



**HOSPICE
ANALYTICS**

2022 State Hospice Report

2020 Medicare Information
With 2019 Comparisons
Using Annual Files

10/31/21

Note

- ▶ Information in this report is focused on state and national levels.
- ▶ However, similar information is available for county and hospice-specific provider levels.
- ▶ Please contact Hospice Analytics or see our InfoMAX online reporting system for details.

Hospice Utilization

- Is a measure of ACCESS...
- Is a measure of QUALITY...

Author's personal copy

Vol. 41 No. 6 June 2011

Letters

e5

Care Flanders. 2010. Palliative sedation guideline. [in Dutch]. Available from http://www.palliative.be/template.asp?f=r1_sedatie.htm#page=1. Accessed March 29, 2011.

Death Service Ratio: A Measure of Hospice Utilization and Cost Impact

To the Editor:

In October 2007, Taylor et al.¹ published compelling data showing that use of hospice care reduces United States Medicare expenditures at the end of life. In a case-control study of a sample of Medicare decedents (1993–2003), the authors compared 1819 hospice decedents with 3638 matched controls. Hospice use reduced Medicare program expenditures after the initiation of hospice by an average of \$2309 per hospice user (\$7318 for hospice users vs. \$9627 for controls; $P < 0.001$). For cancer, maximum savings of \$7000 occurred with a length of stay (LOS) in hospice between 60 and 100 days; for other primary conditions, maximum savings of \$3500 occurred with a LOS of 50–110 days.¹ Thus, cost savings were maximized with much longer periods of hospice use than is common among Medicare beneficiaries (median LOS of 16 days in not-for-profit, and 20 days in for-profit hospices).²

Medicare expenditures for all Medicare beneficiaries who died under the care of one of these provider types. In North Carolina, average costs to Medicare for patients who died with a history of the following types of service use were hospice, \$19,249; home health agency, \$19,810; SNF, \$25,842; hospital, \$30,603; and multiple settings, \$30,732 vs. not receiving care from any service, \$6853. Notably, a North Carolina patient receiving end-of-life care through hospice received \$11,354 less in care paid for by Medicare than did a patient receiving hospital-based care.

Clearly, hospice utilization exerts a strong force on health care system costs. How can we examine and monitor hospice utilization and impact? We propose “death service ratio” (DSR) as a simple measure of hospice use for this purpose. Calculated as a percentage—the numerator being deaths in a defined area or population served by hospice and the denominator being all deaths in that area/population—DSR serves as an indicator of hospice utilization in a region and, therefore, as an indirect indicator for impact of hospice on health care costs. We explicitly acknowledge that DSR is a crude indicator, as it does not accommodate for hospice LOS, patient complexity, or other important factors; but, in its simplicity, DSR allows regional monitoring of hospice utilization that can be linked to health system costs.

Using DSR as a primary measure, we re-

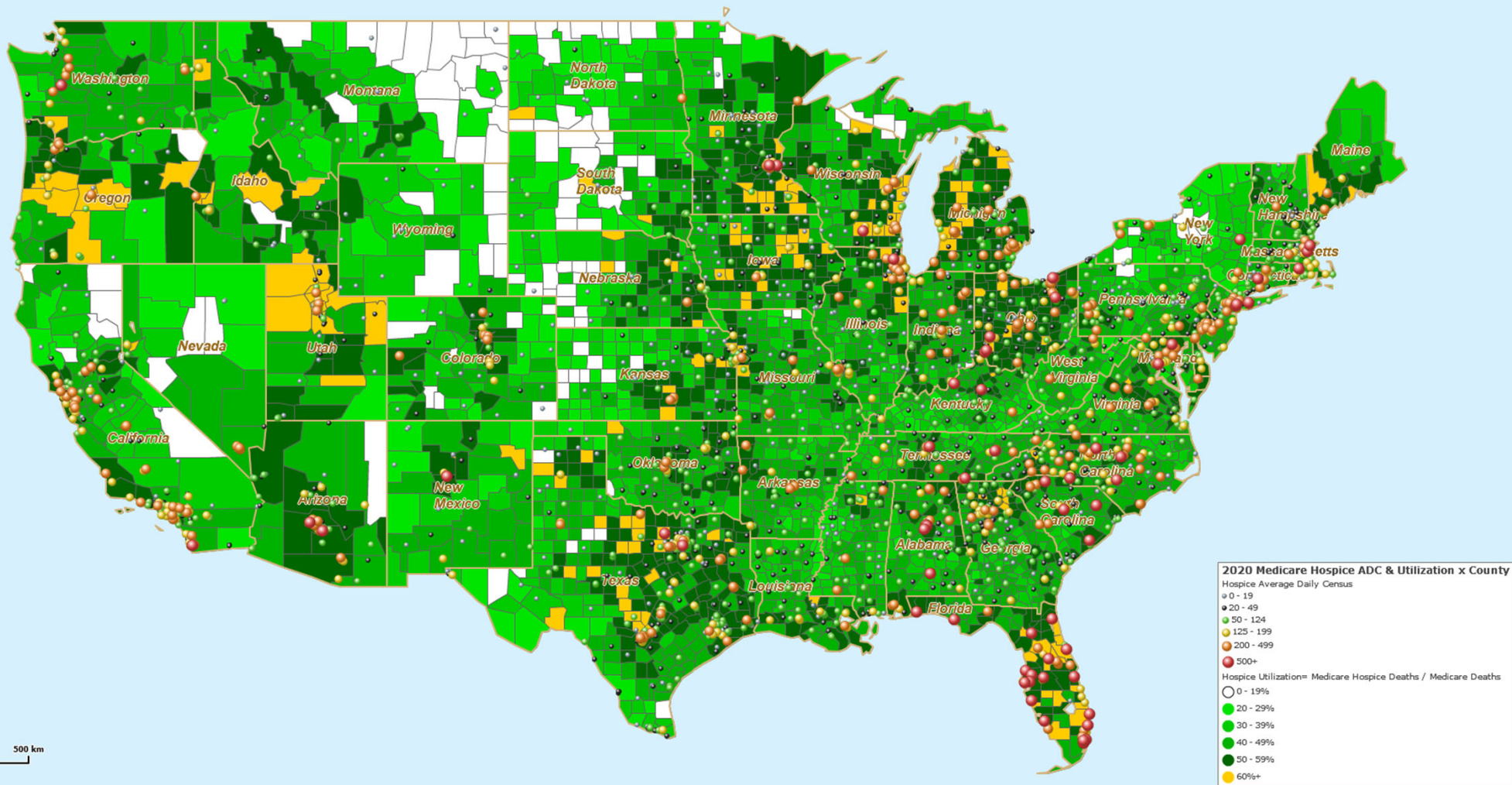
Hospice Utilization – Thoughts on 2020...

	2019 Hospice Utilization	2020 Hospice Utilization	Difference 2019 – 2020
National	50.5%	46.7%	-3.8%

- ▶ 2020 Hospice Utilization *decreased* nationally for the first time ever – **why?**
- ▶ The Good News:
 - ▶ 2020 hospice admissions and deaths increased from 2019, about as expected.
- ▶ The Bad News:
 - ▶ 2020 total Medicare deaths increased a lot faster.
 - ▶ On average over the past 10 years, we see an increase of ~40,000 beneficiary deaths / year.
 - ▶ In 2020, there were more than 407,000 beneficiary deaths over 2019.
 - ▶ 1,199,266 beneficiaries had a COVID-19 diagnosis, of whom 241,299 died.

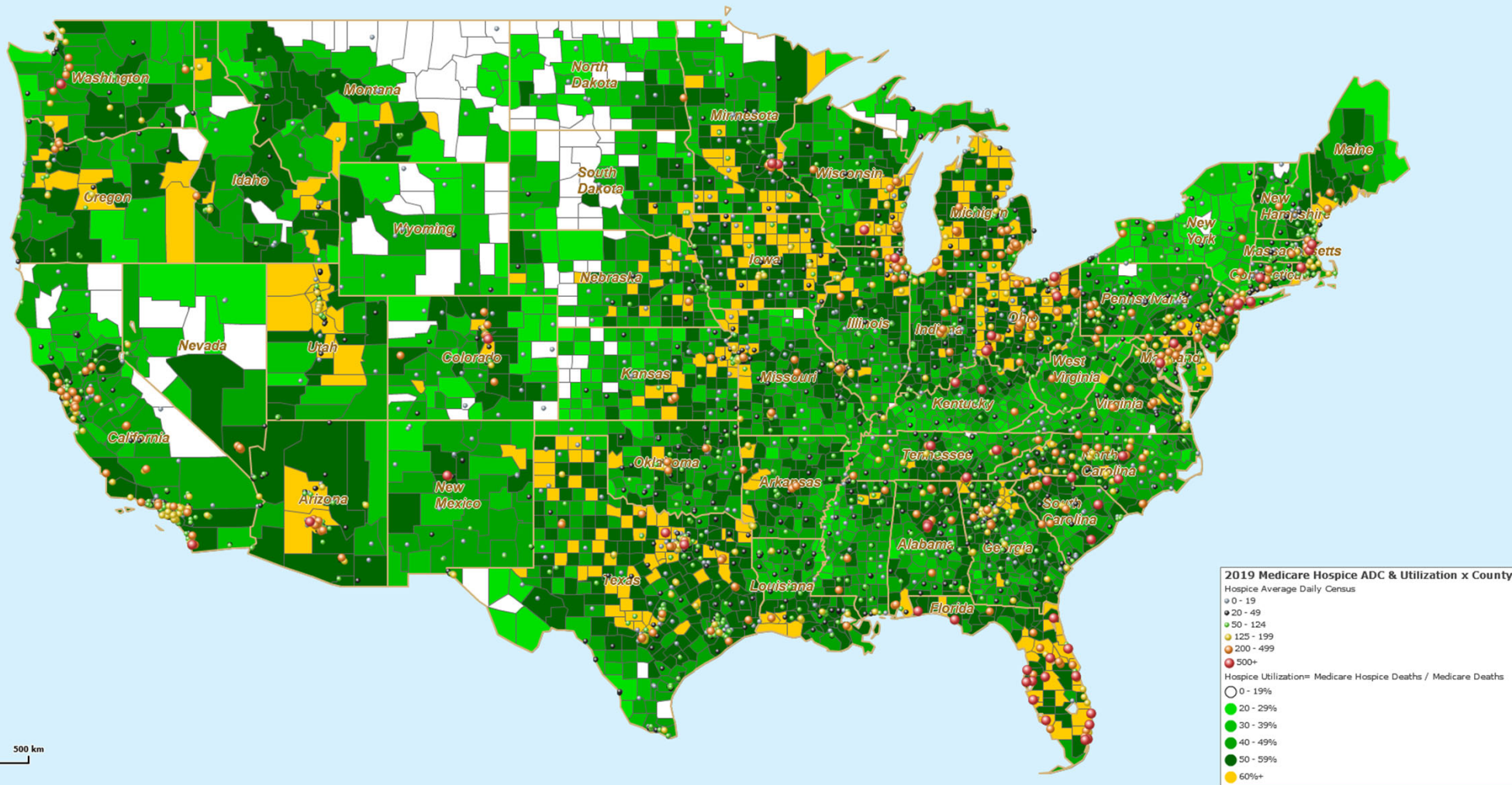


2020 Hospice Utilization (Medicare Hospice Deaths / Total Medicare Deaths)



500 km
200 mi

2019 Hospice Utilization (Medicare Hospice Deaths / Total Medicare Deaths)



500 km
200 mi

2020 Demographics & Hospice Utilization

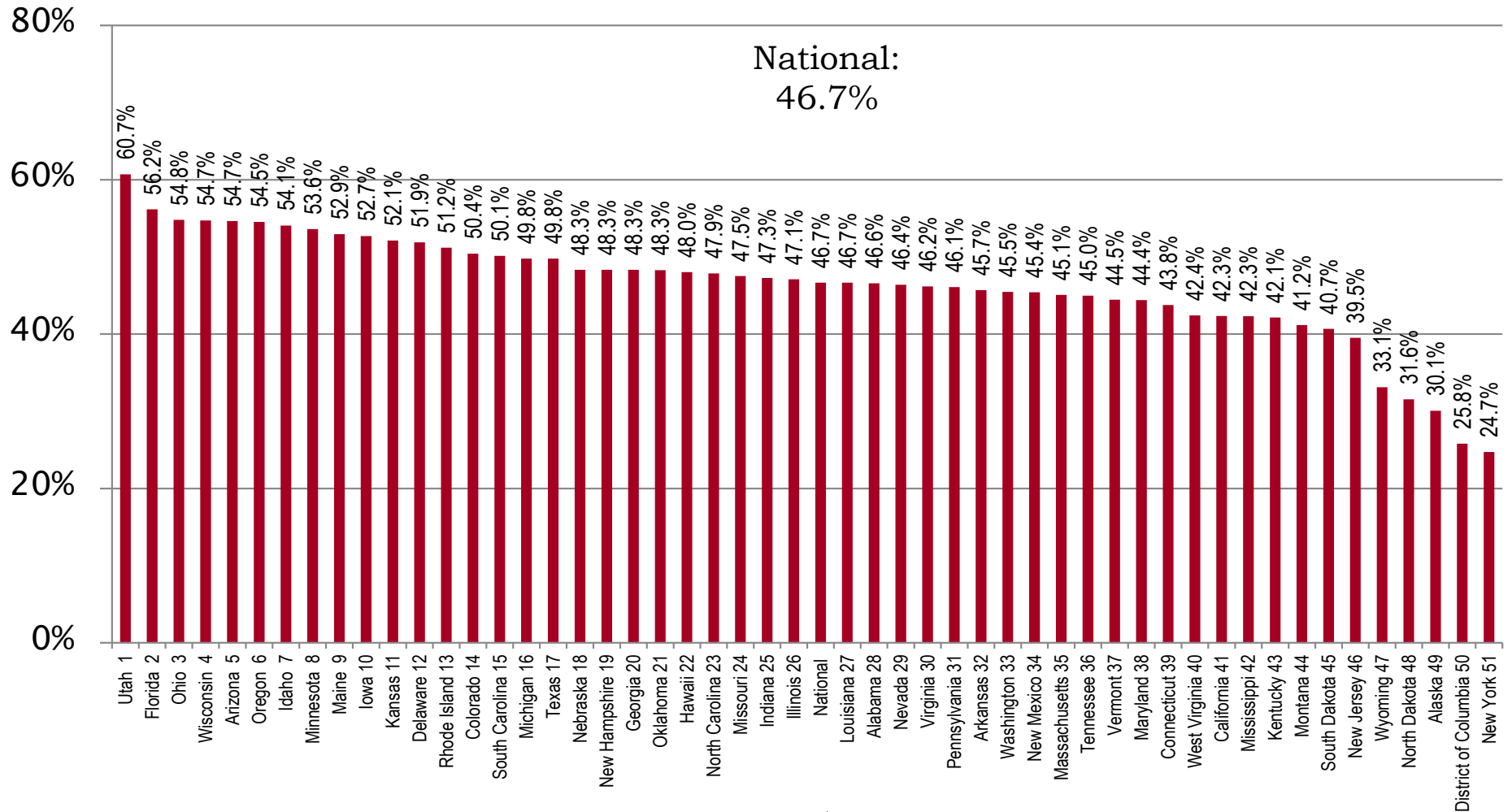
	National
Population (2019 Census; 2020 NA)	328,217,032
Total Deaths (2019 Census; 2020 NA)	2,834,763
Medicare Beneficiaries	63,048,015
Medicare Beneficiary Deaths	2,294,493
Medicare Hospice Unduplicated Beneficiaries	1,607,361 70% of Medicare deaths
Medicare Hospice Beneficiary Deaths	1,157,544 50.5% of Medicare deaths
Medicare Hospice Total Days of Care	120,768,052 Days
Medicare Hospice Mean Days / Beneficiary	70 Days
Medicare Hospice Median Days / Beneficiary	25 Days
Medicare Hospice Total Payments	\$20,733,241,224
Medicare Hospice Mean Payment / Beneficiary	\$11,972

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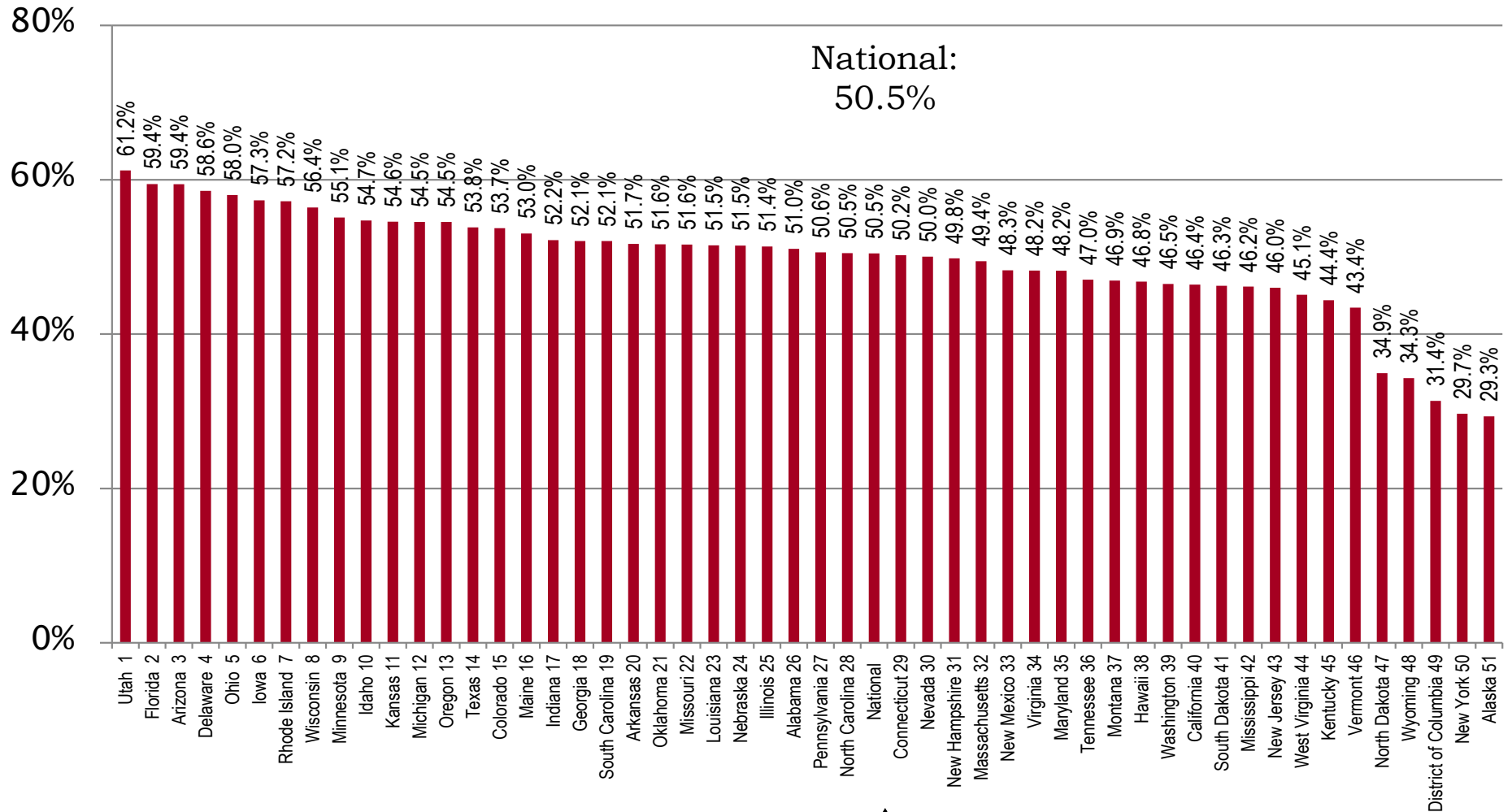
2020 Hospice Utilization

(Medicare Hospice Deaths / Total Medicare Deaths)



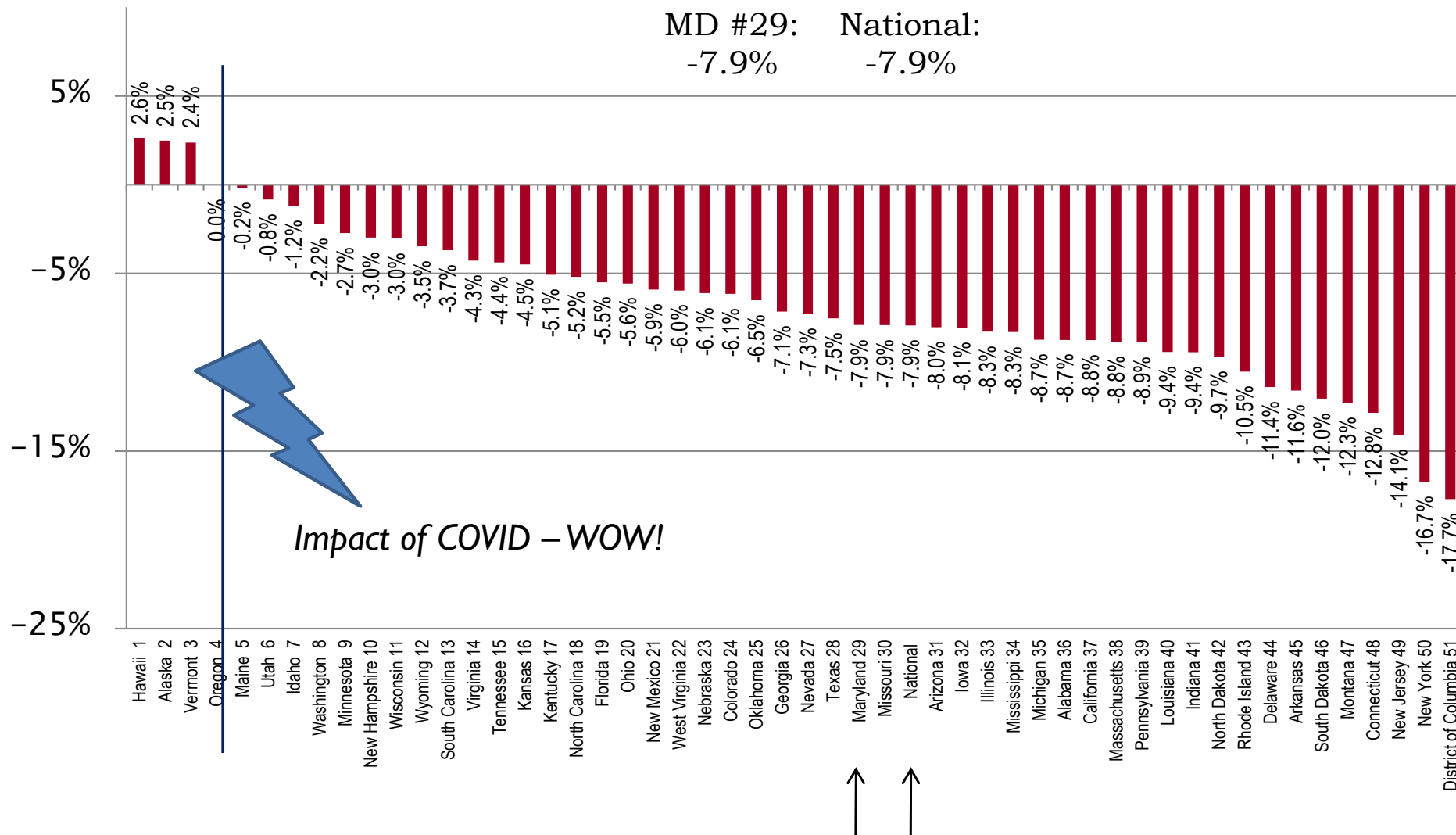
2019 Hospice Utilization

(Medicare Hospice Deaths / Total Medicare Deaths)



Change in Hospice Utilization 2019-2020 (Medicare Hospice Deaths / Total Medicare Deaths)

MD #29: -7.9%
National: -7.9%

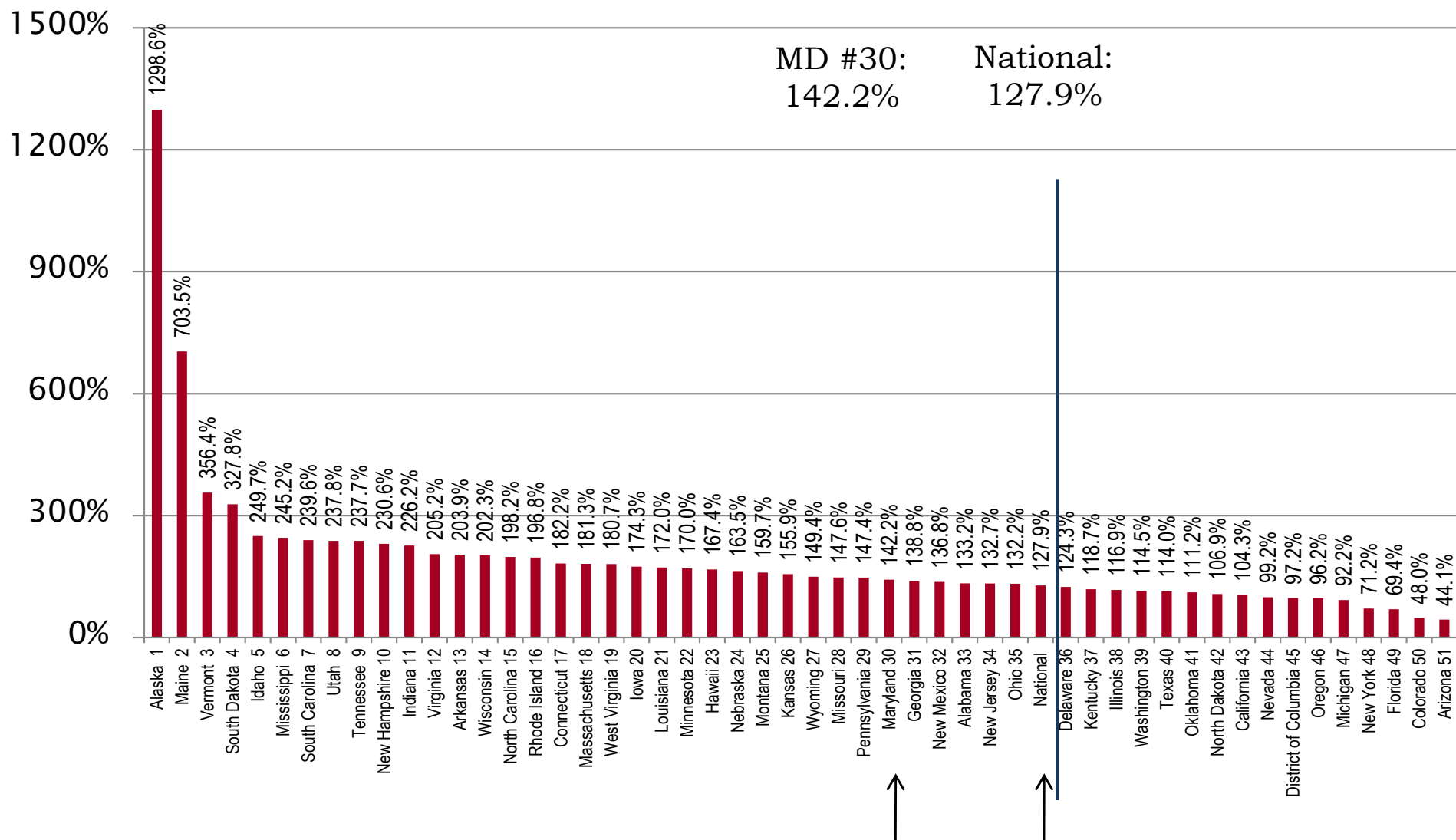


Impact of COVID - WOW!

Note: "Change" = (2020 Hospice Utilization - 2019 Hospice Utilization) / 2019 Hospice Utilization.

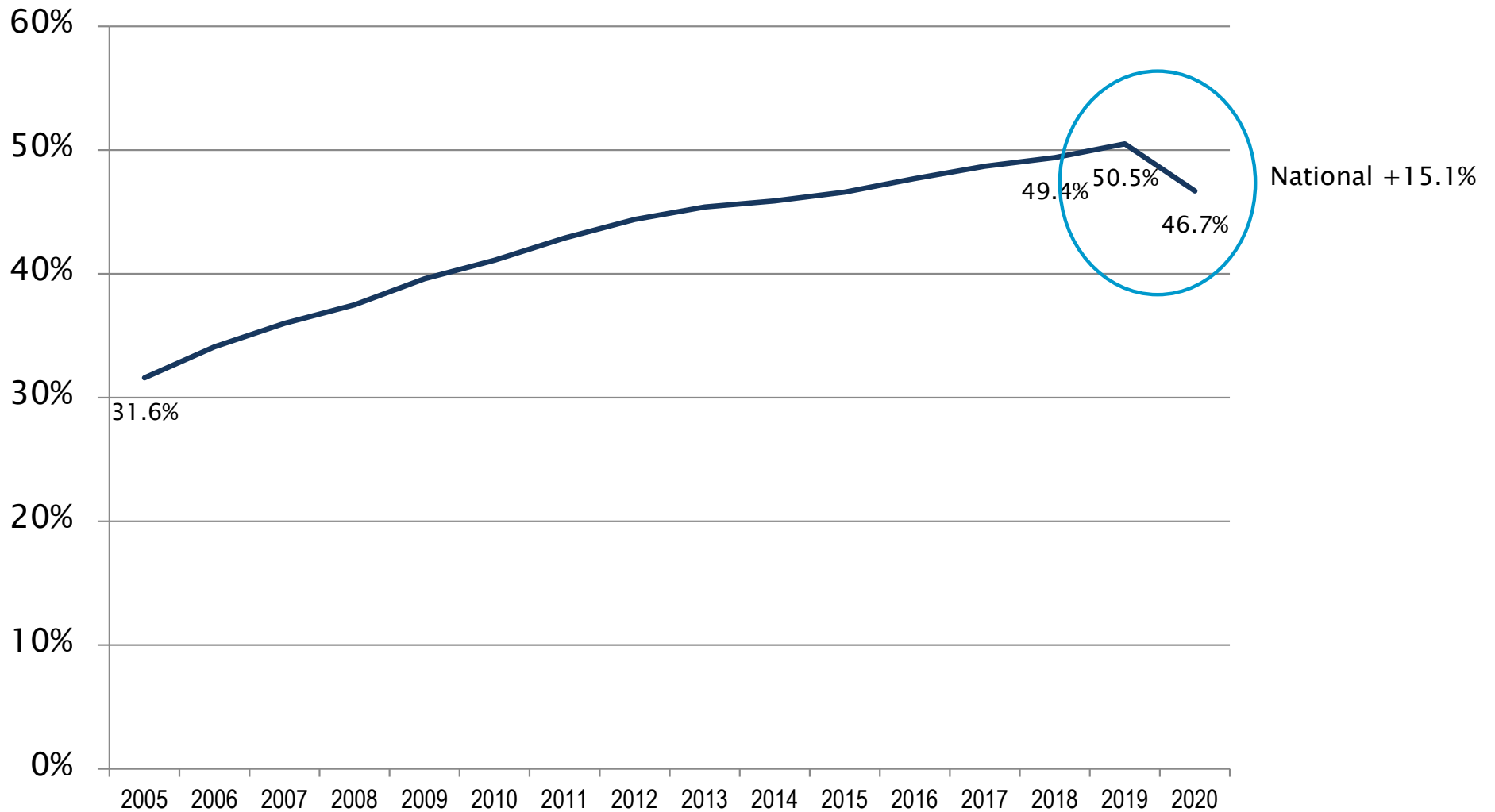
Change in Hospice Utilization 2000-2020

(Medicare Hospice Deaths / Total Medicare Deaths)



Note: "Change" = (2020 Hospice Utilization - 2000 Hospice Utilization) / 2000 Hospice Utilization.

2005-2020 State Hospice Utilization 16-Year Trends



Hospice Compare Update 11/19/20

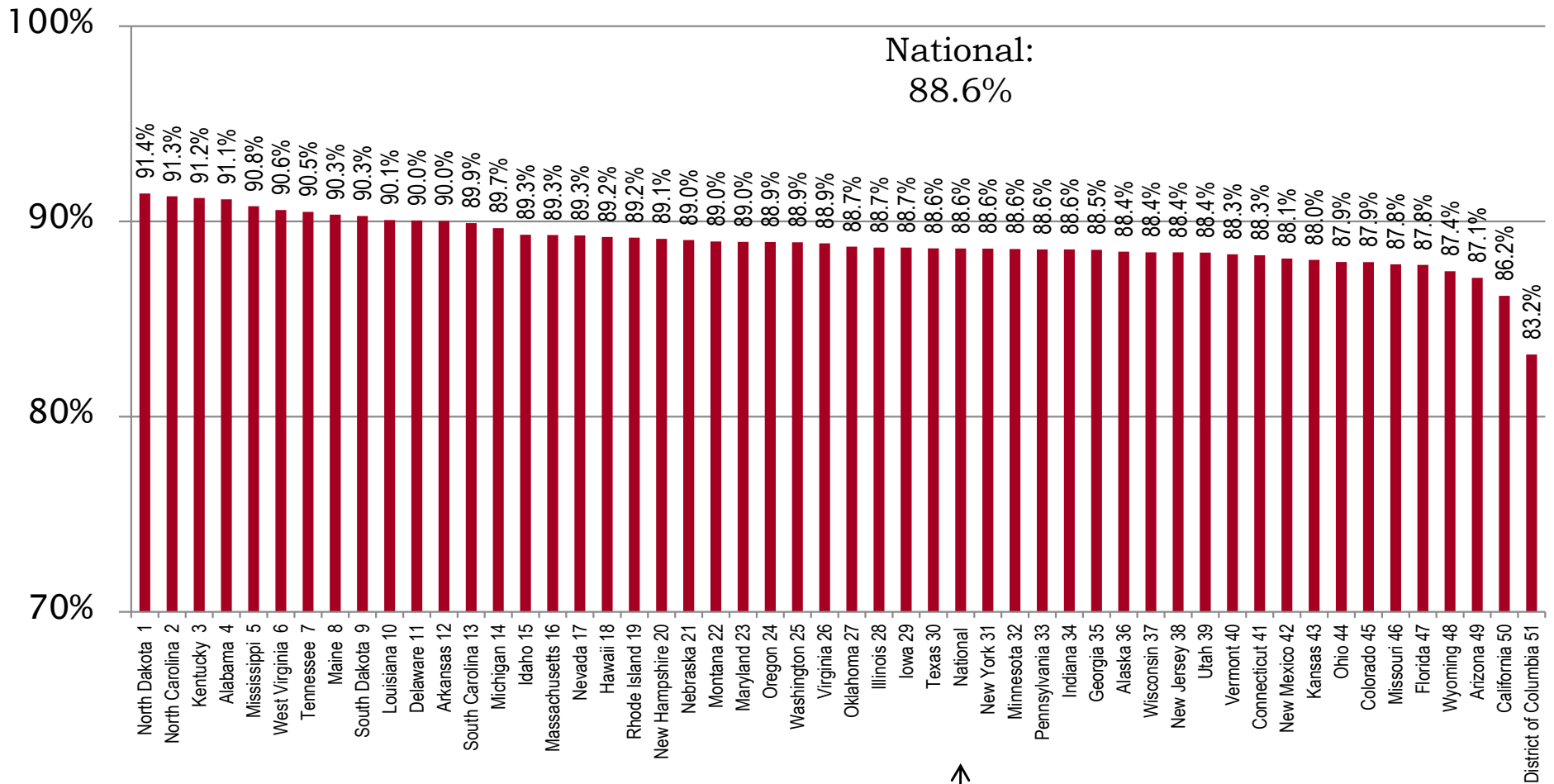
10/6/21 Notes:

- CMS most recently updated hospice provider information (e.g., ADC) 7/7/21.
- While Care Compare information for hospice is typically updated quarterly by CMS, it has not been updated since 11/19/20 due to COVID-19.
- The next Care Compare hospice quality scores update is expected 2/22.

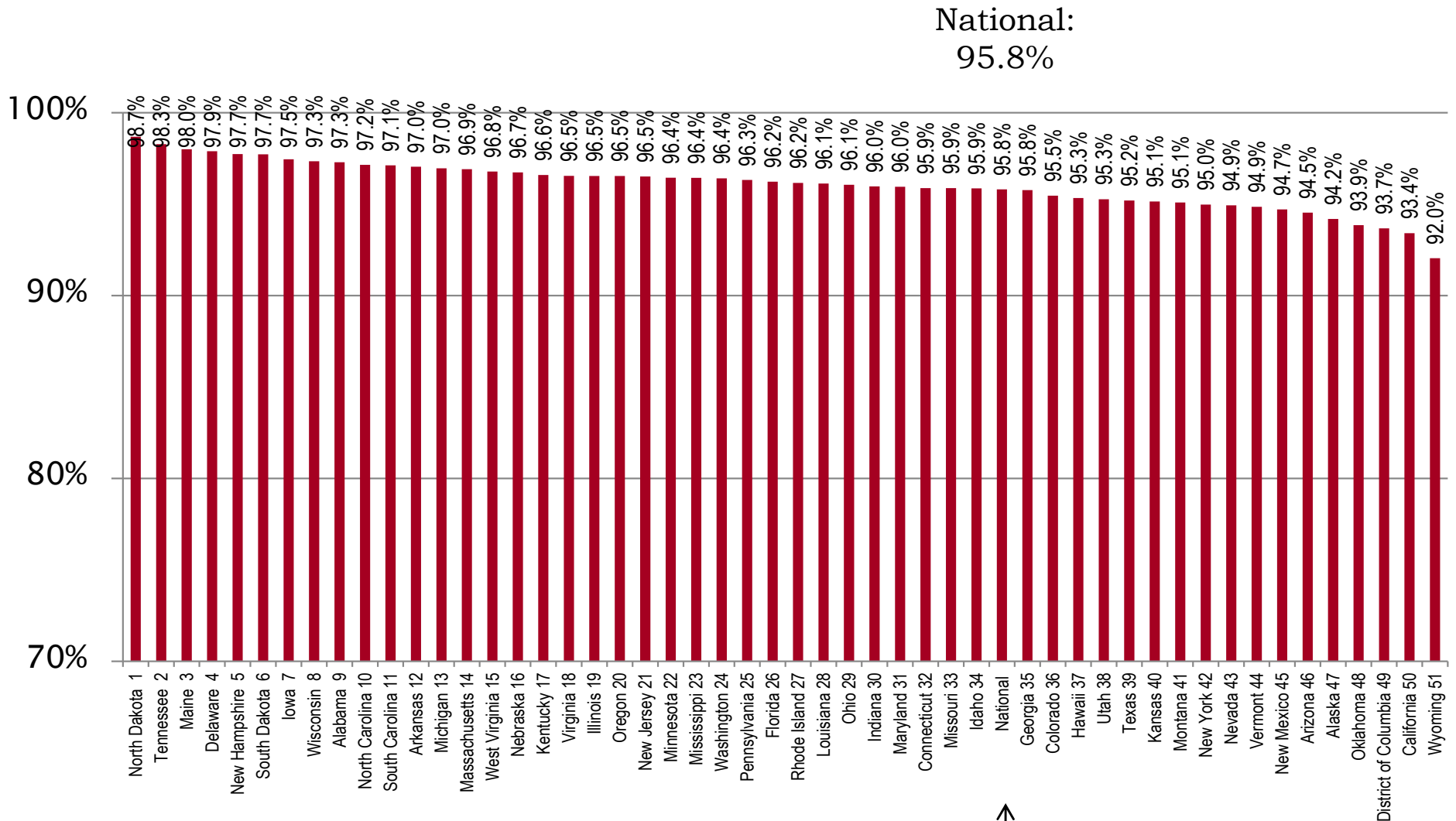
- CMS is removing seven individual HIS process measures and the Comprehensive Assessment Measure no earlier than May 2022.
- CMS adding the Hospice Care Index (HCI), a composite measure of 10 indicators from claims data.

- Hospice Outcomes & Patient Evaluation (HOPE) tool is in development.
- Star ratings (based on CAHPS) is in development.

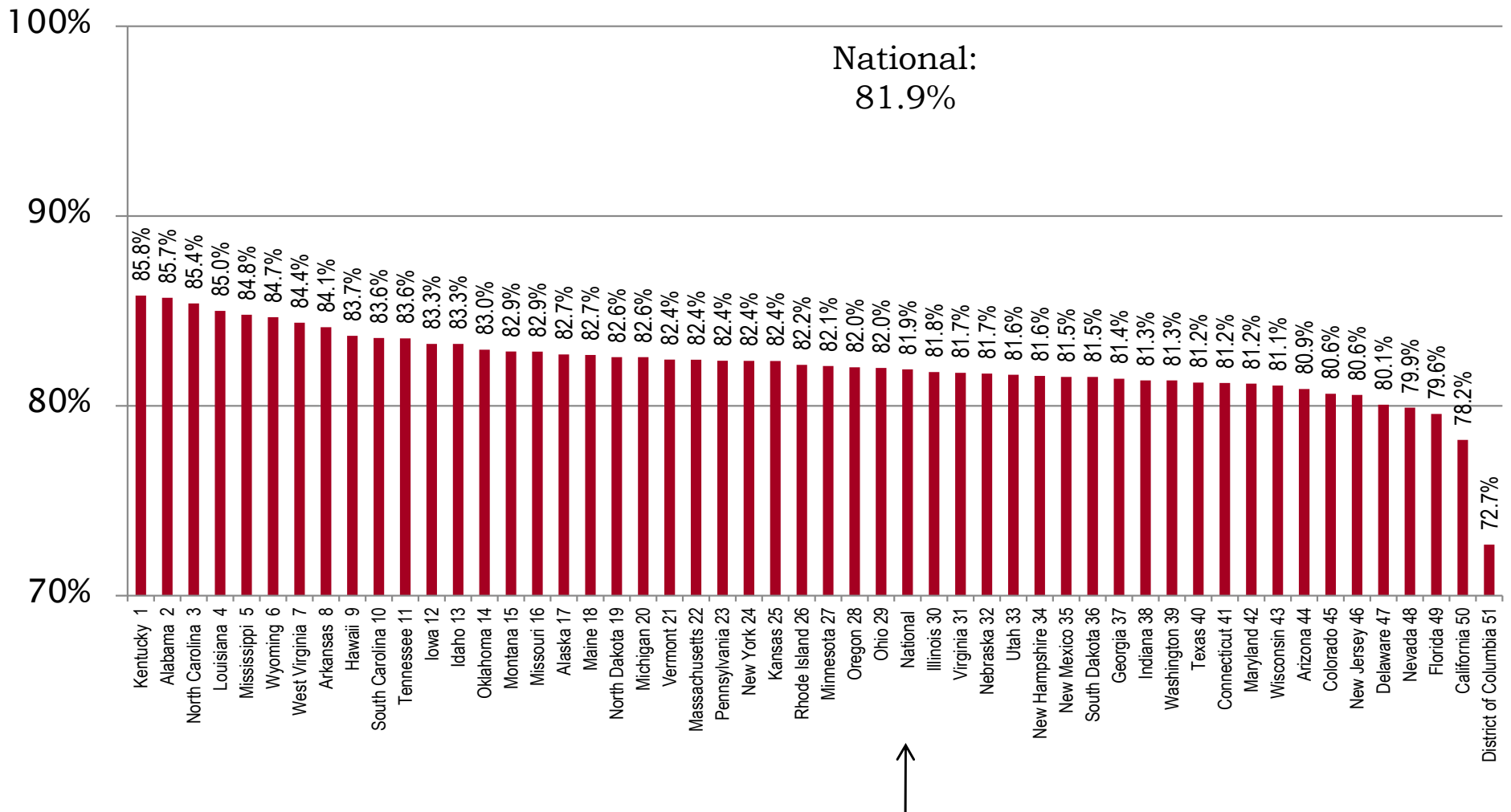
11/20 Hospice Compare: Hospice HIS & CAHPS – Average Top Box Scores



11/20 Hospice Compare: Hospice Item Set – Mean of 9 Quality Measures



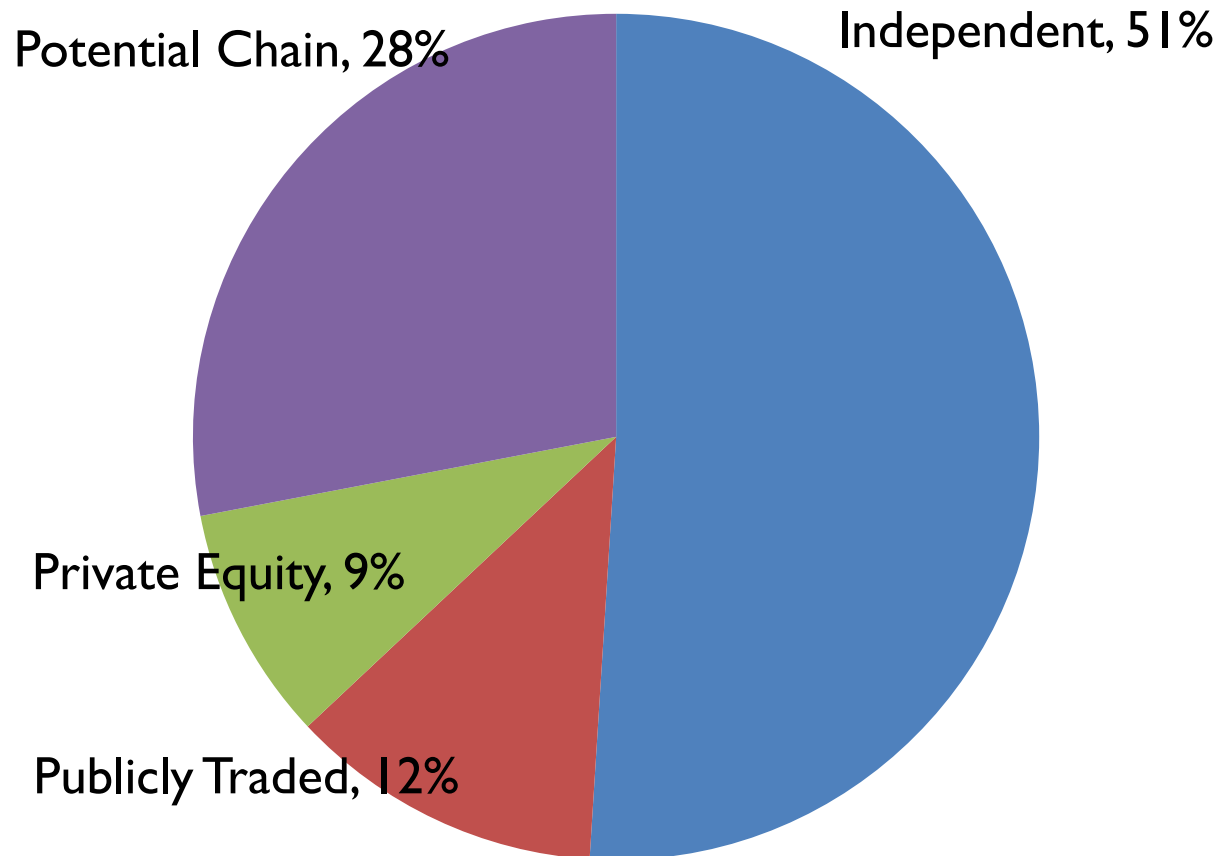
11/20 Hospice Compare: Hospice CAHPS – Mean of 8 Quality Measures



Additional Medicare Claims Data Points

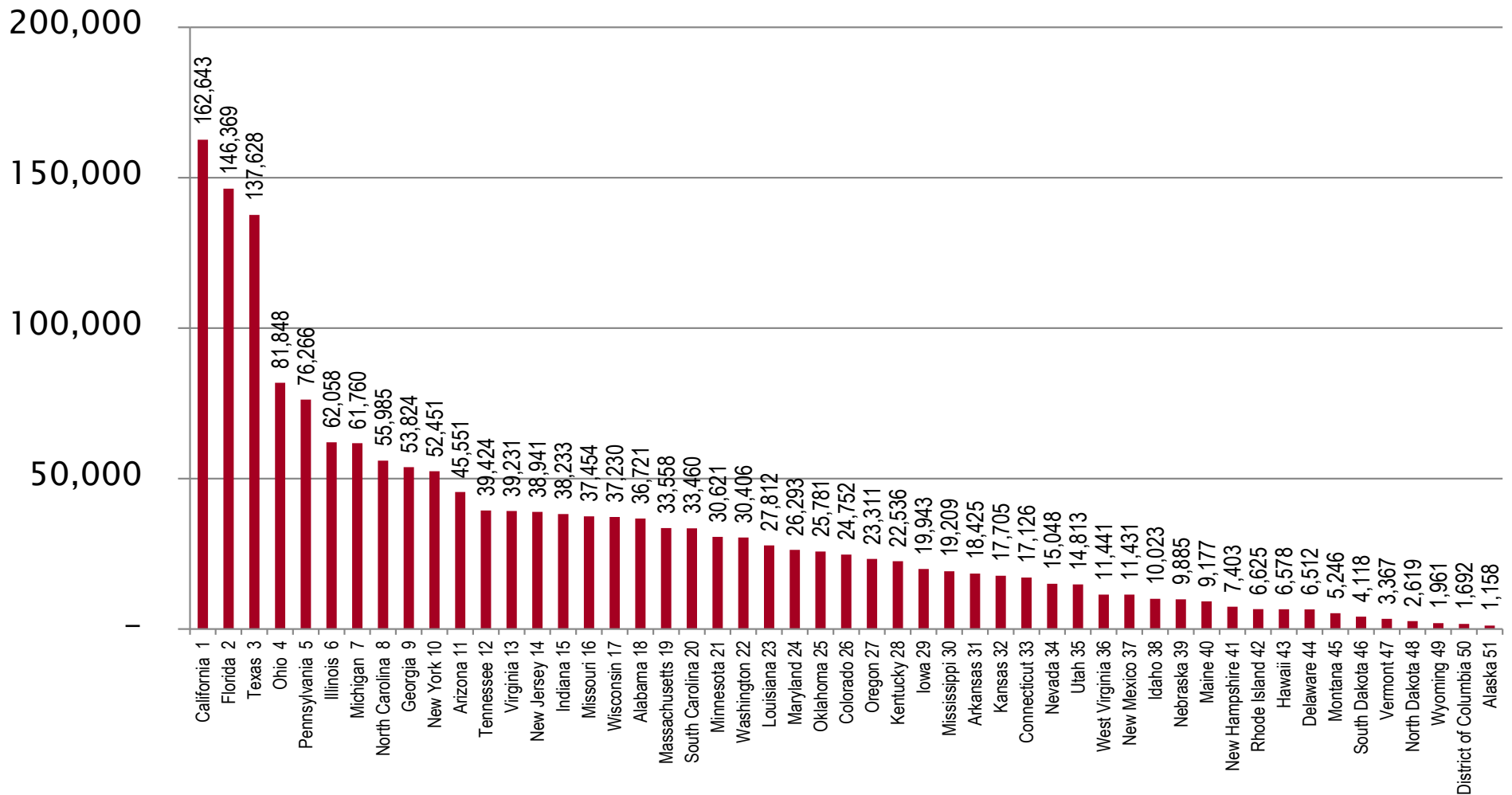
2020 Medicare Hospice Percentage of Hospices x Corporate Ownership

National



2020 Medicare Beneficiaries Admitted to Hospice

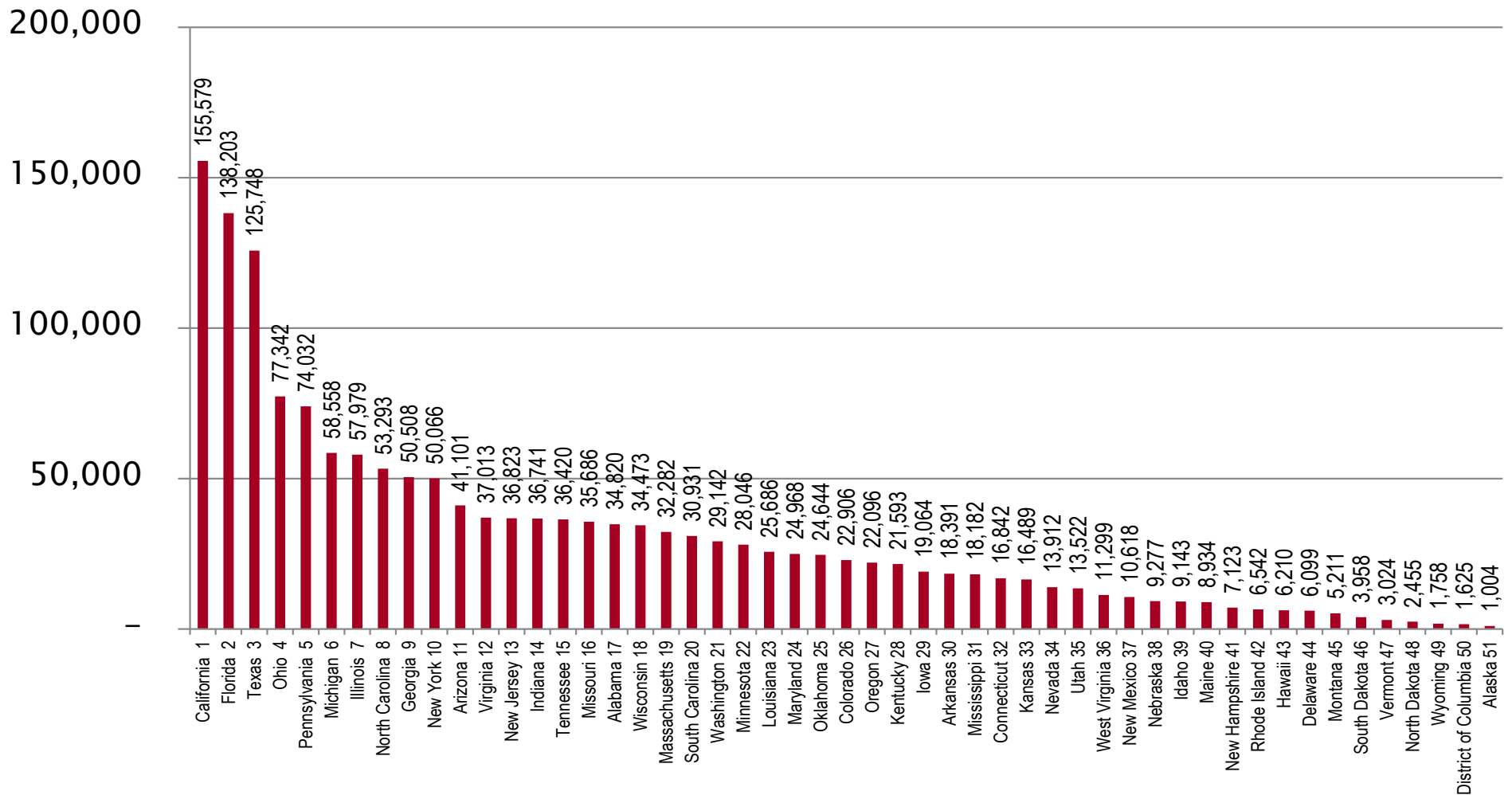
National= 1,703,652



Note: 2020 Medicare Hospice Admissions= 1,820,889.

2019 Medicare Beneficiaries Admitted to Hospice

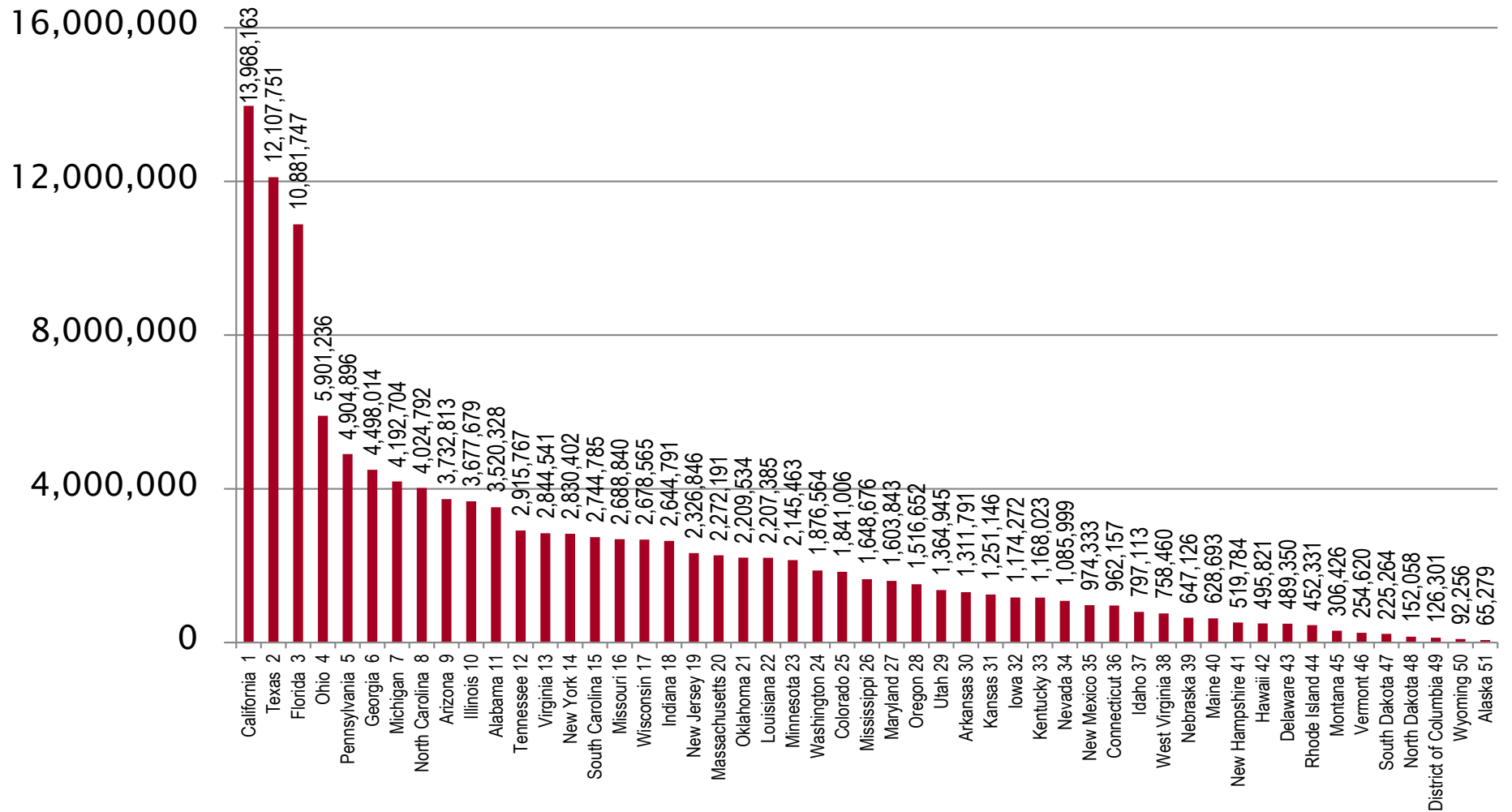
National= 1,607,361



Note: 2019 Medicare Hospice Admissions= 1,731,361.

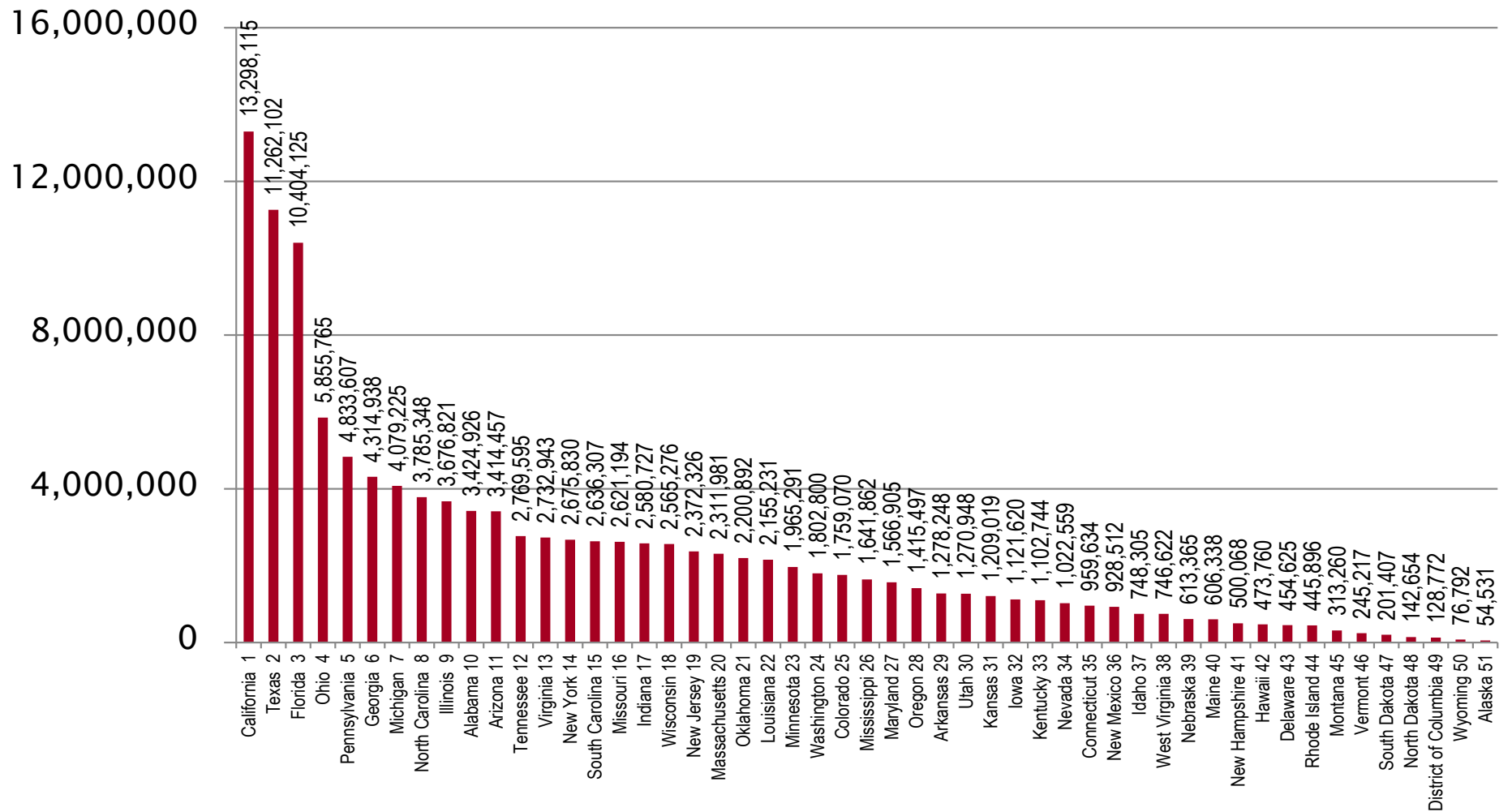
2020 Medicare Total Days of Hospice Care

National= 125,709,522 Days

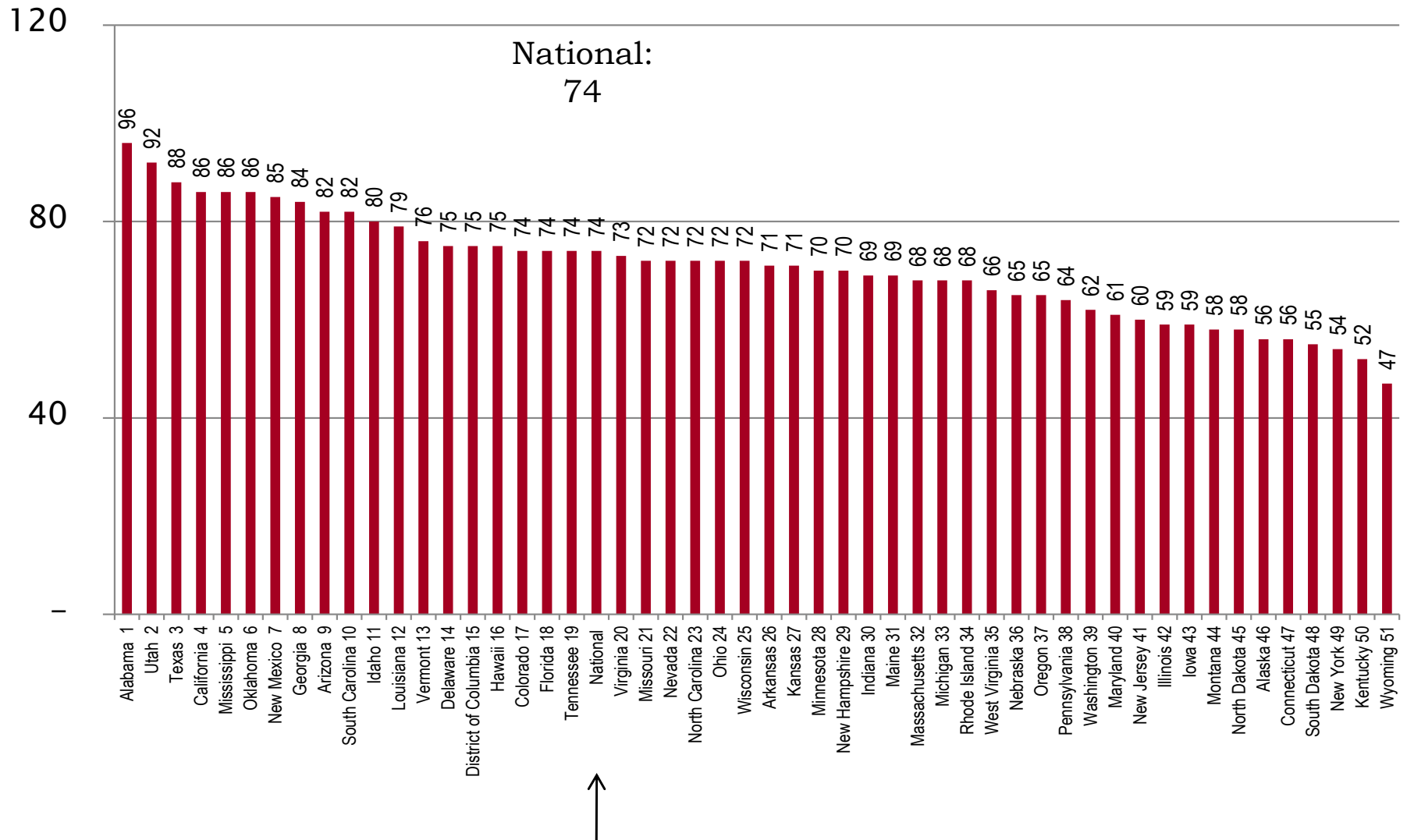


2019 Medicare Total Days of Hospice Care

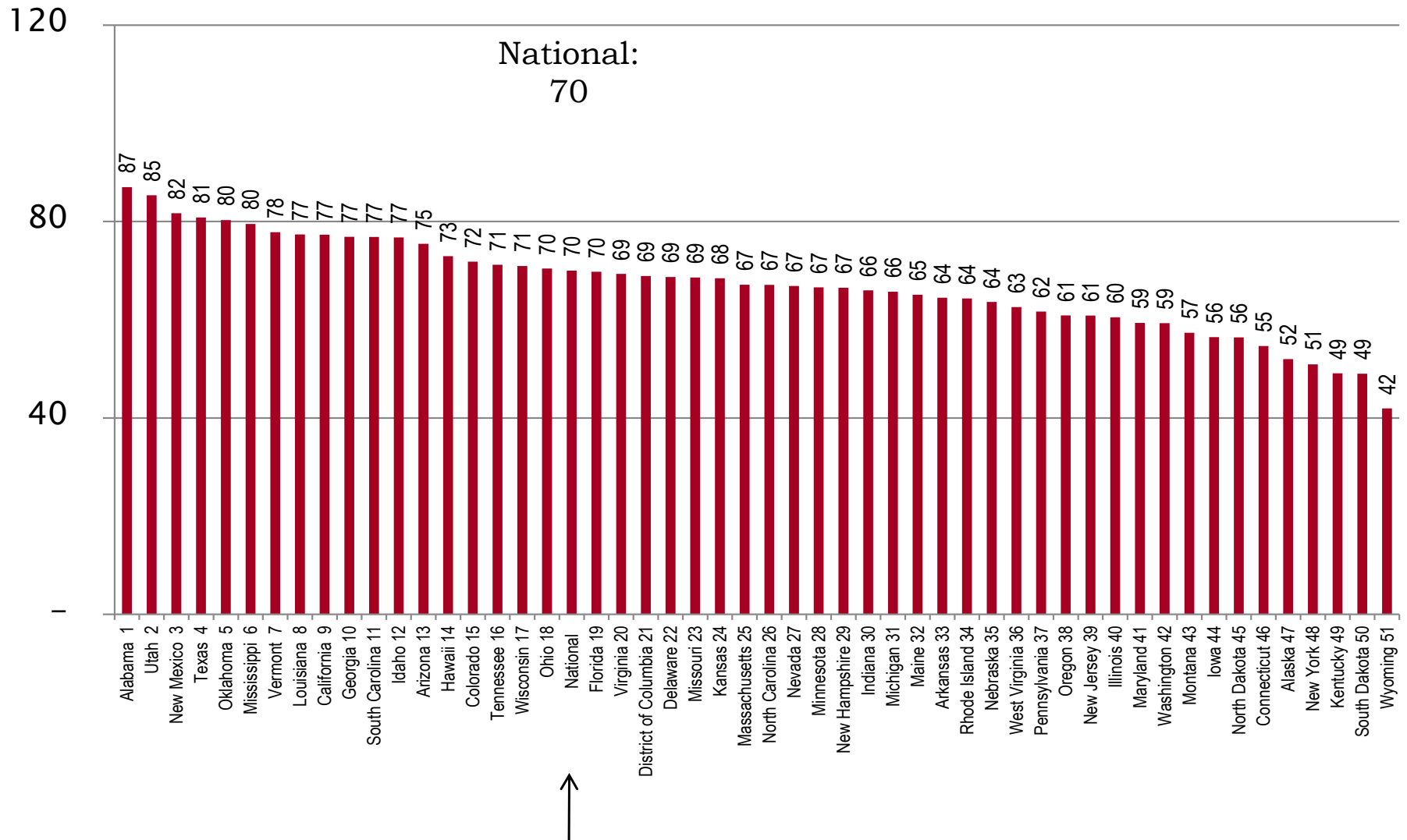
National= 120,768,052 Days



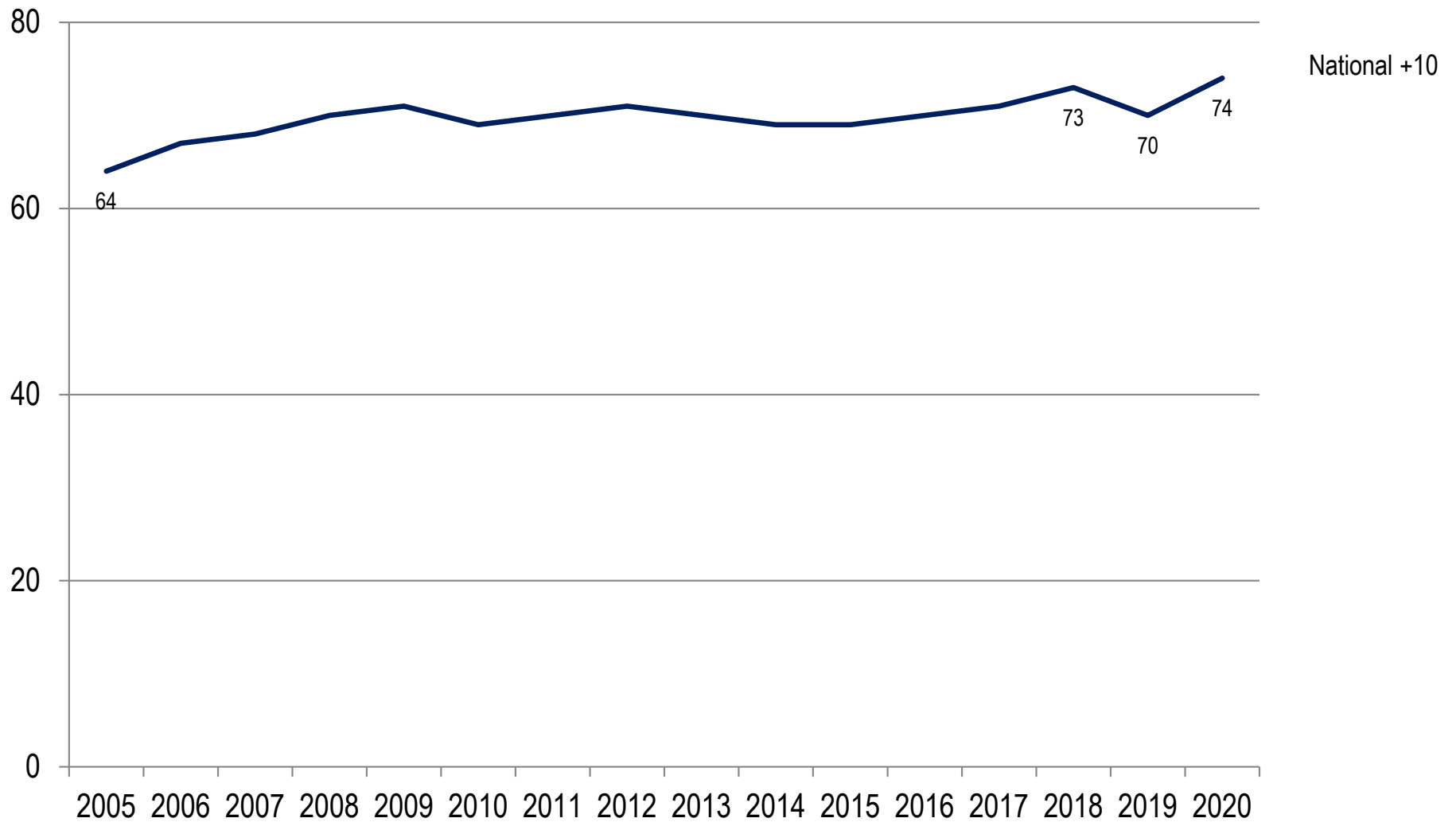
2020 Medicare Hospice Mean Days of Care / Beneficiary



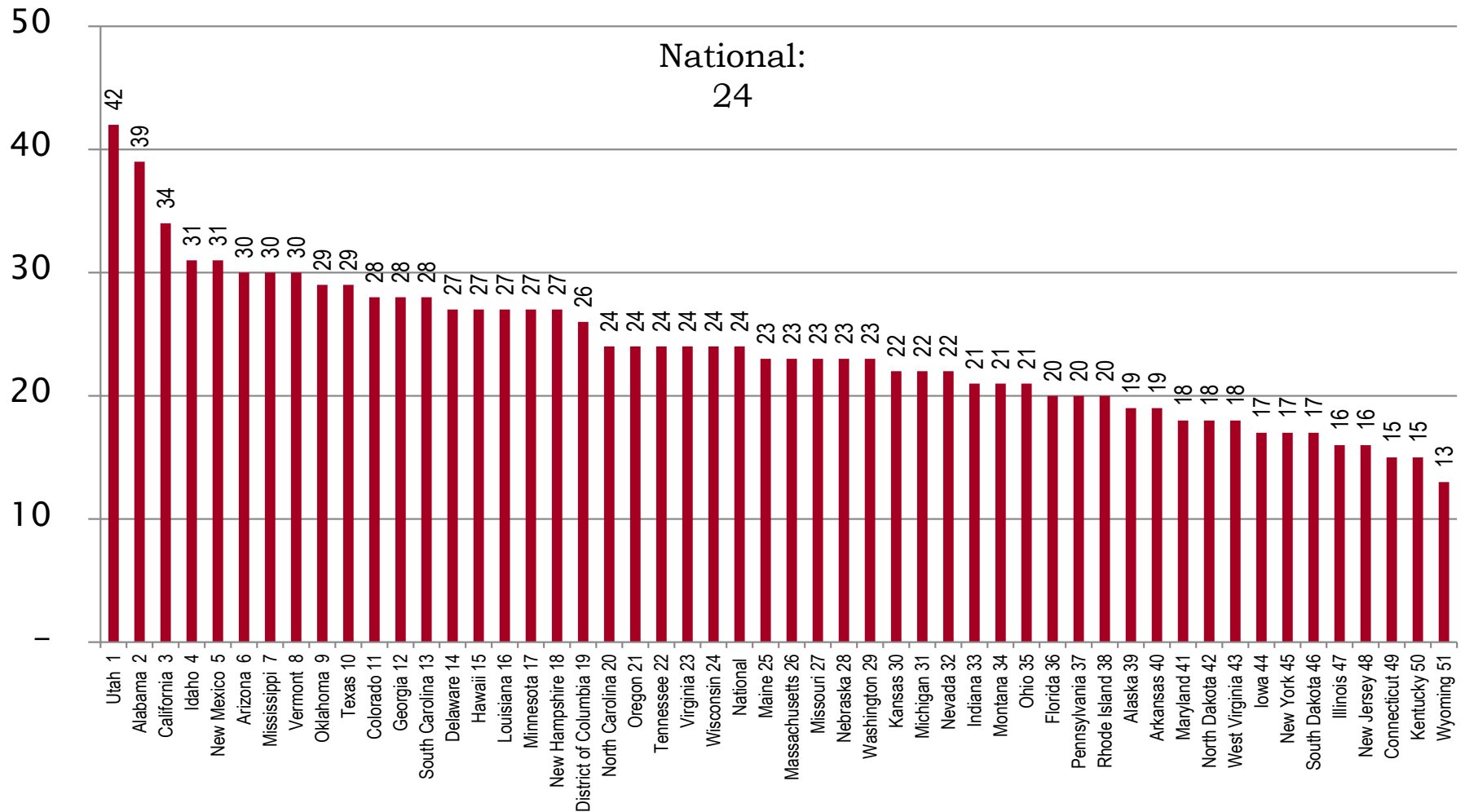
2019 Medicare Hospice Mean Days of Care / Beneficiary



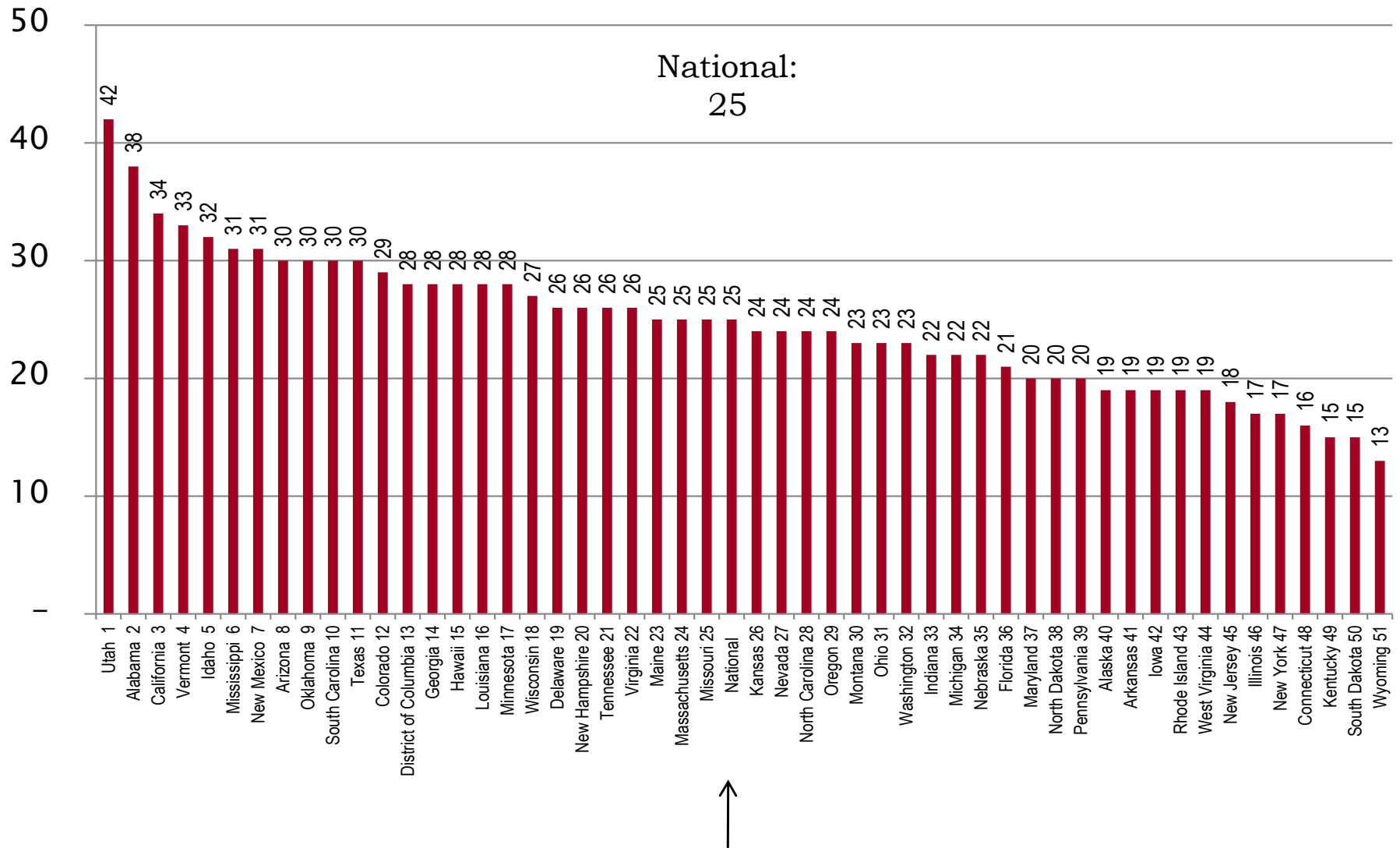
2005-2020 Hospice Mean Days of Care 16-Year Trends



2020 Medicare Hospice Median Days of Care / Beneficiary

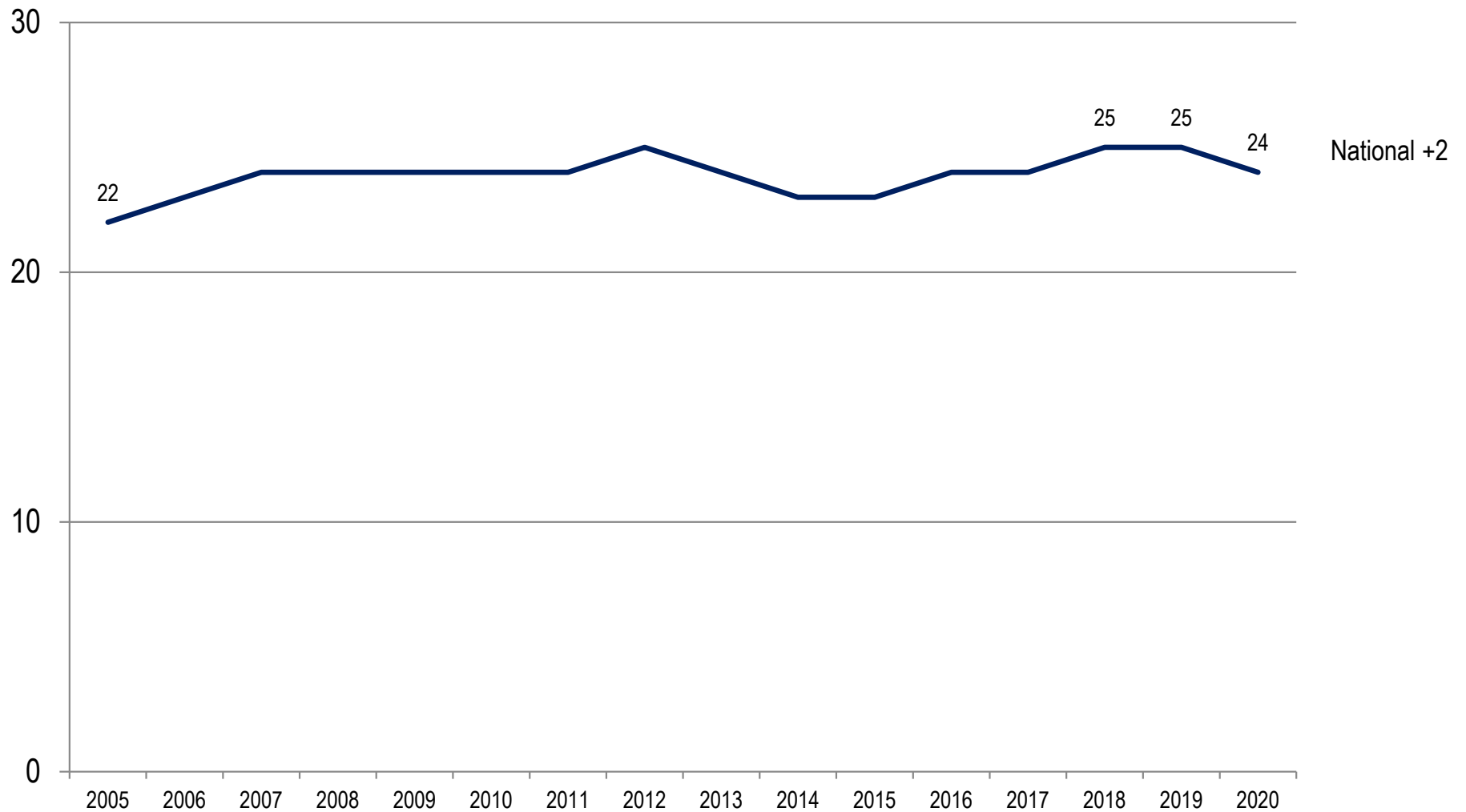


2019 Medicare Hospice Median Days of Care / Beneficiary



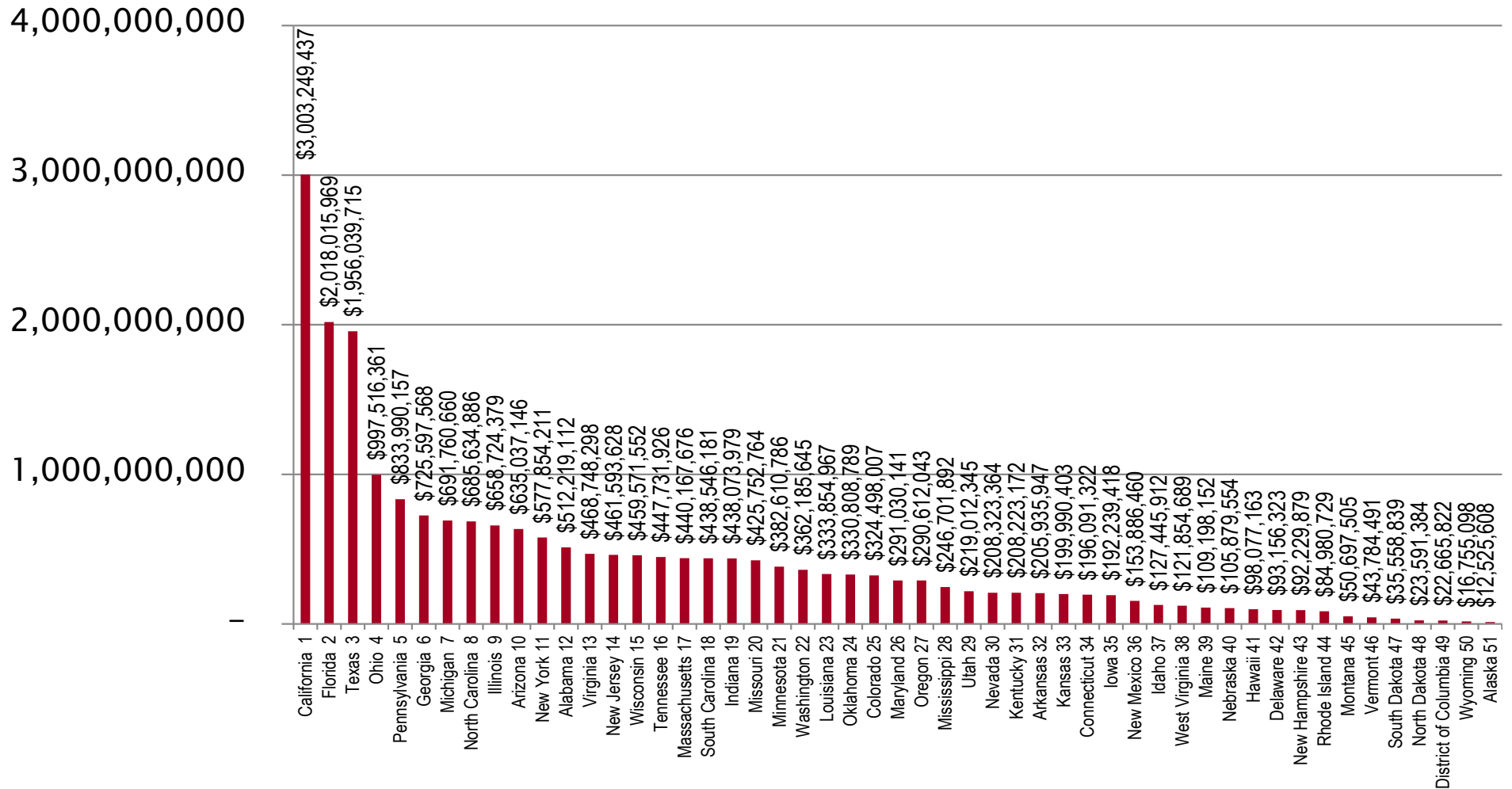
2005-2020 Hospice Median Days of Care

16-Year Trends



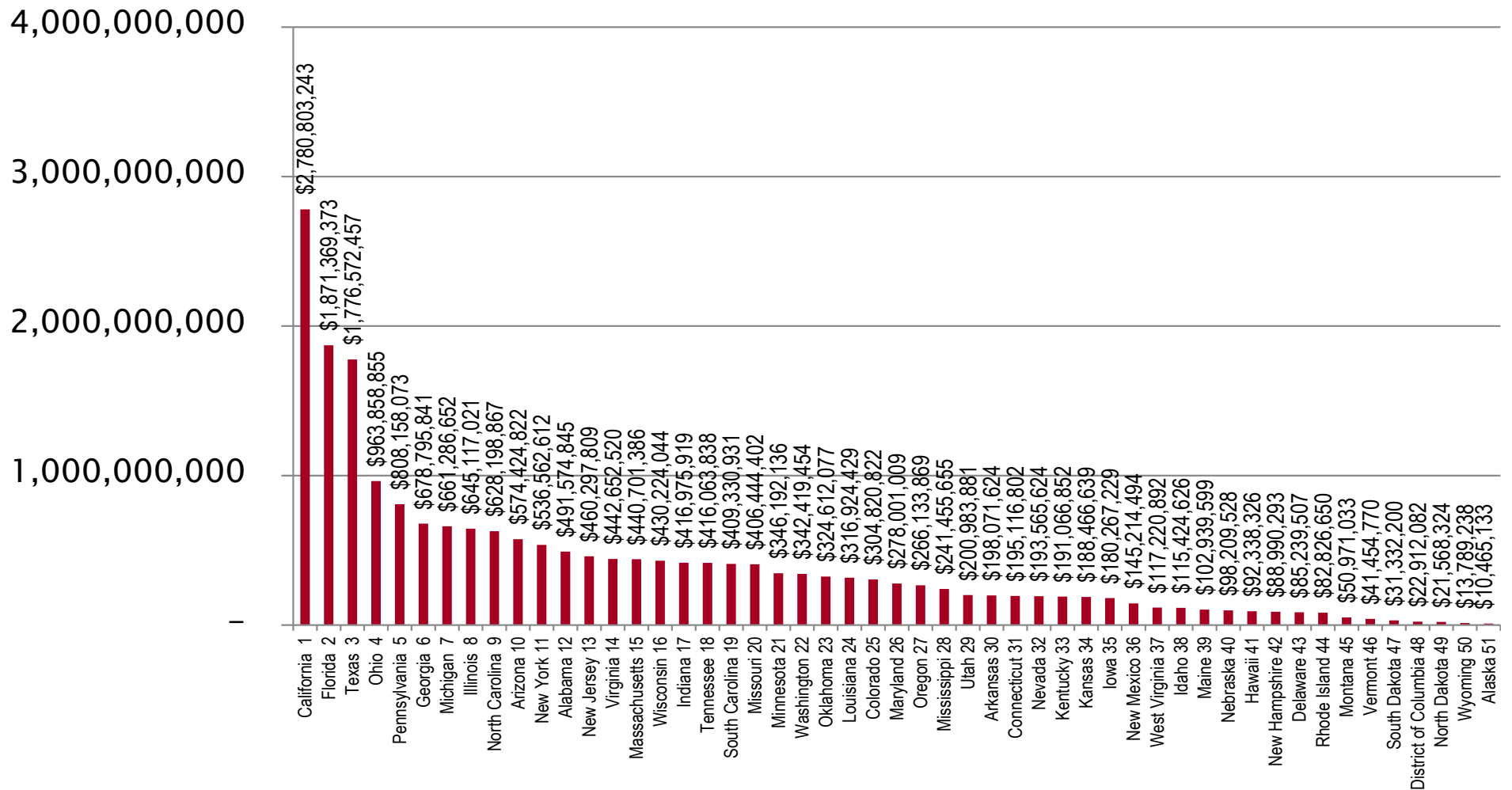
2020 Medicare Hospice Total Medicare Reimbursement

National= \$22,060,231,454

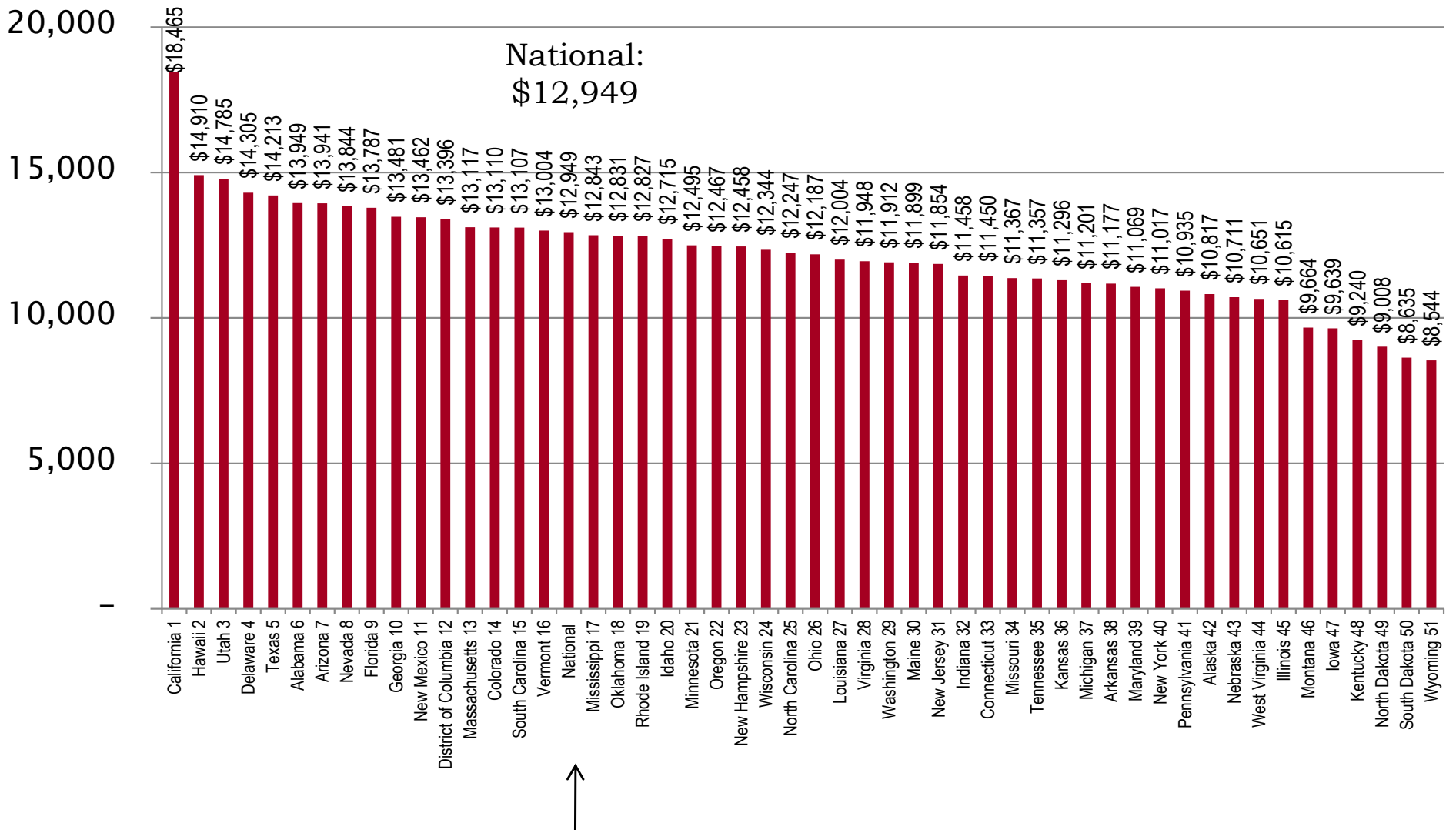


2019 Medicare Hospice Total Medicare Reimbursement

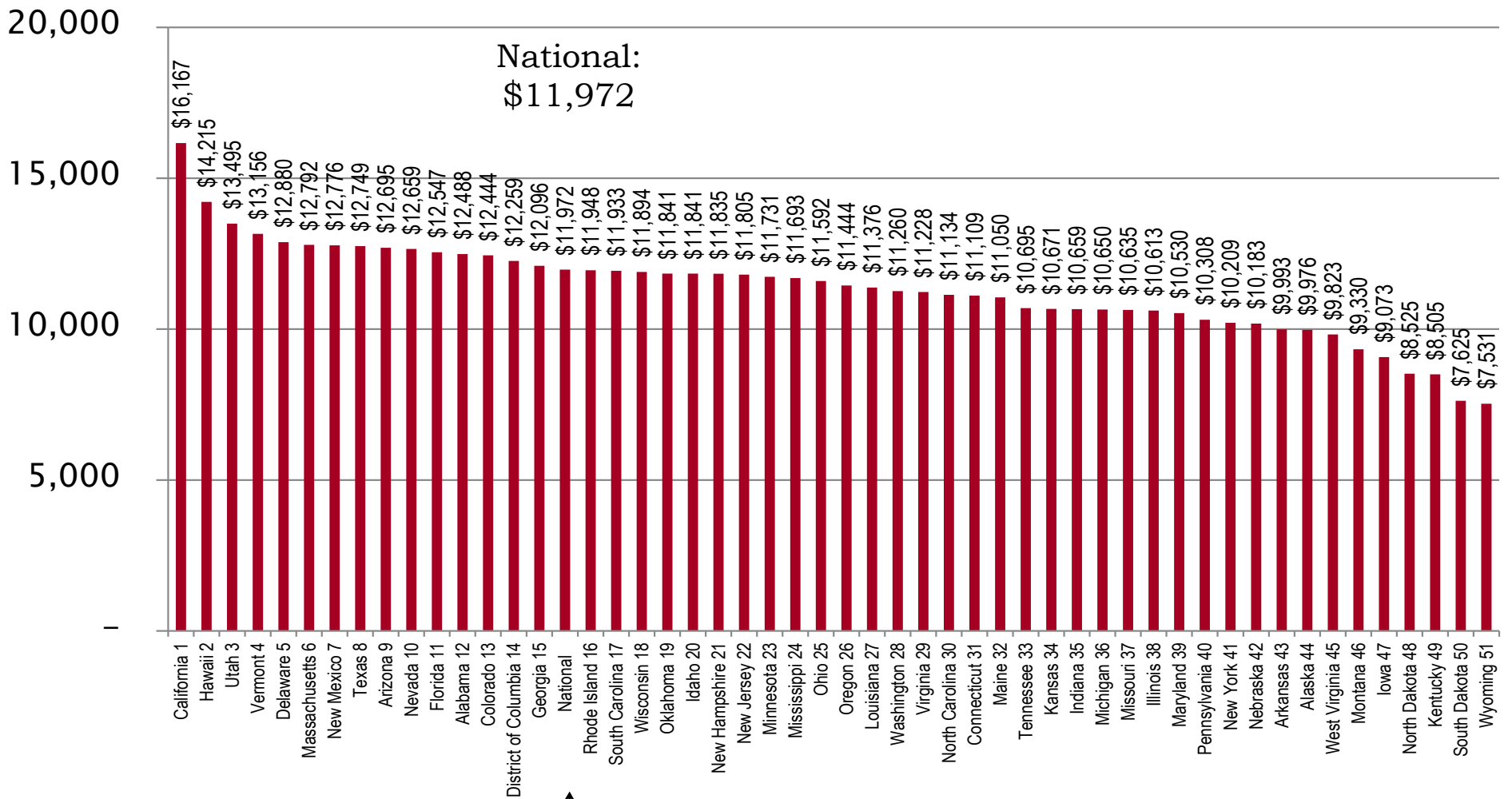
National= \$20,733,241,224



2020 Medicare Hospice Mean Medicare Reimbursement / Beneficiary

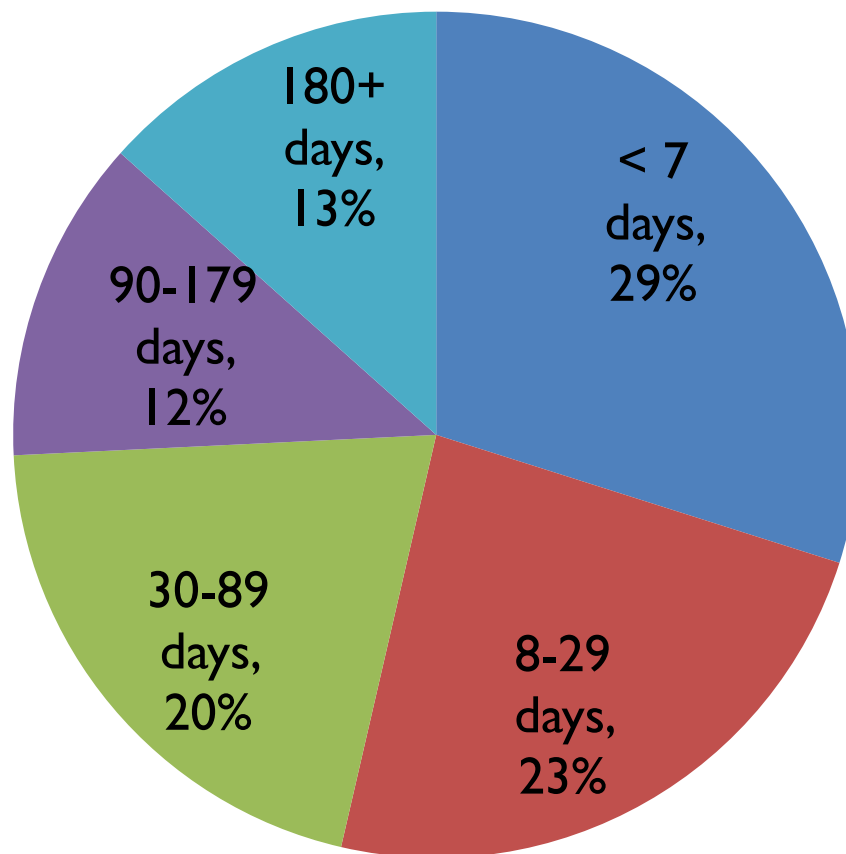


2019 Medicare Hospice Mean Medicare Reimbursement / Beneficiary



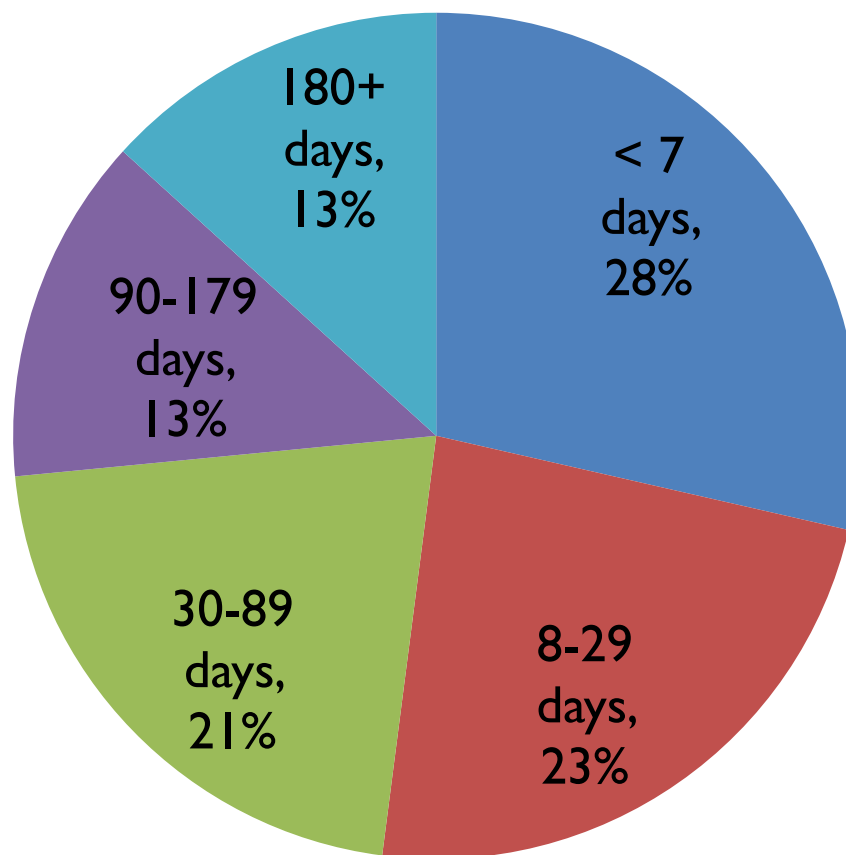
2020 Medicare Hospice Percentage of Days x LOS / Beneficiary

National



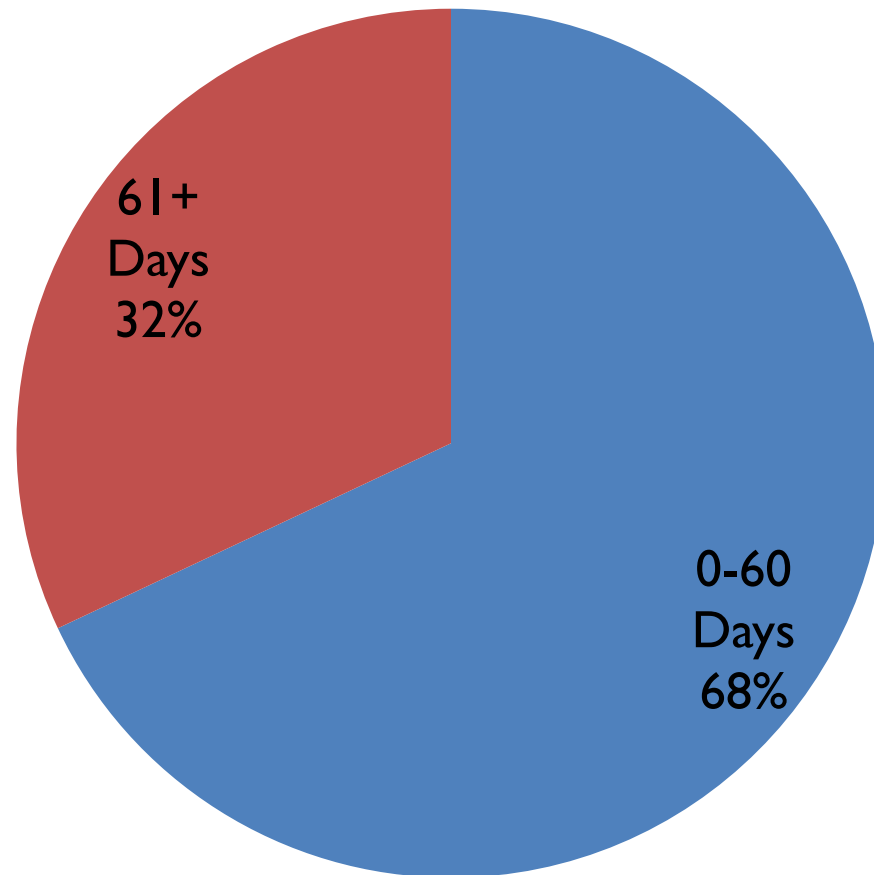
2019 Medicare Hospice Percentage of Days x LOS

National



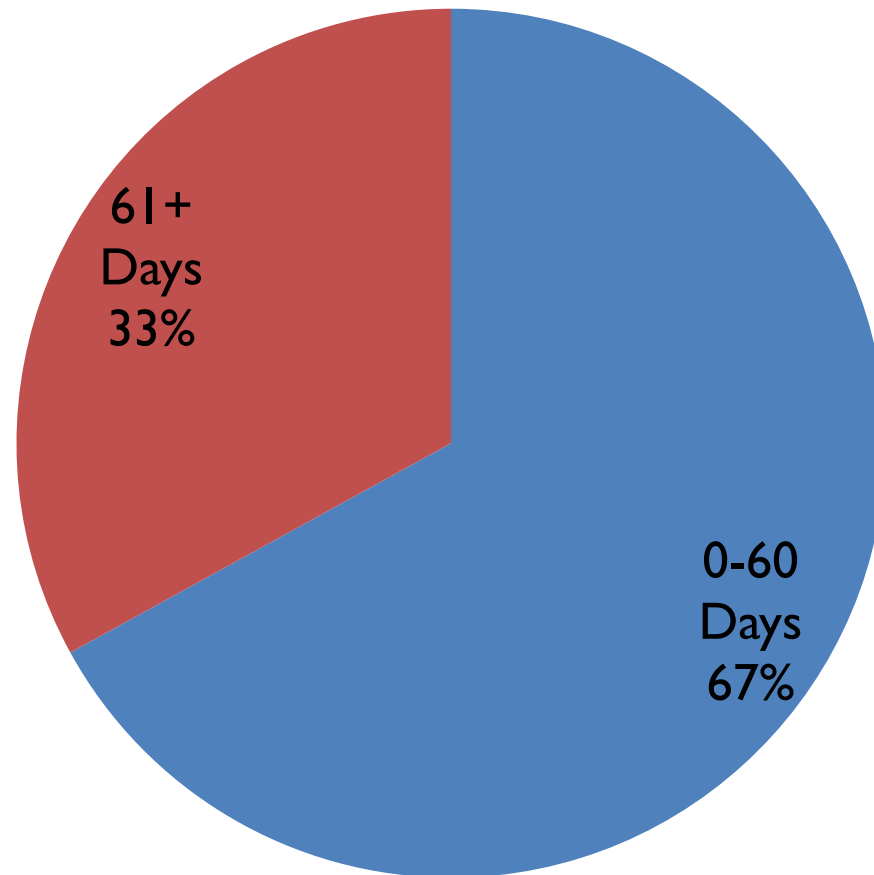
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National



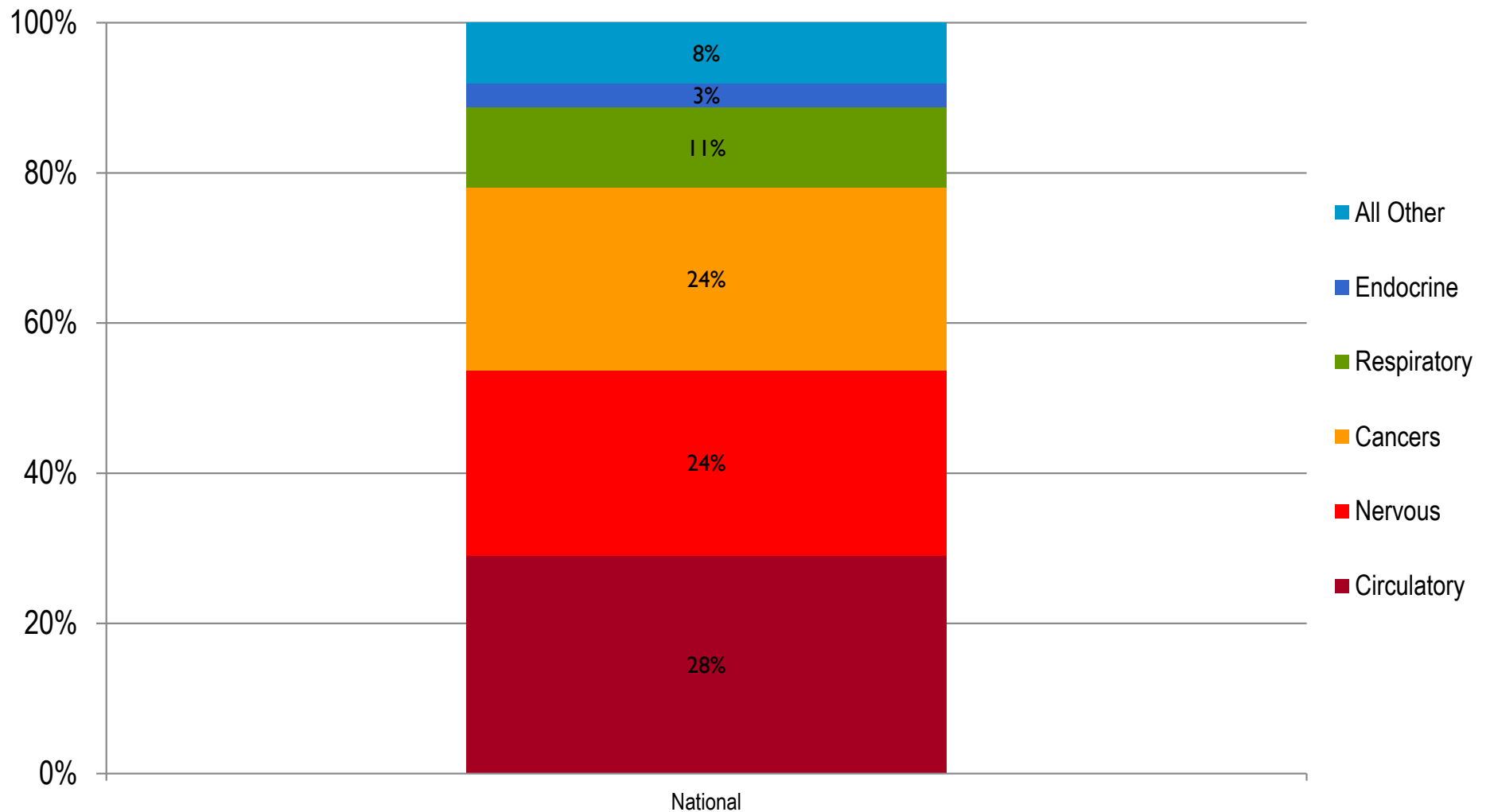
2019 Medicare Hospice Percentage of Days x LOS

National



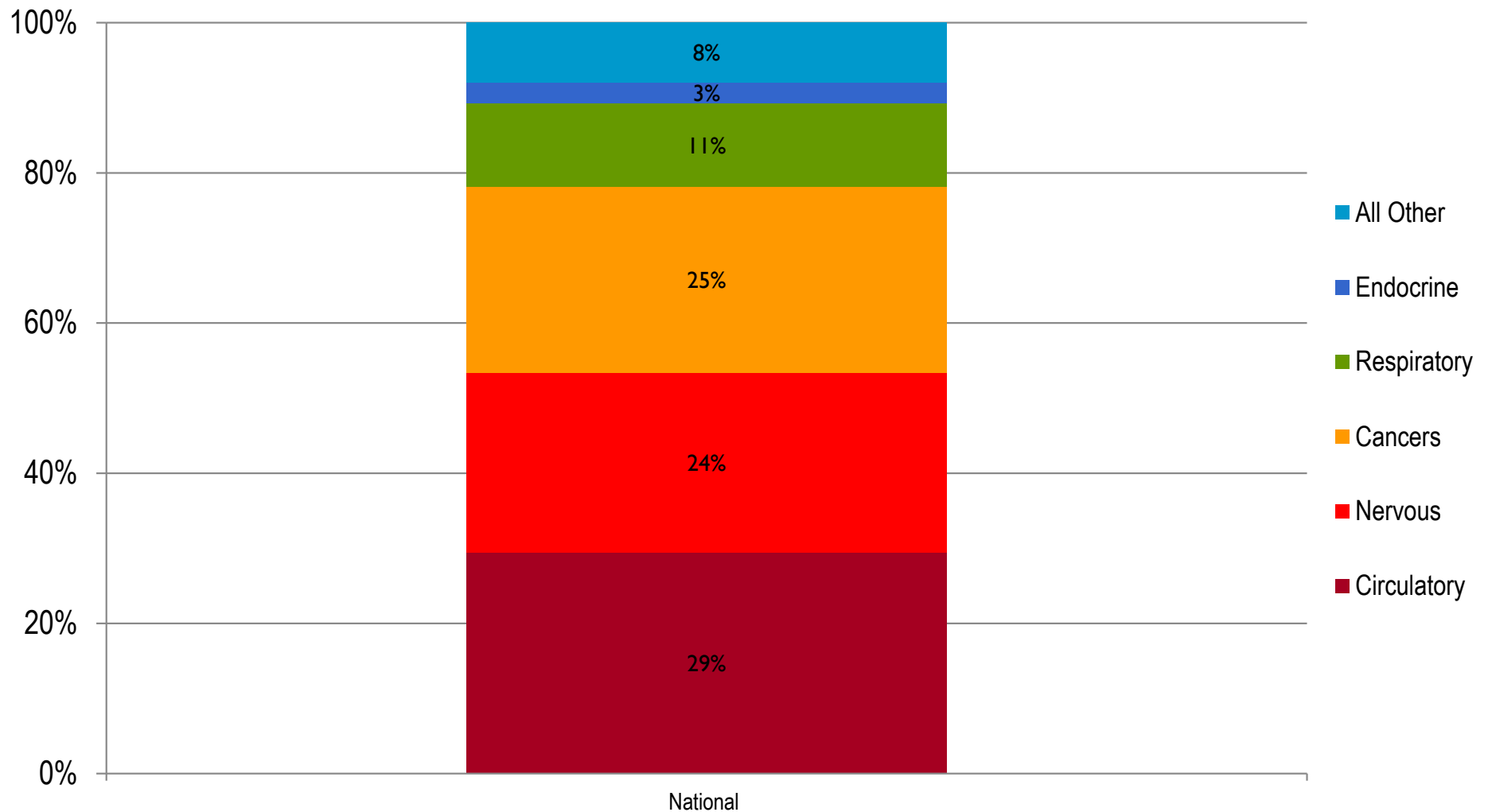
2020 Medicare Hospice Beneficiaries

Top Six ICD-10 PRIMARY Diagnoses (out of 19 categories)

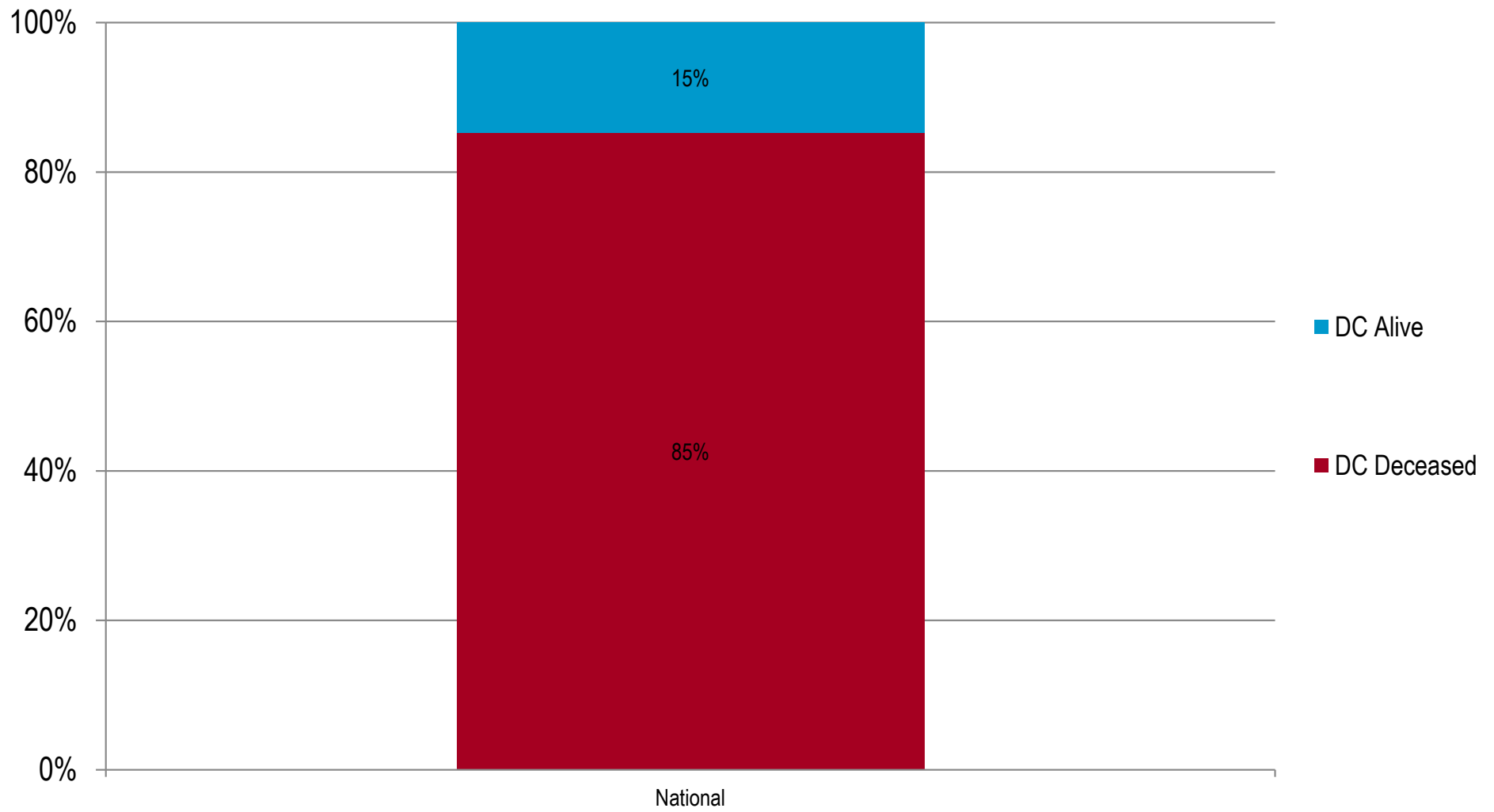


2019 Medicare Hospice Beneficiaries

Top Six ICD-10 PRIMARY Diagnoses (out of 19 categories)

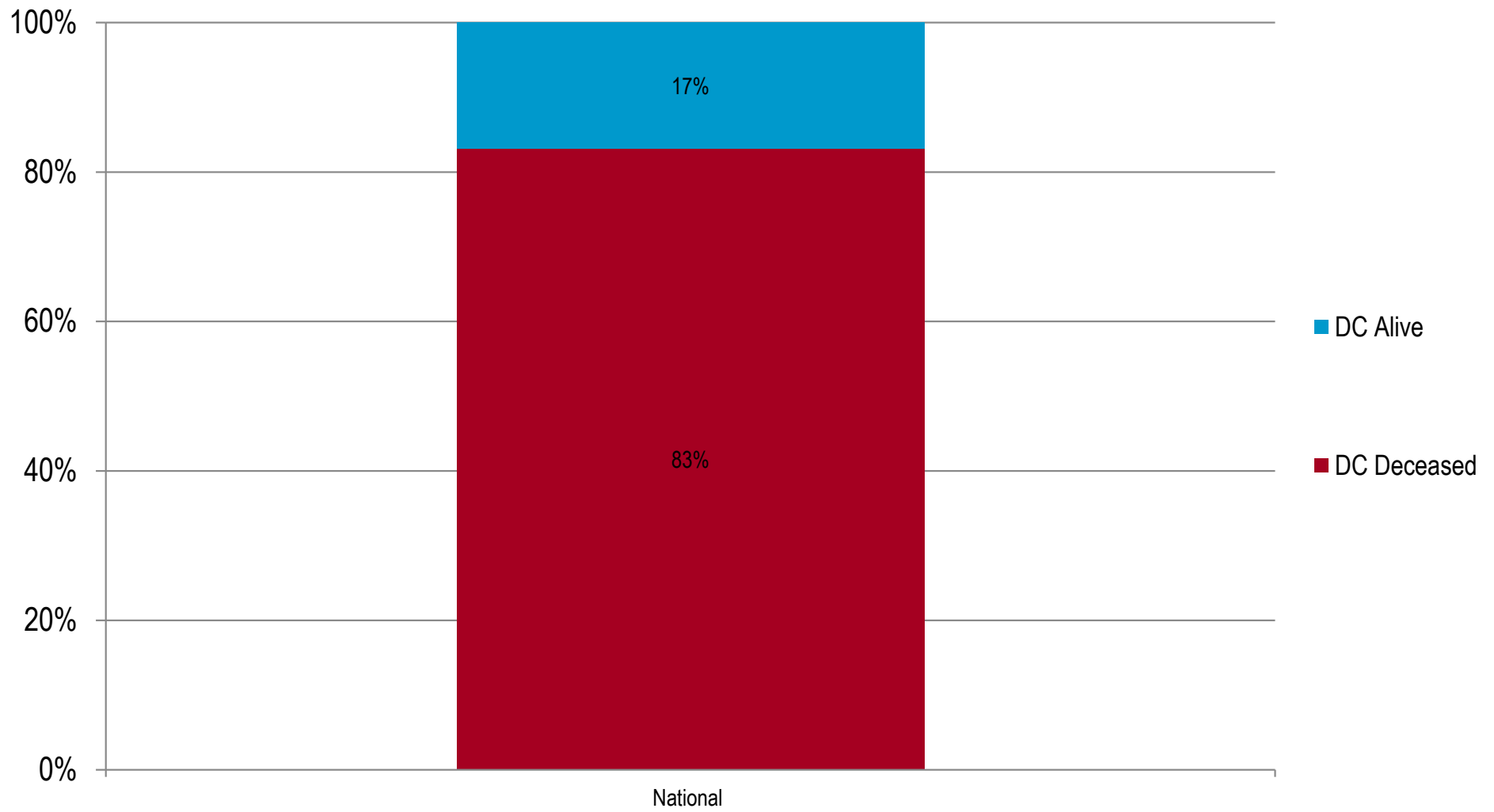


2020 Medicare Hospice Beneficiaries Status at Discharge



► Note: Percent DC Deceased = DC Deceased / (DC Deceased + DC Alive) calculated for each *admission*.

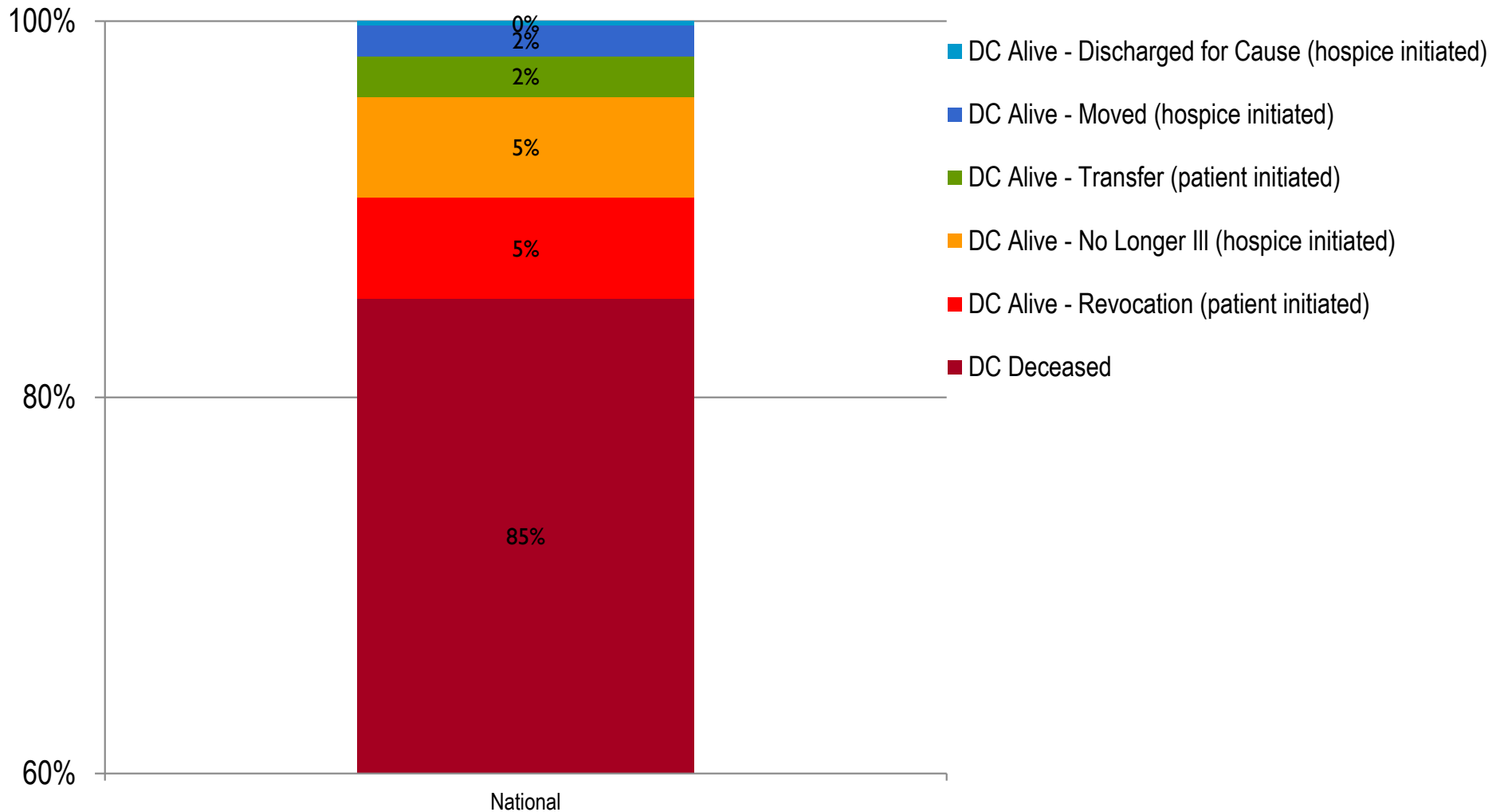
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2020 Medicare Hospice Beneficiaries

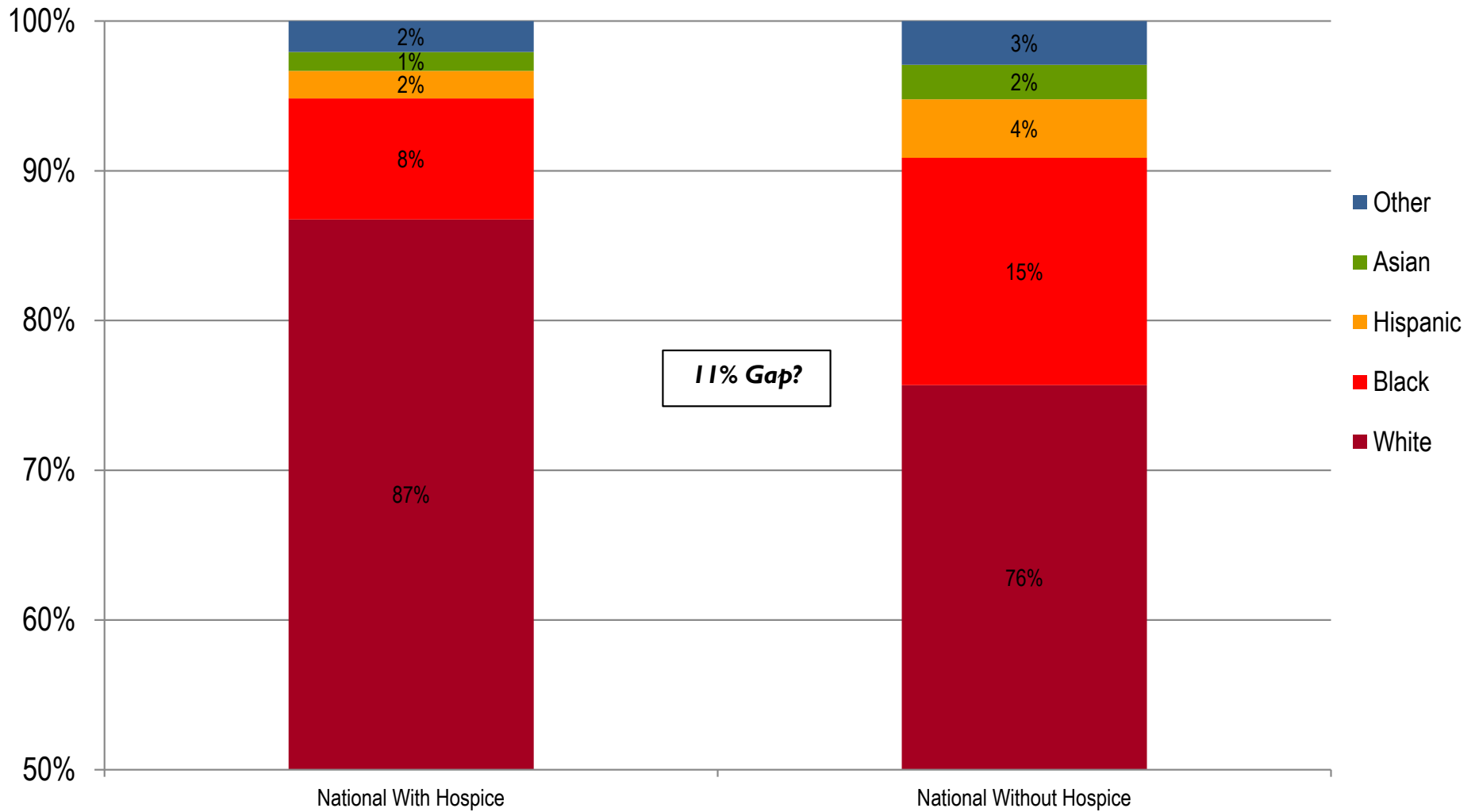
NEW - Status at Discharge - Detailed



Note: Percent DC Deceased = $DC\ Deceased / (DC\ Deceased + DC\ Alive)$ calculated for each admission.

2020 Medicare Hospice Beneficiaries

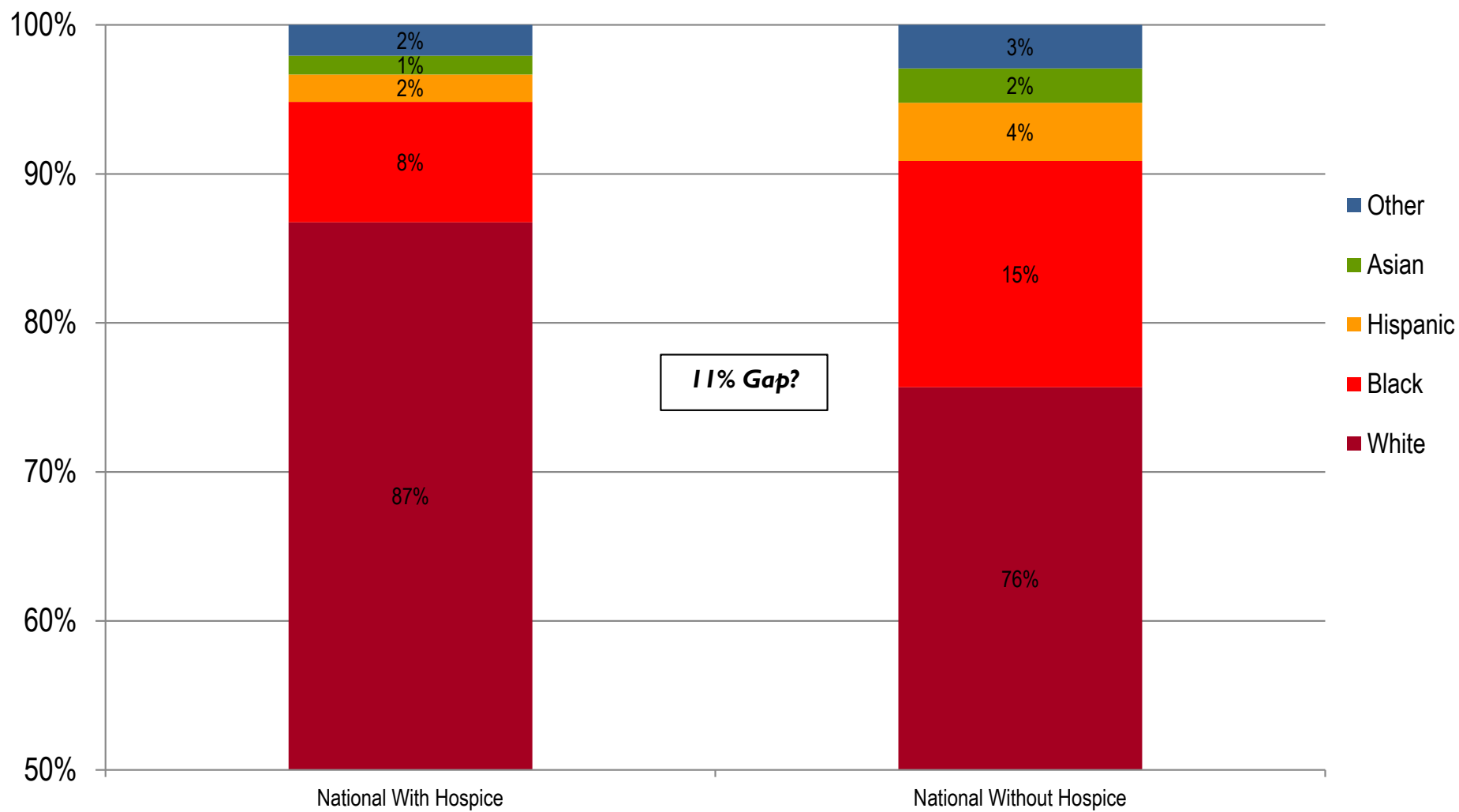
Race: Dying With vs. Without Hospice



Minorities are underserved in hospice.

2019 Medicare Hospice Beneficiaries

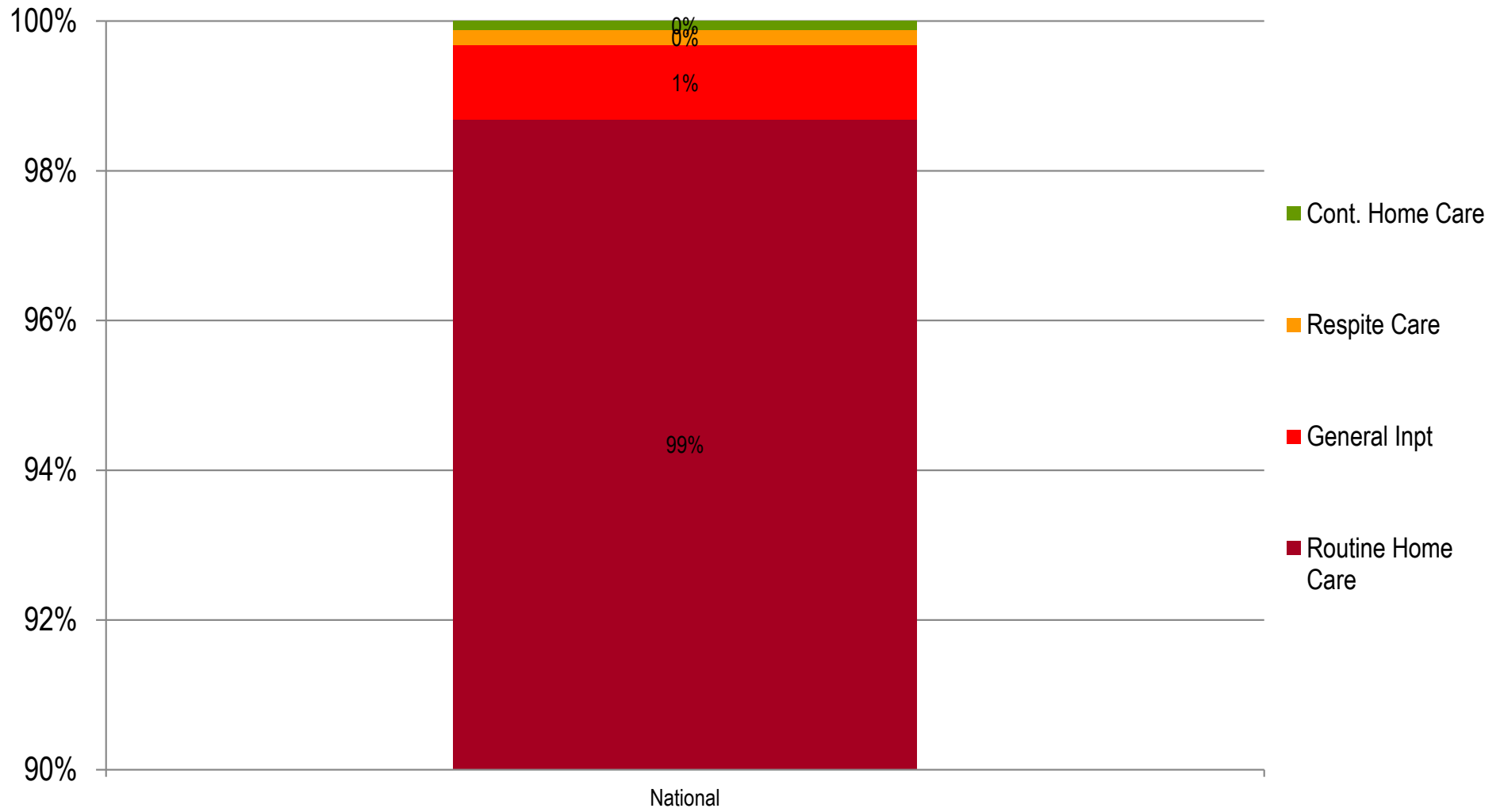
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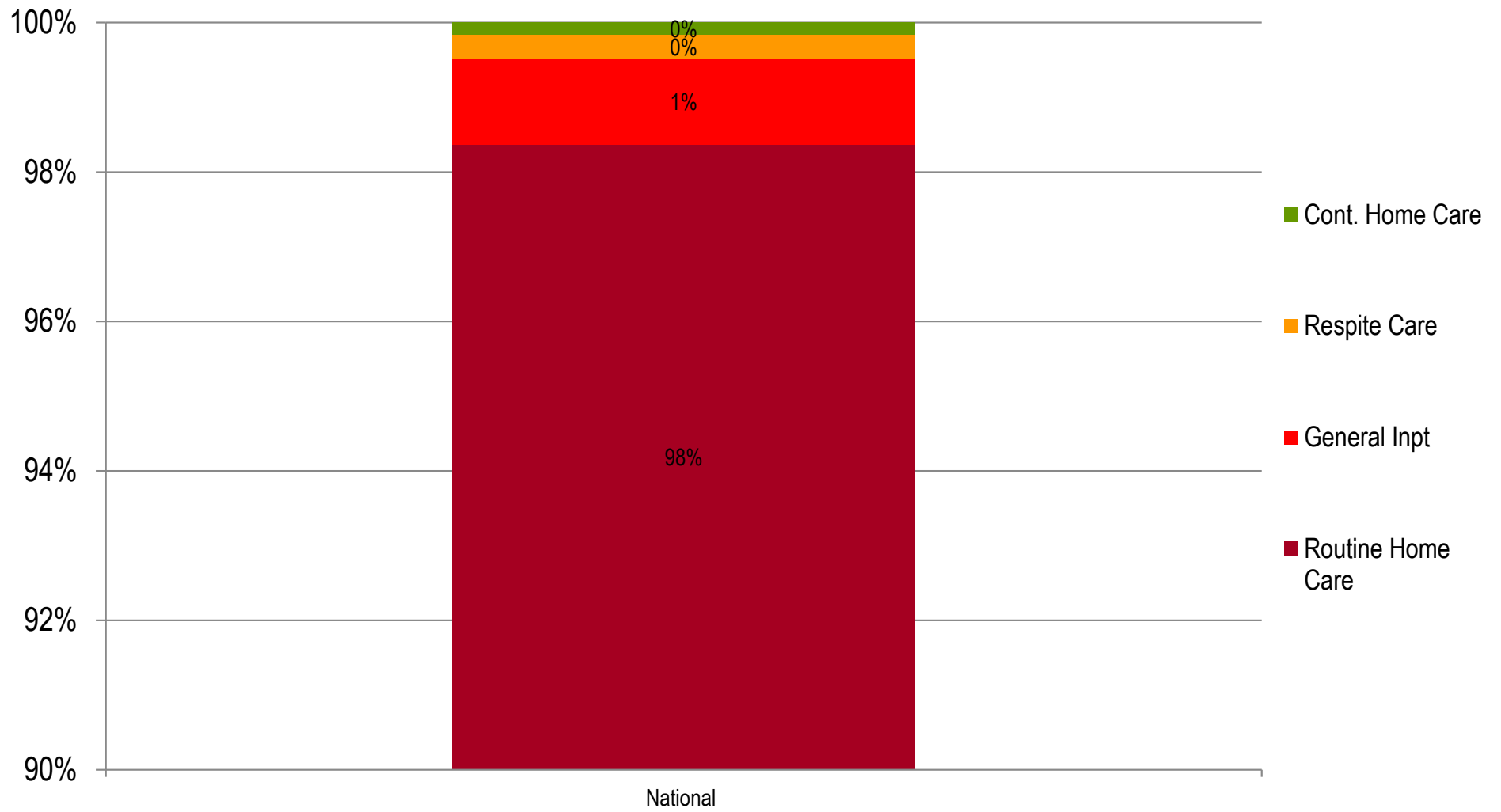
2020 Medicare Hospice Beneficiaries

Levels of Care (days)



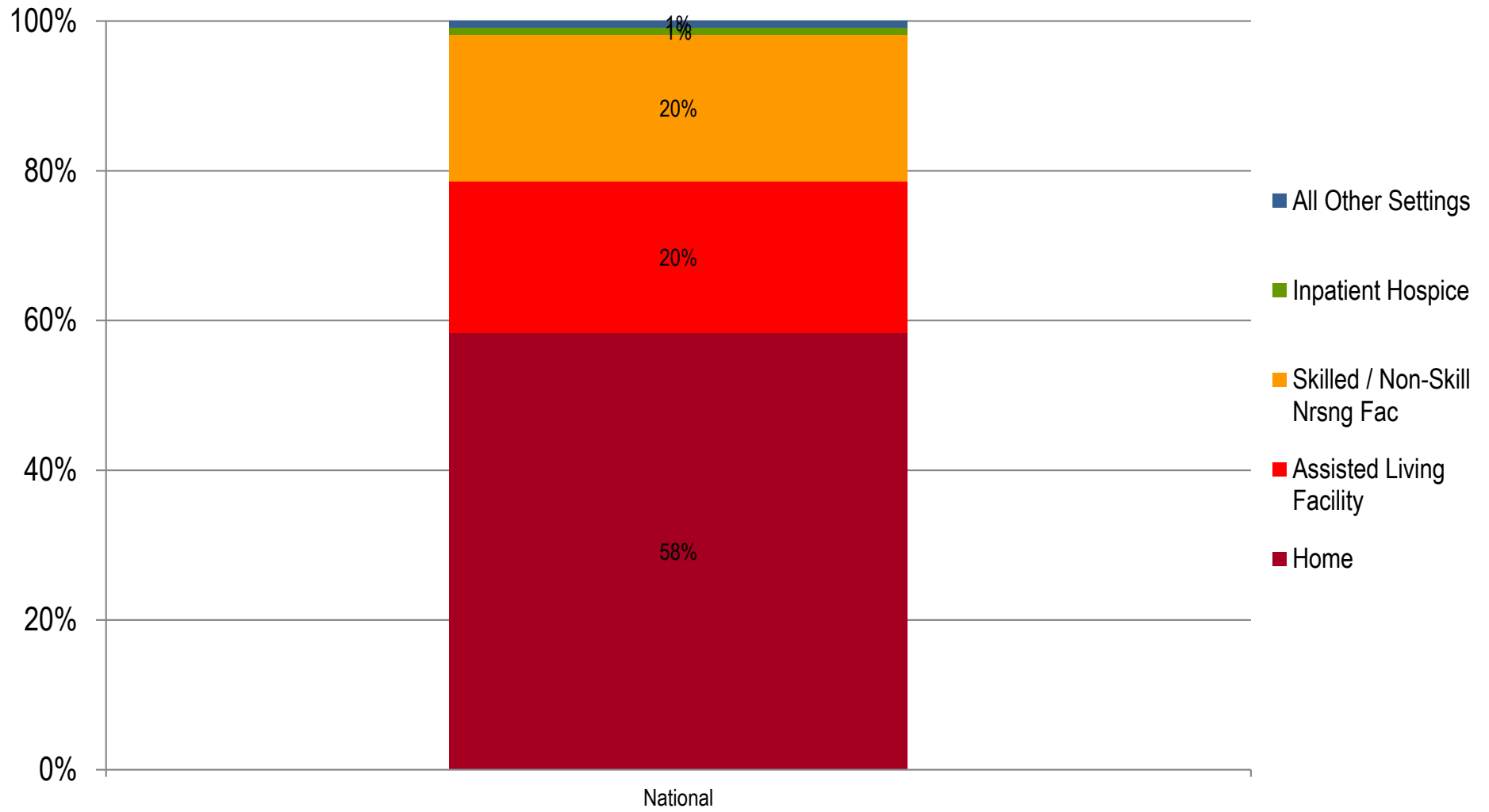
2019 Medicare Hospice Beneficiaries

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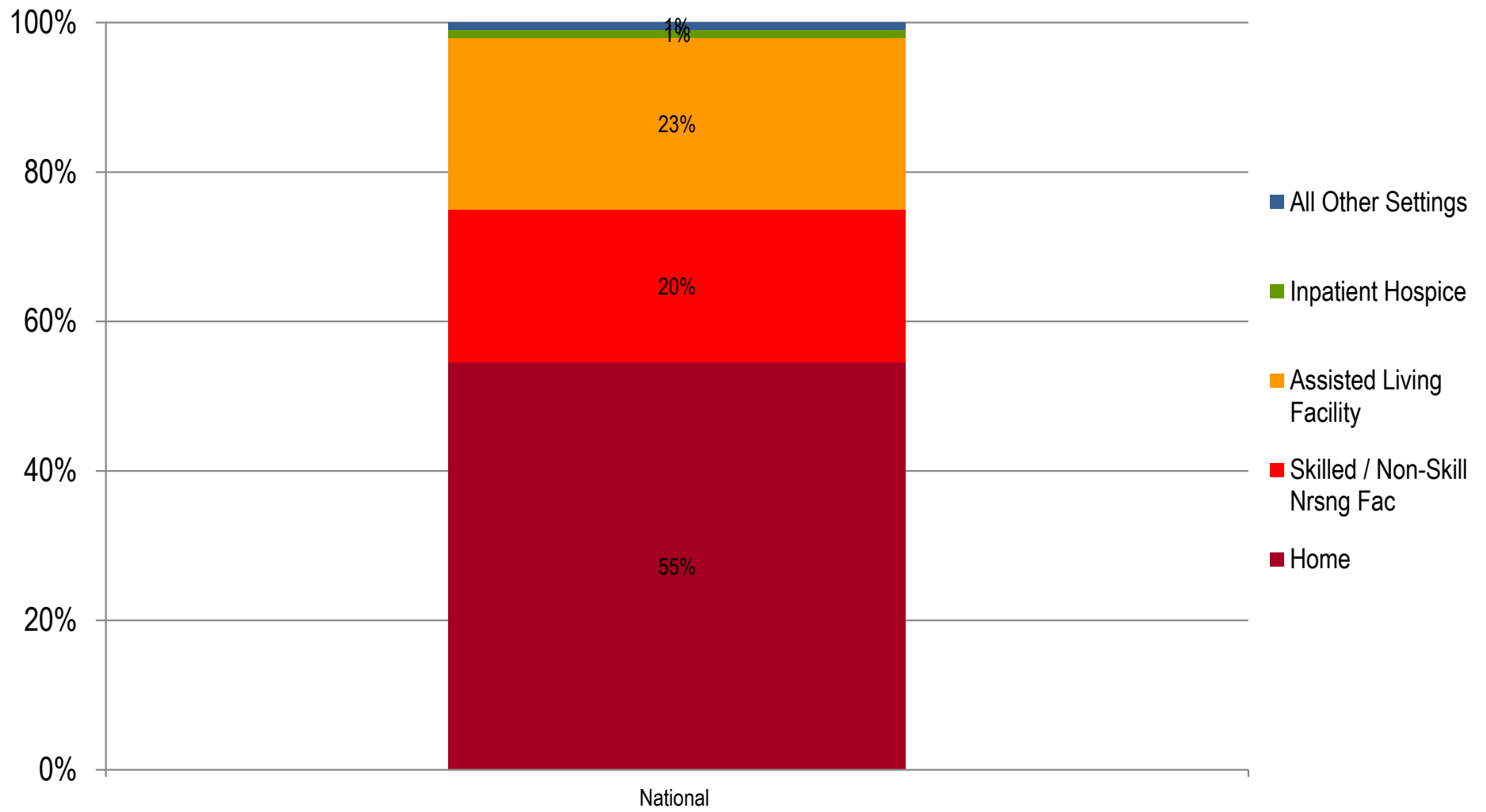
2020 Medicare Hospice Beneficiaries

Locations of Care (days)



2019 Medicare Hospice Beneficiaries

Locations of Care (days)



Thank you

Please contact Cordt Kassner, PhD, at Hospice Analytics with any questions, comments, feedback, or for additional information:

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E: Info@HospiceAnalytics.com

W: www.HospiceAnalytics.com

* Review the new National Hospice Locator at www.HospiceAnalytics.com – geo-maps and detailed information on every known hospice in the United States!