



Annual Address on the State of the Physician Workforce

Michael Dill

Director, Workforce Studies, AAMC

November 9, 2024 (3:00-4:15 pm Eastern)











AAMC's Workforce Studies Team (& Friends)





Outline

Projections

Access

Burnout



Outline

Projections

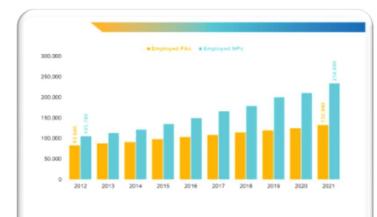
Access

Burnout



"...workforce policy should recognize the care team in its current state."

www.AAMCResearchInstitute.org



ISSUE BRIEF

How Improved Health Workforce Projection Models Could Support Policy

A new approach to better understand the roles and contributions of NPs and PAs, and why it should be incorporated into workforce projection models.

projection models.



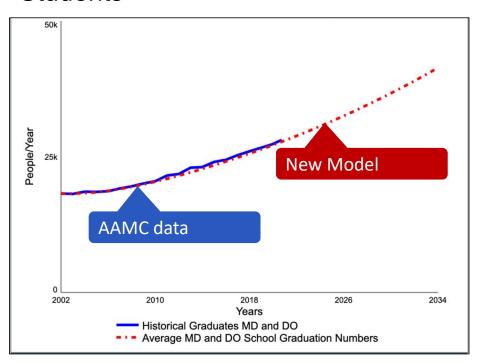
New model, new possibilities

- 1. Utilization & Demand & Need
- 2. Physicians & PAs & NPs (APPs)
- 3. Starts supply production with medical school
- 4. Includes residents and fellows in capacity
- 5. Starts projections in 2002
- 6. Includes feedback (e.g., population health and demand)
- 7. Co-ownership
- 8. No black box

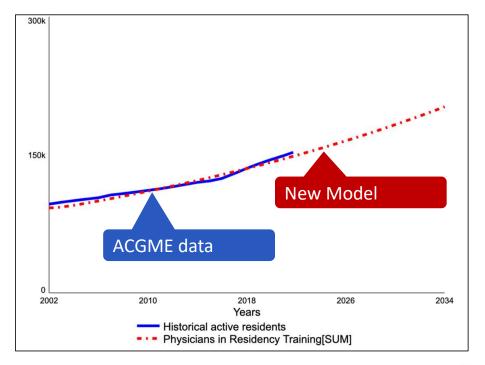
LEARN SERVE LEAD 204 THE AAMS ANNUAL MEETING

We Can Compare Simulation Results to Historical Data

Students



Residents



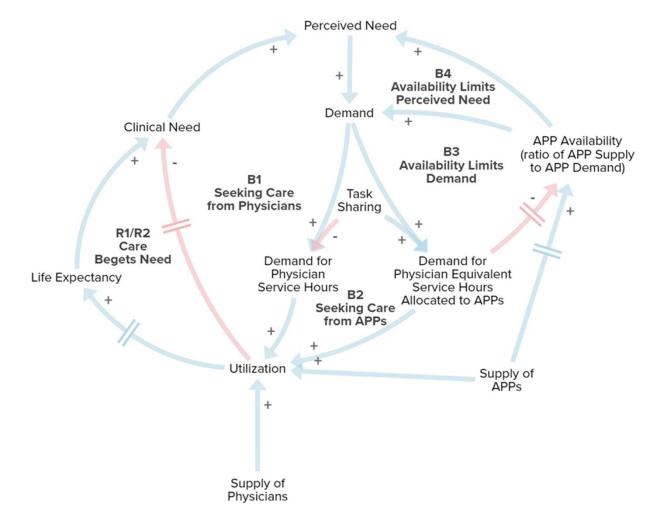


New model, new possibilities

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Overview of the new model





New model, new possibilities

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Physician Workforce Projections 2.0



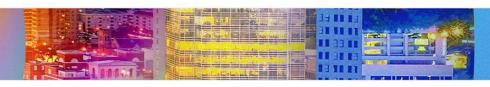


Physician Workforce Projections 2.0









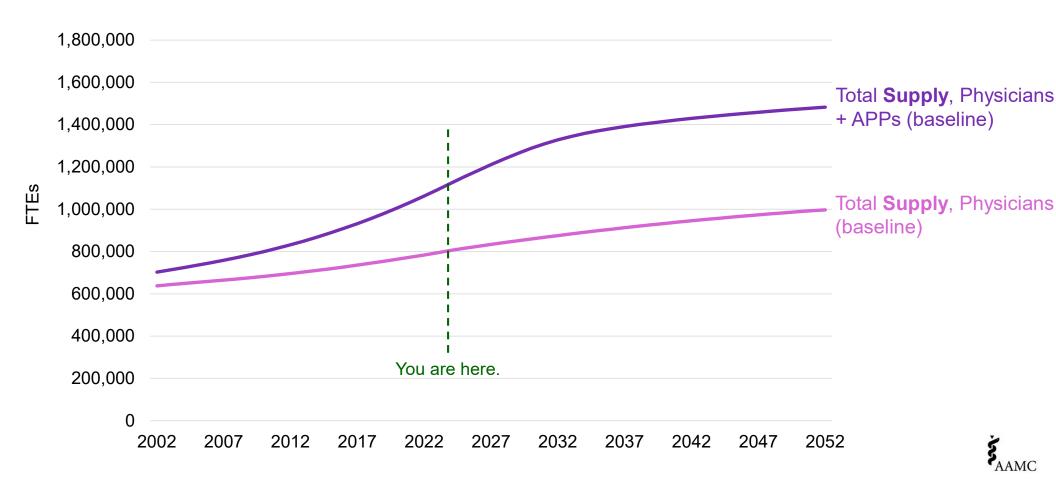
A note on terminology: Baseline scenario

- Current underlying trends persist, like declining work hours
- Trends that require explicit action do not persist, like GME growth, Scope of Practice expansion, increased willingness to shift tasks to PAs and NPs





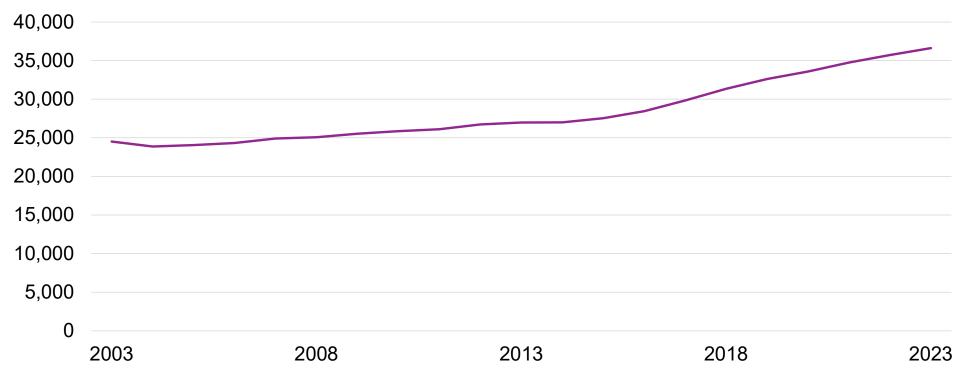
Projected Physician & APP Supply, 2002 to 2052 (**Baseline** Scenario)





Physician training capacity is rising, but...

ACGME Entrants

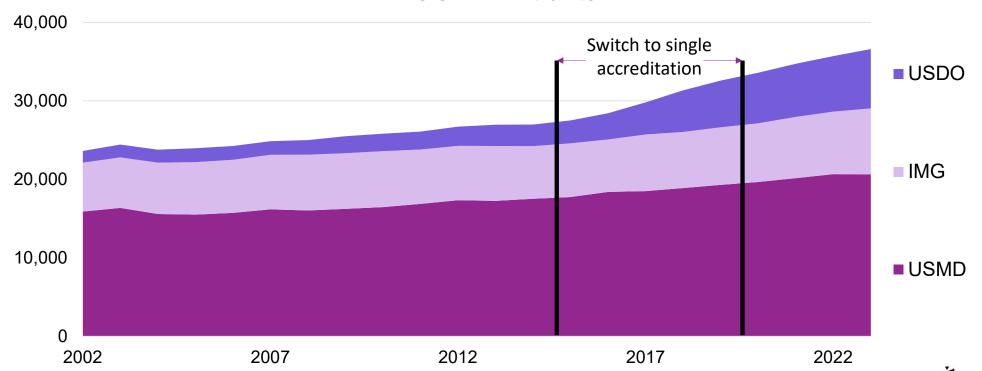






Physician training capacity is rising, but... ...not as fast as some might think

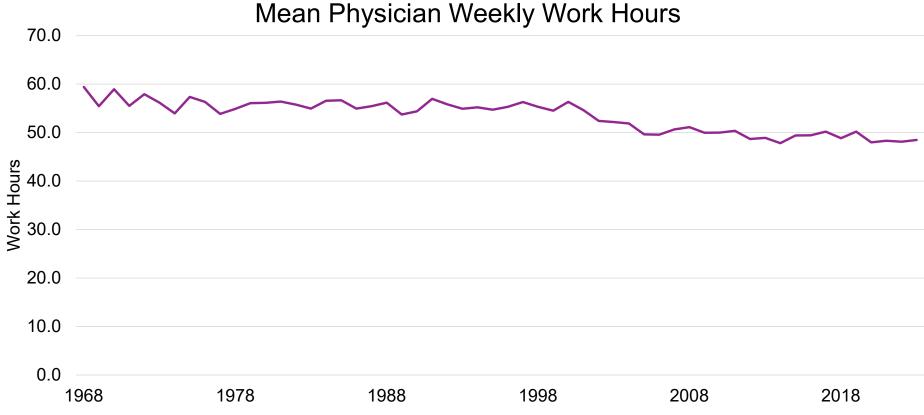
ACGME Entrants



AAMC



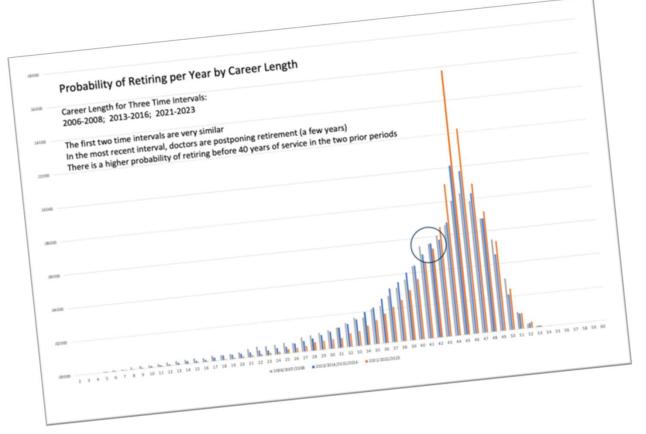
Physicians continue to work fewer hours







Retirement: I do not think it means what you think it means



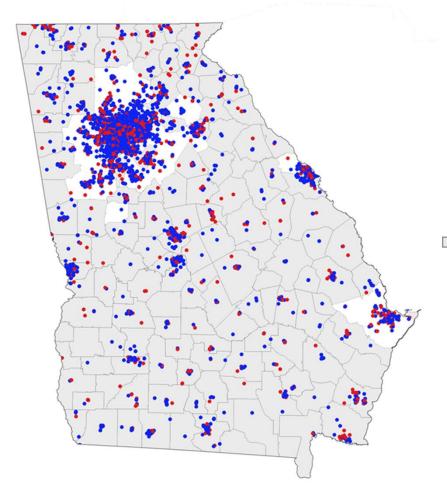




Physicians' age in a local context

Physician Practice Location, 2022

(1 dot = 1 physician)



- Physician Age: Under 65
- Physician Age: 65 & above
- ☐ HPSA

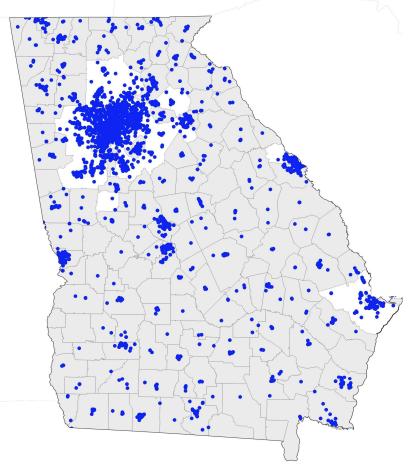




Physicians' age in a local context



(1 dot = 1 physician)



Physician Age: Under 65

□ HPSA

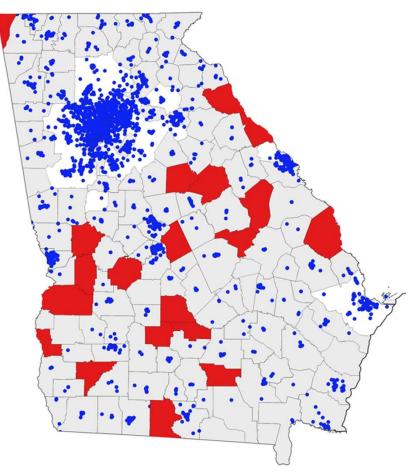




Physicians' age in a local context



(1 dot = 1 physician)

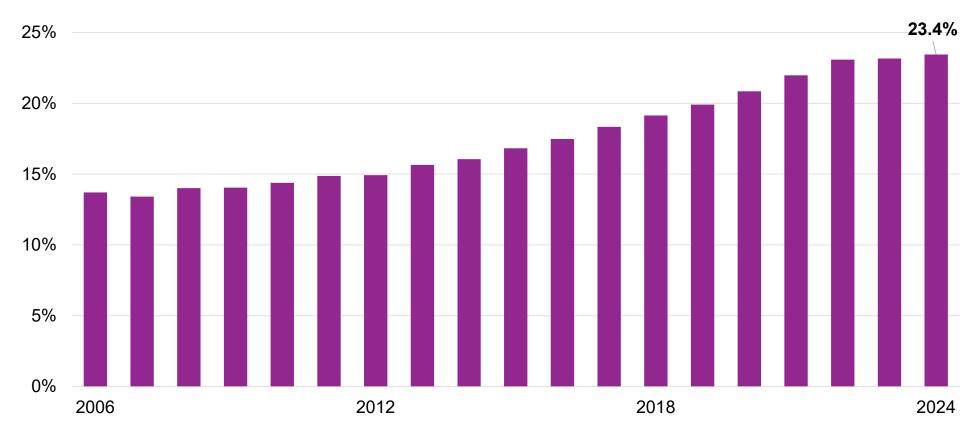


- Physician Age: Under 65
- ≥50% of Physician Workforce Aged 65+
- □ HPSA





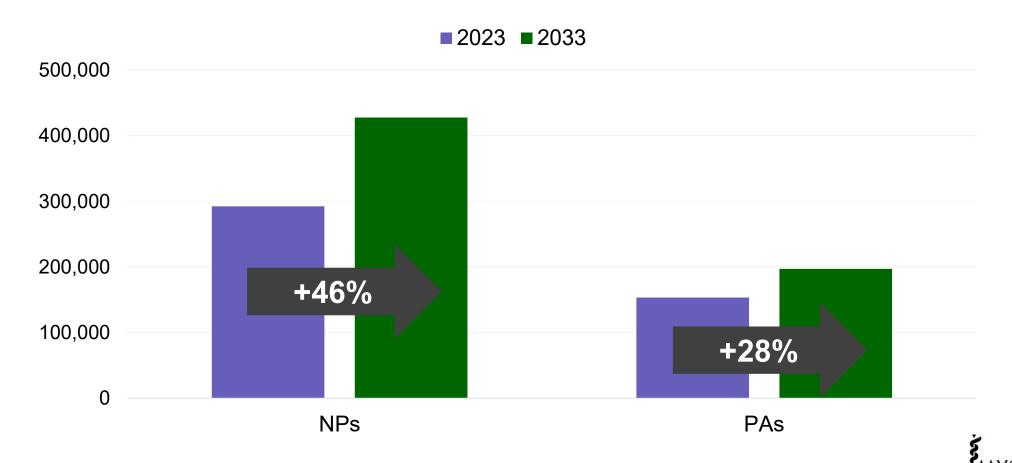
Percent of Physicians 65+ Years of Age







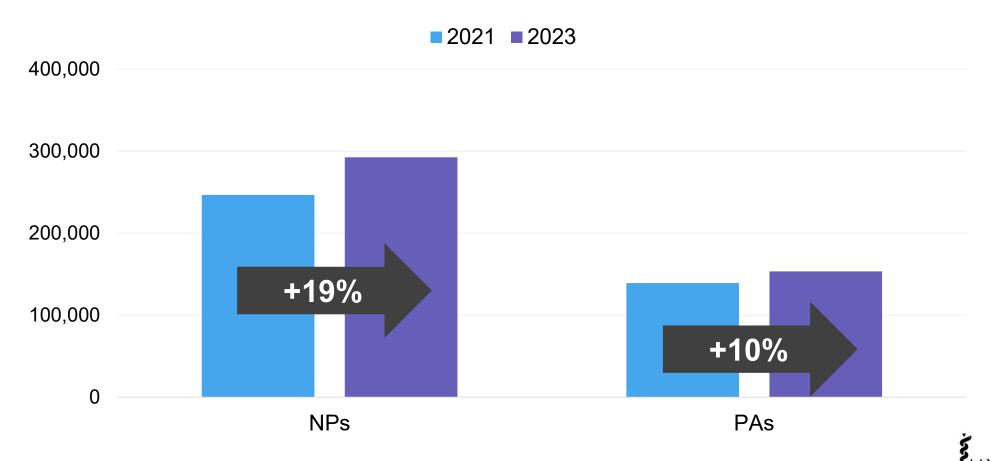
Employment of NPs & PAs, 2023 and 2033



Source: BLS, Employment Projections.



Employment of NPs & PAs, 2021 and 2023



Source: BLS, Employment Projections.

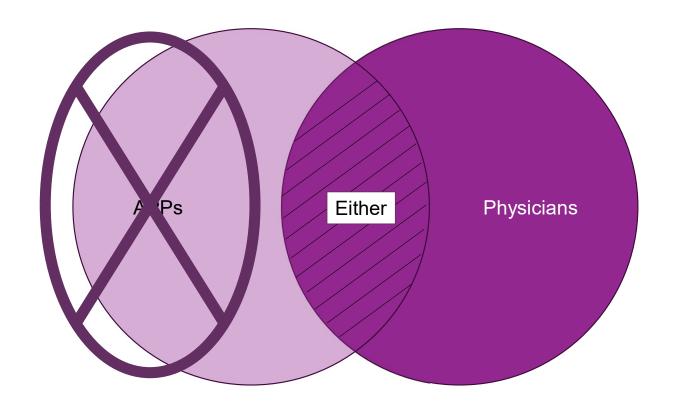
Physician Workforce Projections 2.0







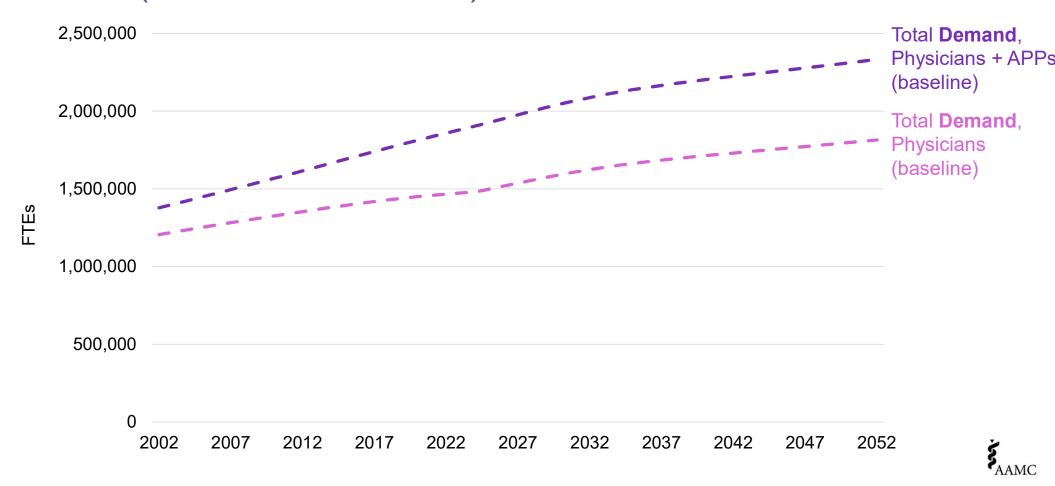
Meeting demand is complex. The new model captures that.





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Projected Physician & APP Demand, 2002 to 2052 (Baseline Scenario)



We are growing in number,

and we are getting older.

Percent change 2006-2022

Total Population 12%

Pop. 65+ 56%

source: US Bureau of the Census

Scope of Practice

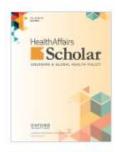






Physicians work with PAs and NPs, and they see benefits to that





Volume 2, Issue 6 June 2024

JOURNAL ARTICLE

Physicians working with physician assistants and nurse practitioners: perceived effects on clinical practice 3

Xiaochu Hu 록, Bettie Coplan, Hilary Barnes, Noël Smith, Alison Essary, Michael Dill Author Notes

Health Affairs Scholar, Volume 2, Issue 6, June 2024, qxae070, https://doi.org/10.1093/haschl/qxae070





Patients are increasingly open to being seen by PAs and NPs

RESEARCH ARTICLE

HEALTH AFFAIRS > VOL. 32, NO. 6: MEDICAID EXPANSION & VULNERABLE POPULATIONS

Survey Shows Consumers Open To A Greater Role For Physician Assistants And Nurse Practitioners

Michael J. Dill, Stacie Pankow, Clese Erikson, and Scott Shipman



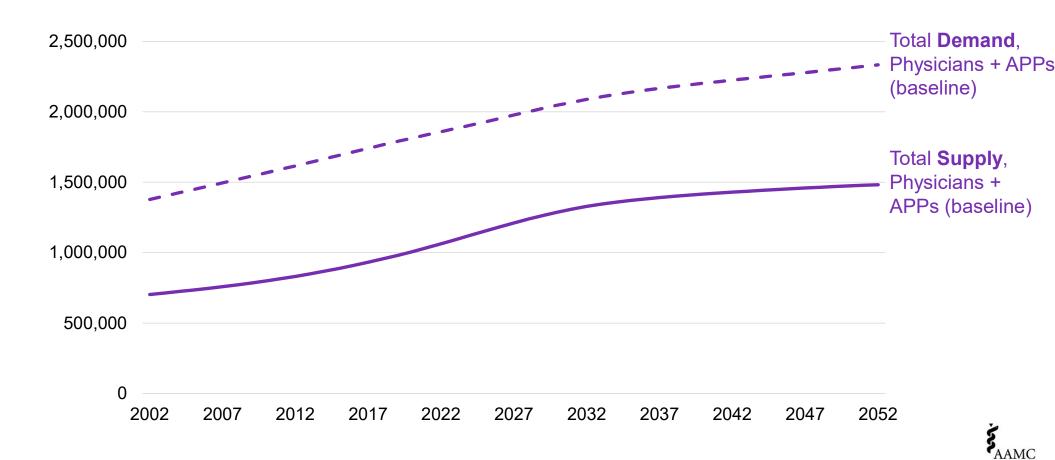
Physician Workforce Projections 2.0





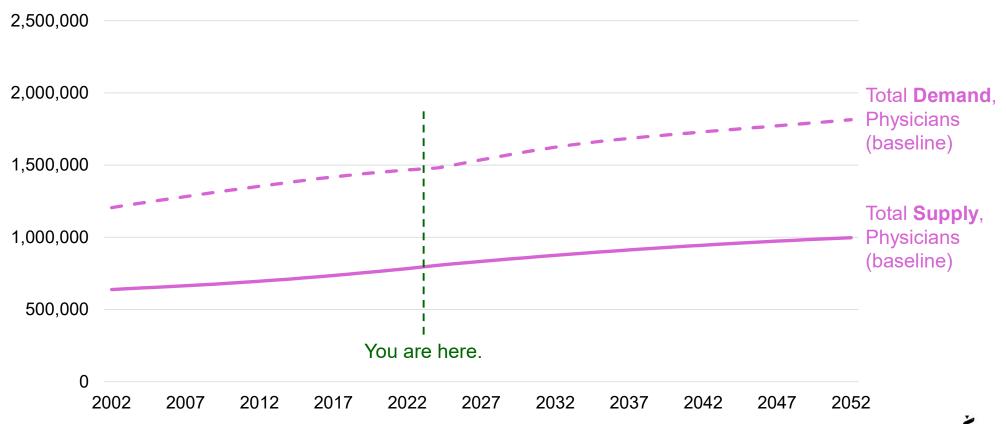


Projected Supply & Demand, Physicians + APPs, 2002 to 2052 (**Baseline** Scenario)





Projected Supply & Demand, Physicians Only, 2002 to 2052 (**Baseline** Scenario)





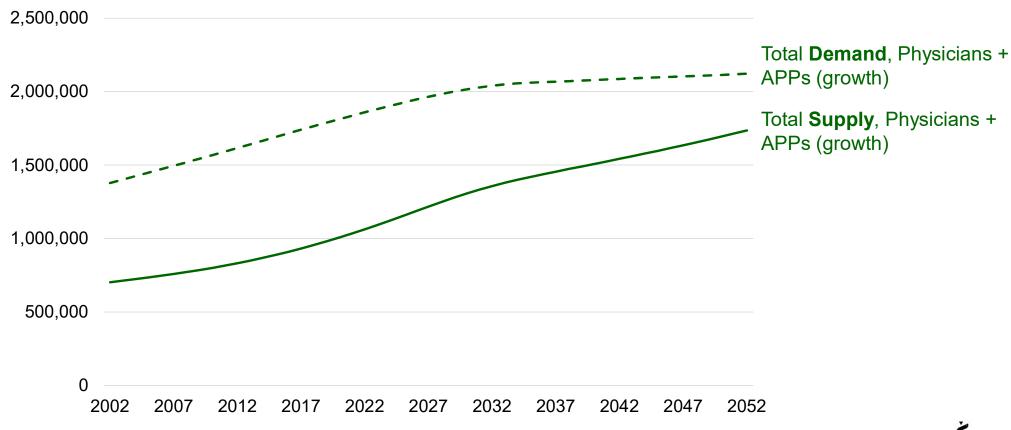






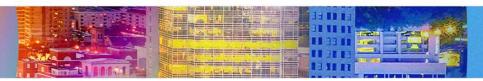


Projected Physician & APP Supply & Demand, 2002 to 2052 (**Growth** Scenario)









Assume continued growth in:

- 1. SOP
- 2. Willingness to task shift
- 3. GME capacity

Demand for Physicians & APPs

Demand Unmet by Physicians or APPs

APP Supply

Physician Supply

Imbalance

Shortage of at least 89,000 physicians by 2052





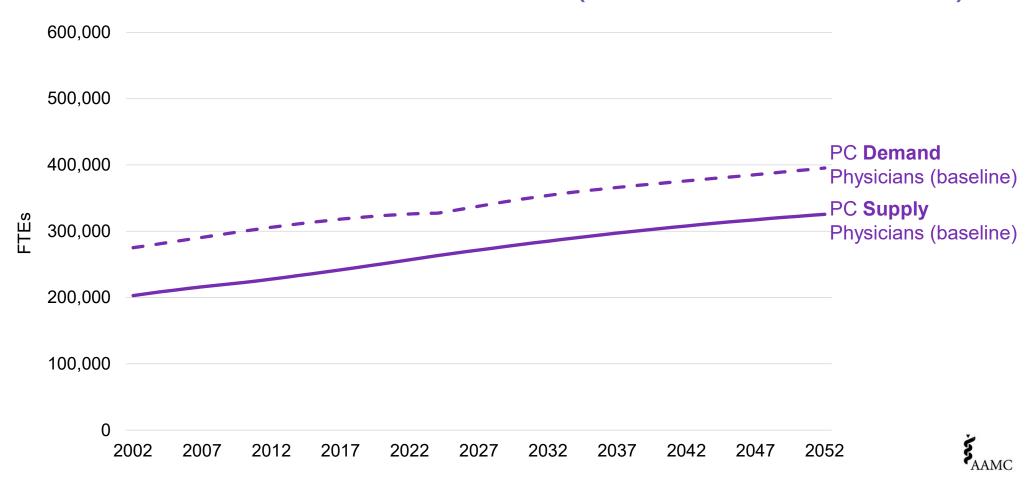
But what about primary care?





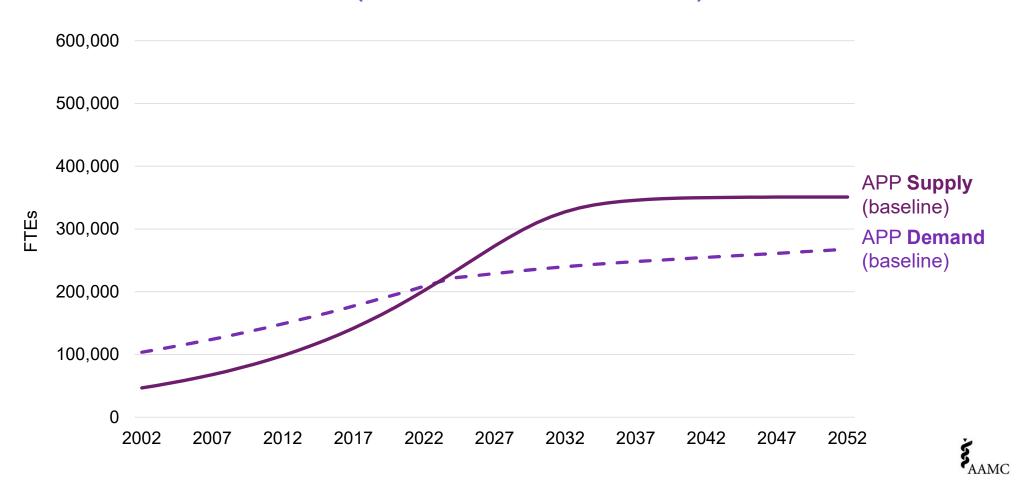


Projected Primary Care Physician Supply & Demand, 2002 to 2052 (Baseline Scenario)



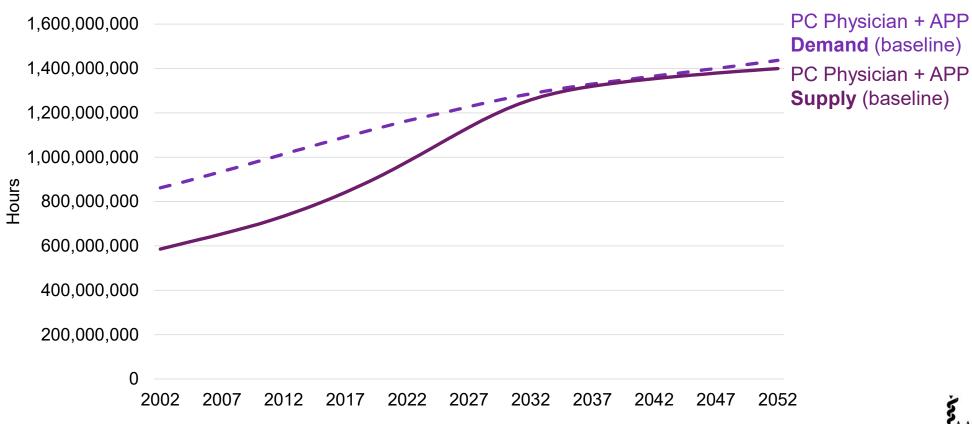


Projected Primary Care Supply & Demand, APPs, 2002 to 2052 (**Baseline** Scenario)





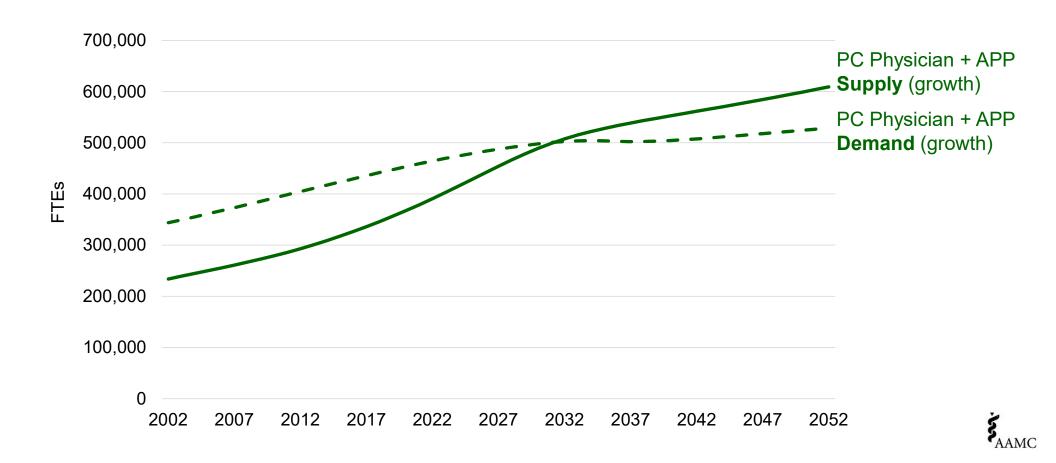
Projected Primary Care Supply & Demand, Physicians + APPs, 2002 to 2052





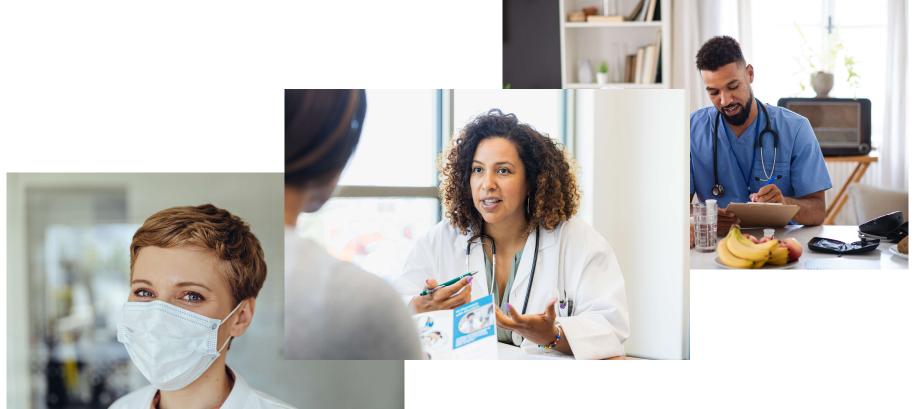


Projected Primary Care Supply & Demand, Physicians + APPs, 2002 to 2052 (**Growth** Scenario)





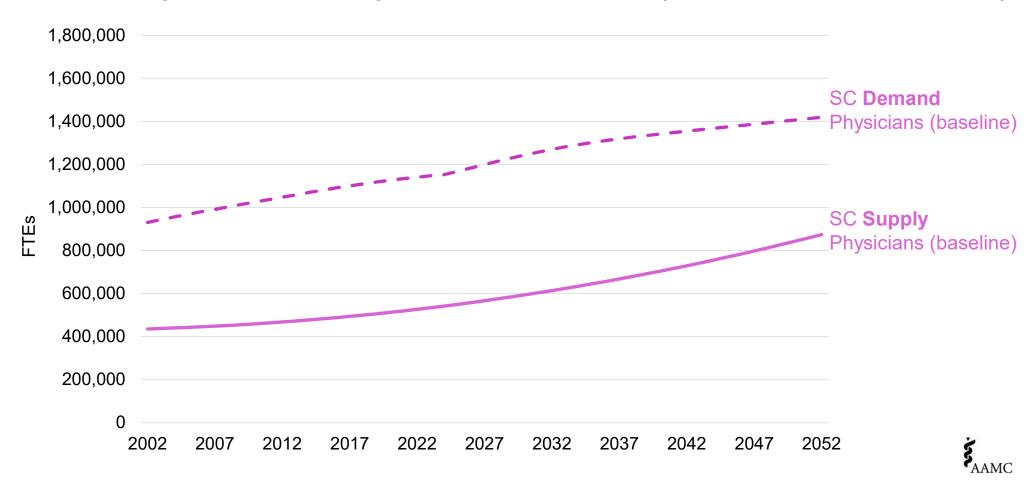
And what about specialty care?





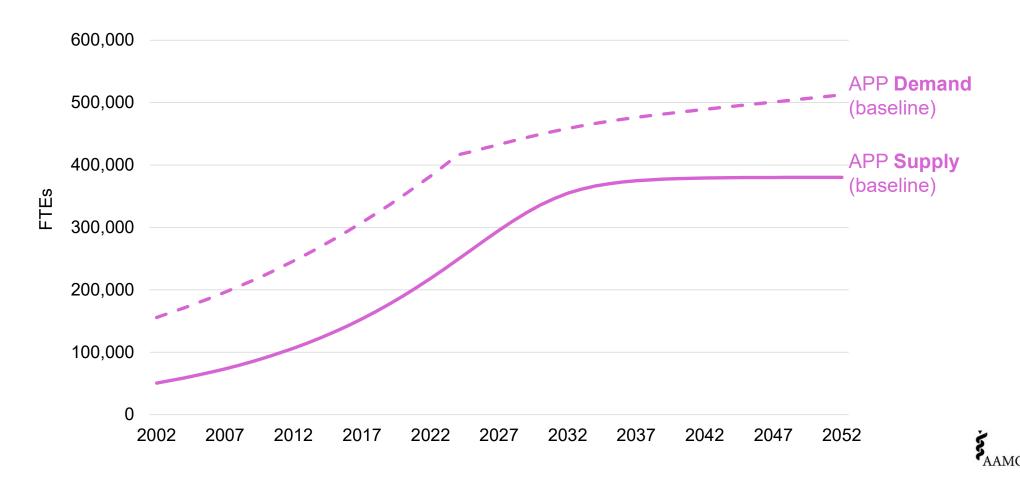


Projected Supply & Demand, Specialty Care Physicians Only, 2002 to 2052 (Baseline Scenario)



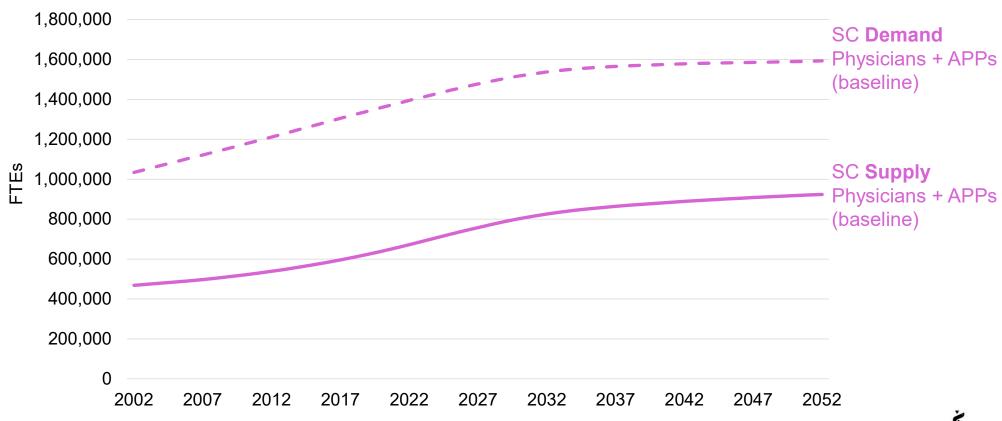


Projected Primary Care Supply & Demand, APPs, 2002 to 2052 (**Baseline** Scenario)





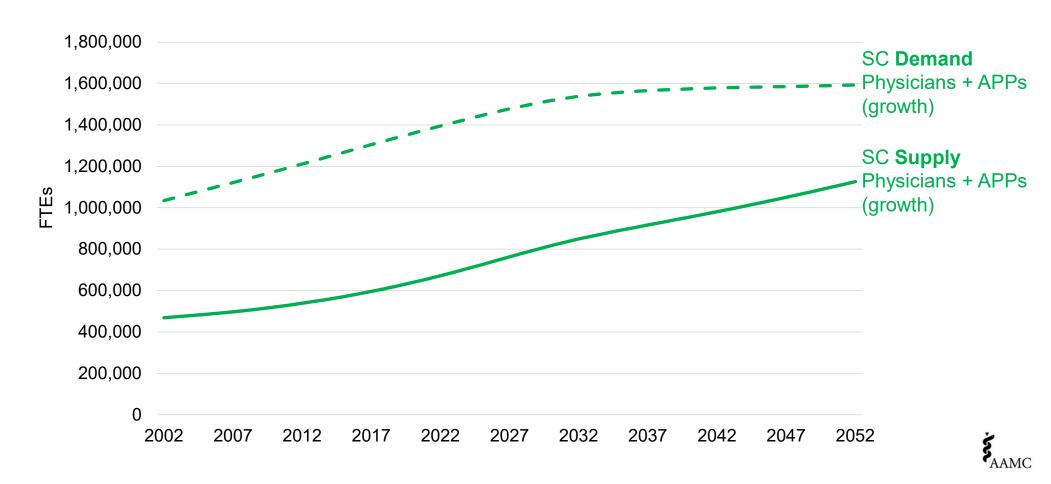
Projected Supply & Demand, Specialty Care Physicians + APPs, 2002 to 2052 (**Baseline** Scenario)



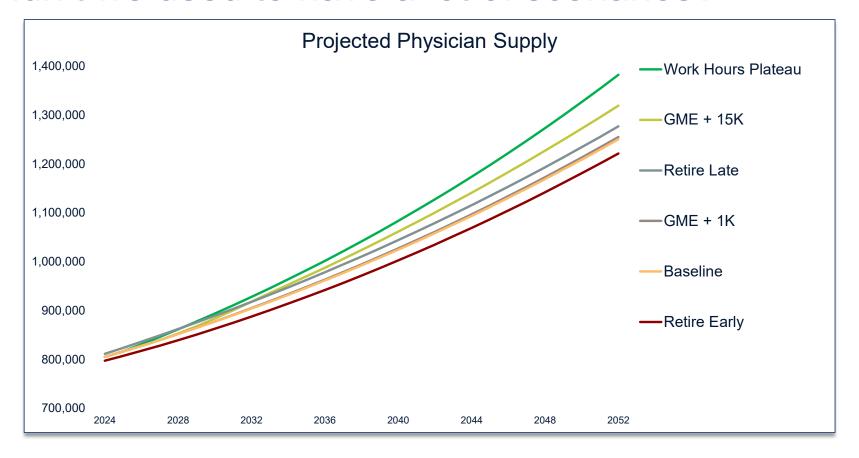




Projected Supply & Demand, Specialty Care Physicians + APPs, 2002 to 2052 (**Growth** Scenario)



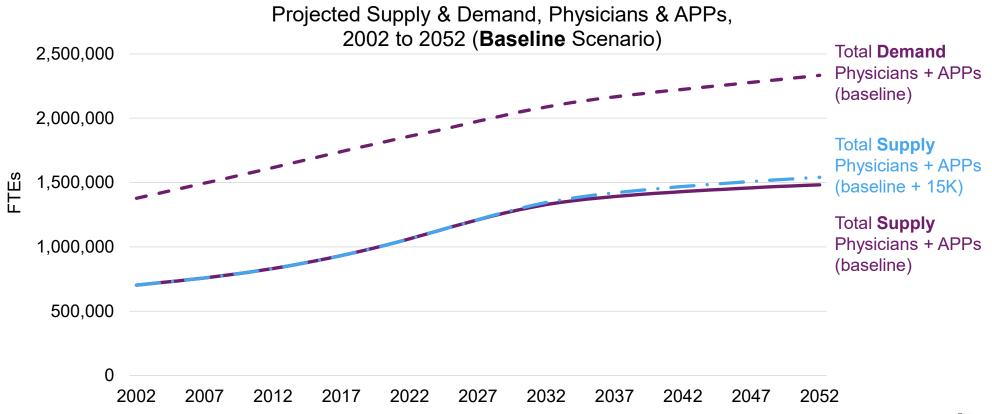
Didn't we used to have a lot of scenarios?







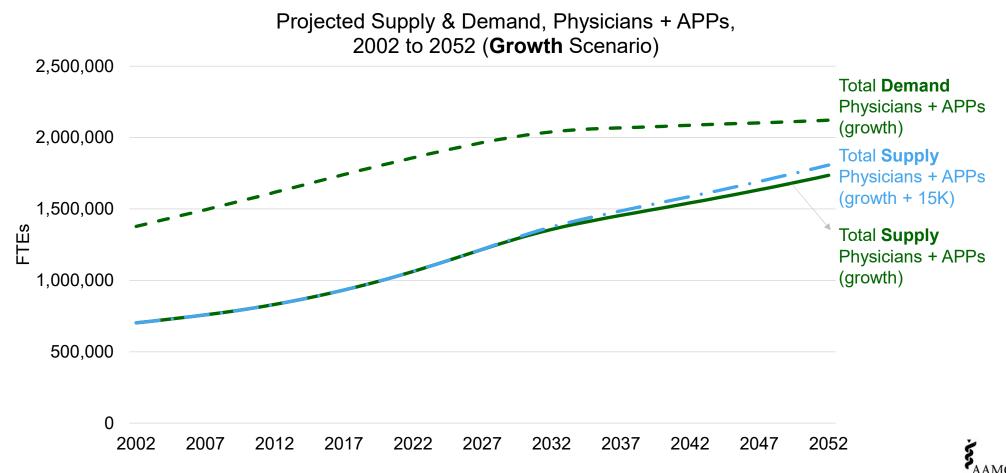
What If We Get 15,000 New GME Slots?







What If We Get 15,000 New GME Slots?



Projected Supply, Physicians Only, 2052





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What have we learned so far?

- ✓ Training capacity growing, but not fast enough
- ✓ Work hours continue to decline (and this is a big deal)
- ✓ Retirement's impact not as great as once thought*
- ✓ PAs and NPs are an important part of the landscape
- ✓ Shortages in primary care if no growth in training and APP roles
- ✓ Shortages in specialty care no matter what
- ✓ Even if we get all 15,000 GME slots, that's only part of the solution
- ✓ We know much of this because of our new model, which better represents system structures



Outline

Projections

Access

Burnout



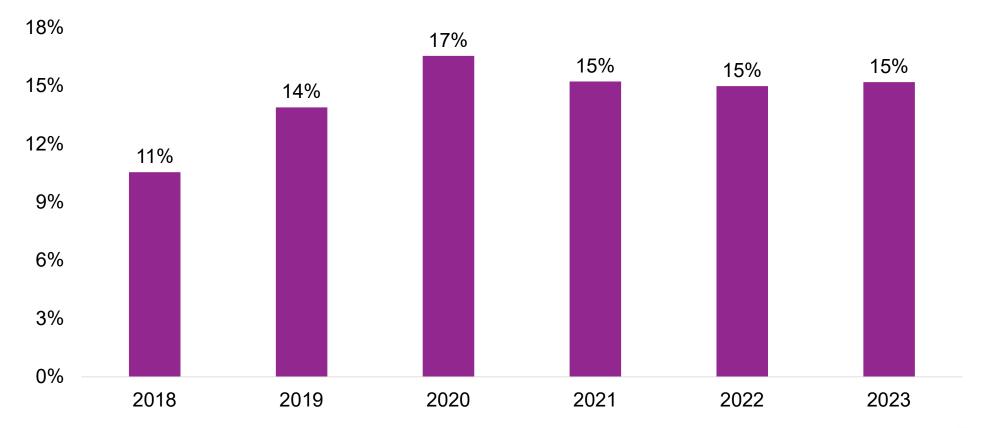
People Need Medical Care







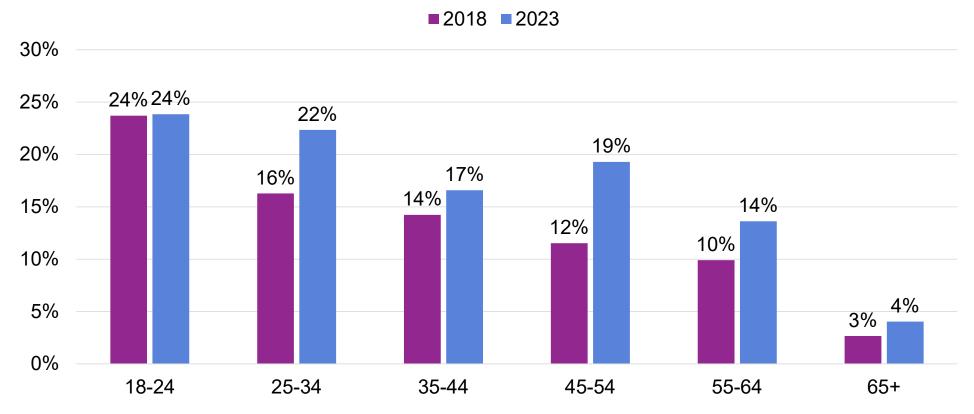
Percent of US Adults Seeking Care Who Were Not Always Able To Get Care







Percent of US Adults Seeking Care Who Were Not Always Able To Get Care by Age Group







Mean wait time for appointment by type of care and location, 2018 to 2023

		2018	2019	2020	2021	2022	2023
Primary Care	Urban	7.4	6.5	8.1	10.8	12.1	10.9
	Suburban	4.6	8.1	4.0	9.8	8.1	10.3
	Rural	7.5	4.6	3.3	6.3	12.8	9.8
Specialty Care	Urban	9.0	7.3	4.5	18.2	12.4	15.5
	Suburban	6.0	8.6	7.1	14.0	15.5	20.4
	Rural	10.6	16.6	11.0	9.2	19.1	11.6

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Wait times in days.



Explore data by location, specialty, and characteristics of interest below:

Physician Data

Undergraduate Medical Education (UME) Data

Graduate Medical Education (GME) Data

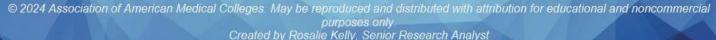
Physician Retention Data

Read our key findings <u>here</u>. For additional information, on data sources and definitions used in this dashboard visit the methods <u>page</u>.

To learn more about physician workforce projections, data, and research, visit

AAMC Workforce Studies.

Questions? Email workforce@aamc.org
Request Data here.





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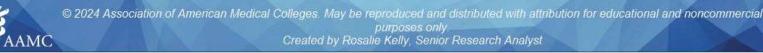
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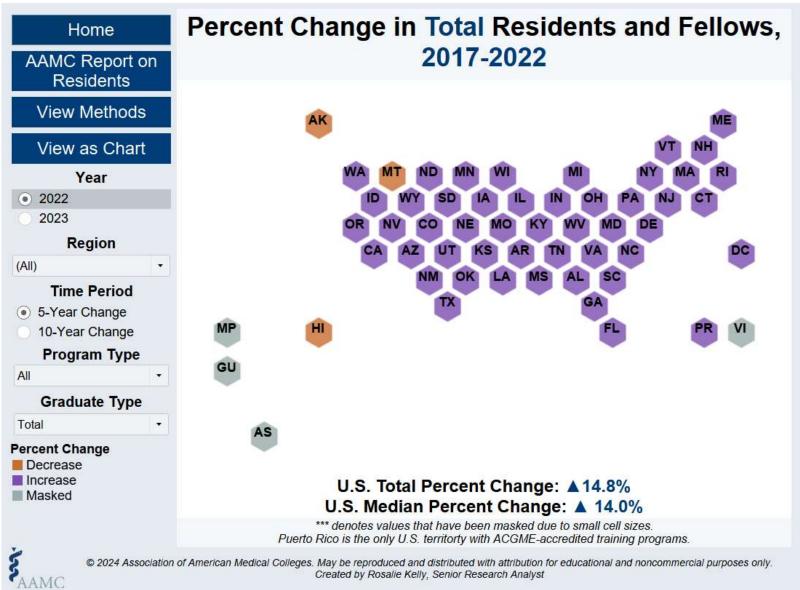


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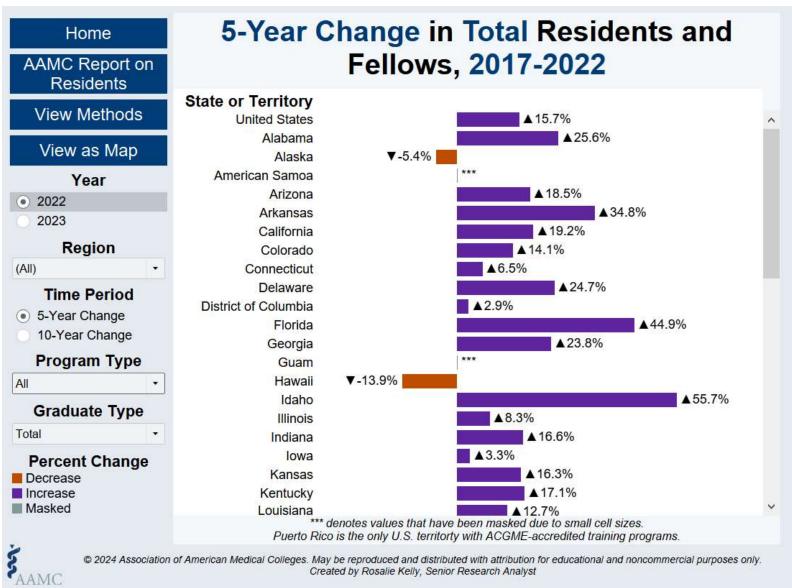
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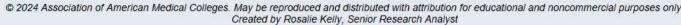
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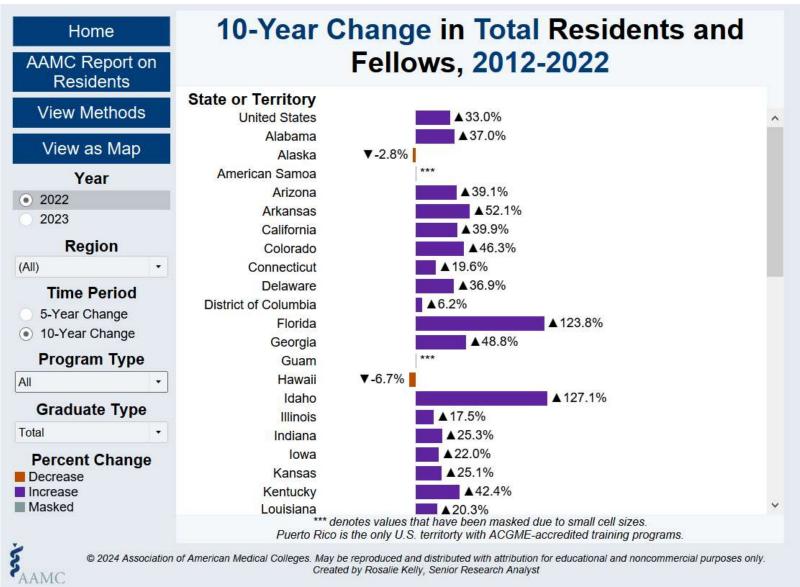


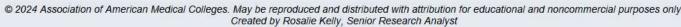


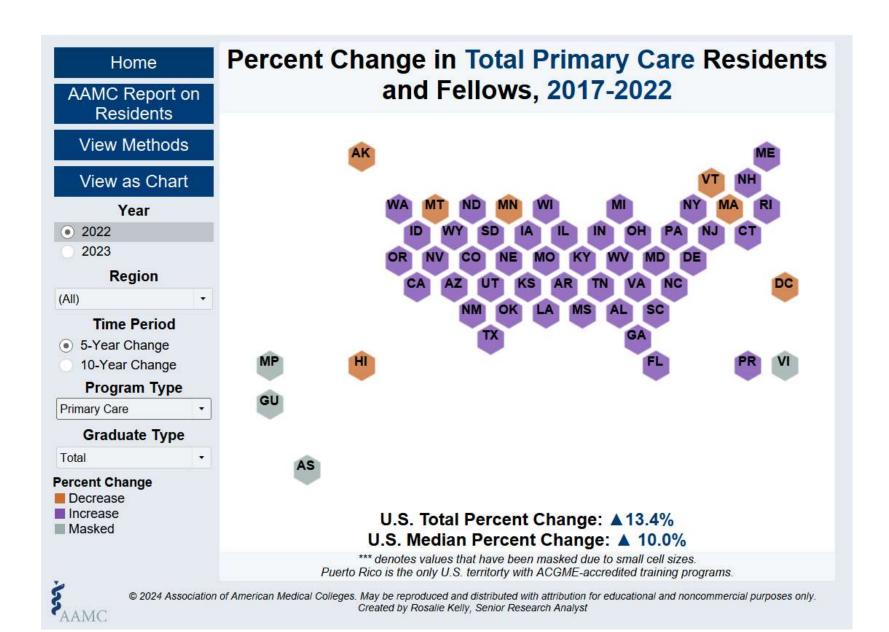
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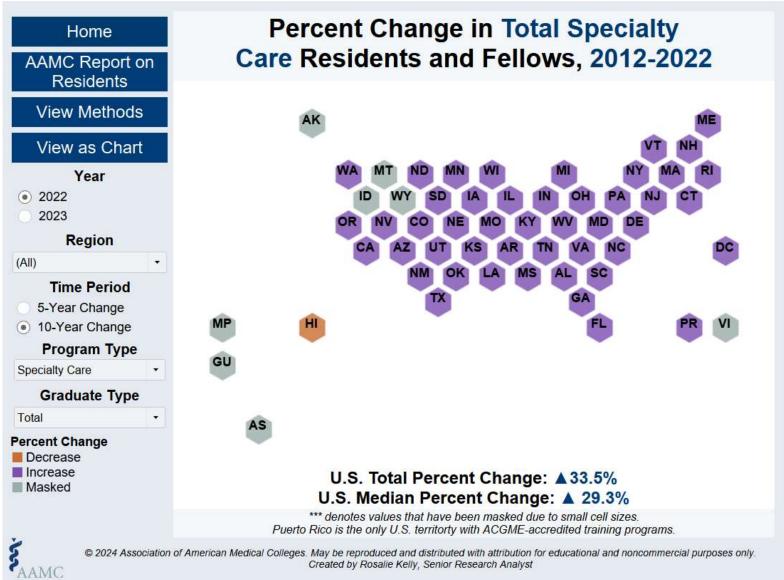


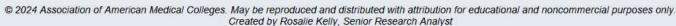


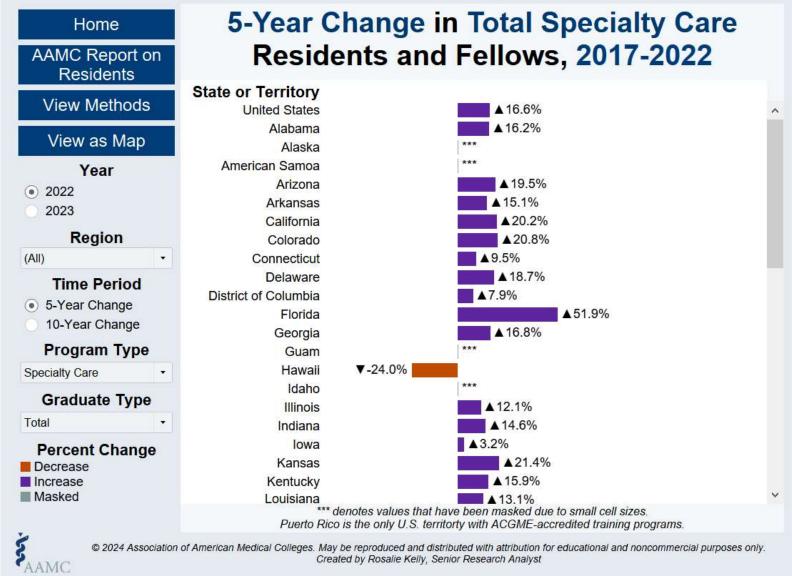




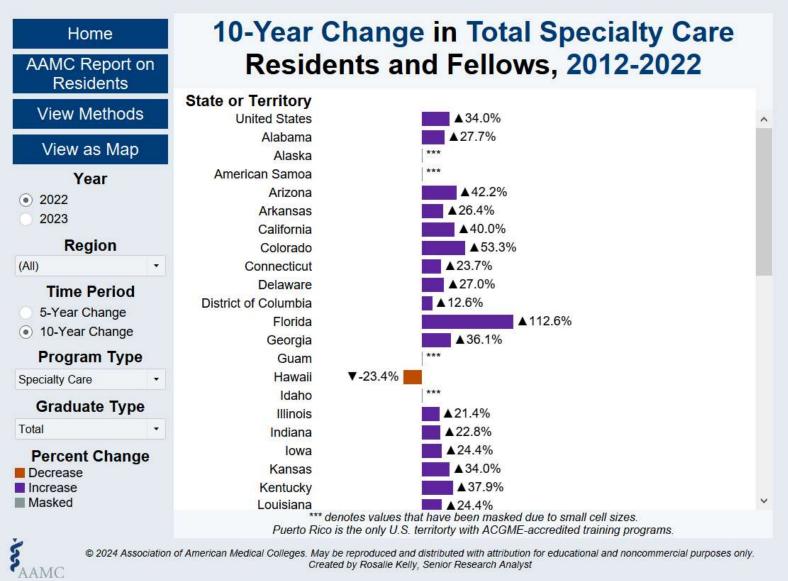


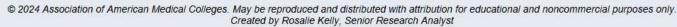






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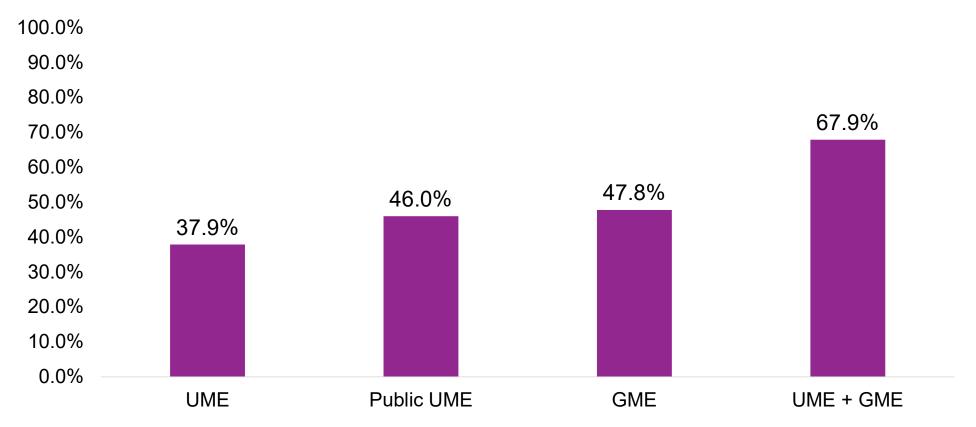
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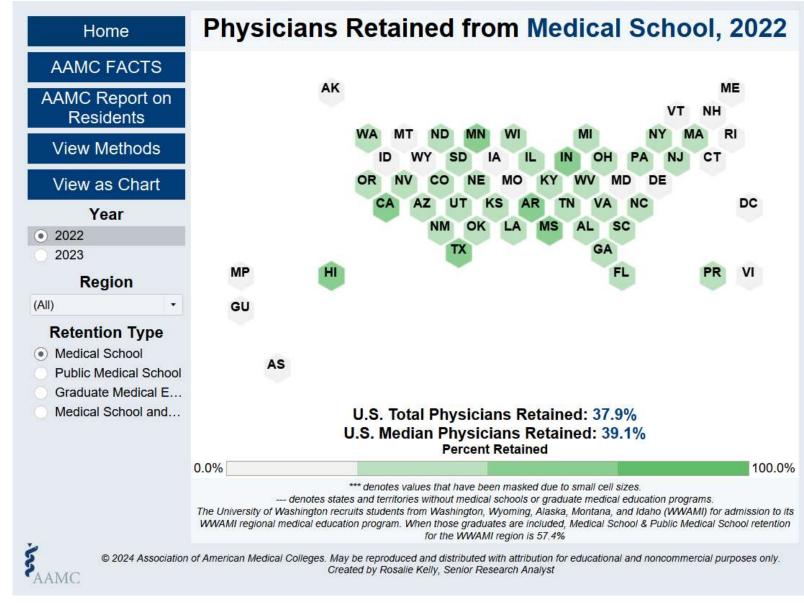


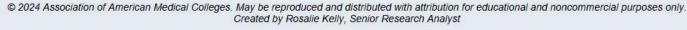


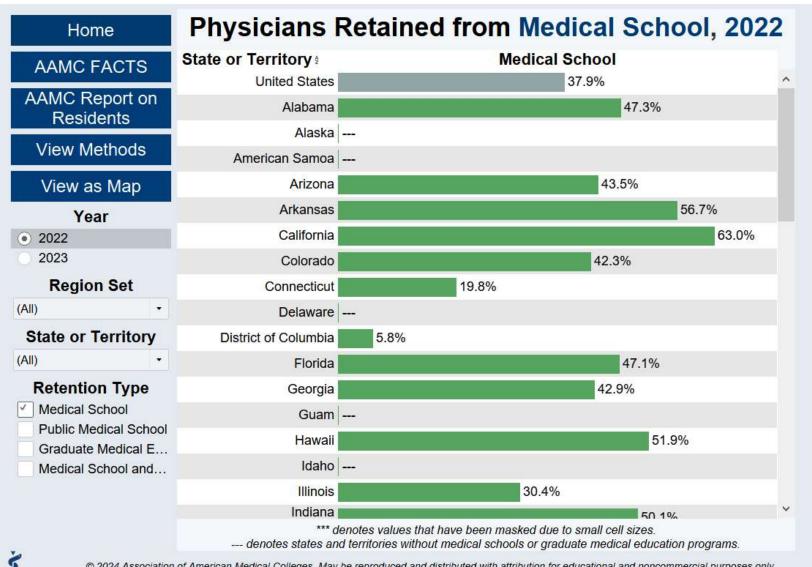
State-Level Retention, 2022





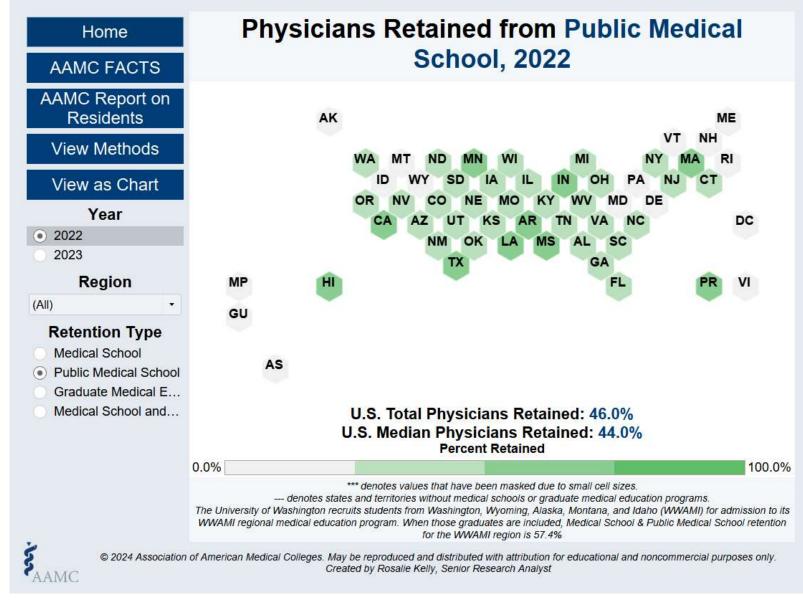


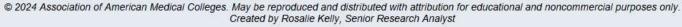


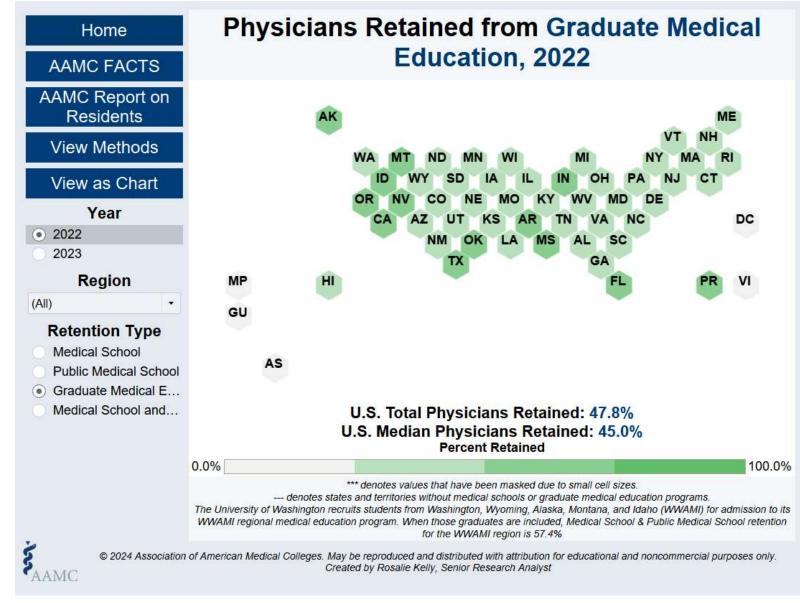


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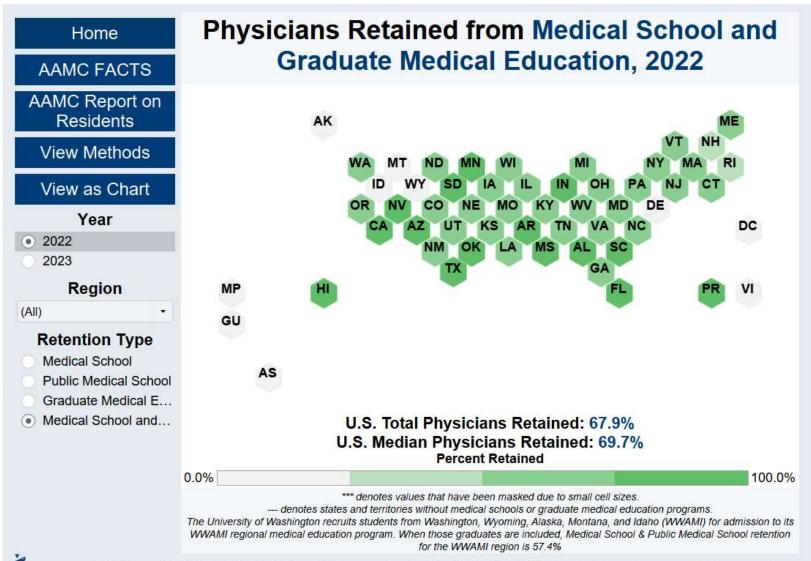


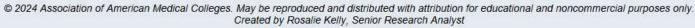


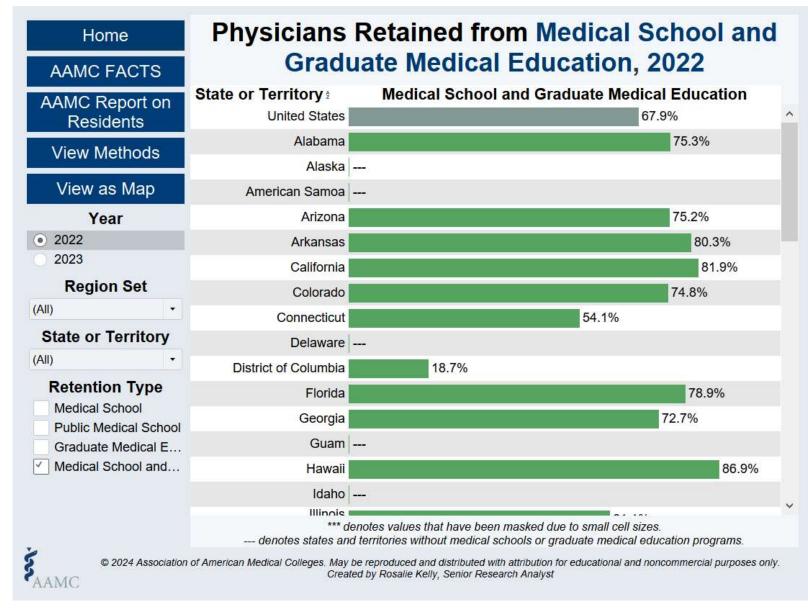


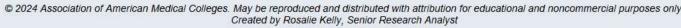


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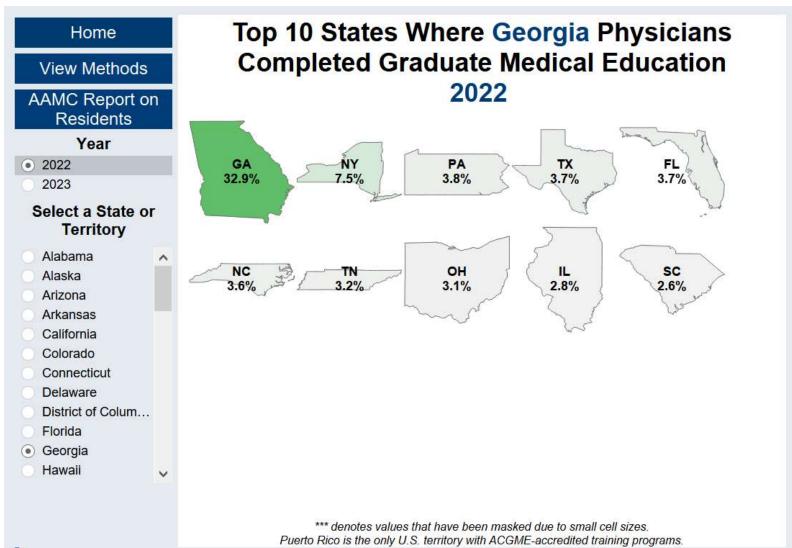




How many physicians are there in the United States?
What is the distribution by location, specialty, or characteristic (e.g., sex)?
How does this distribution differ between states?

Explore data by location, specialty, and characteristics of interest below:







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Home

AAMC Report on Residents

View Methods

Year

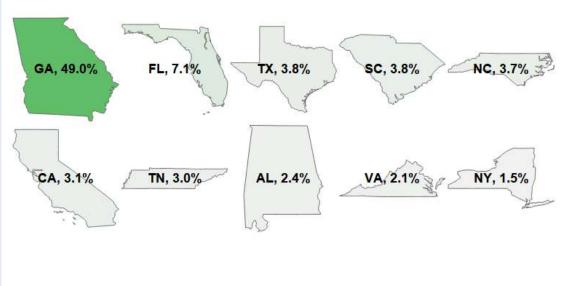
- 2022
- 2023

Select a State or Territory

- Alabama
- Alaska
- Arizona
- Arkansas
- California
- Colorado
- Connecticut
- Delaware
- District of Colum...
- Florida
- Georgia
- Hawaii

Top 10 Practice States for Physicians who Completed Graduate Medical Education in

Georgia 2022



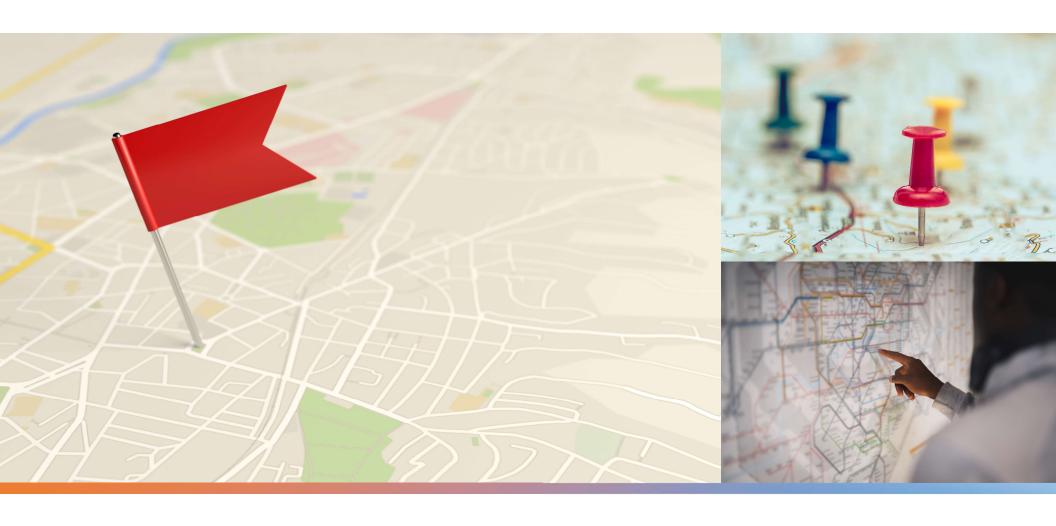
*** denotes values that have been masked due to small cell sizes.

Puerto Rico is the only U.S. territory with ACGME-accredited training programs.



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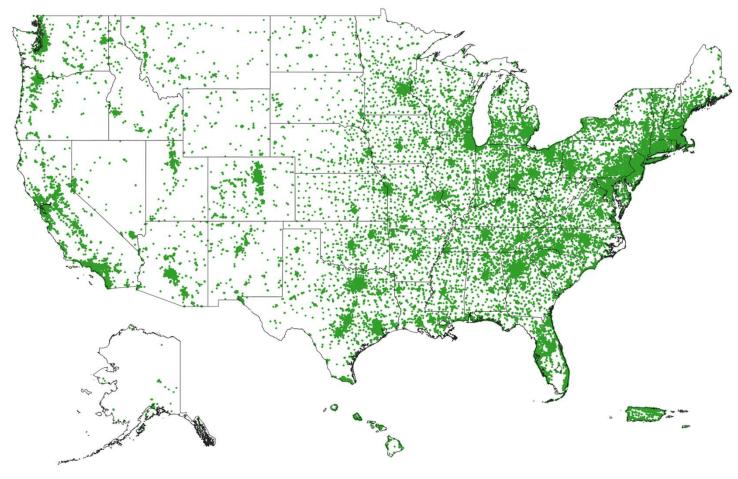
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Location is critical to access



Physicians' Locations in 2022

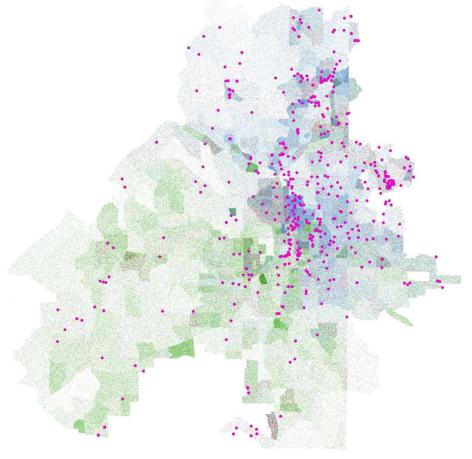




Source: AAMC analysis of AMA PPD.



Physician practice location and population race, Atlanta, GA, 2022



All Active Physicians

Race Categories

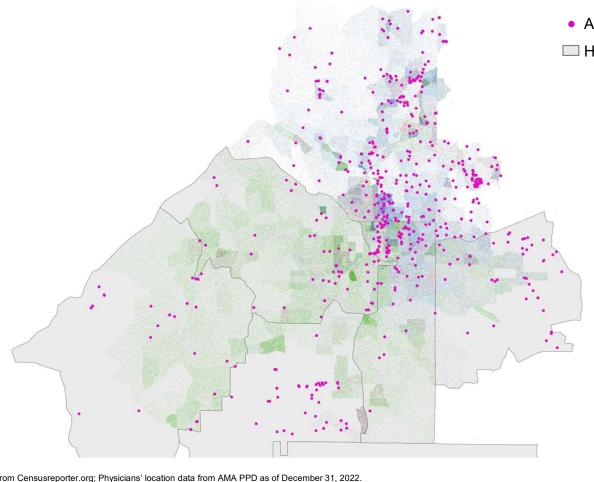
- White
- Black
- Asian
- Hispanic
- Other Race/Native American/Multi-racial



Source: Physician's race data from Censusreporter.org; Physicians' location data from AMA PPD as of December 31, 2022



Physician practice location and population race, Atlanta GA 2022 Atlanta, GA, 2022



All Active Physicians

☐ HPSA

Race Categories

- White
- Black
- Asian
- Hispanic
- Other Race/Native American/Multi-racial



Source: Physician's race data from Censusreporter.org; Physicians' location data from AMA PPD as of December 31, 2022.

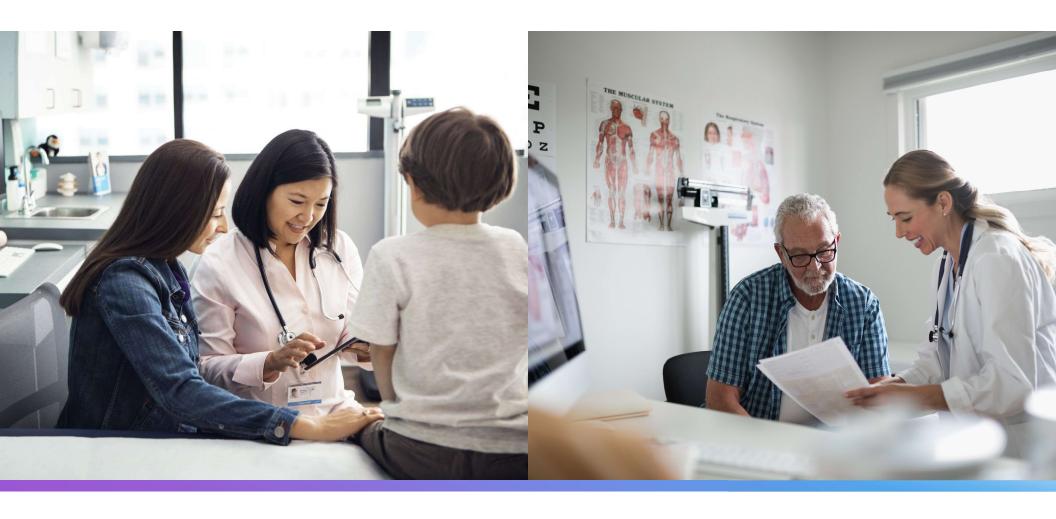
Black Representation in the Primary Care Physician Workforce and Its Association With Population Life Expectancy and Mortality Rates in the US

This research

assesses county-level Black PCP workforce representation and its association with mortality-related outcomes in the US.



Greater Black primary care physician workforce representation associated with higher life expectancy for Black individuals, lower all-cause Black mortality, and lower Black-White mortality rate disparities

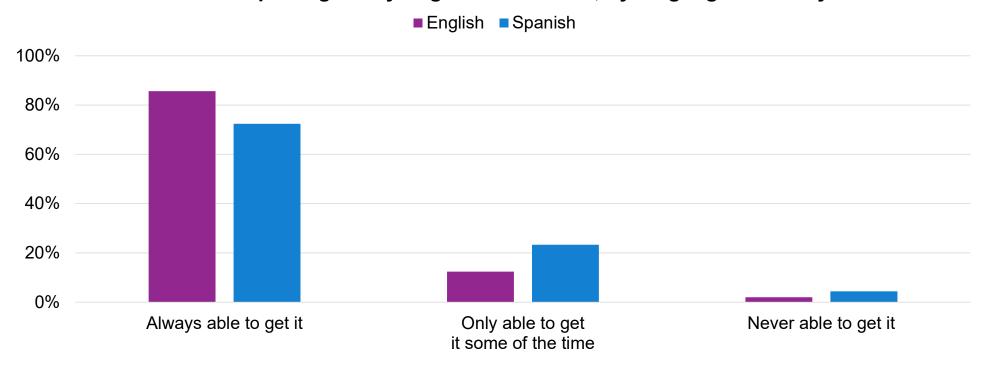


Communication is critical to access



Language and access

Percent reporting ability to get medical care, by language of survey

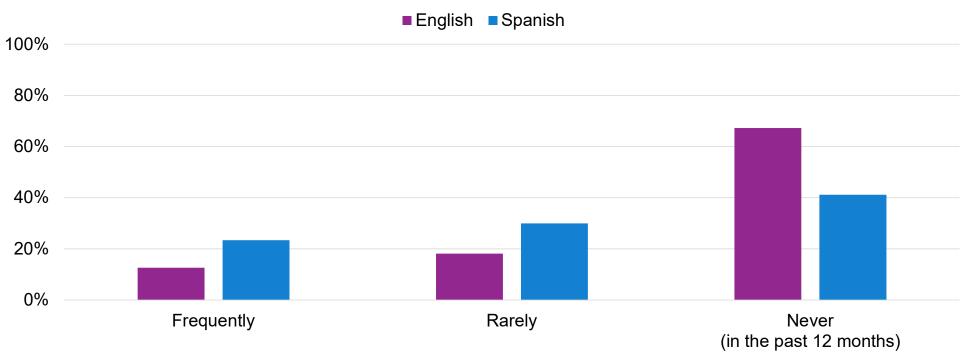






Language and access

Percent experiencing language barriers when trying to get care in last 12 months

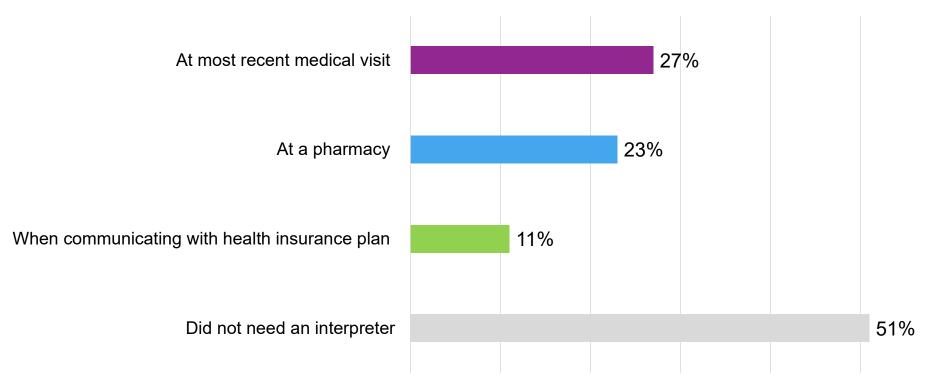






Interpreters are needed in many contexts

Percent Spanish language survey respondents reporting needing an interpreter...







Language is another aspect of diversity related to place

Language Profile of the US Physician Workforce: a Descriptive Study from a National Physician Survey



J Gen Intern Med 38(4):1098-101 DOI: 10.1007/s11606-022-07938-v

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INTRODUCTION

More than 67 million US persons (22%) speak a non-English language at home. Physician-patient language concordance increases high-quality, equitable care for patients with non-English language preferences. In 2020, 62% of US medical residency applicants reported an advanced level or higher in at least one non-English language. However, inconsistent language assessment and documentation make it difficult to evaluate practicing physicians' language skills or determine whether the concording the properties of the properties of the concordant. Moreover, the lack of physician language data limits the success of federal initiatives for language-appropriate healthcare, such as Title VI of the 1964 Civil Rights Act and Healthy People 2030.

This study examines the language profile of the US physician workforce and the characteristics of multilingual physicians—those who speak one or more languages besides English.

METHODS

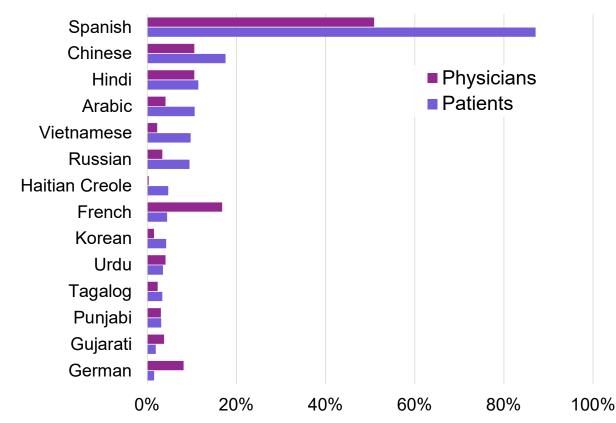
We analyzed data from the Association of American Medical College's 2019 National Sample Survey of Physicians (n=6000). Except for international medical graduates (IMGs,

tests to assess differences in prevalence rates. We determined significance using α =0.05 and conducted analyses in SAS version 9.4.

RESULTS

Overall, 39.7% of physicians reported speaking a language besides English. Among multilingual physicians, 37.3% reported frequently using a non-English language with patients (Table 1). Compared to English-only respondents, multilingual physicians were more likely to originate from urban settings (42.2% vs. 21.2%, P=0.001) and identify as Latinx (7.8% vs. 1.1%, P=0.001), asian (39.2% vs. 1.1.6%, P=0.001), or Other race/ethnicity (5.1% vs. 1.9%, P=0.001). They were also more likely to identify as women (trans- or cis; 37.5% vs. 33.3%, P=0.001), be IMGs (43.0% vs. 7.6%, P=0.001), and practice in medical specialties (19.4% vs. 14.9%, P=0.001).

The top five physician non-English languages were Spanish (35.5% of all reported languages), Hindi (17.1%), French (10.2%), Chinese (Mandarin, 8.0%), and Russian (5.7%) (Fig. 1). However, Spanish (59.3%), Vietnamese (41.5%), Chinese (Cantonese, 41.2%), Korean (39.5%), Japanese (33.0%), and Polish (31.3%) were the only languages used frequently with patients by at least 30% of physicians who reported speaking them. Physicians reporting frequent non-English language use were more likely to identify as Latinx (15.8% vs. 3.0%, P<0.01) and practice in primary care (39.8% vs. 3.0%, P<0.01)





Outline

Projections

Access

Burnout





Physician burnout rate drops below 50% for first time in 4 years

Jul 2, 2024

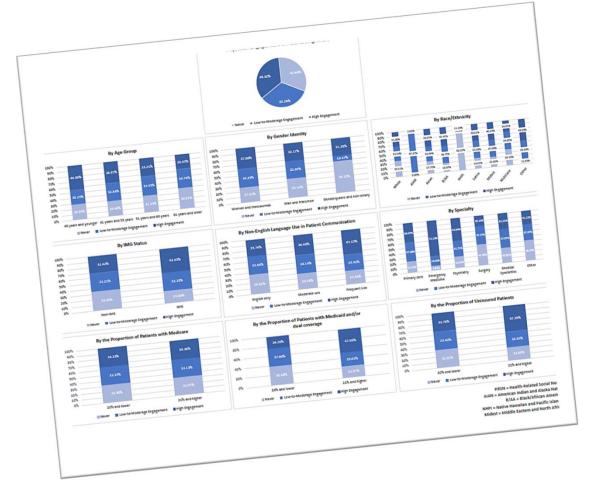
"For 2023, 48.2% of physicians reported experiencing at least one symptom of burnout"





Health related social needs are important, but how does that work relate to physician burnout?

JAMA Network Open

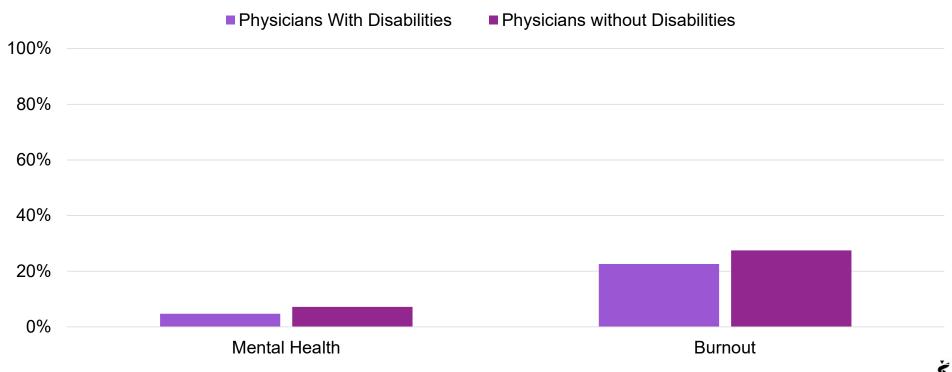






Mental health, burnout and decreases in practice hours

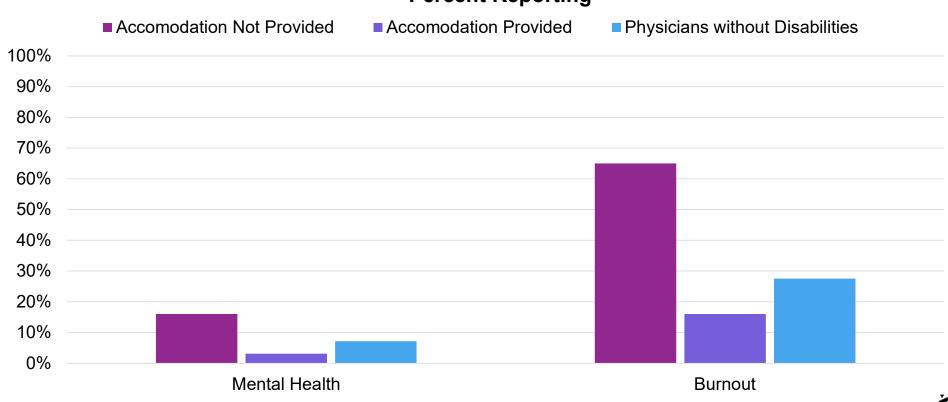
Percent reporting reasons for temporarily decreasing clinical practice hours (to part-time and/or pausing completely)





Mental health, burnout and decreases in practice hours

Percent Reporting











Breaking News...

"Positive working conditions were associated with less burnout and better mental health."



LEARN SERVE LEAD 24 THE AMERICAN METRICAL METRIC

- Remember what we learned from physicians with disabilities
- Organizational change > individual change
 - Provide support
 - Earn trust
 - Prioritize psychological health and stress prevention
 - Reduce and eventually eliminate harassment
 - Include in decision-making
 - Adequate staffing



Outline

Projections

Access

Burnout



What did he say?

Physician workforce shortages

Physician shortages greatest in specialty care

Need PAs and NPs to help address shortages, but also need more physicians

Access will continue to deteriorate if we do not address shortages

Place plays a role in access, as does communication

Physicians are still burnt out, but we can help

AAMC's Workforce Studies team continues to do amazing work!



So much research, so little time...



JOURNAL ARTICLE

Physicians working with physician assistants and nurse practitioners: perceived effects on clinical practice 3

Xiaochu Hu ▼, Bettie Coplan, Hilary Barnes, Noël Smith, Alison Essary, Michael Dill Author Notes

Health Affairs Scholar, Volume 2, Issue 6, June 2024, qxae070,

https://doi.org/10.1093/haschl/qxae070

Published: 25 June 2024 Article history ▼

JOURNAL ARTICLE

Who participates in value-based care models? Physician characteristics and implications for value-based care 3

Debra R Winberg X, Matthew C Baker, Xiaochu Hu, Keith A Horvath

Health Affairs Scholar, Volume 2, Issue 8, August 2024, qxae087,

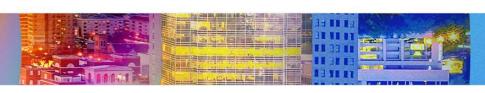
https://doi.org/10.1093/haschl/qxae087

Published: 16 July 2024 Article history ▼









Want to stay up to date on Projections 2.0?

