

# Addressing the Health Care Workforce Crisis

Princeton Conference October 19, 2022

# **Growing number of medical students**

Number of LCME-accredited (MD-granting) medical schools and enrolled students over time

	2006-2007	2009-2010	2014-2015	2021-2022
Number of Accredited Schools with Students Enrolled	125	130	141	155
Number of Enrolled Medical Students	69,028	73,082	80,755	90,409

Applicants to medical school increased by 17.8% for the 2021-22 school year, with medical schools accepting the largest and most diverse class

Source: AMA data, AAMC 2021 Fall Applicant, Matriculant, and Enrollment Data Tables © 2022 American Medical Association. All rights reserved.



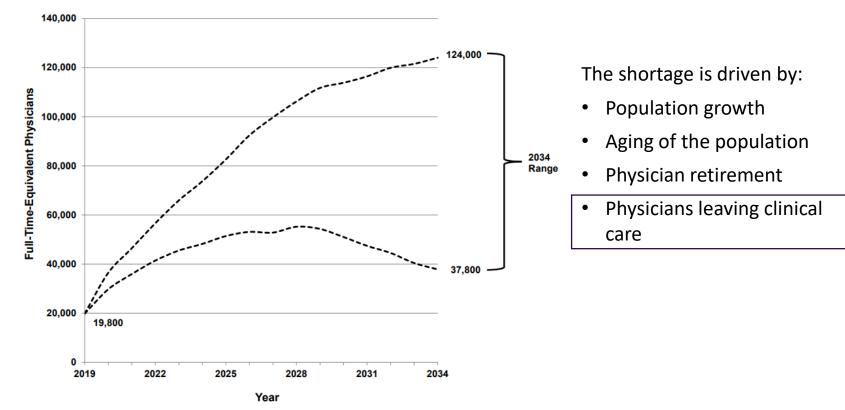
# National resident matching program applicants and first-year positions, 2013–21



Funding for 1,000 new Medicare-supported GME slots was included in the Consolidated Appropriations Act of 2021

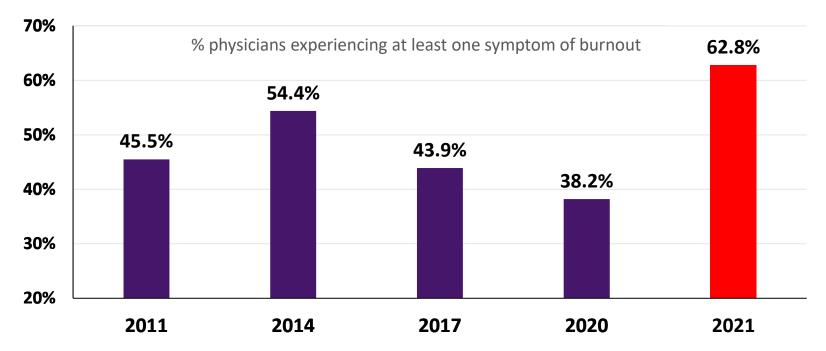
Source: "Graduate Medical Education Positions And Physician Supply Continue To Increase: Implications Of The 2021 Residency Match", Health Affairs Blog, May 21, 2021.

# **Projected physician shortages**



Source: IHS Markit Ltd. The Complexities of Physician Supply and Demand: Projections From 2019 to 2034. Washington, DC: AAMC; 2021.

# Physicians (and all health care workers) in crisis



Source: Changes in Burnout and Satisfaction With Work-Life Integration in Physicians Over the First 2 Years of the COVID-19 Pandemic. Shanafelt, Tait D. et al., Mayo Clinic Proceedings, In press.

### **Physicians' intent to leave the profession**

Physicians intend to reduce clinical work hours in the next year

Because of burnout/ COVID pressures

Physicians intend to leave medicine altogether in the next 2 years.

Source: COVID-Related Stress and Work Intentions in a Sample of US Health Care Workers Sinsky, Christine A. et al., Mayo Clinic Proceedings: Innovations, Quality & Outcomes, Volume 5, Issue 6, 1165 – 1173, December 08, 2021

AMA



DRICENAL ARTICL

COVID-Related Stress and Work Intentions in a Sample of US Health Care Workers Ovitre A Inde MD Rear L Brow, PD Marin J Margar MD, D

### **EHR burnout drivers**

<u>Time</u>

- 50% of the day is spent doing EHR/deskwork
- 25% spent F2F with patients
- 25% after-hours EHR work

Sinsky C, Colligan L, Li L, Prgomet M, Reynolds S, Goeders L, Westbrook J, Tutty M, Blike G. Allocation of Physician Time in Ambulatory Practice: A Time and Motion Study in 4 Specialties. Ann Intern Med. 2016 Dec 6;165(11):753-760. doi: 10.7326/M16-0961. Epub 2016 Sep 6. PMID: 27595430.

### **Accessibility**

- Clinicians spent more total and after-hours time in the EHR compared with the pre-pandemic period
- 157% increase in patient message volume post-pandemic

A Jay Holmgren, N Lance Downing, Mitchell Tang, Christopher Sharp, Christopher Longhurst, Robert S Huckman, Assessing the impact of the COVID-19 pandemic on clinician ambulatory electronic health record use, *Journal of the American Medical Informatics Association*, Volume 29, Issue 3, March 2022, Pages 453–460, <u>https://doi.org/10.1093/jamia/ocab268</u>

# **Mistreatment and discrimination of physicians**

In this study, mistreatment and discrimination by patients, families, and visitors were common, especially for female and racial and ethnic minority physicians, and associated with burnout.

#### JAMA Open...

#### Original Investigation | Occupational Health

#### Physicians' Experiences With Mistreatment and Discrimination by Patients, Families, and Visitors and Association With Burnout

Liselotte N. Dyrbye, MD, MHPE; Colin P. West, MD, PhD; Christine A. Sinsky, MD; Mickey Trockel, MD, PhD; Michael Tutty, PhD; Daniel Satele, BA; Lindsey Carlasare, MBA; Tait Shanafelt, MD

#### Abstract

IMPORTANCE Burnout is common among physicians and is associated with suboptimal patient outcomes. Little is known about how experiences with patients, families, and visitors differ by physician characteristics or contribute to the risk of burnout.

**OBJECTIVE** To examine the occurrence of mistreatment and discrimination by patients, families, and visitors by physician characteristics and the association between such interactions and experiencing burnout.

DESIGN, SETTING, AND PARTICIPANTS This cross-sectional survey was conducted from November 20, 2020, to March 23, 2021, among US physicians.

EXPOSURES Mistreatment and discrimination were measured using items adapted from the Association of American Medical College's Graduation Questionnaire with an additional item querying respondents about refusal of care because of the physicians' personal attributes; higher soore indicated greater exposure to mistreatment and discrimination.

MAIN OUTCOMES AND MEASURES Burnout as measured by the Maslach Burnout Inventory.

RESULTS Of 6512 responding physicians, 2450 (39.4%) were female, and 369 (7.2%) were Hispanic; 681 (13.3%) were non-Hispanic Asian, Native Hawailan, or Pacific Islander; and 3633 (70.5%) were non-Hispanic White Individuals. Being subjected to racially or ethnically offensive remarks (8149 (29.4%)), offensive sexist remarks (1810 (28.7%)), or unwanted sexual advances (2291 (20.5%)) by patients; families, or visitors at least once in the previous year were common experiences. Approximately in 5 physicians (1359 (21.6%)) had experienced a patient or their family refusing to allow them to provide care because of the physician's personal attributes at least once in the previous ware. Or multivantable analyses; female physicians (70.2.33 e5% (-2.0.2.69) and ethnic and racial

#### Key Points

Question How frequently do physicians experience mistreatment and discrimination by patients, their families, and visitors; how does this vary by physician characteristics; and what is the association between having such interactions and experiencing burnut?

ß

Findings In this cross-sectional study of 6512 US physicians, mistreatment and discriminatory behaviors by patients. families, and visitors within the previous year were common, especially for female and racial and ethnic minority physicians, and associated with higher burnout rates.

Meaning The findings suggest that efforts to mitigate risk of physician burnout and improve the work experience of female and racial and ethnic minority physicians should include strategies that promote patient, family, and visitor civility.

+ Supplemental content

Author affiliations and article information are

Physicians' powerful ally in patient care

Source: Dyrbye LN, West CP, Sinsky CA, et al. Physicians' Experiences With Mistreatment and Discrimination by Patients, Families, and Visitors and Association With Burnout. JAMA Netw Open. 2022;5(5):e2213080. doi:10.1001/jamanetworkopen.2022.13080

٠

# Lack of childcare causing stress for HC workers

 In this survey study, between April and December 2020, high childcare stress was associated with 80% greater odds of burnout in all healthcare workers.



Source: Harry EM, Carlasare LE, Sinsky CA, et al. Childcare Stress, Burnout, and Intent to Reduce Hours or Leave the Job During the COVID-19 Pandemic Among US Health Care Workers. JAMA Netw Open. 2022;5(7):e2221776. doi:10.1001/jamanetworkopen.2022.21776



# **Resilience and burnout among physicians**

#### Network Open...

#### Original Investigation | Psychiatry

#### Resilience and Burnout Among Physicians and the General US Working Population

Colin P. West, MD, PhD; Liselotte N. Dyrbye, MD, MHPE; Christine Sinsky, MD; Mickey Trockel, MD, PhD; Michael Tutty, PhD; Laurence Nedelec, PhD; Lindsey E. Carlasare, MBA; Tait D. Shanafelt, MD

#### Abstract

IMPORTANCE The prevalence of physician burnout is well documented, and resilience training has been proposed as an option to support physician well-being. However, the resilience of physicians compared with that of the US working population is not established, and the association between resilience and physician burnout is not well understood.

OBJECTIVES To evaluate resilience among physicians and US workers, and to determine the association between resilience and burnout among US physicians.

DESIGN, SETTING, AND PARTICIPANTS A cross-sectional national survey study of 5445 US physicians and a probability-based sample of 5198 individuals in the US working population was conducted between October 12, 2017, and March 15, 2018.

MAIN OUTCOMES AND MEASURES Resilience was measured using the 2-item Connor-Davidson Resilience Scale (total scores range from 0-8; higher scores indicate greater resilience); burnout was measured using the full Maslach Burnout Inventory with overall burnout indicated by a score of at least 27 on the 0 to 54 emotional exhauston subscale and/or at least 10 on the depersonalization subscale (higher scores indicate greater burnout).

RESULTS Of 30.456 physicians who received an invitation to participate, 5445 (17.9%) completed surveys (2995 men [62.1%]; median [10(R] age of 53 [42-62] years). In multivariable analysis, mean (SD) resilience scores were higher among physicians than the general employed population (6.49 [1.30] vs.6.25 [1.37]; adjusted mean difference, 0.25 points; 95% (1, 0.19-0.32; *P* < 0.01). Among physicians, resilience was associated with burnout. Physicians without overall burnout had higher mean (SD) resilience scores than physicians with burnout (6.82 [1.15] vs.613 [1.36]; adjusted mean difference of 68 path D67 (1.04 p.076 0.00). Tools in the present live presented in the presented in

#### Key Points

Question How resilient are physicians compared with US workers, and what is the association between resilience and burnout among physicians?

ሐ

Findings in this cross-sectional survey study of 5445 respondents from among 30456 physicans, the physicians had significantly higher resilience scores than the general employed US population. Higher resilience scores were associated with lower burnout rates, but even the most resilient physicians had substantial rates of burnout.

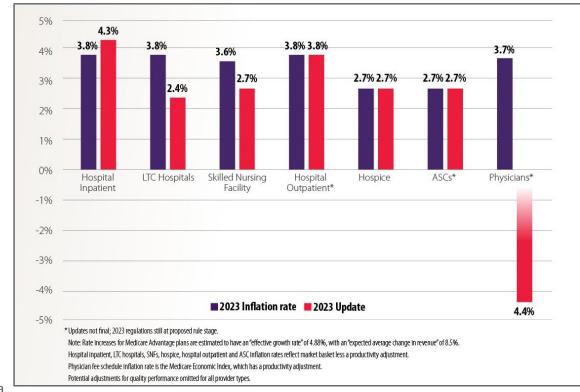
Meaning The findings suggest that, although maintaining and strengthening resilience is important, physicians overall do not have a deficit in resilience; additional solutions, including efforts to address system issues in the clinical care environment, are needed to reduce burnout and promote physician well-being.  Physicians have higher resilience than the general employed US population.

 Even highly resilient physicians have substantial rates of burnout.

Source: West CP, Dyrbye LN, Sinsky C, et al. Resilience and Burnout Among Physicians and the General US Working Population. *JAMA Netw Open*. 2020;3(7):e209385. doi:10.1001/jamanetworkopen.2020.9385

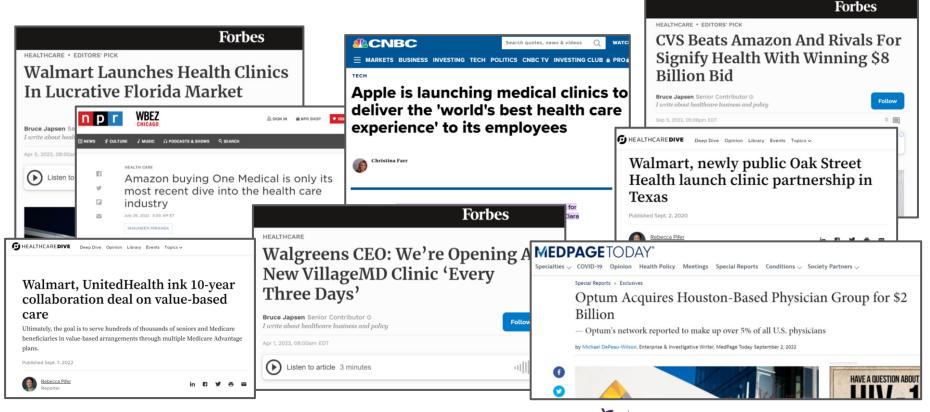
### AMA

### **Medicare provider updates for 2023**



Source: AMA data

### New entrants shake up landscape



# **Problem-solving workforce crisis**

- Encourage changes to education and training that promote the clinical workforce needed for the coming decade
  - Diversity
  - Geography
  - Specialty
- Create a simple, relevant, and predictable payment system for physicians
  - Ensuring financial stability and predictability
  - Promoting value-based care
  - Safeguarding access to high-quality care
- Eliminate administrative burdens that take clinician focus away from patient care
- Support advances in new technology and delivery models that advance high-quality patient care
- Turn the tide on misinformation and increase support for the sciences