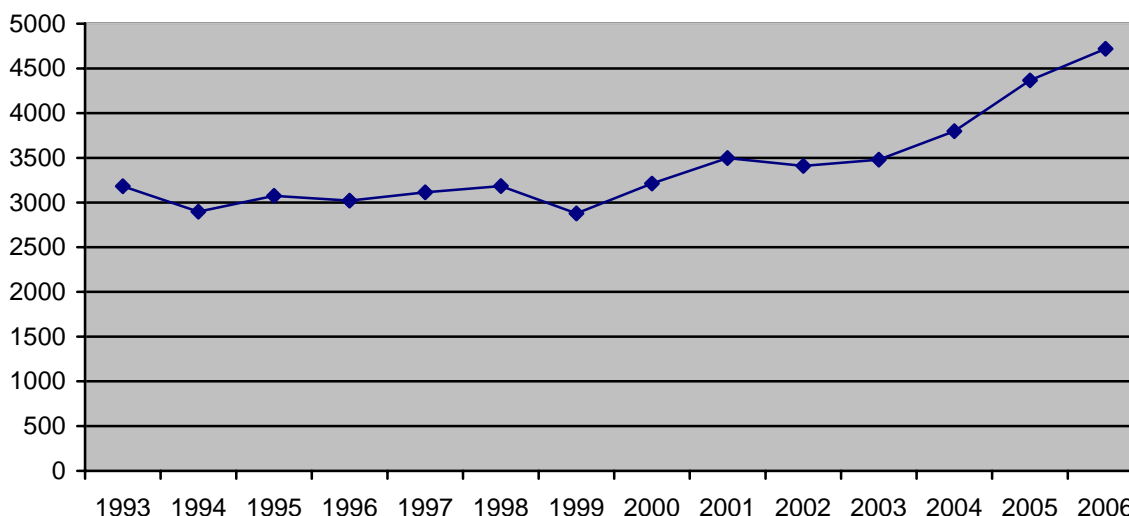


AAMC MD-PhD Student Enrollment – General Notes:

The AAMC has two ways of collecting and reporting MD-PhD data: the LCME annual medical school enrollment survey (LCME) and the AAMC Student Records System. According to the LCME survey, MD-PhD enrollment increased by 48 percent from 1993 to 2006. As reported in the 2005 Keystone meeting report, women constituted most of this enrollment increase.

1993-2006 MD-PhD Enrollment from LCME Annual Medical School Enrollment Survey



The AAMC Student Records System (SRS) tracks individual students as they progress through their degree programs on a yearly basis. The SRS reports that students in MD-PhD programs constitute about four percent (4%) of medical school enrollment. Linking SRS data with LCME data, we conclude that 71 percent of the students enrolled in MD-PhD programs attend institutions that have designated NIH Medical Scientist Training Programs (MSTP).¹

Using historical student enrollment data from SRS, annual first year enrollment in MD-PhD programs increased from 425 students in 1993 to 574 students in 2006.² Females account for most of this growth, yet males continue to dominate MD-PhD enrollment (61%). By contrast, overall medical school enrollment has exhibited male-female parity since 2002.

It takes most MD-PhD students 7 to 8 years to complete their degrees. Among the 16,127 who graduated in 2007 from all medical schools, 494 (3.1%) received MD-PhDs.

Interview Pool Study – Background Notes:

The MD-PhD Data subcommittee commissioned the Interview Pool Study in 2007 for the third straight year. The goal is to understand three aspects of the MD-PhD application cycle: the applicants who are invited to interview, the applicants who are interviewed, and the pattern of acceptance offers by institutions to applicants.

¹ AAMC SRS Data as of July 12, 2007.

² Comparisons of MD-PhD director and administrator data, LCME data, and AAMC student enrollment data indicate that AAMC enrollment data undercounts the number of MD-PhD students by an estimated 25%.

From 2005 to 2007, the AAMC collected data from the MD-PhD program directors and administrators and combined these data with AAMC applicant data.³

MD-PhD Interview Pool Study Participation by Program Funding Type, 2005-2007

Region	2005		2006		2007		Total	
	MSTP	Non-MSTP	MSTP	Non-MSTP	MSTP	Non-MSTP	MSTP	Non-MSTP
Northeast	11	6	14	7	10	9	14	21
South	7	3	9	6	7	6	9	33
Midwest	10	7	9	7	9	7	10	22
West	7	1	8	0	6	0	8	0
Total	35	14	40	20	32⁴	22	41	76

Participation in the Interview Pool Study by both MSTP and Non-MSTP programs, combined, decreased 10 percent from the 2006 study period to the 2007 study period. Moreover, participation by MSTP programs decreased 20 percent.

2007 MD-PhD Interview Pool Study – Findings:

The 2007 AMCAS Application Cycle recorded 1,698 MD-PhD applicants, an increase of 11 percent over 2006 (1,528). These applicants generated 17,199 MD-PhD **applications**, also an increase of 11 percent over 2006 (15,490).

MD-PhD Invitations to Interview, Interviews, and Acceptances from Same Paired Institutions, 2006 and 2007

Program Actions	MSTP Only			Non-MSTP Only		
	2007	2006	% Change	2007	2006	% Change
Invitations by:	2,147	1,941	11%	455	340	34%
Interviews at:	1,931	1,759	10%	380	284	34%
Acceptances offered by:	852	746	14%	197	145	36%

The data for only those programs that participated in both the 2006 and 2007 studies indicate substantial increases across the application cycle. MSTP programs increased their invitations, interviews, and acceptances by more than 10 percent. Non-MSTP programs increased their invitations, interviews, and acceptances by more than a third.

³ AAMC Data Warehouse and AMCAS production.

⁴ MSTP programs that did not participate in the 2007 study are Connecticut, Minnesota, NYU, Tufts, UC-San Diego, UT-Southwestern, Virginia, and Yale.

Since 2006, MSTP Programs Dominate, but Non-MSTP Programs are Growing

2007 N = 898 Invited Applicants	MSTP Only		Non-MSTP Only		Both		Neither	
	2007	2006	2007	2006	2007	2006	2007	2006
Applicants invited by:	445 (50%)	529 (60%)	206 (23%)	164 (19%)	247 (27%)	183 (21%)	0 (0%)	0 (0%)
Applicants interviewed at:	472 (53%)	545 (62%)	194 (22%)	165 (19%)	209 (23%)	154 (17%)	23 (3%)	18 (2%)
Applicants accepted by:	348 (39%)	376 (43%)	149 (17%)	122 (14%)	87 (10%)	50 (6%)	314* (35%)	334* (38%)

*Figures include those who were invited but did not interview anywhere (23 in 2007; 18 in 2006).

Note: Row percentage totals =100 by each year.

Combining the 2007 AMCAS data with the 2007 Interview Pool Study data for all programs that provided data, we found that of the 1,698 MD-PhD applicants, slightly more than half (898, or 53%) received invitations to interview with at least one program. Of those invited, 875 were interviewed, an increase over 2006 interviews (864). We believe, however, that the actual number of interviews for 2007 is substantially higher because eight fewer MSTP programs participated in the 2007 study.

Demographic Composition of 2007 MD-PhD Applicants and Those Invited to Interview

2007 MD-PhD Applicants	#	% Female	% American Indian/Hawaii Native	% Asian	% Black/Afr. American	% Hispanic/Latino	% White	% Unknown
Not Invited to Interview	800	45	1.4	21.3	13	6.9	51.7	12.8
Invited to Interview	898	37	0.3	26.5	6.7	4.9	52.8	8.2
All	1,698	41	0.8	24	9.6	5.8	52.3	10.4

Note: # derived from combined 2007 AMCAS and 2007 Interview Pool Study data.

In 2007, the pool of MD-PhD applicants who received invitations to interview was, collectively, slightly more male, more Asian, and more White than the pool of applicants who did not receive invitations to interview.

Academic Qualifications of 2007 MD-PhD Applicants and Those Invited to Interview

2007 MD-PhD Applicants	Average (standard deviation)						
	Bio, Chem, Physical, Math GPA	Other GPA	Total GPA	MCAT Verbal Reasoning	MCAT Physical Sciences	MCAT Biological Sciences	Total MCAT
Not Invited to Interview	3.35 (.47)	3.59 (.35)	3.46 (.39)	8.99 (2.4)	9.4 (2.3)	9.7 (2.3)	28.1 (6.0)
Invited to Interview	3.71 (.25)	3.77 (.25)	3.74 (.22)	10.6 (1.6)	11.6 (1.8)	11.8 (1.5)	33.9 (3.7)

In 2007, MD-PhD applicants who were *invited to interview* collectively had academic qualifications that were significantly higher, statistically, than the academic qualifications of those who were not invited to interview ($p < .001$). Also, we noted an unusual pattern in this year's data: 23 students were invited to interview but withdrew from the process prior to interviewing anywhere.

In 2007, 35 percent of applicants invited to interview received no acceptance offer from any MD-PhD program. This represents little change from 2006 (38%). The academic qualifications (Combined MCAT and Total GPA) of those who *received an acceptance* were statistically higher compared with those who did not receive an acceptance ($p < .001$).

The two tables below present the demographic composition and academic qualifications of the 2007 interview pool, grouped by more detailed acceptances patterns.

Demographic Composition of 2007 MD-PhD Interviewees, by Acceptances Pattern

MD-PhD Applicant Profile	#	% Female	% American Indian/Hawaii Native	% Asian	% Black/Afr. American	% Hispanic/Latino	% White	% Unknown
Did NOT receive Offer	314	32	0	26	5	5.7	51	8.5
Received Only One Offer	310	36	.06	24.4	6.8	3.6	54.4	7.5
Received One Offer from Both Program Types	36	44	0	33.3	13.9	5.6	50	2.8
Received Multiple Offers from Both Program Types	9	56	0	11	11	0	67	11
Received Multiple Offers from MSTP Programs	199	40	0.5	33	8	5.5	50	8.5
Received Multiple Offers from Non-MSTP Programs	30	59	0	6.9	3.4	6.9	72.4	17.2

Academic Qualifications of 2007 MD-PhD Interviewees, by Acceptances Pattern

MD-PhD Applicant Profile	#	Average (standard deviation)						
		Bio, Chem, Physical, Math GPA	Other GPA	Total GPA	MCAT Verbal Reasoning	MCAT Physical Sciences	MCAT Biological Sciences	Total MCAT
Did Not Receive Offer	314	3.65 (.28)	3.71 (.31)	3.68 (.24)	10.3 (1.6)	11.1 (1.9)	11.2 (1.5)	32.7 (3.7)
Received Only One Offer	310	3.71 (.25)	3.78 (.23)	3.74 (.21)	10.7 (1.6)	11.6 (1.8)	11.8 (1.5)	34.0 (3.7)
Received One Offer from Both Program Types	36	3.71 (.28)	3.76 (.25)	3.7 (.24)	10.5 (1.3)	11.5 (1.8)	11.8 (1.4)	33.8 (3.4)
Received Multiple Offers from Both Program Types	9	3.80 (.17)	3.85 (.15)	3.82 (.15)	11.4 (1.3)	11.4 (1.7)	12.4 (1.0)	35.7 (2.5)
Received Multiple Offers from MSTP Programs	199	3.80 (.20)	3.82 (.18)	3.81 (.17)	11.0 (1.5)	12.3 (1.7)	12.4 (1.4)	35.7 (3.4)
Received Multiple Offers from Non-MSTP Programs	30	3.69 (.25)	3.78 (.20)	3.73 (.21)	10.2 (1.6)	11.0 (1.4)	11.8 (1.3)	32.9 (2.9)