



Medical Education Debt: A Comparison of M.D. and D.O Students

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Objectives

- To present comparative data regarding debt levels of D.O. and M.D. students
- To explore the relationship between rising tuition costs and debt
- To provide insight into some possible factors contributing to debt disparities between D.O. and M.D. students
- To examine possible consequences of the current and future debt levels of medical students



What is the current landscape of osteopathic medical student debt?



| | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|--------------------|-----------|-----------|-----------|-----------|
| Private DO schools | \$227,564 | \$236,639 | \$246,941 | \$253,168 |
| Public DO schools | \$192,896 | \$200,348 | \$208,962 | \$217,525 |
| All DO schools | \$220,945 | \$229,934 | \$240,331 | \$247,218 |



M.D. Student Debt



| | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|--------------------|-----------|-----------|-----------|-----------|
| Private MD schools | \$190,053 | \$193,483 | \$203,201 | \$206,204 |
| Public MD schools | \$167,763 | \$172,751 | \$180,610 | \$181,179 |
| All MD schools | \$176,348 | \$180,723 | \$189,165 | \$190,694 |



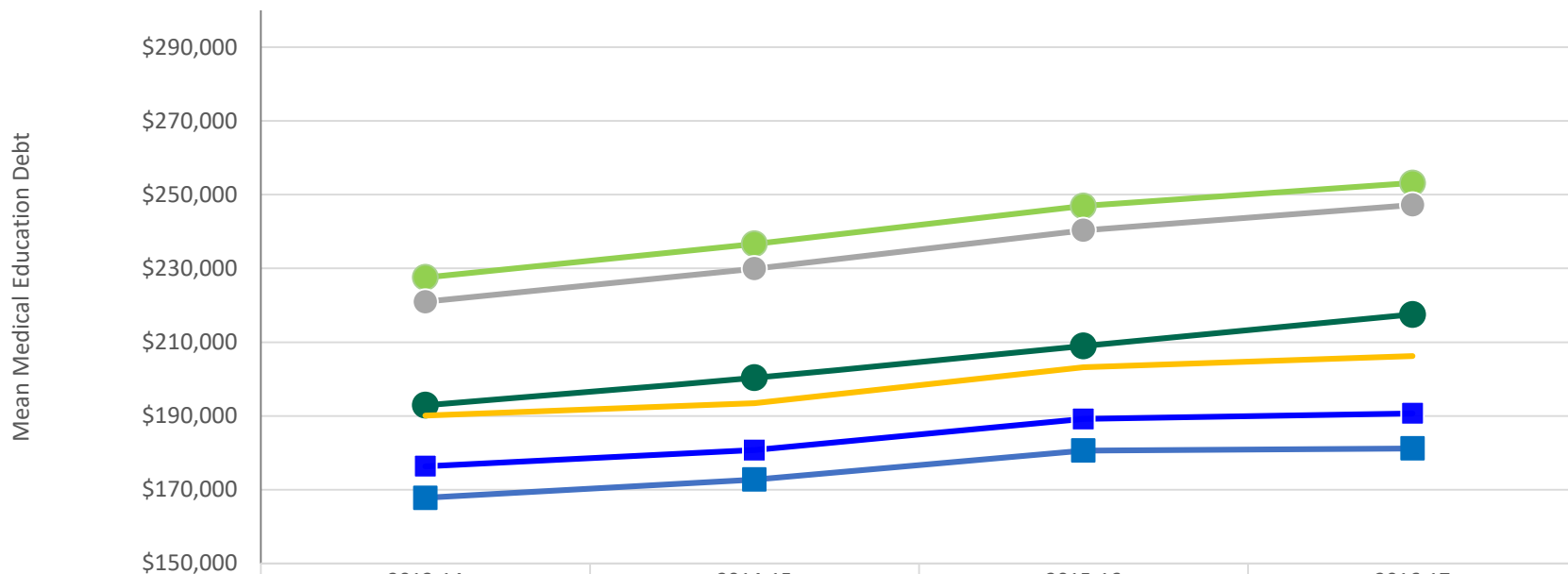
Medical Education Debt: All Medical Students



| | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|--------------------|-----------|-----------|-----------|-----------|
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Medical Student Debt: D.O. and M.D. Students

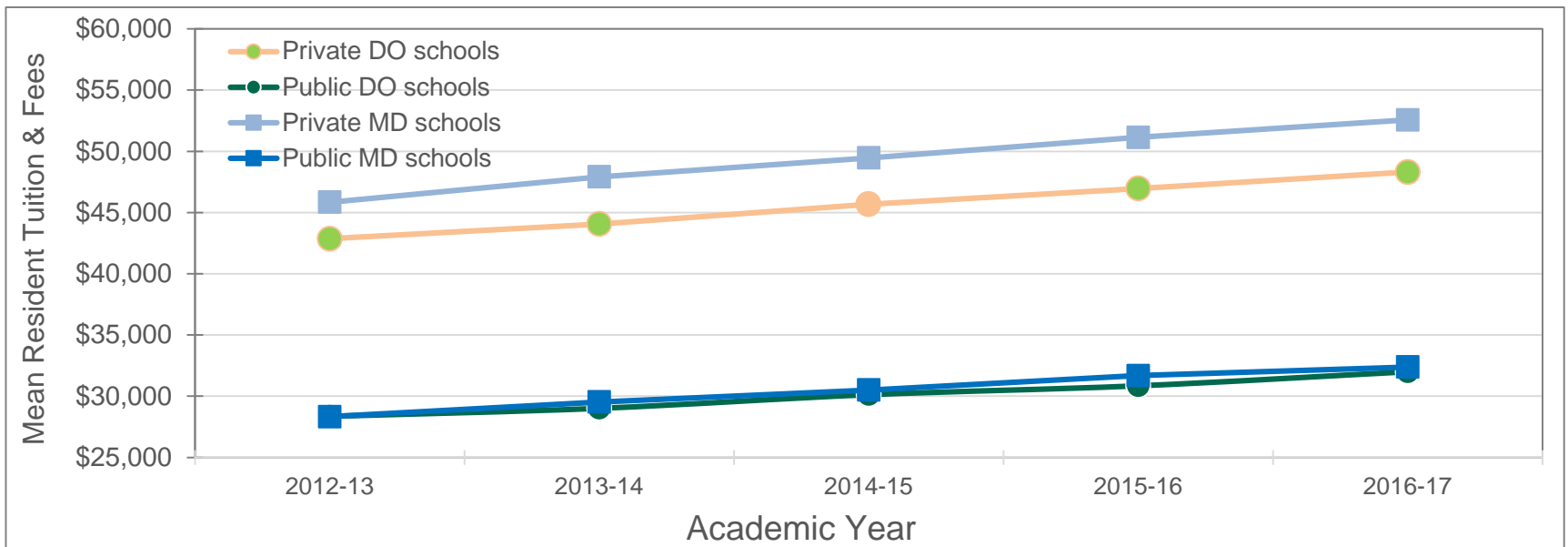


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Tuition and Fees

| | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|--------------------|----------|----------|----------|----------|----------|
| Private DO schools | \$42,867 | \$44,068 | \$45,684 | \$46,969 | \$48,307 |
| Public DO schools | \$28,366 | \$29,017 | \$30,125 | \$30,847 | \$31,989 |
| All DO schools | \$40,060 | \$41,412 | \$43,017 | \$44,282 | \$45,661 |
| Private MD schools | \$45,851 | \$47,914 | \$49,464 | \$51,141 | \$52,570 |
| Public MD schools | \$28,334 | \$29,527 | \$30,504 | \$31,684 | \$32,379 |



Debt to Tuition Ratios: Public Institutions



| | 2013-14 | | | 2014-15 | | | 2015-16 | | | 2016-17 | | |
|------------------------------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|
| | TUITION | DEBT | DEBT:TUIT | TUITION | DEBT | DEBT:TUIT | TUITION | DEBT | DEBT:TUIT | TUITION | DEBT | DEBT:TUIT |
| Public - Resident | | | | | | | | | | | | |
| DO | \$29,017 | \$192,896 | 6.65 | \$30,125 | \$200,348 | 6.65 | \$30,847 | \$208,962 | 6.77 | \$31,989 | \$217,525 | 6.80 |
| MD | \$29,527 | \$167,763 | 5.68 | \$30,504 | \$172,751 | 5.66 | \$31,684 | \$180,610 | 5.70 | \$32,379 | \$181,179 | 5.60 |
| | -1.76% | 13.03% | | -1.26% | 13.77% | | -2.71% | 13.57% | | -1.22% | 16.71% | |
| Public - Non Resident | | | | | | | | | | | | |
| DO | \$52,976 | \$192,896 | 3.64 | \$54,155 | \$200,348 | 3.70 | \$55,141 | \$208,962 | 3.79 | \$57,095 | \$217,525 | 3.81 |
| MD | \$52,743 | \$167,763 | 3.18 | \$54,110 | \$172,751 | 3.19 | \$55,622 | \$180,610 | 3.25 | \$56,446 | \$181,179 | 3.21 |
| | 0.44% | 13.03% | | 0.08% | 13.77% | | -0.87% | 13.57% | | 1.14% | 16.71% | |

Debt to Tuition Ratios: Private Institutions



| | 2013-14 | | | 2014-15 | | | 2015-16 | | | 2016-17 | | |
|---------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|
| | TUITION | DEBT | DEBT:TUIT | TUITION | DEBT | DEBT:TUIT | TUITION | DEBT | DEBT:TUIT | TUITION | DEBT | DEBT:TUIT |
| Private | | | | | | | | | | | | |
| DO | \$44,068 | \$227,564 | 5.16 | \$45,684 | \$236,639 | 5.18 | \$46,969 | \$246,941 | 5.26 | \$48,307 | \$253,168 | 5.24 |
| MD | \$47,914 | \$190,053 | 3.97 | \$49,464 | \$193,483 | 3.91 | \$51,141 | \$203,201 | 3.97 | \$52,570 | \$206,204 | 3.92 |
| | -8.73% | 16.48% | | -8.27% | 18.24% | | -8.88% | 17.71% | | -8.82% | 18.55% | |

Scholarships and Grants

Percentage of Students Receiving Scholarships and Grants

| | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|----------------|---------|---------|---------|---------|
| All DO schools | 43% | 41% | 40% | 42% |
| All MD schools | 61% | 61% | 63% | 63% |

Median Amount of Grants and Scholarships Awarded

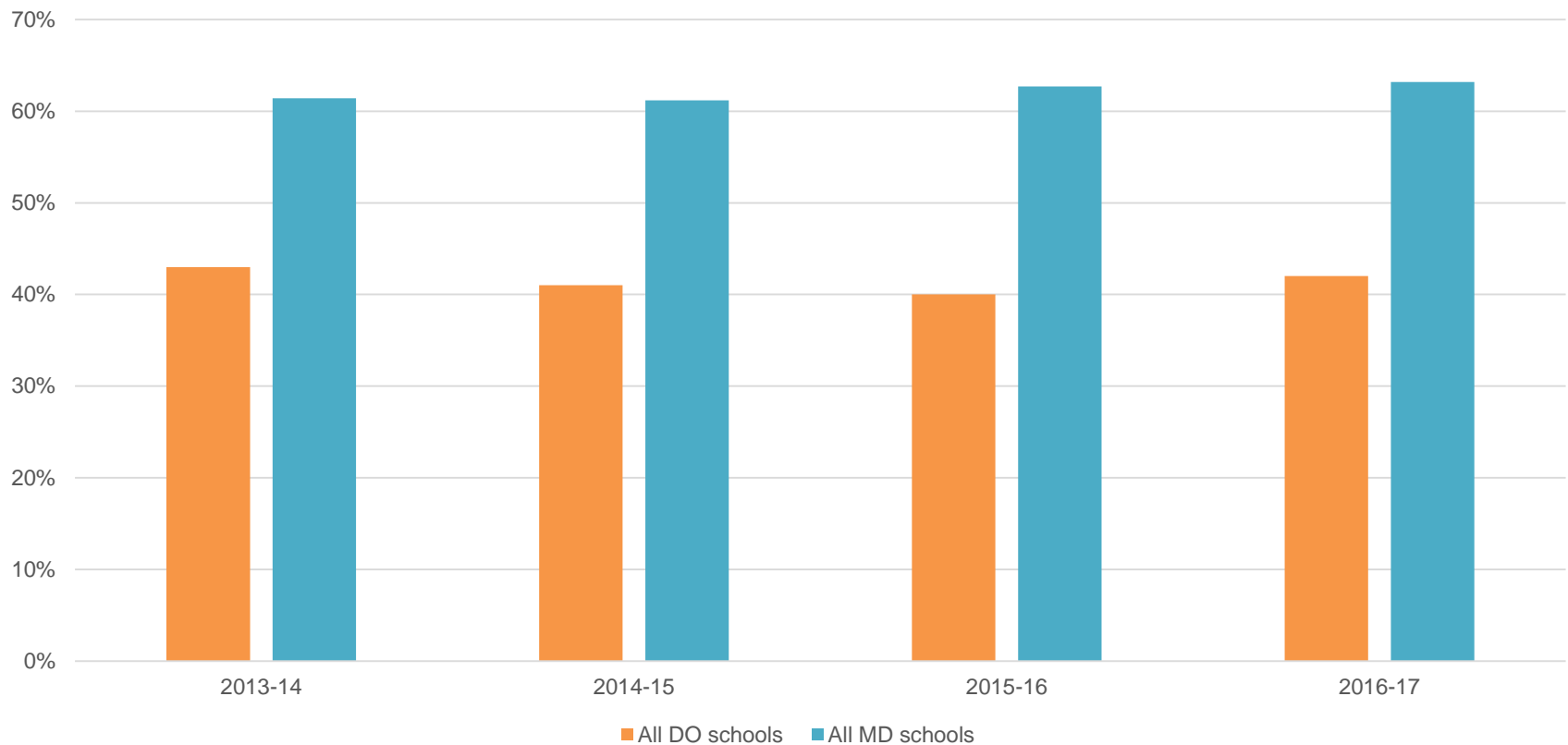
| | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|----------------|----------|----------|----------|----------|
| All DO schools | \$10,000 | \$10,000 | \$9,500 | \$10,000 |
| All MD schools | \$23,000 | \$25,000 | \$20,000 | \$24,000 |



Scholarships and Grants: D.O. and M.D. Students



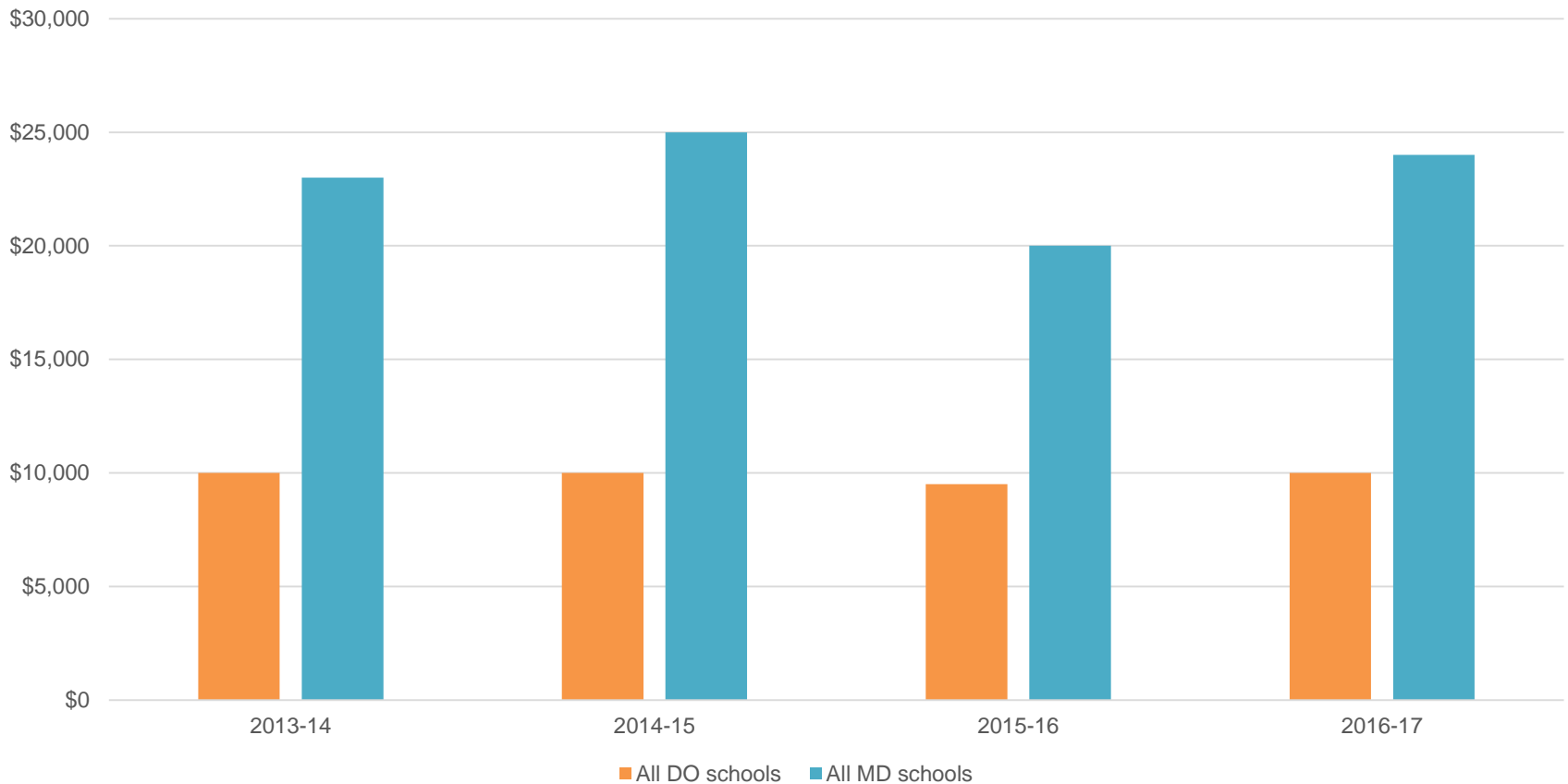
Percentage of Students Receiving Grants and Scholarships



Amount of Grants and Scholarships Awarded: D.O. and M.D. Students



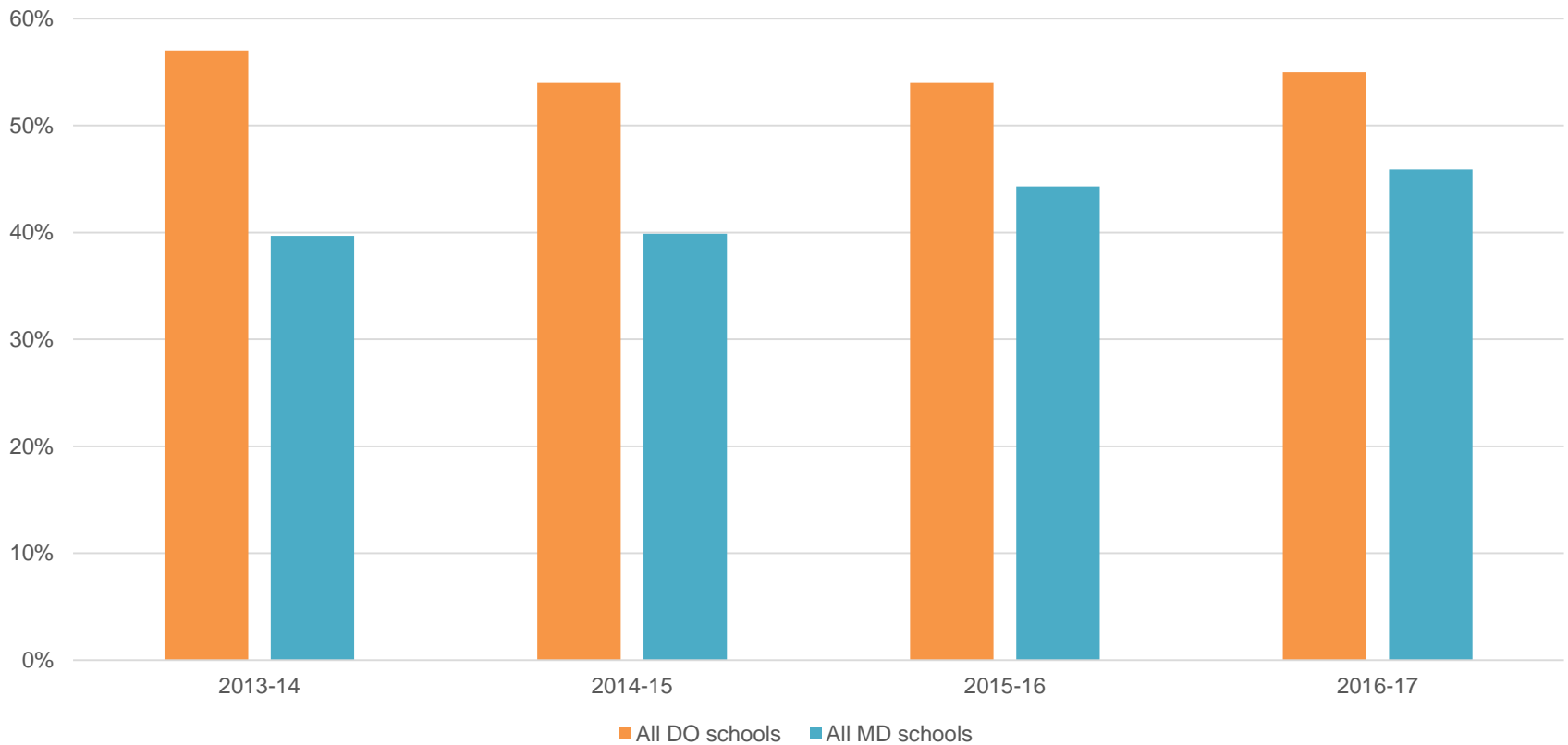
Median Sum of Grants and Scholarships Awarded



Loan Forgiveness



Percentage of Students Planning to Enter Into a Loan Forgiveness Program



Tuition Costs

- Analyses of tuition costs at medical schools do not point to a significant driver of tuition differences between institutions, only indicating that there is significant variability between institutions.

(Gil, Park, & Daniels, 2015)



Implications of High Debt Levels

- Research has indicate that high levels of debt may make it less likely that a student will consider a career in primary care

(Grayson, Newton & Thompson, 2012; Phillips, Petterman, Bazemore, & Phillips, 2014; Rohlfing et al., 2014)

- Rising costs of medical education act as a deterrent for students who come from lower socioeconomic status backgrounds, threatening the diversity of the future physician workforce

(Dugger, et al., 2013)

- Studies show that the amount of a student's anticipated debt is correlated with higher levels of stress for students

(Morra, Regehr, & Ginsberg, 2008; Rohfling et al., 2014)



References

- American Association of Colleges of Osteopathic Medicine. (2017). *AACOM 2016-17 academic year survey of graduating seniors summary*. Retrieved from: <http://www.aacom.org/docs/default-source/data-and-trends/2016-17-graduating-seniors-summary.pdf>.
- American Association of Colleges of Osteopathic Medicine (2017). *Osteopathic college tuition and fees (1st year) and historical report*. Retrieved from: <http://www.aacom.org/news-and-events/publications/iome/2016/sept/tuition-fees-report>.
- American Association of Medical Colleges. (2017). *Tuition and student fees report, 2012-2013 through 2016-2017*. Retrieved from: <https://www.aamc.org/data/tuitionandstudentfees/>.
- American Association of Medical Colleges. (2017a). *Medical school graduation questionnaire: 2017 All Schools Summary Report*. Retrieved from: <https://www.aamc.org/data/msg/64316/allschoolssummaryreports.html>
- American Association of Medical Colleges. (2017b). *Medical student education: Debt, costs, and loan repayment fact card*. Retrieved from: https://members.aamc.org/eweb/upload/2017_Debt_Fact_Card.pdf
- American Association of Medical Colleges. (2016). *Medical student education: Debt, costs, and loan repayment fact card*. Retrieved from: https://members.aamc.org/eweb/upload/2016_Debt_Fact_Card.pdf
- American Association of Medical Colleges. (2015). *Medical student education: Debt, costs, and loan repayment fact card*. Retrieved from: <https://members.aamc.org/eweb/upload/2015%20Debt%20Fact%20Card.pdf>
- American Association of Medical Colleges. (2014). *Medical student education: Debt, costs, and loan repayment fact card*. Retrieved from: https://members.aamc.org/eweb/upload/2014%20DFC_%20vertical.pdf
- American Association of Medical Colleges. (2013). *Physician education debt and the cost to attend medical school*. Retrieved from: <https://members.aamc.org/eweb/upload/Physician%20Education%20Debt%20and%20the%20Cost%20to%20Attend%20Medical%20School,%202012%20Update.pdf>
- Dugger, R. A., El-Sayed, A. M., Dogra, A., Messina, C., Bronson, R., & Galea, S. (2013). The color of debt: racial disparities in anticipated medical student debt in the United States. *PLoS One*, 8(9), 1-7.



References

Gevitz, N. (2009). The transformation of osteopathic medical education. *Academic Medicine*, 84(6), 701-706.

Gil, J. A., Park, S. H., & Daniels, A. H. (2015). Variability in United States Allopathic Medical School Tuition. *The American journal of medicine*, 128(11), 1257-1262.

Grayson, M. S., Newton, D. A., & Thompson, L. F. (2012). Payback time: the associations of debt and income with medical student career choice. *Medical Education*, 46(10), 983-991.

Greysen, S. R., Chen, C., & Mullan, F. (2011). A history of medical student debt: observations and implications for the future of medical education. *Academic Medicine*, 86(7), 840-845.

Morra, D. J., Regehr, G., & Ginsburg, S. (2008). Anticipated debt and financial stress in medical students. *Medical teacher*, 30(3), 313-315.

Phillips, J. P., Petterson, S. M., Bazemore, A. W., & Phillips, R. L. (2014). A retrospective analysis of the relationship between medical student debt and primary care practice in the United States. *The Annals of Family Medicine*, 12(6), 542-549.

Rohlfing, J., Navarro, R., Maniya, O. Z., Hughes, B. D., & Rogalsky, D. K. (2014). Medical student debt and major life choices other than specialty. *Medical education online*, 19(1), 1-10.

Steinbrook, R. (2008). Medical student debt--is there a limit?. *The New England journal of medicine*, 359(25), 2629.

