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Table of Contents

Series 1: AAMC-Member Teaching Hospital Overview

[AAMC-Member Teaching Hospitals by Category](#)

[AAMC-Member Teaching Hospitals by Ownership Category](#)

[AAMC Membership Geography](#)

[Comparison of Hospitals by Bed Size](#)

Series 2: AAMC-Member Teaching Hospital and GME

[The Role of AAMC-Member Teaching Hospitals in Graduate Medical Education](#)

[Residents Educated at AAMC-Member Teaching and Other Teaching Hospitals](#)

[Per Resident Amount](#)

[Medicare Coverage of DGME costs](#)

Series 3: AAMC-Member Teaching Hospital Clinical Services

[Overview of AAMC-Member Hospital Services](#)

[AAMC-Member Teaching Hospitals Treat Higher Rates of Outlier Cases and the Trend Continues](#)

[Outpatient Visits, by Bed Size and Teaching Status](#)

[Comparison of Length of Stay, Case Complexity and Occupancy Rates Among AAMC-Member Teaching, Other Teaching, and Non-Teaching Hospitals](#)

[Change in Median Length of Stay Rates Among Hospitals by Teaching Status, FY2019-2020](#)

[Change in Median Occupancy Rates Among Hospitals by Teaching Status, FY2019-2020](#)

[AAMC-Member Teaching Hospitals Treat Higher Rates of Transfers](#)

[Patient Mortality is Lower at Teaching Hospitals](#)

Series 4: AAMC-Member Teaching Hospital Financial Information

[Proportion of Charity Care Costs Provided at AAMC-Member Teaching and Other Hospitals](#)

[Median Amount of Charity and Uncompensated Care Provided at AAMC-Member Teaching and Other Hospitals](#)

[Net Patient Revenue Payer Mix at AAMC-Member Teaching and Other Hospitals](#)

[Net Patient Revenue Payer Mix at Hospitals by Teaching Status, FY2019-2020](#)

[Aggregate Patient Care Margins at AAMC-Member and Non-Member Teaching](#)

Series 5: AAMC-Member Teaching Veterans' Affairs and Children's Hospitals

[Distribution of Residents at VA Hospitals](#)

[Distribution of Residents at Children's Teaching Hospitals](#)

Table 1-1

AAMC-Member Teaching Hospitals by Category, 2021

AAMC-Member Teaching Hospital Category	Number of Members	Percentage
Integrated	107	40.4%
Independent	109	41.1%
Specialty	7	2.6%
Children's	18	6.8%
Veteran's Affairs	23	8.7%
Other Federal (NIH)	1	0.4%
Total	265	100.0%

Notes: Counts exclude corresponding members. Integrated and independent institutions are all short-term, general, nonfederal AAMC members.

Source: AAMC membership data, December 2021

Table 1-2

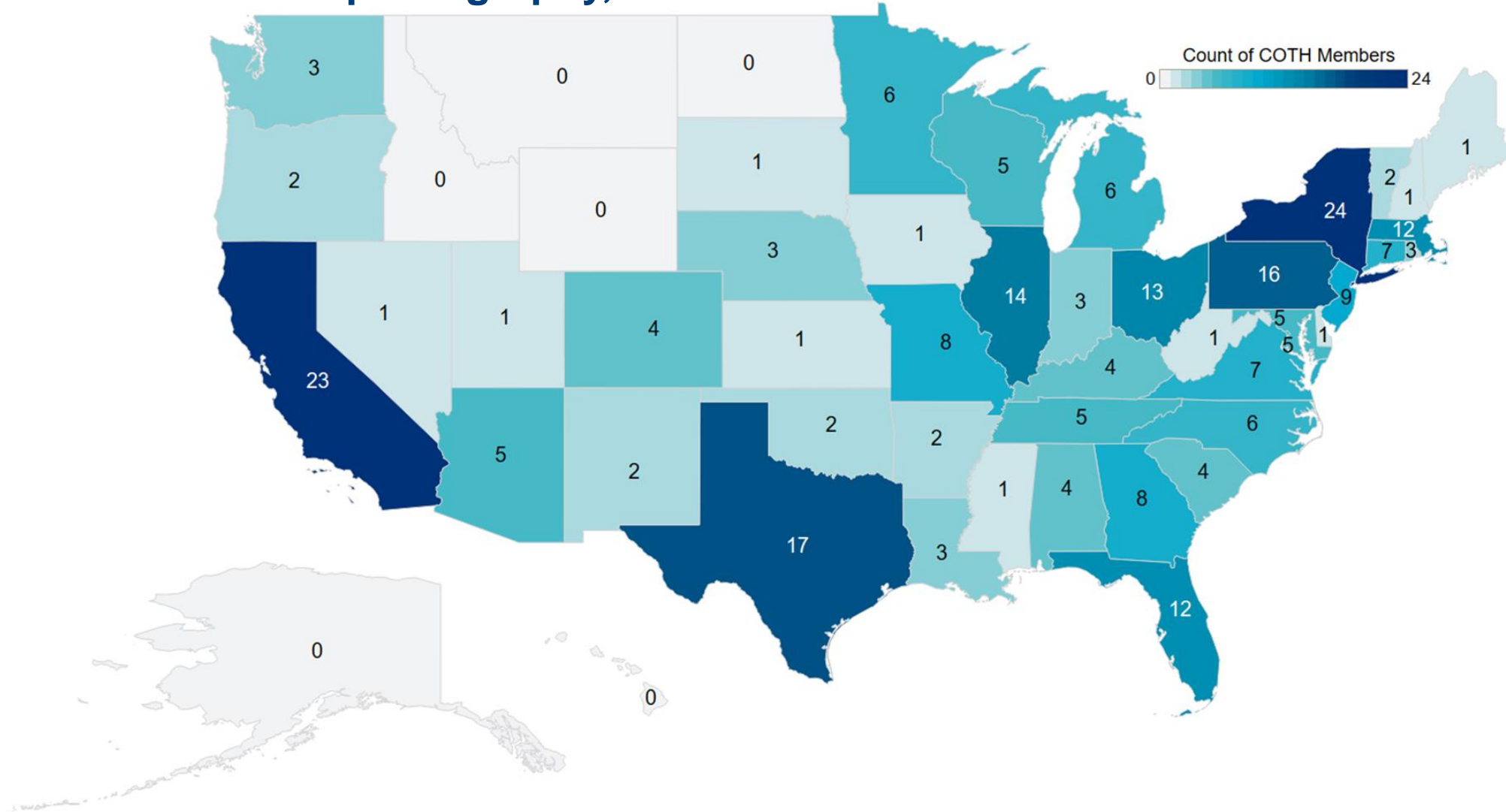
Integrated and Independent AAMC-Members by Ownership Category, 2021

Category	Number of Members	Percentage
Church	14	6.5%
For-profit	3	1.4%
Municipal/county/city	22	10.2%
Other not-for-profit	152	70.4%
State government	25	11.6%
Total	216	100.0%

Notes: Data reflect short-term, general, nonfederal, integrated and independent AAMC-member hospitals. Short-term, general, nonfederal designation obtained from the FY2020 American Hospital Association file. Excludes all corresponding members as well as specialty, children's, VA, and other federal hospitals.

Source: AAMC membership data, December 2021. Ownership categories obtained from the FY2020 American Hospital Association data.

Chart 1-3 AAMC Membership Geography, December 2021



Notes: Includes independent, integrated, children's, specialty, VA, and other federal hospitals. Counts exclude corresponding members. Integrated and independent institutions are all short-term, general, nonfederal AAMC-member teaching hospitals.

Source: AAMC membership data, December 2021.

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Table 1-4

Comparison of Hospitals by Bed Size, FY2020

Bed Size	AAMC-Member Integrated and Independent Hospitals		All Hospitals	
	No. of Hospitals	Percent of AAMC Hospitals	No. of Hospitals	Percent of All Hospitals
Fewer than 200 beds	5	2.3%	3,036	71.2%
200-299 beds	9	4.2%	478	11.2%
300-399 beds	25	11.6%	290	6.8%
400-499 beds	30	14.0%	164	3.8%
500+ beds	146	67.9%	297	7.0%
Total	215	100.0%	4,265	100.0%

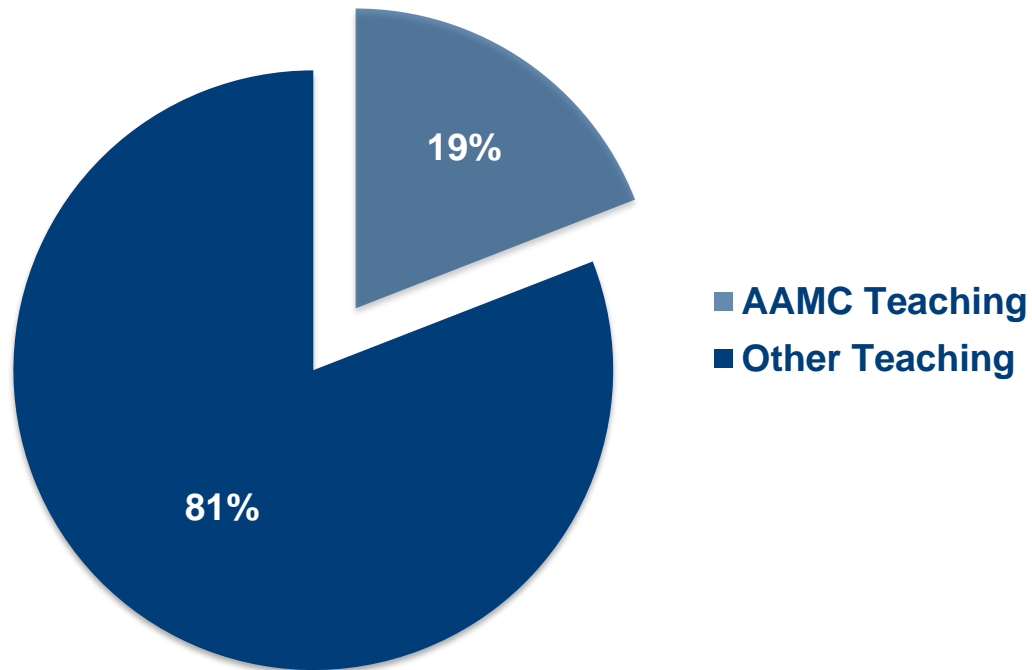
Notes: Data reflect short-term, general, nonfederal hospitals. AAMC-member hospitals reflect integrated and independent AAMC members, excluding corresponding members, as well as specialty, children's, VA, and other federal hospitals.

Source: AAMC analysis of FY2020 American Hospital Association data. AAMC membership data, December 2021.

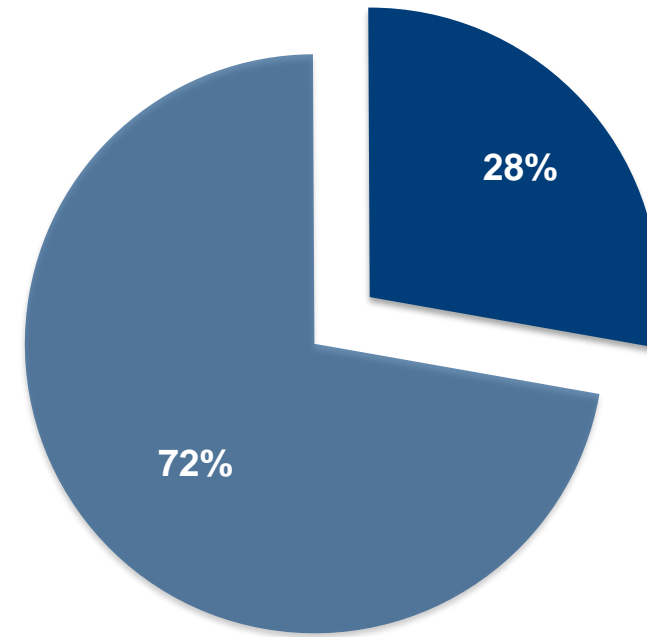
Chart 2-1

The Role of AAMC-Member Teaching Hospitals in Graduate Medical Education, FY2020

AAMC-Member Teaching Hospitals as a Percent of All Teaching Hospitals



Residents Educated at AAMC-Member and Other Teaching Hospitals



Notes: Data reflect short-term, general, non-federal hospitals. Data for AAMC-member teaching hospitals reflect integrated and independent AAMC members.
Source: AAMC analysis of FY2020 American Hospital Association data. AAMC membership data, December 2021

Table 2-2

Residents Educated at AAMC-Member and Other Teaching Hospitals, FY2020

Bed Size	AAMC-Member Teaching Hospitals			All Other Teaching Hospitals		
	No. of Hospitals	Percent of All AAMC-Member Teaching Hospitals	Median No. of Residents	No. of Hospitals	Percent of All Other Teaching Hospitals	Median No. of Residents
Fewer than 200 beds	4	2.3%	51	186	30.7%	12
200-299 beds	8	4.6%	53	162	26.8%	18
300-399	19	11.0%	128	113	18.7%	39
400-499	24	13.9%	144	65	10.7%	38
500+	118	68.2%	470	79	13.1%	92
Total	173	100.0%	328	605	100.0%	24

Notes: Data reflect short-term, general, nonfederal hospitals. Teaching hospitals are defined as having intern and resident to bed ratio greater than zero (FY2021 IPPS Correction Notice to the Final Rule impact file) and reported number of FTE residents in the FY2020 AHA annual survey. The counts of hospitals reflect such a definition.

Source: AAMC analysis of FY2020 American Hospital Association data. AAMC membership data, December 2021.

Table 2-3

There are approximately 118,645 trainees, including 113,995 residents in ACGME and AOA accredited programs. Of trainees in those programs, Medicare reimburses only 89,578 at or below the cap established in 1997.

Per Resident Amount, FY2019

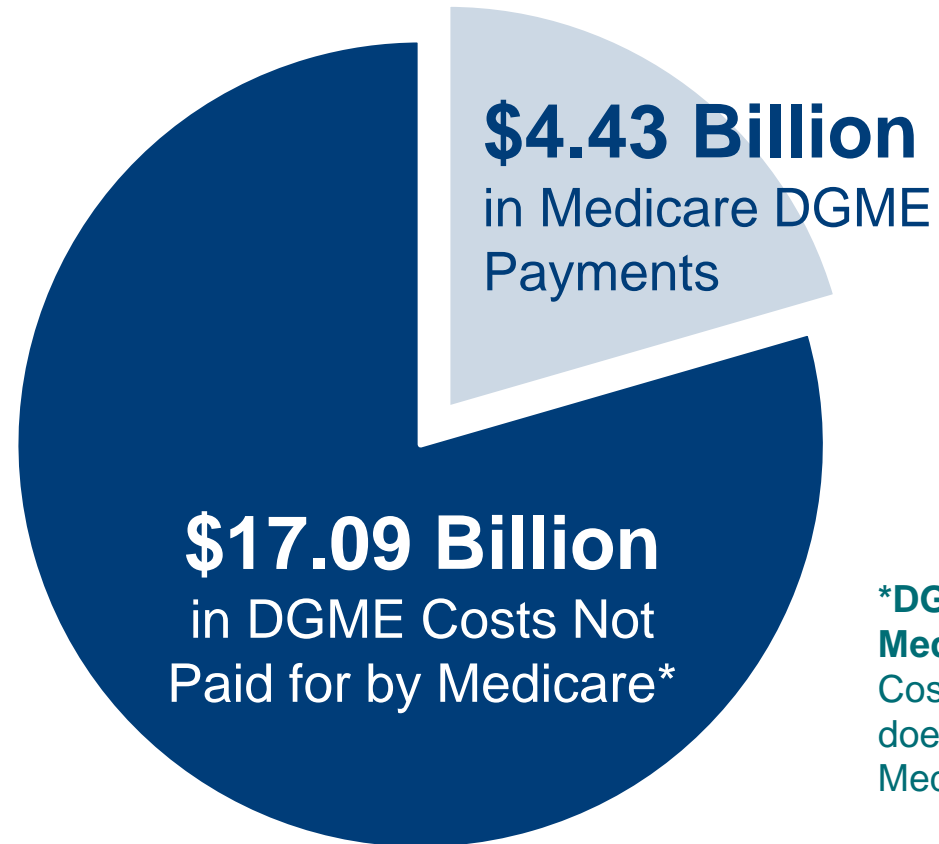
DGME Cost per Trainee	Average Cost
Average Cost per trainee	\$181,392
Average Per Resident Amount (PRA)*	\$118,484
Average Medicare DGME payment per Resident (based on Medicare's share of the PRA)	\$49,415
Total Cost of Training in US Teaching Hospitals	\$21.5 billion
Total Medicare DGME Payment	\$4.4 billion
Medicare underpayment (based on Medicare share of DGME costs)	\$4.2 billion

*The amount Medicare uses which represents the maximum payment from Medicare per resident assuming 100% of care is borne by Medicare

Source: AAMC Analysis of FY2019 Medicare Cost Report data, July 2021 Hospital Cost Reporting Information System (HCRIS) release. If FY2019 data is not available, FY2018 data is used.

Medicare Covered Only 21% of All DGME Costs for US Teaching Hospitals in FY2019

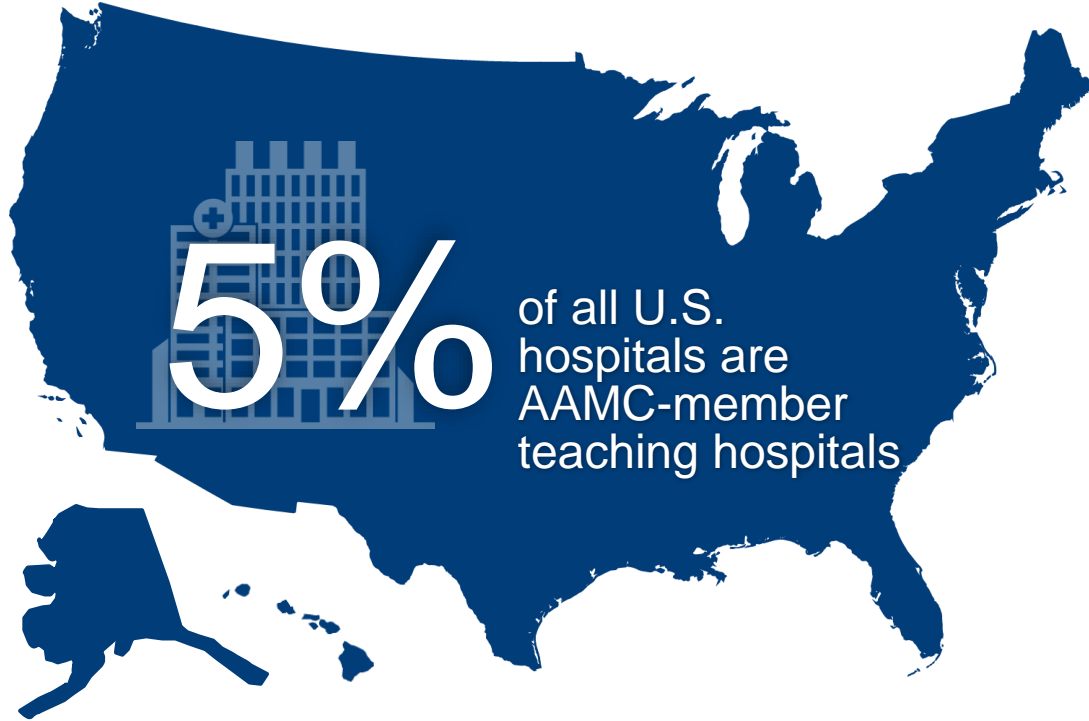
Total Teaching Hospital DGME Costs FY2019
\$21.52 Billion



***DGME Costs Not Paid for by Medicare = \$4.17B in Medicare Costs above the Cap that Medicare does not pay and \$12.93 B in non-Medicare DGME costs.**

Note: This analysis was restricted to hospitals that were included in the FY2022 IPPS impact file released by CMS. The total training costs include intern and resident salary, fringe, and other costs.
Source: AAMC Analysis of FY2019 Medicare Cost Report data, July 2021 Hospital Cost Reporting Information System (HCRIS) release. If FY2019 data is not available, FY2018 data is used.

Overview of AAMC-Member Hospital Services



AAMC-member teaching hospitals operate:

However, they provide:

26% of Medicaid hospitalizations



30% of hospital charity care



98% of comprehensive cancer centers

67% of burn unit beds

65% of level-one trauma centers

63% of pediatric ICU beds

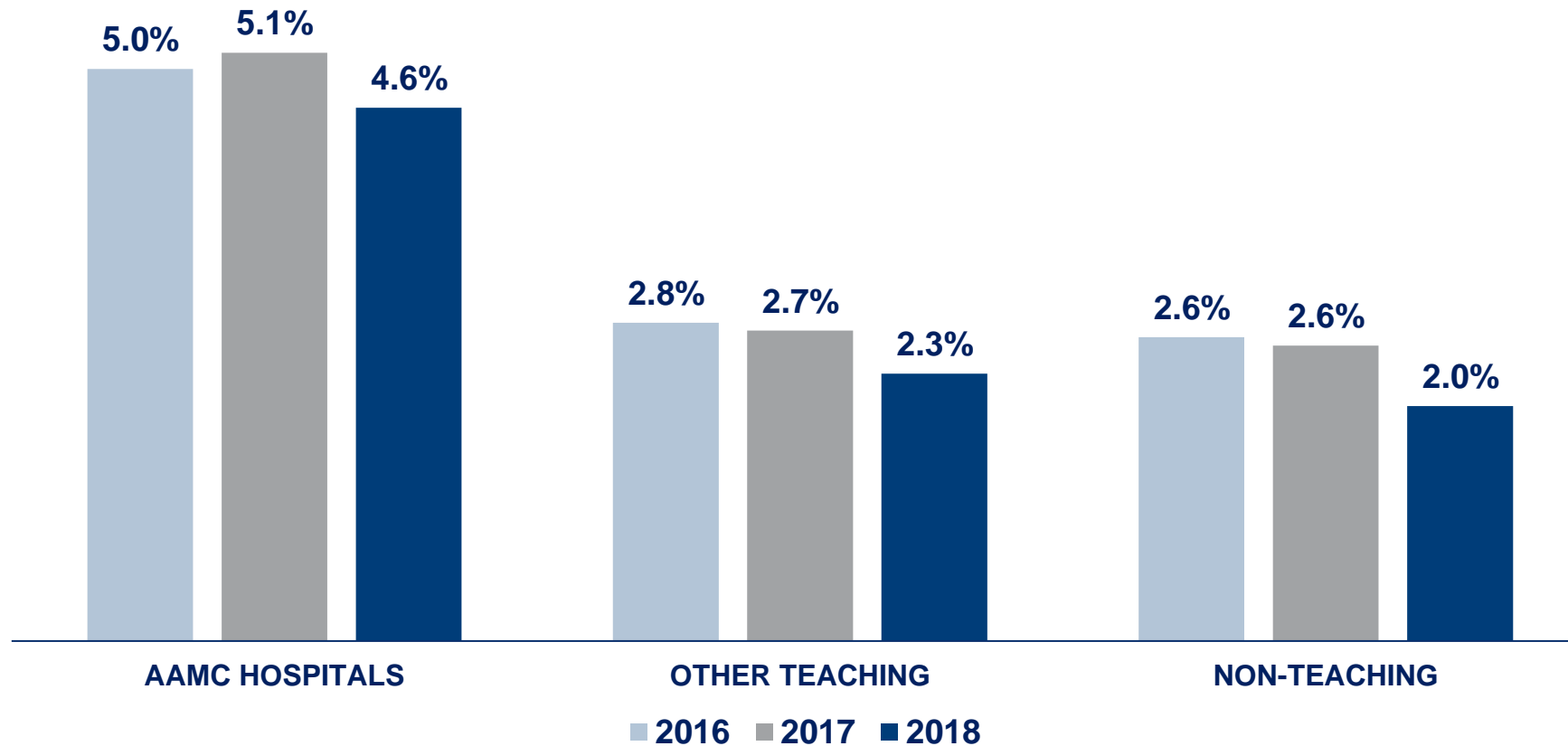
Note: Data reflect short-term, general, nonfederal hospitals.

Source: AAMC analysis of FY2020 American Hospital Association data, American College of Surgeons Level 1 Trauma Center designations, 2020, and the National Cancer Institute's Office of Cancer Centers, 2022. AAMC membership data, December 2021.

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Chart 3-2

AAMC-Member Teaching Hospitals Treat Higher Rates of Outlier Cases and the Trend Continues, FY2016-2018



Notes: This analysis controlled for payment factors (DRG weight, wage index, IRB ratio, and disproportionate patient percentage) and random hospital-specific effects.
Source: AAMC analysis of Medicare claims data from FY 2016, 2017 and 2018. The outlier threshold amounts are from FY2021, FY 2020 and FY2019 IPPS Final Rule and Correction Notices

Table 3-3

Outpatient Visits by Bed Size and Teaching Status, FY2020

Bed Size	Median Outpatient Visits		
	AAMC-Member Teaching Hospitals	Other Teaching Hospitals	Nonteaching Hospitals
Fewer than 200 beds	310,932	112,925	44,055
200-299 beds	182,162	171,742	136,746
300-399 beds	216,884	196,212	185,622
400-499 beds	365,501	254,721	209,946
500+ beds	716,772	419,476	239,404
Total	516,409	180,432	52,752

Notes: Data reflect short-term, general, nonfederal hospitals. Data for AAMC-member teaching hospitals reflect integrated and independent AAMC members.
Source: AAMC analysis of FY2020 American Hospital Association data. AAMC membership data, December 2021.

Table 3-4

Comparison of Length of Stay, Case Complexity and Occupancy Rates Among Hospitals by Teaching Status, FY2020

	Median Length of Stay (in days)*	Aggregate Case Mix**	Median Occupancy Rate
AAMC-Member Teaching Hospitals	6.0	2.03	73%
Other Teaching Hospitals	4.9	1.77	61%
Nonteaching Hospitals	4.6	1.65	43%

*Length of stay is not adjusted to reflect complexity of patient population (i.e., case mix)

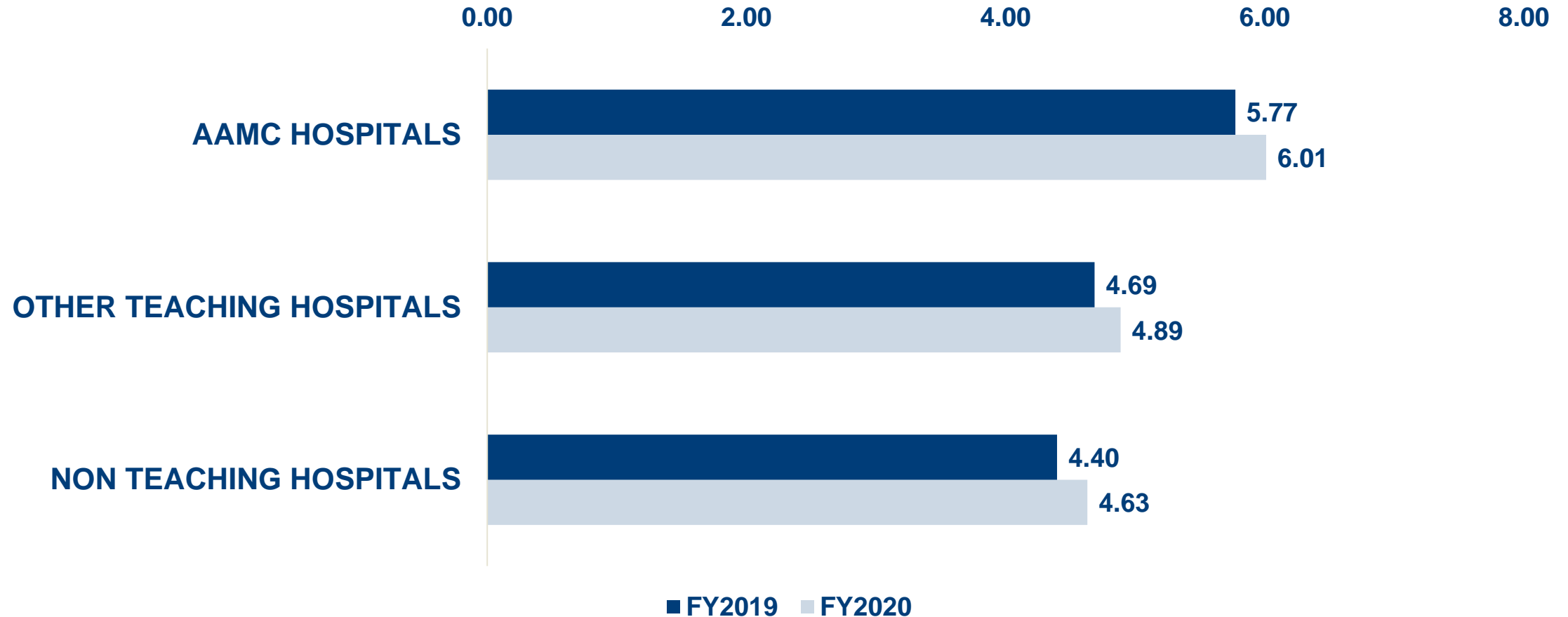
**Based on 2018 Medicare claims data

Notes: Data reflect short-term, general, nonfederal hospitals. Data for AAMC-member teaching hospitals reflect integrated and independent AAMC members.

Source: AAMC analysis of FY2020 American Hospital Association data. AAMC membership data, December 2021.

Chart 3-5

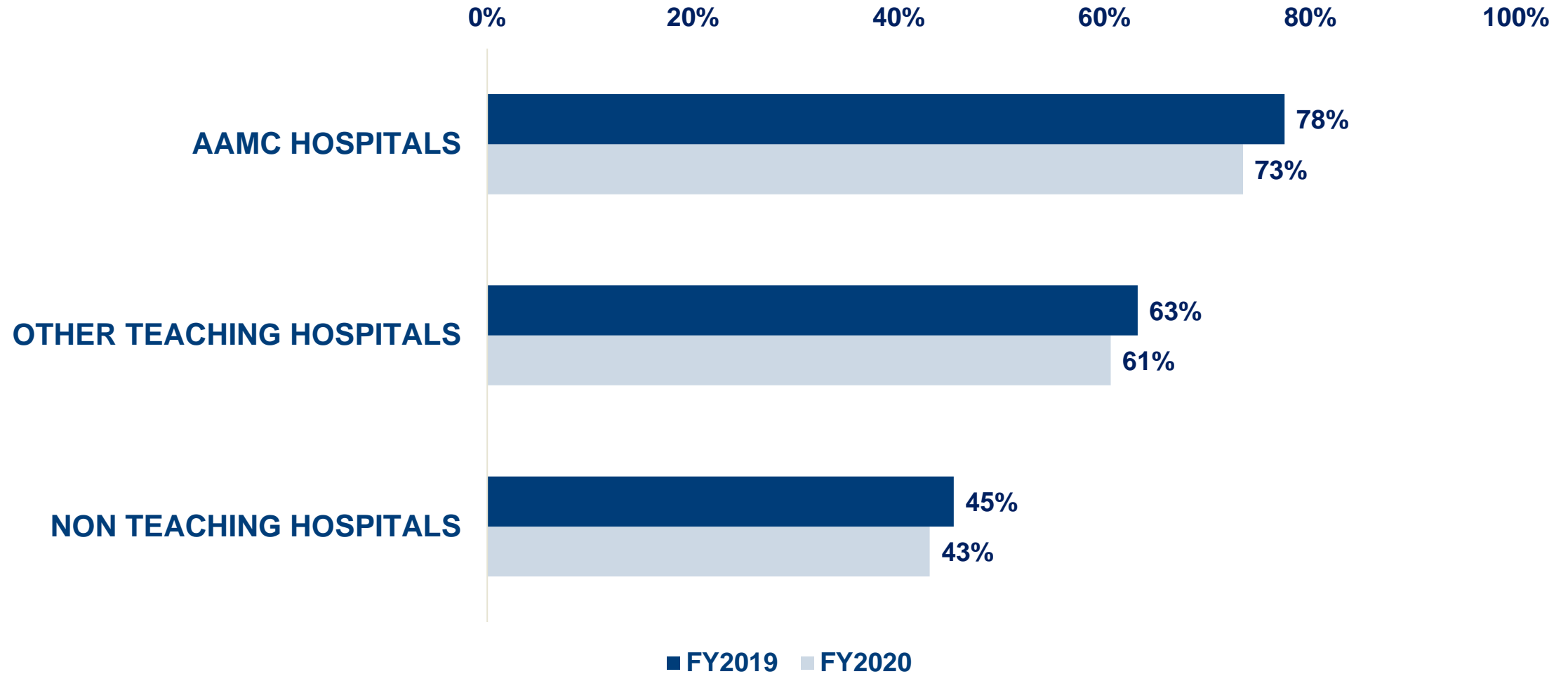
Change in Median Length of Stay Rates Among Hospitals by Teaching Status, FY2019-2020



*Length of stay is not adjusted to reflect complexity of patient population (i.e., case mix)

Notes: Data reflect short-term, general, nonfederal hospitals. Data for AAMC-member teaching hospitals reflect integrated and independent AAMC members.
Source: AAMC analysis of FY2019 and FY2020 American Hospital Association data. AAMC membership data, December 2021.

Chart 3-6 Change in Median Occupancy Rates Among Hospitals by Teaching Status, FY2019-2020



Notes: Data reflect short-term, general, nonfederal hospitals. Data for AAMC-member teaching hospitals reflect integrated and independent AAMC members.
Source: AAMC analysis of FY2019 and FY2020 American Hospital Association data. AAMC membership data, December 2021.

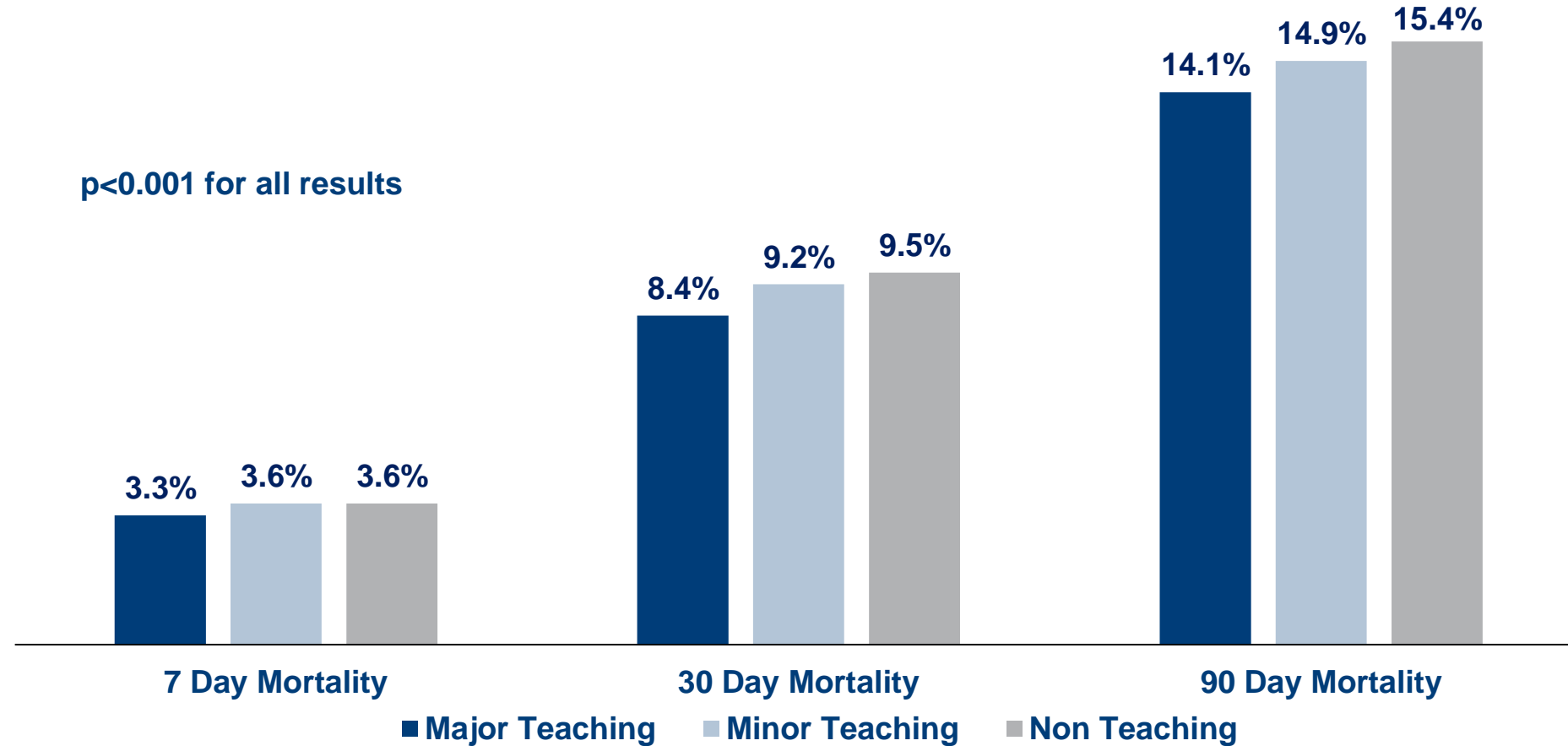
Table 3-5

AAMC-Member Teaching Hospitals Treat Higher Rates of Transfers Cases, FY2018

	Percent of Medicare Inpatient Transfer Cases	Aggregate Case Mix for Transfer Cases
AAMC-Member Teaching Hospitals	12.5%	2.55
Other Teaching Hospitals	6.1%	2.16
Nonteaching Hospitals	3.1%	2.01

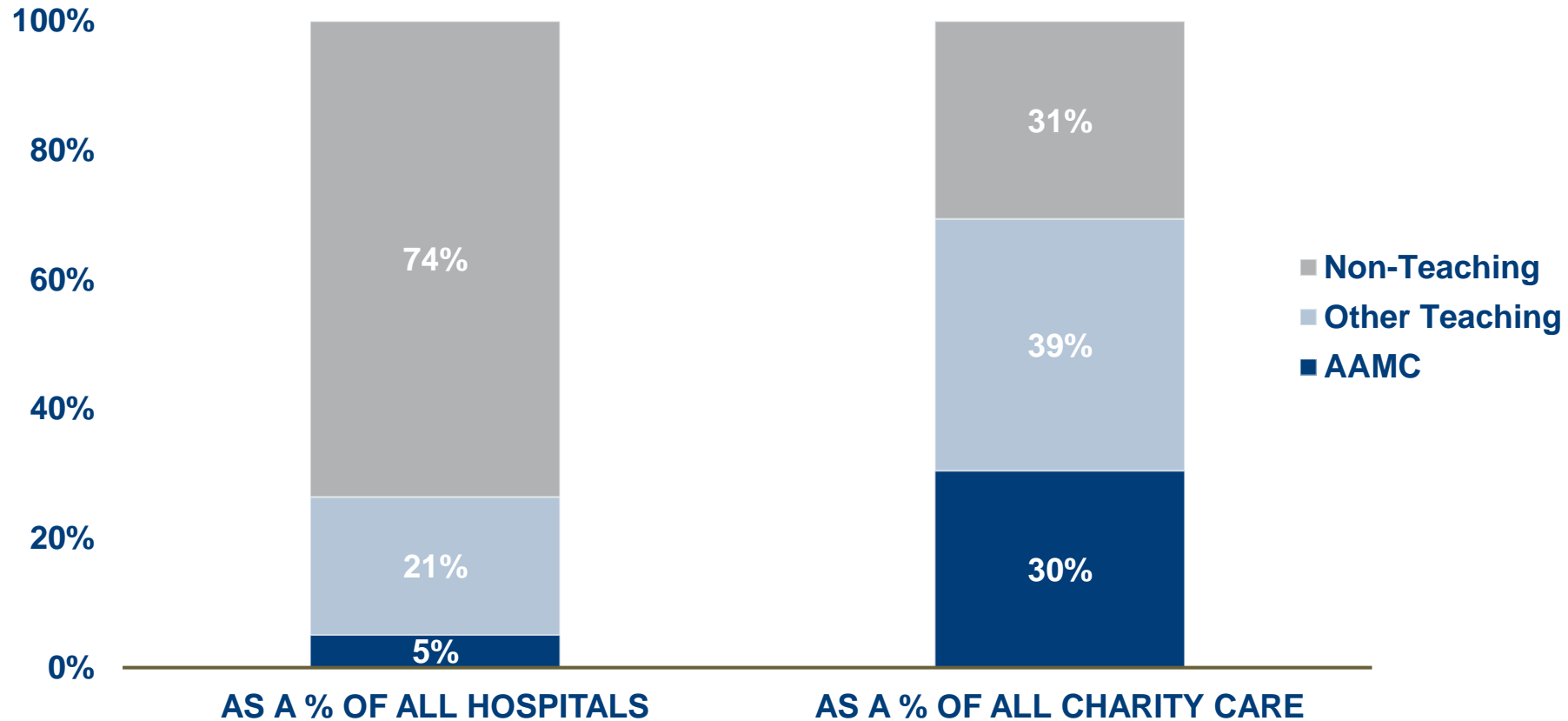
Notes: Data reflect short-term, general, nonfederal hospitals. Data for AAMC-member teaching hospitals reflect integrated and independent AAMC members.
Source: AAMC analysis of Medicare claims data, 2018. AAMC membership data, April 2020

Chart 3-7 Patient Mortality is Lower at Teaching Hospitals



Notes: Model includes state fixed effects and adjusted for correlation of patients at the hospital level. Patient characteristic adjustments include principal discharge Diagnosis Related Group Weight, age, sex, Medicaid eligibility, and Hierarchical Condition Category. Hospital characteristic adjustments include profit status, rural/urban location, and volume of hospitalizations.
Source: Burke, Laura G., Austin B. Frakt, Dhruv Khullar, E. John Orav, and Ashish K. Jha. "Association Between Teaching Status and Mortality in US Hospitals." *JAMA* 317, no. 20 (2017): 2105-2113.

Chart 4-1 Proportion of Charity Care Costs Provided at Hospitals by Teaching Status, FY2020



Notes: Data reflect short-term, general, nonfederal hospitals. Data for AAMC-member teaching hospitals reflect integrated and independent AAMC members. Charity care is defined as the revenue forgone as a result of care provided without the expectation of payment. As these labels are rounded percentages, the totals for each bar may not add up to 100%.

Source: AAMC analysis of FY2020 American Hospital Association data. AAMC membership data, December 2021.

Table 4-2

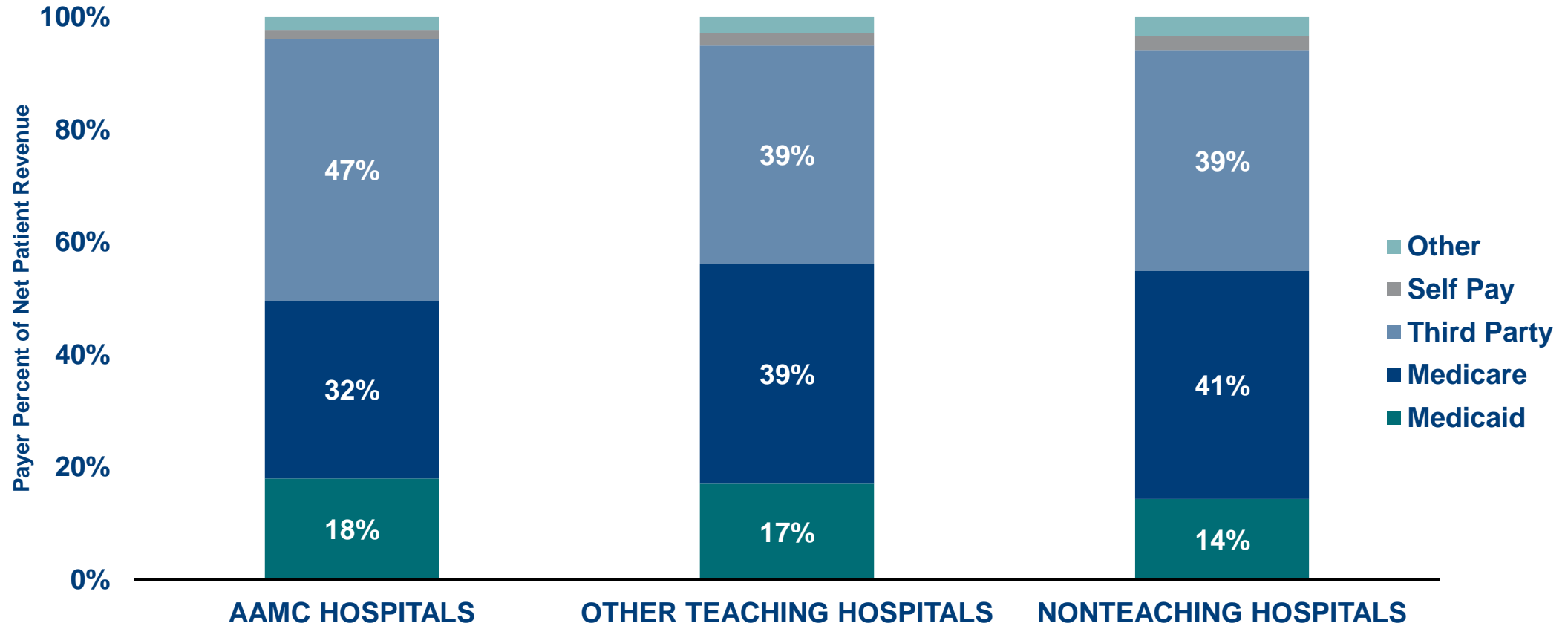
Median Amount of Charity and Uncompensated Care Costs Provided at Hospitals by Teaching Status, FY2020

	Number of Hospitals	Median Amount (Millions of dollars)	
		Charity Care Costs	Uncompensated Care Costs
AMMC-Member Teaching Hospitals	215	\$19.7	\$32.1
Other Teaching Hospitals	911	\$5.0	\$9.6
Nonteaching hospitals	3,139	\$0.8	\$2.2

Notes: Data reflect short-term, general, nonfederal hospitals. Data for AAMC-member teaching hospitals reflect integrated and independent AAMC members. Charity care is defined as care provided without the expectation of payment. Excludes hospital's bad debt and is measured in terms of costs, not charges.

Source: AAMC analysis of a special tabulation using FY2020 American Hospital Association (AHA) data. AAMC membership data, December 2021.

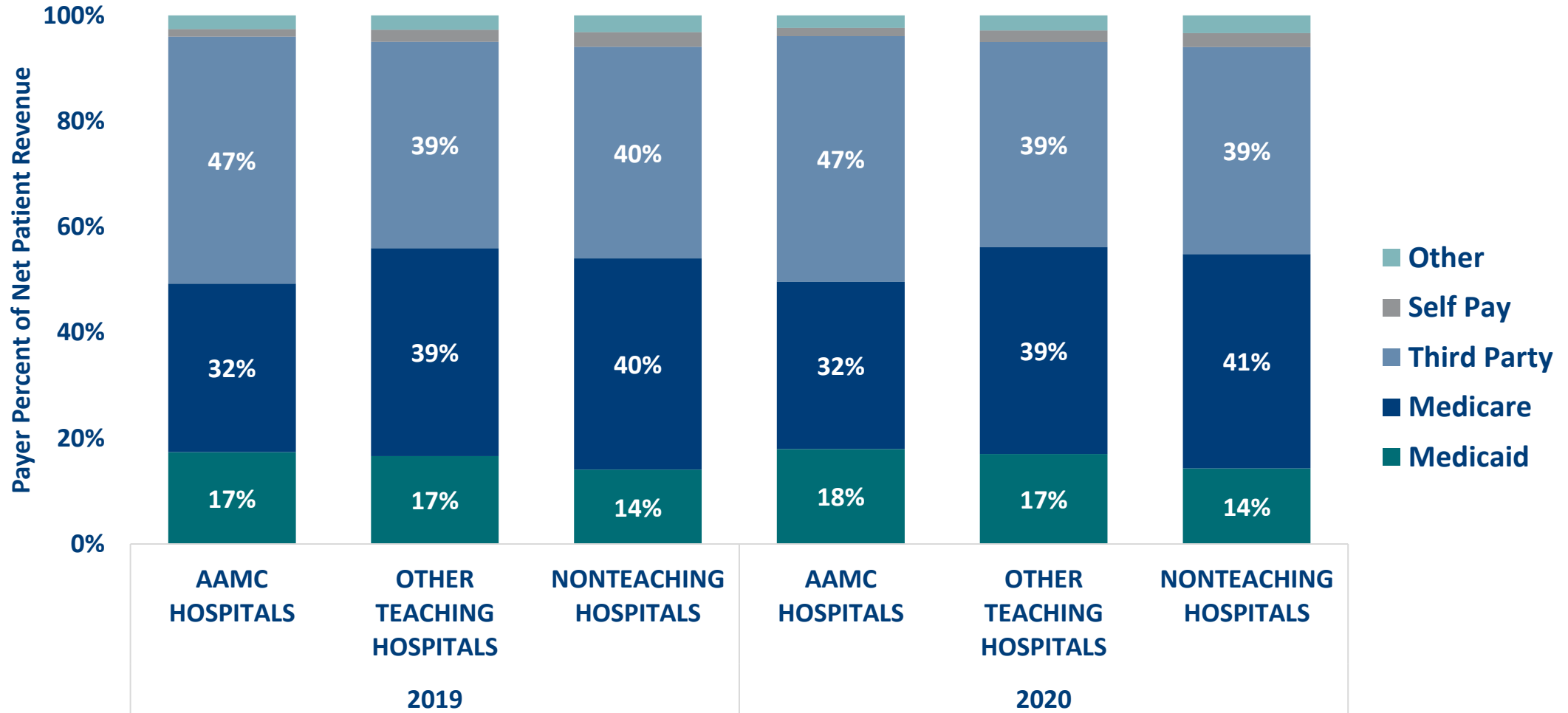
Chart 4-3 Net Patient Revenue Payer Mix at Hospitals by Teaching Status, FY2020



Notes: Data reflect short-term, general, nonfederal hospitals. Data for AAMC-member teaching hospitals reflect integrated and independent AAMC members. Gross patient payer mix is defined as net patient revenue from each source divided by total net patient revenue.

Source: AAMC analysis of FY2020 American Hospital Association data. AAMC membership data, December 2021.

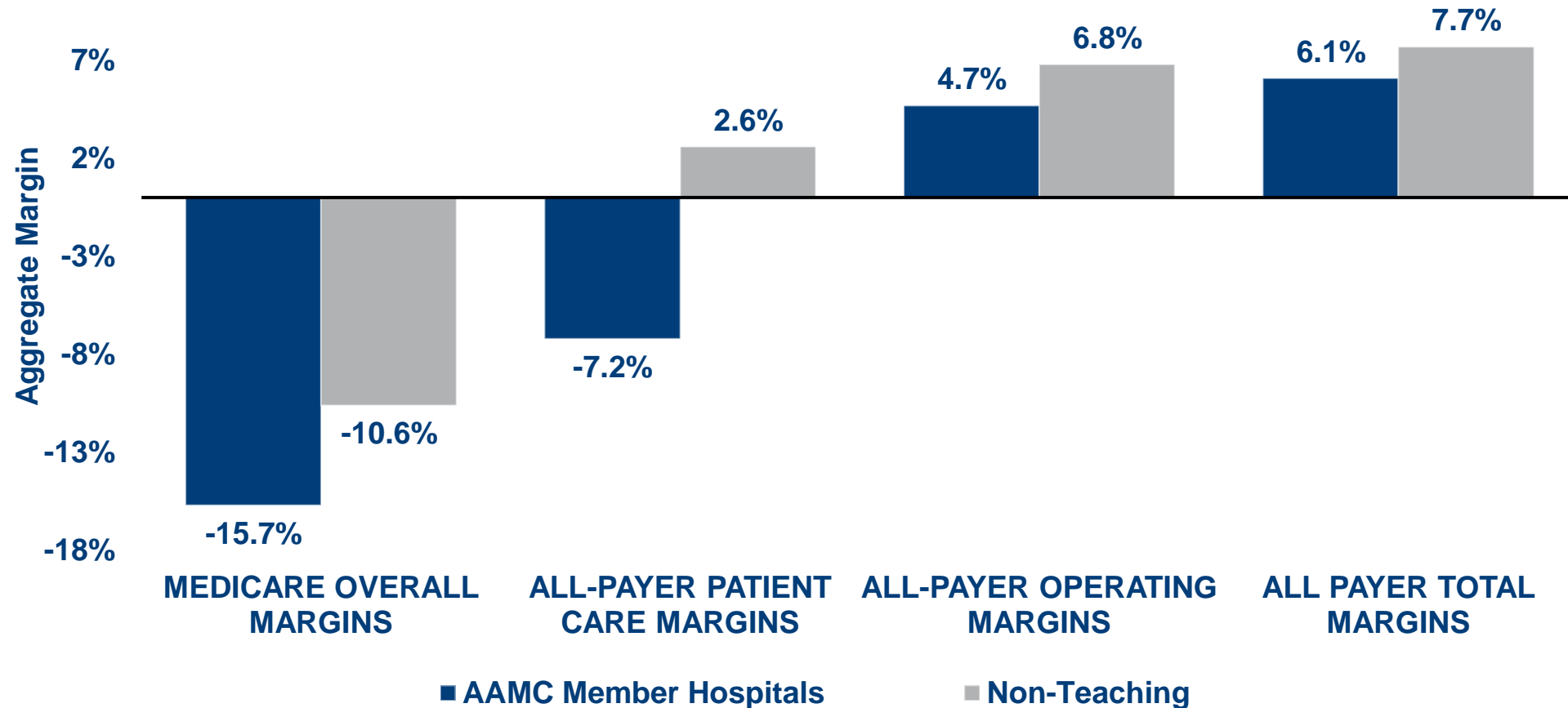
Chart 4-3 Net Patient Revenue Payer Mix at Hospitals by Teaching Status, FY2019-2020



Notes: Data reflect short-term, general, nonfederal hospitals. Data for AAMC-member teaching hospitals reflect integrated and independent AAMC members. Gross patient payer mix is defined as net patient revenue from each source divided by total net patient revenue.

Source: AAMC analysis of FY2019 and FY2020 American Hospital Association data. AAMC membership data, December 2021.

Chart 4-4 Aggregate Margins at AAMC-Member and Non-Member Teaching Hospitals, FY2019



Notes: Margins are as reported, after sequestration, and excludes outlier institutions, both high and low. General formula: (Revenues - Expenses) / Revenues. Operating Margin: revenues include all sources other than “Contributions, Donations, Bequests” and “Investment Income” and expenses include all hospital expenses.

Source: AAMC analysis of FY2019 the Hospital Cost Reporting Information System (HCRIS) released on September 30, 2021. AAMC membership data, December 2021.

Chart 5-1

Distribution of Residents at VA AAMC-Member and Other Teaching Hospitals, FY2020

	VA AAMC-Member Teaching Hospitals	All Other Teaching VA Hospitals
Number of Hospitals	21	90
Percent of All VA Teaching Hospitals	18.9%	81.1%
Total Number of Resident FTEs	1,545	2,752
Percent of Resident FTEs*	36.0%	64.0%

Notes: Data reflect short-term, general, nonfederal hospitals. Data for AAMC-member teaching hospitals reflect integrated and independent AAMC members. Charity care is defined as care provided without the expectation of payment. Excludes hospital's bad debt and is measured in terms of costs, not charges.

Source: AAMC analysis of a special tabulation using FY2020 American Hospital Association (AHA) data. AAMC membership data, December 2021.

Chart 5-2

Distribution of Residents at Children's AAMC-Member and Other Teaching Hospitals, FY2020

	AAMC-Member Children's Teaching Hospitals	Other Children's Teaching Hospitals
Number of Hospitals	18	23
Percent of Residents Educated at Children's Teaching Hospitals	76.5%	23.5%
Median number of Residents and Fellows	129	16

Notes: Data reflect short-term, general, nonfederal hospitals. Data for AAMC-member teaching hospitals reflect integrated and independent AAMC members. Charity care is defined as care provided without the expectation of payment. Excludes hospital's bad debt and is measured in terms of costs, not charges.

Source: AAMC analysis of a special tabulation using FY2020 American Hospital Association (AHA) data. AAMC membership data, December 2021.