

**Supplemental Digital Appendix I**

**Characteristics by Pre-Medical College Pathway for Applicants to U.S. Medical Schools Included in the American Medical College Application Service, 2012**

Characteristics	Non-CC	HS-CC	First- CC	Post- CC	Totals	P value <sup>a</sup>
<b>All applicants, no. (%)</b>	27,349 (67.5)	4,355 (10.8)	2,996 (7.4)	5,791 (14.3)	40,491 (100)	
<b>MD only, no. (%)</b>	26,074 (67.3)	4,168 (10.7)	2,884 (7.4)	5,621 (14.5)	38,747 (100)	< .001
<b>MSTP, no. (%)</b>	1,275 (73.1)	187 (10.7)	112 (6.4)	170 (9.8)	1,744 (100)	< .001
<b>Mean age in years (SD)</b>	22.1 (2.8)	22.2 (2.6)	23.9 (4.2)	23.8 (4.3)	22.5 (3.2)	< .001
<b>Female, no. (%)</b>	12,521 (67.1)	2,064 (11.1)	1,250 (6.7)	2,820 (15.1)	18,655 (100)	< .001
<b>Race-ethnicity</b>						< .001
White, no. (%)	15,159 (68.1)	2,462 (11.1)	1,449 (6.5)	3,198 (14.4)	22,268 (100)	
Asian, no. (%)	6,145 (69.8)	949 (10.8)	665 (7.6)	1,041 (11.8)	8,800 (100)	
Black, no. (%)	1,981 (63.9)	224 (7.2)	306 (9.9)	591 (19.1)	3,102 (100)	
Latino, no. (%)	2,025 (62.4)	346 (10.7)	360 (11.1)	517 (15.9)	3,248 (100)	
Multiple/other race, no. (%)	2,039 (66.4)	374 (12.2)	216 (7.0)	444 (14.5)	3,073 (100)	
<b>Parental education</b>						< .001
Less than college, no. (%)	4,805 (57.1)	1,050 (12.5)	1,085 (12.9)	1,474 (17.5)	8,414 (100)	
College, no. (%)	6,974 (65.1)	1,275 (11.9)	809 (7.6)	1,654 (15.4)	10,712 (100)	
Masters, no. (%)	6,484 (68.8)	1,015 (10.8)	578 (6.1)	1,344 (14.3)	9,421 (100)	
PhD or professional degree, no. (%)	9,086 (76.1)	1,015 (8.5)	524 (4.4)	1,319 (11.0)	11,944 (100)	
<b>Mean GPA (SD)</b>	3.55 (0.33)	3.56 (0.33)	3.49 (0.37)	3.47 (0.37)	3.54 (0.34)	< .001
<b>Mean MCAT score (SD)</b>	29.0 (5.33)	28.4 (5.19)	26.2 (5.80)	27.1 (5.53)	28.5 (5.46)	< .001
<b>Mean no. (SD) of MCAT exams taken</b>	1.65 (0.92)	1.69 (0.88)	1.81 (1.04)	1.81 (1.04)	1.69 (0.94)	< .001
<b>Mean no. (SD) of applications submitted</b>	14.7 (10.8)	15.2 (12.8)	15.2 (12.8)	13.9 (11.6)	14.7 (11.2)	< .001
<b>No. (SD) of years in college before application to medical school</b>	4.8 (2.1)	6.69 (3.2)	7.2 (4.6)	6.7 (4.4)	5.4 (3.0)	< .001

Abbreviations: Non-CC = applicants who never used any of the community college pathways; HS-CC = applicants who attended a community college while in high school and prior to graduating from high school; First-CC = applicants who attended a community college after graduating from high school and prior to transferring to a four-year university; Post-CC = applicants who attended a community college during or after graduating from a four-year university; MSTP = Medical Scientist Training Program or MD-PhD dual-degree program; GPA = grade point average; MCAT = Medical College Admission Test; SD = standard deviation.

<sup>a</sup> Represents significance based on  $\chi^2$  test for proportional distribution.

Supplemental digital content for Talamantes E, Mangione CM, Gonzalez K, Jimenez A, Moreno G. Community College Pathways: Improving the U.S. Physician Workforce Pipeline. Acad Med.

**Supplemental Digital Table 2**

**Adjusted Multivariable Regressions Models for Matriculants' Acceptance to MD-Granting and MSTP Programs by Community College Pathway and Race-Ethnicity, 2012**

Pathway	White, AOR <sup>a</sup> (95% CI)	Asian, AOR <sup>a</sup> (95% CI)	Black, AOR <sup>a</sup> (95% CI)	Latino, AOR <sup>a</sup> (95% CI)	Multiple/other, AOR <sup>a</sup> (95% CI)
Non-CC	Ref	Ref	Ref	Ref	Ref
HS-CC	0.94 (0.84-1.05)	1.10 (0.93-1.31)	0.90 (0.60-1.35)	0.71 (0.54-0.93) <sup>b</sup>	1.10 (0.84-1.45)
First-CC	0.72 (0.62-0.85) <sup>b</sup>	0.74 (0.57-0.96) <sup>b</sup>	0.75 (0.51-1.09)	0.49 (0.37-0.67) <sup>b</sup>	0.66 (0.44-0.99) <sup>b</sup>
Post-CC	0.91 (0.82-1.00)	1.10 (0.93-1.31)	1.12 (0.85-1.49)	0.84 (0.66-1.08)	0.99 (0.77-1.29)

Abbreviations: AOR = adjusted odds ratio; MSTP = Medical Scientist Training Program or MD-PhD dual-degree program; Non-CC = applicants who never used any of the community college pathways; HS-CC = applicants who attended a community college while in high school and prior to graduating from high school; First-CC = applicants who attended a community college after graduating from high school and prior to transferring to a four-year university; Post-CC = applicants who attended a community college during or after graduating from a four-year university; Ref = reference.

<sup>a</sup> Adjusted for age, gender, parental education, Medical College Admission Test score, grade point average, and years between high school and application to medical school.

<sup>b</sup>  $P < .05$ , using Non-CC as reference group.