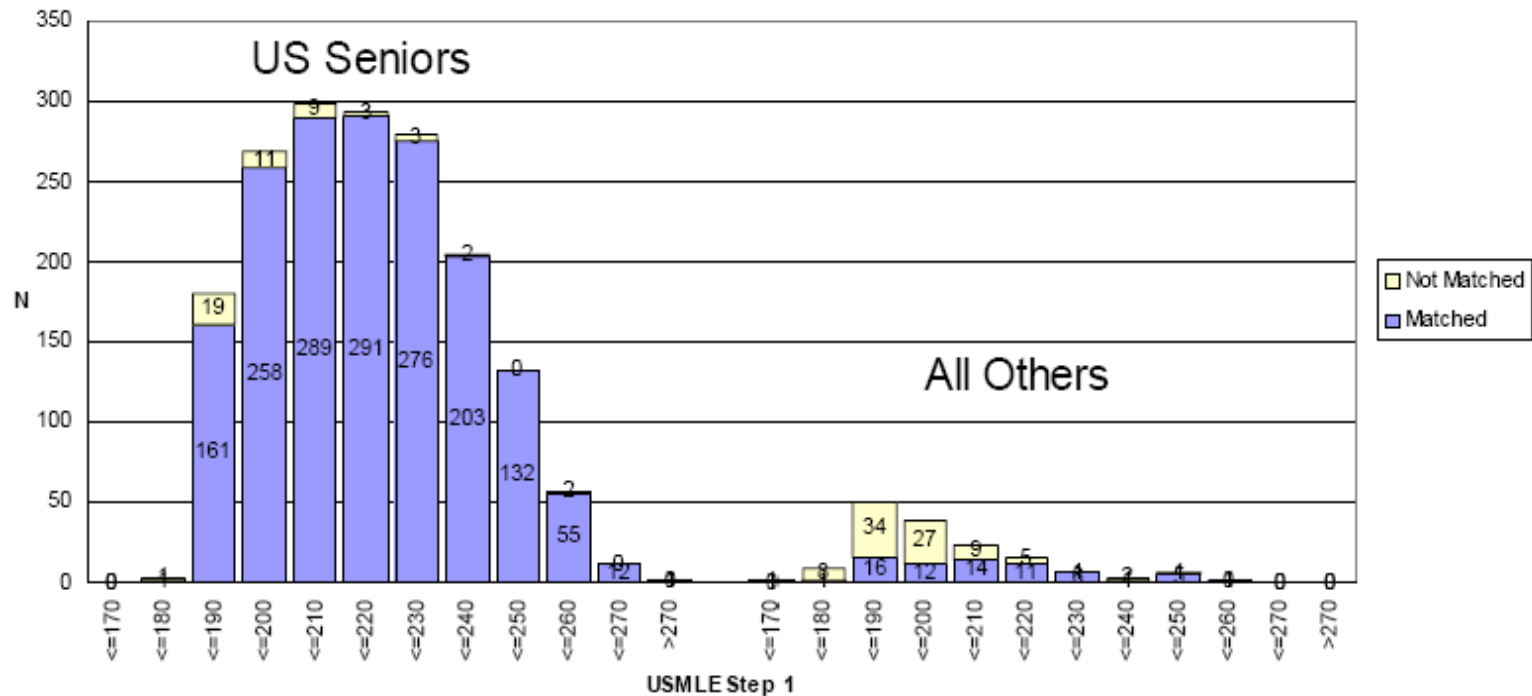
Charting Success in the NRMP Main Residency Match

NRMP 

Pediatrics		
	U.S. Seniors	All Others
Number of Applicants	1741	863
Applicants per position	0.74	0.37
Mean USMLE Step 1 Score	215	205
Mean Contiguous Ranks	7.7	5.7
Percent AOA	12	1
Percent with publications	44	41
Percent with research projects	79	68
Number of Positions in Main Match	2356	

Distribution of USMLE Step 1 Scores

Pediatrics - USMLE Step 1 Scores



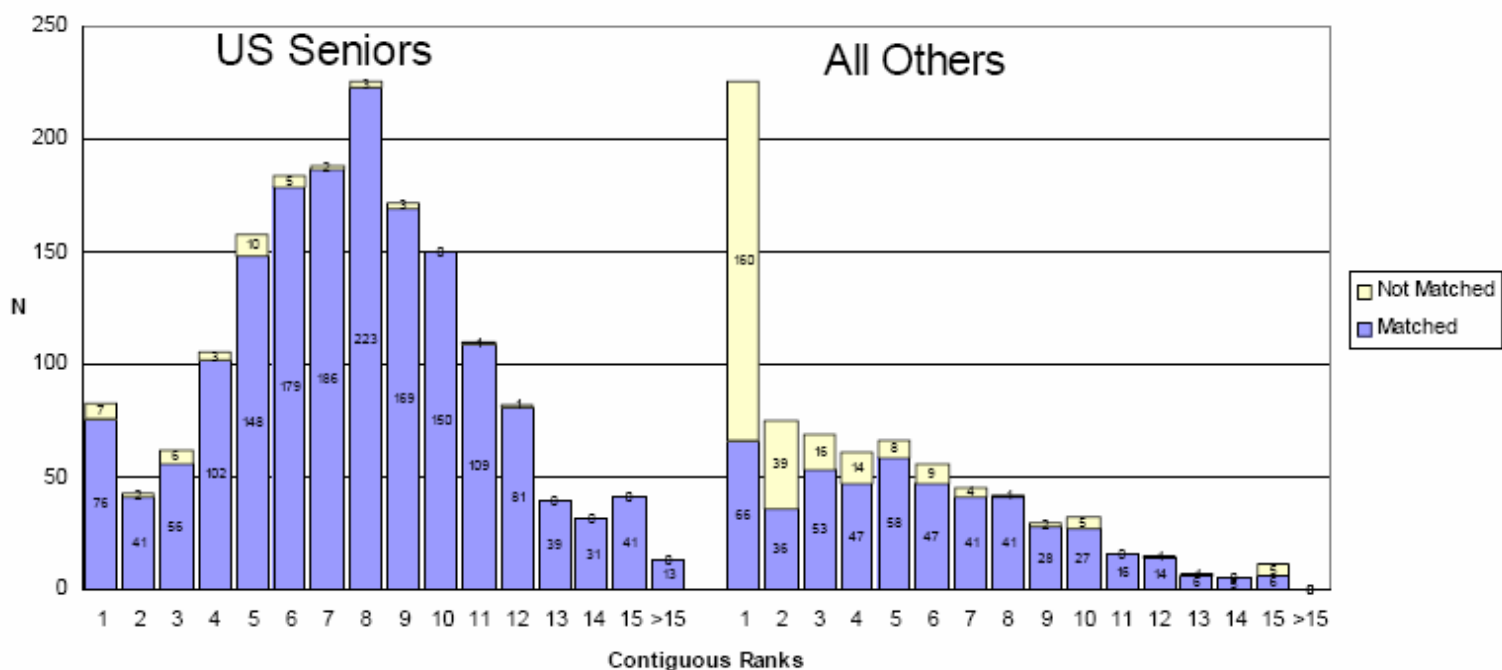
Source: NRMP Data Warehouse and AAMC USMLE Data Warehouse. USMLE scores by permission of NBME and ECFMG.

Numbers of programs students rank

Charting Success in the NRMP Main Residency Match



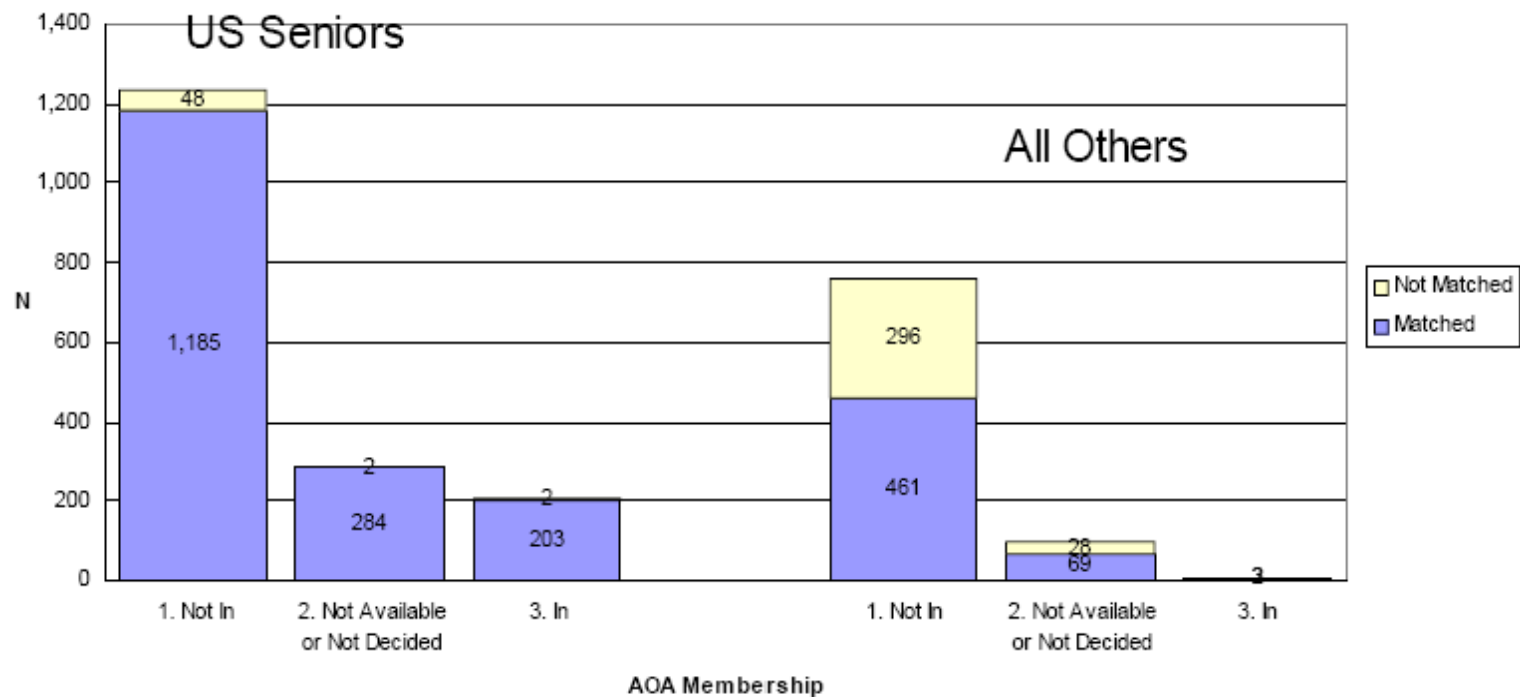
Pediatrics - Length of Contiguous Rank Order List



Source: NRMP Data Warehouse Data Warehouse

Is it important to be AOA?

Pediatrics - Membership in AOA



Source: NRMP Data Warehouse and AAMC ERAS Data Warehouse

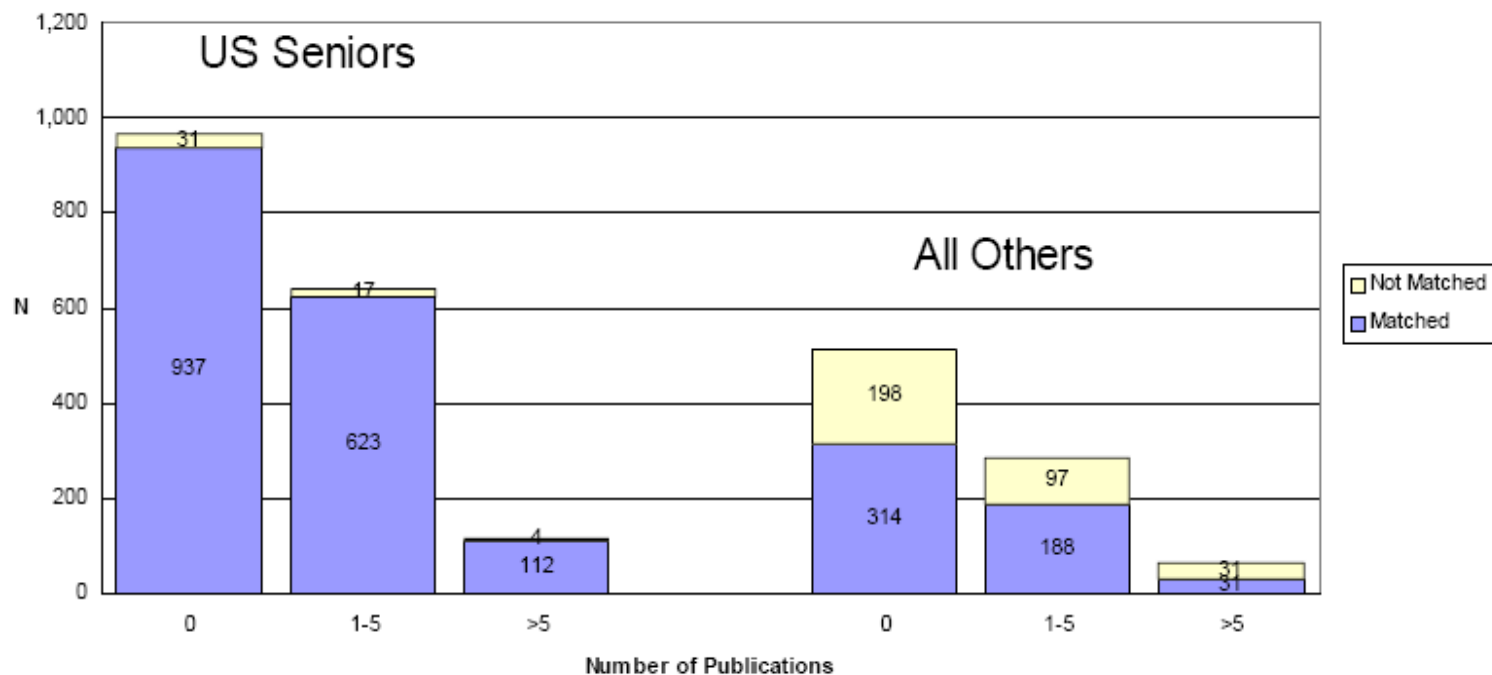
How many have published?

Charting Success in the NRMP Main Residency Match

NRMP



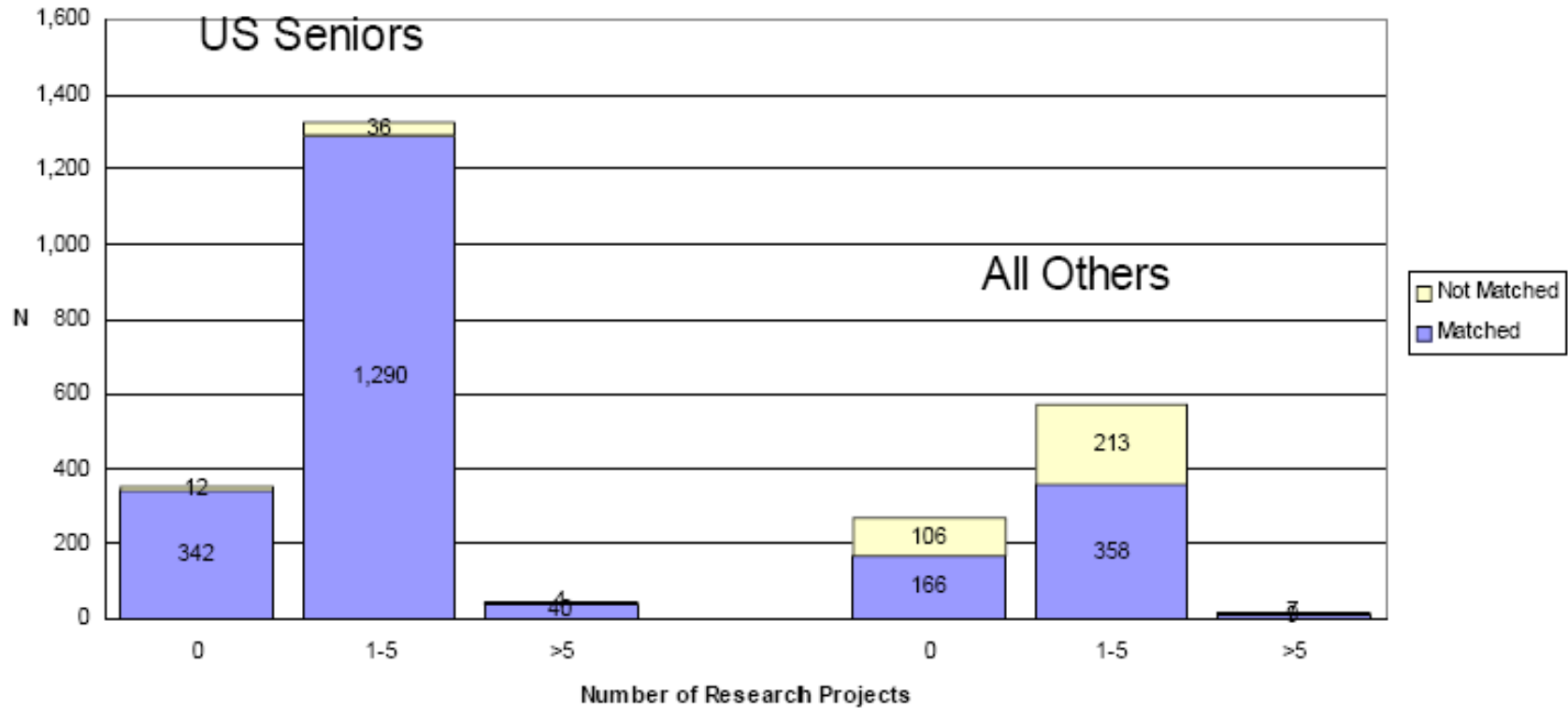
Pediatrics - Publications



Source: NRMP Data Warehouse and AAMC ERAS Data Warehouse

Done research?

Pediatrics - Participation in Research Projects

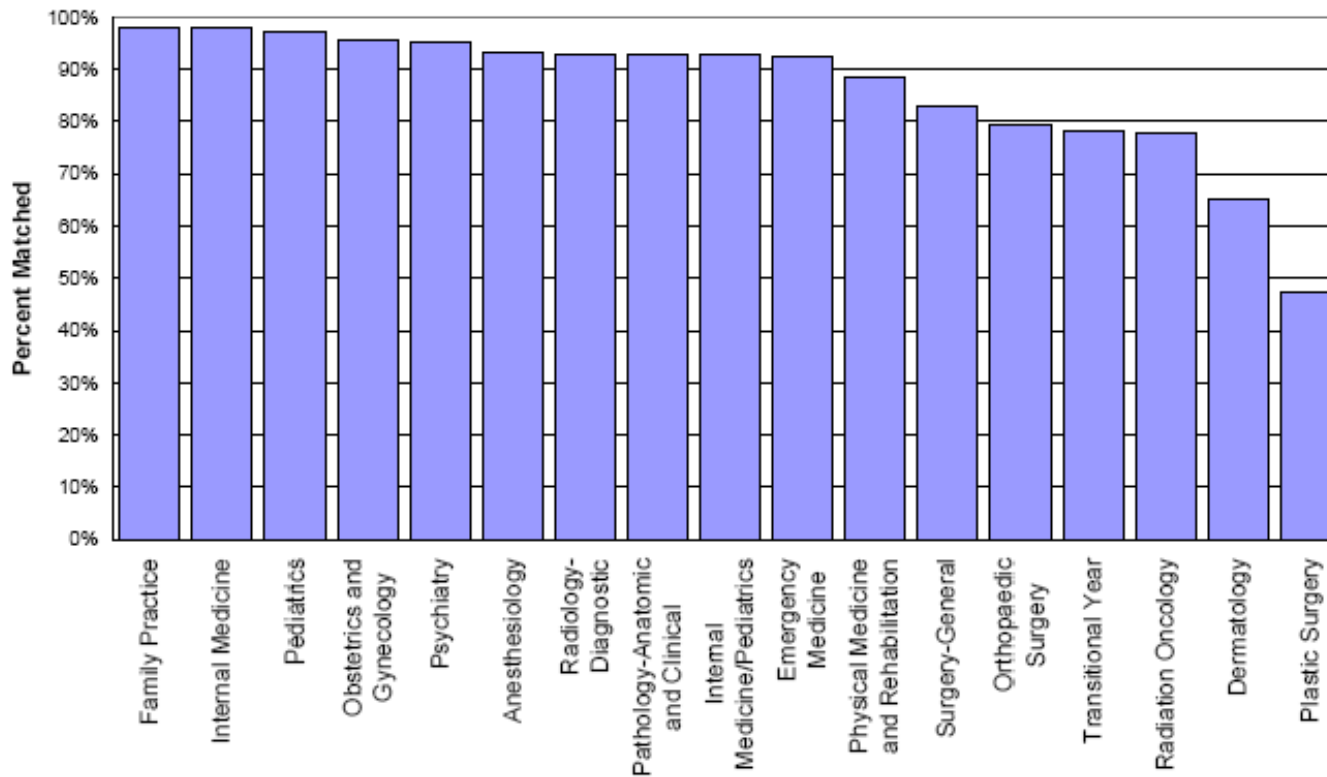


Source: NRMP Data Warehouse and AAMC ERAS Data Warehouse

Some comparative data

Figure 2

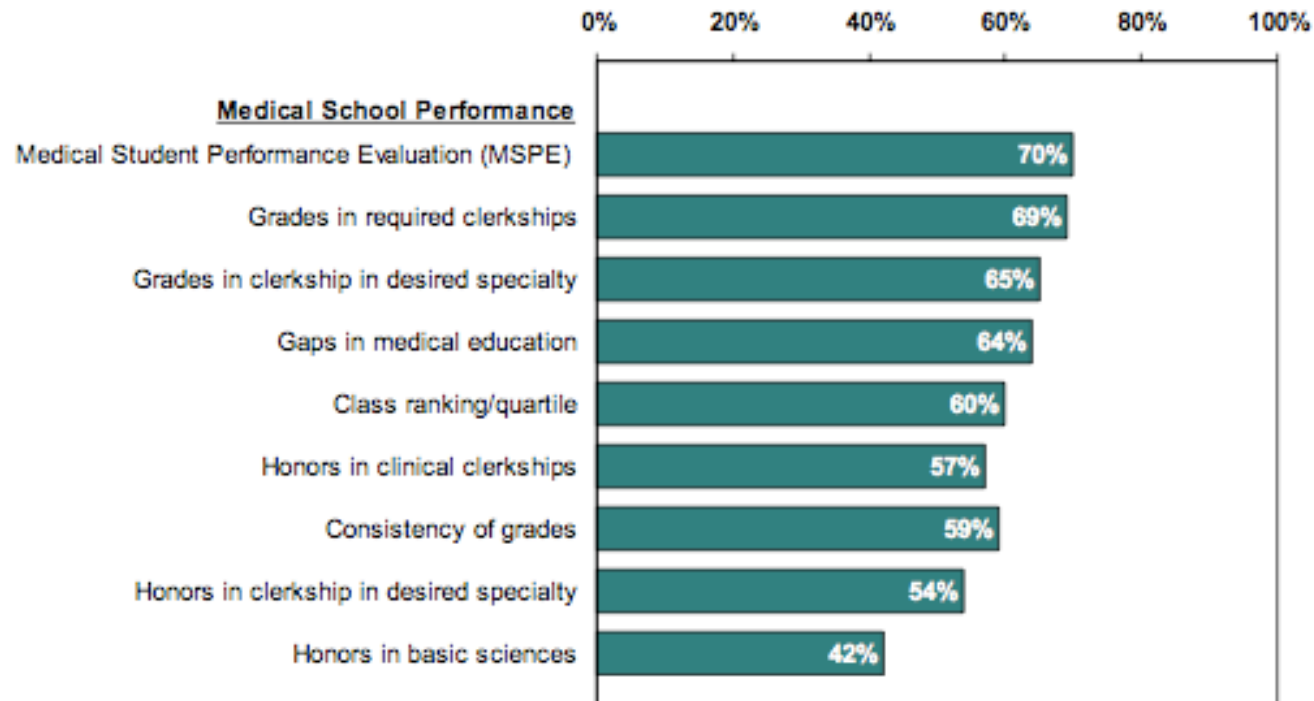
Match Success of U. S. Seniors Ranking Each Specialty First
2005 Main Match



Source: NRMP Data Warehouse

How do program directors select people to interview?

Figure PD-1 Pediatrics
Percentage of Programs Citing Each Factor in Selecting Applicants to Interview
Medical School Performance and Test Scores

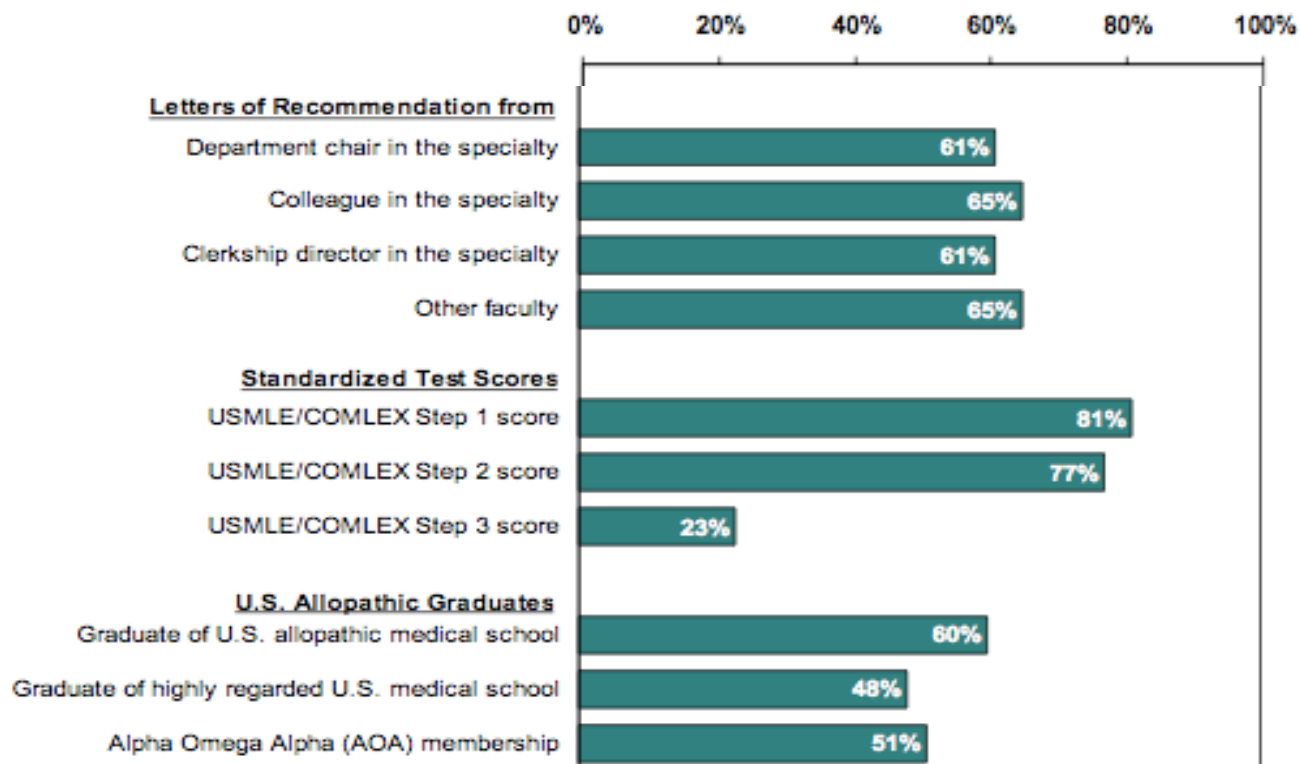


What's important?

Figure PD-1

Pediatrics

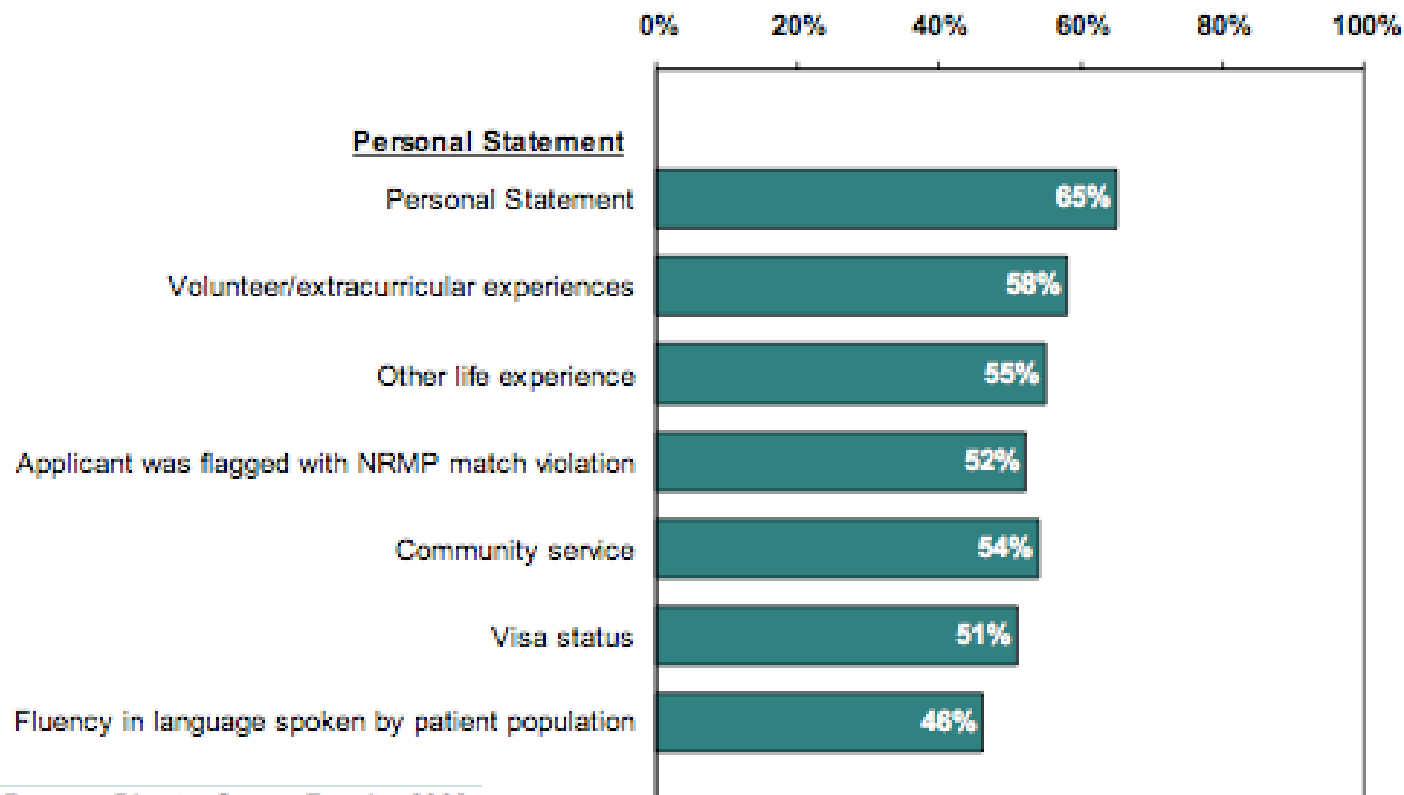
Percentage of Programs Citing Each Factor in Selecting Applicants to Interview
Medical School Performance and Test Scores



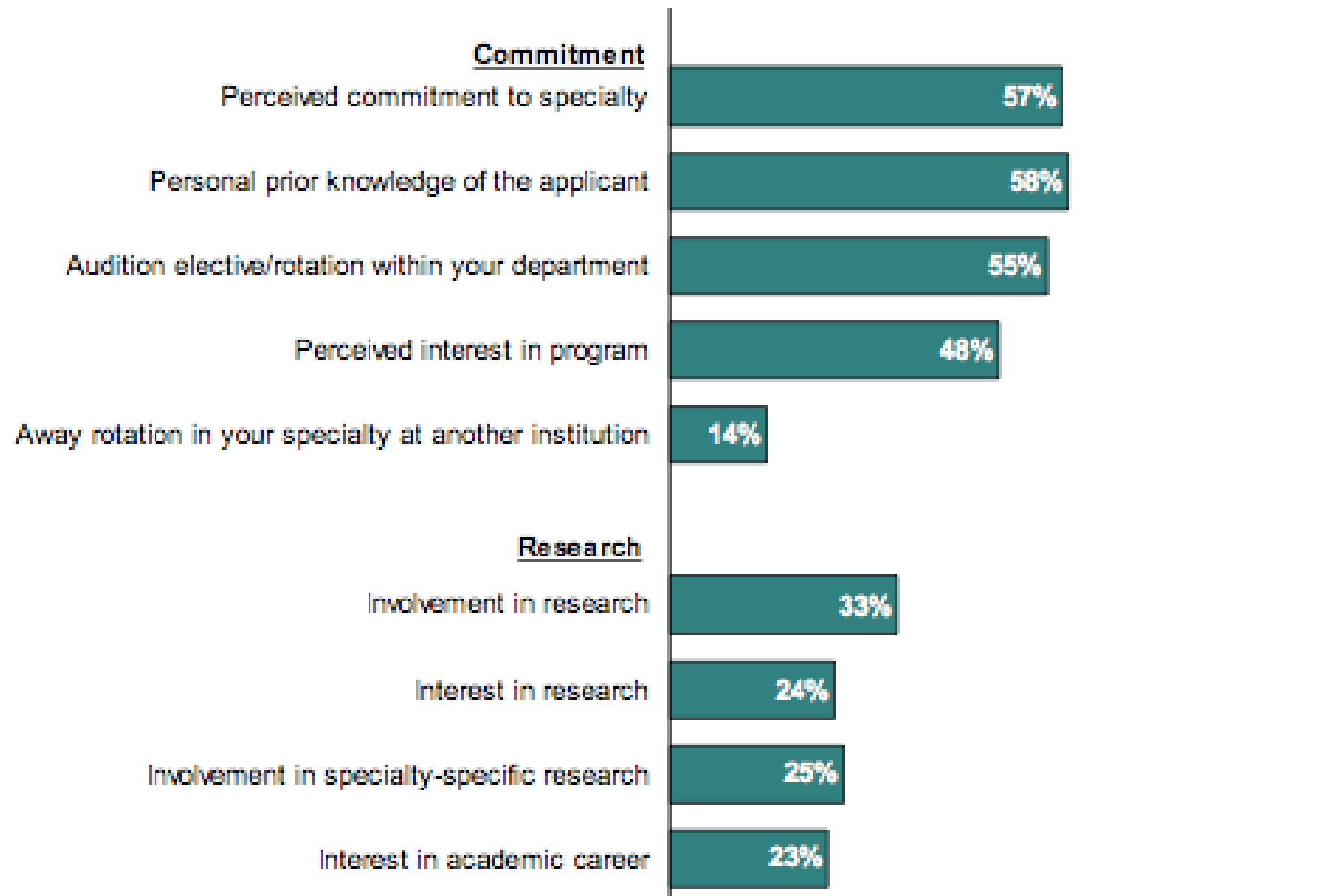
What about the personal statement?

Figure PD-1
(continued)

Pediatrics
Percentage of Programs Citing Each Factor in Selecting Applicants to Interview
Other Factors



Commitment & Research

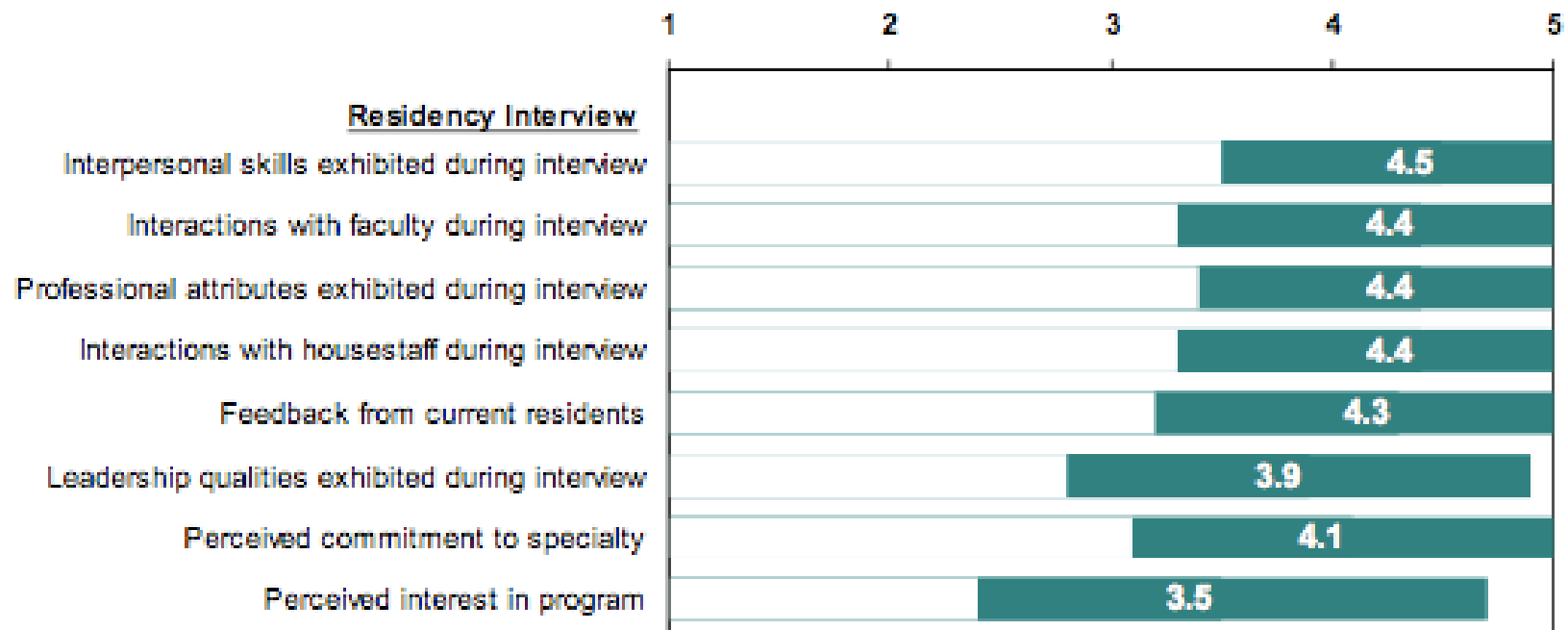


Applicant Ranking

What's important?

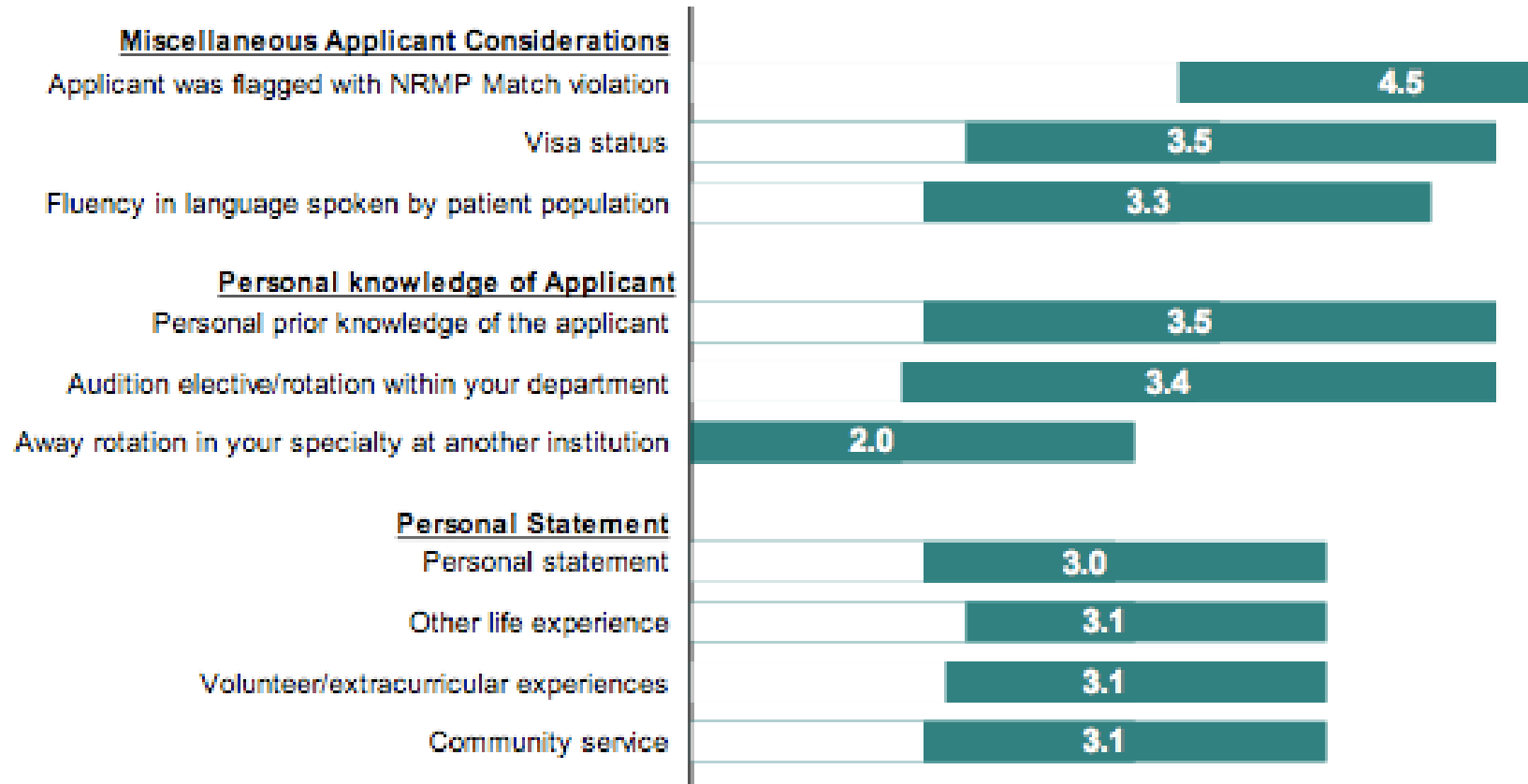
Figure PD-2
(continued)

Pediatrics
Mean Importance Ratings* of Factors in Applicant Ranking
Other Factors



*Ratings on a scale from 1 (not at all important) to 5 (very important).

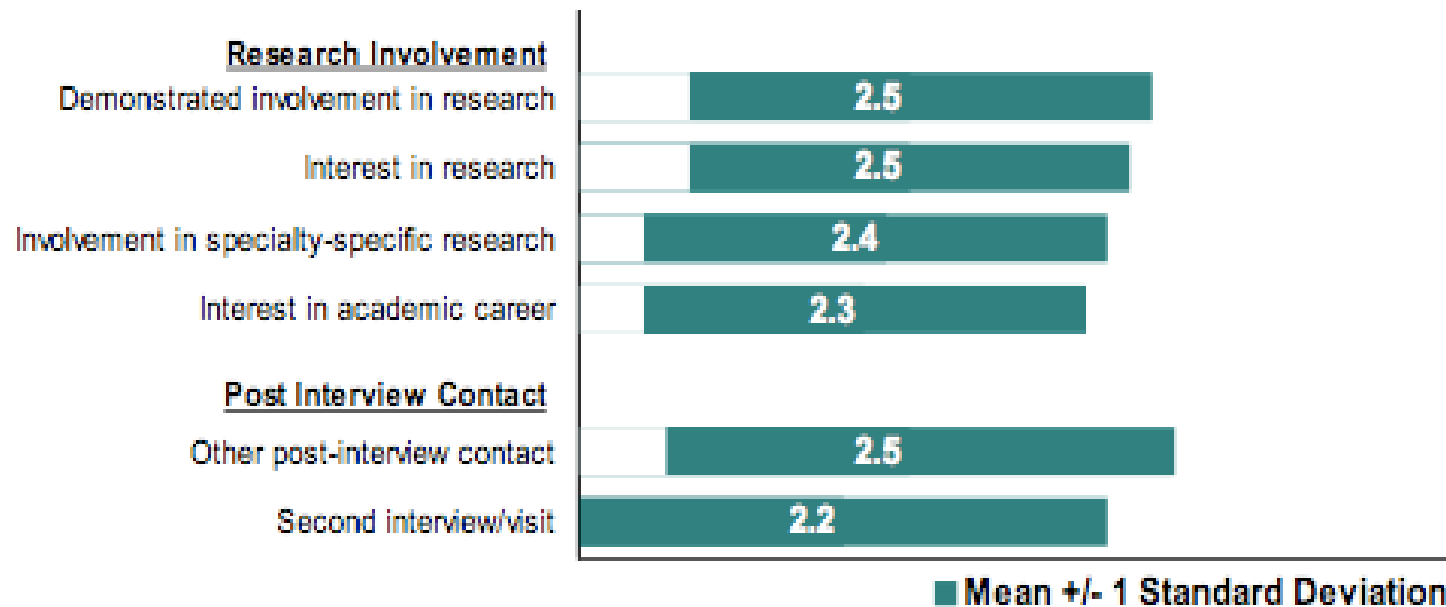
Mean importance ratings...



*Ratings on a scale from 1 (not at all important) to 5 (very important).

NRMP Program Director Survey Results, 2008

Mean importance ratings...



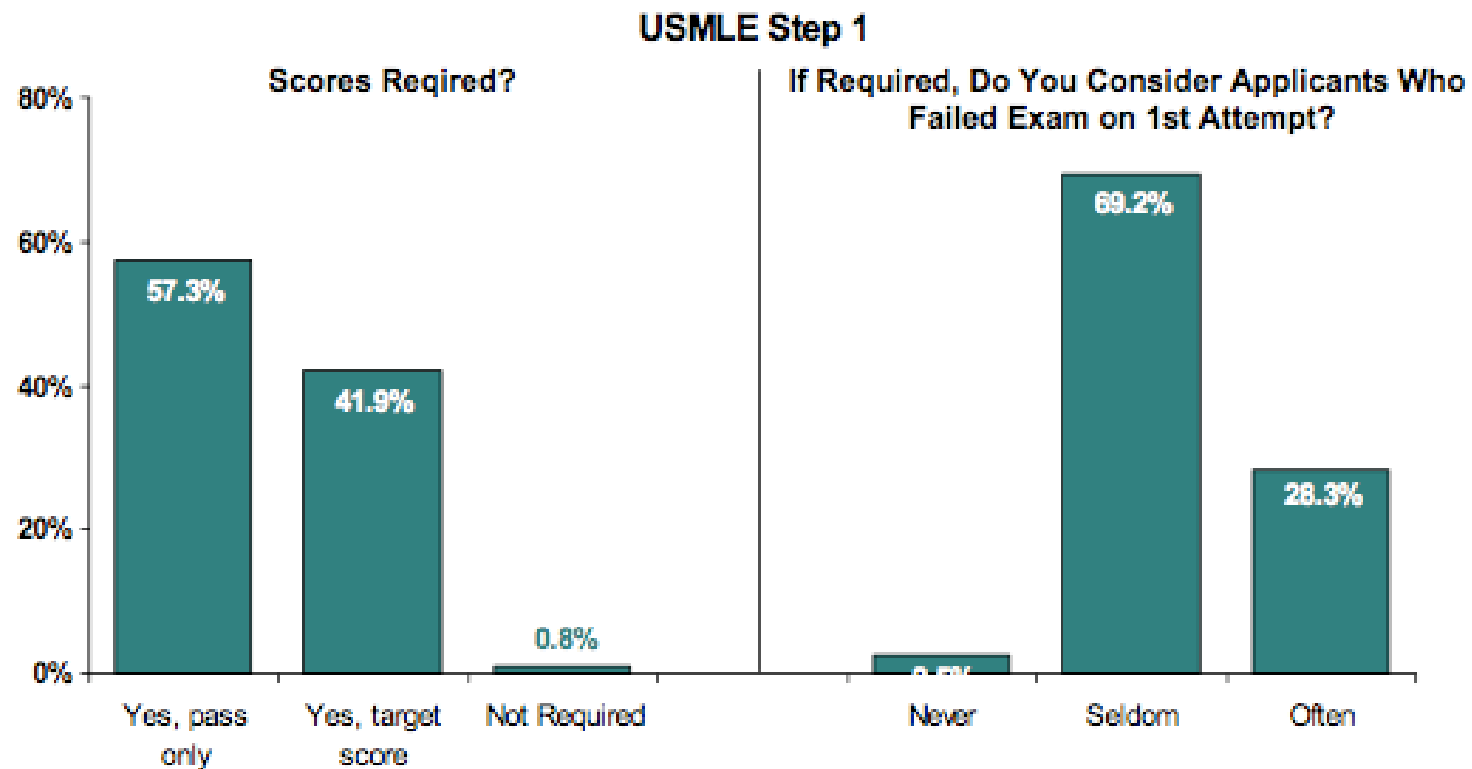
*Ratings on a scale from 1 (not at all important) to 5 (very important).

What about USMLE?

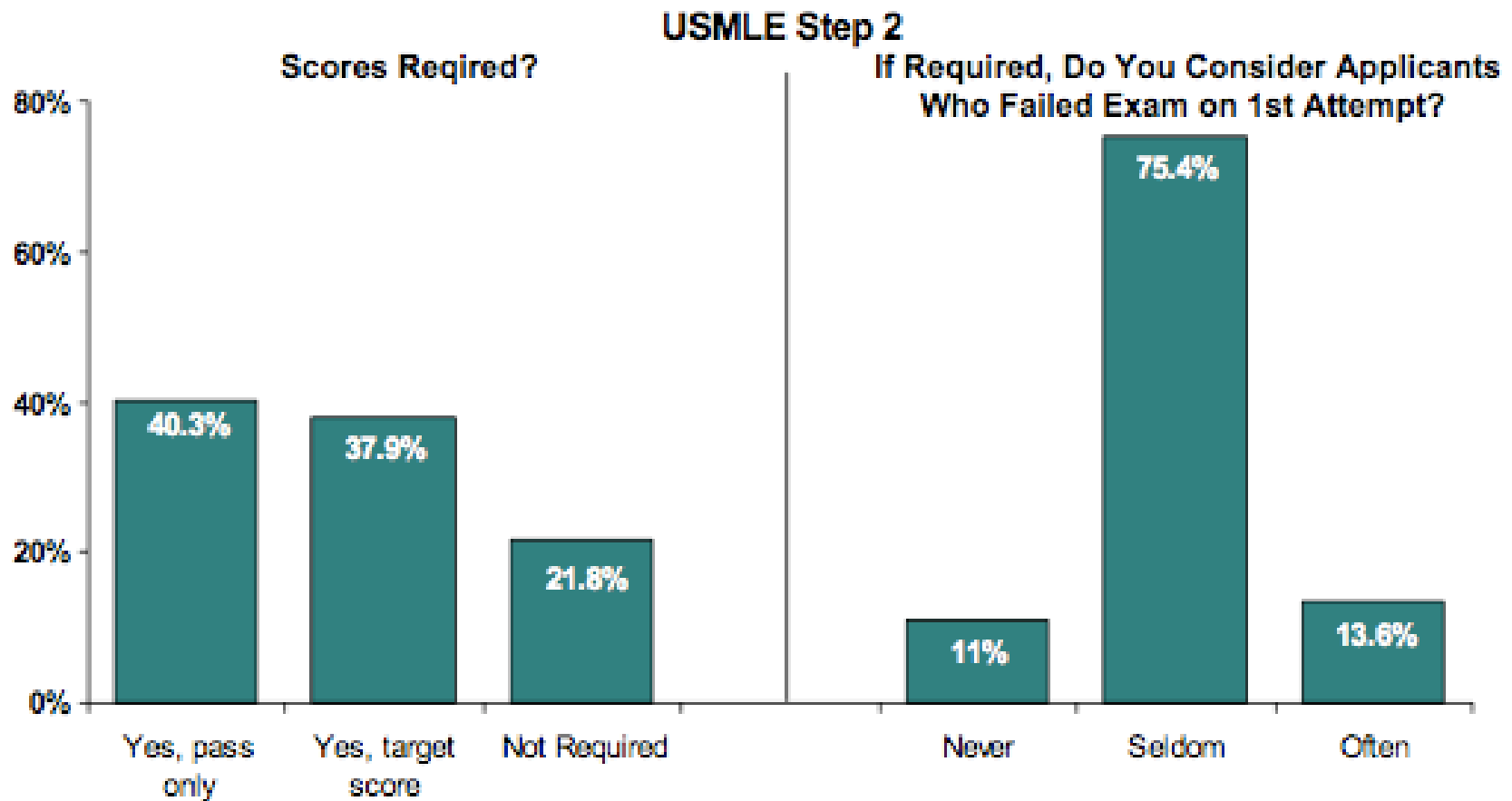
Figure PD-3

Pediatrics

Percentage of Programs That Use USMLE Step 1 and Step 2 Scores When Considering Which Applicants to Interview



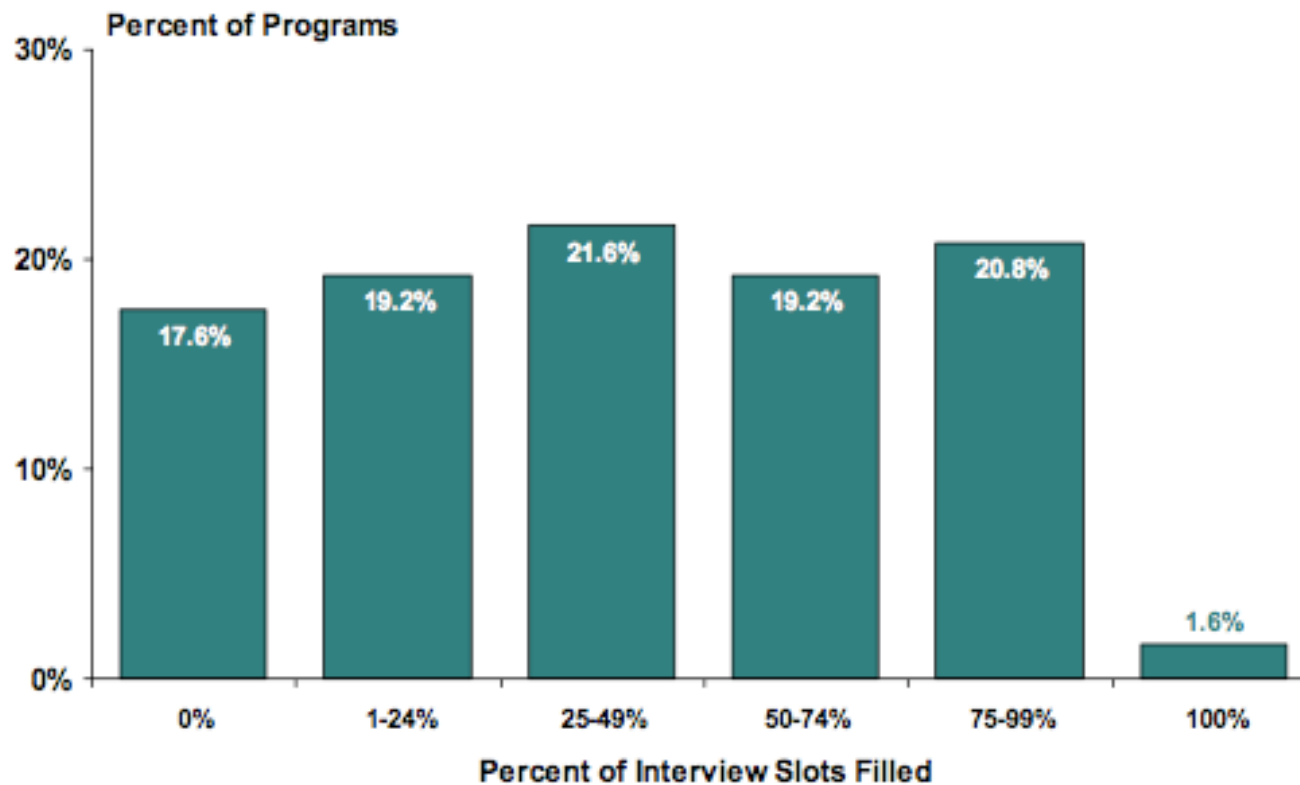
USMLE Step 2



When are interviews offered?

Figure PD-4

Pediatrics
Percentage of Program's Interview Slots Offered Prior to the November 1st MSPE Release Date



Where do Feinberg Students Go?

Matches in Pediatrics 1999-2009

Children's Memorial	30		DC Children's	4
Milwaukee Children's	14		Cincinnati Children's	4
University of Chicago	9		Rainbow Babies- Cleveland	4
St. Louis Children's	7		University of Pittsburg	4
Los Angeles Children's	7		NY Presbyterian Weill Cornell	4
Loyola	6		Duke, University of Arizona	4
Indiana U-Riley Children's	6		Oakland Children's	4
Rush	5		Denver Children's, Seattle Children's UC Irvine	3
Lutheran General	5		CHOP, Einstein, Stanford, Johns Hopkins, Georgetown, Minnesota	2
Children's Hospital Boston	4		Mt. Sinai, Yale, UCLA, UC Davis, UCSF, UW Madison, Baylor, Cleveland Clinic,U Tennessee...	1

Planning for next year

- Sign up for an advisor if you think you may be interested in pediatrics, note if you have a previous relationship/special interest
- Set up a meeting in March to discuss plans
- Bring transcript, narrative evaluations for clerkships
- Make sure you sign up for pediatric subinternship
- Avoid taking all pediatric electives

Planning for residency match

- Plan at least one elective over the summer to allow a pediatric faculty member to get to know you well for LOR
- Work on essay and CV over the late spring/early summer
- Get your application materials in as early as possible, especially if you are a weaker applicant GOAL SEPT 1
- Some programs will grant interviews prior to release of the MSPE, November 1

Bibliography

Charting Outcomes in the Match

Characteristics of Applicants who Matched to their Preferred Specialty in the 2005 NRMP Main Residency Match

A collaborative project of the National Resident Matching Program and the Association of American Medical Colleges

Paul Jolly, PhD
Division of Medical School Services and Studies
Association of American Medical Colleges

July 2006

Bibliography

BMC Health Services Research



Research article

Open Access

Physician career satisfaction within specialties

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Bibliography

- American Board of Pediatrics 2009-2010 Workforce Data
- Available online at <https://www.abp.org/>
- Lots of other interesting information available on this site as well