

## Research

### Clinical Specialty, Burnout, and Career Choice Regret **1114**

Physician burnout, characterized by emotional exhaustion, depersonalization, and a low sense of personal accomplishment, is associated with career dissatisfaction and early retirement. Dyrbye and colleagues surveyed 4696 second-year resident physicians and found that symptoms of burnout and career choice regret varied by clinical specialty. In an Editorial, Schwenk and Gold suggest that physicians reporting burnout are receiving recommendations for treatments before there is any real understanding of the "diagnosis."

📖 Editorial **1109** Related Article **1131**

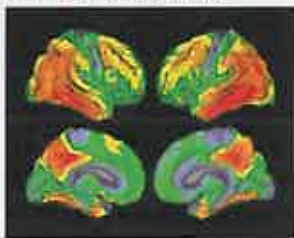
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### Assessment of Burnout Among Practicing Physicians **1131**

The term *burnout* is used to characterize job-related stress in health practice environments. In a systematic review of 182 studies involving 109 628 participants in 45 countries, Rotenstein and colleagues found substantial variability in the methods of defining and measuring burnout among practicing physicians.

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### Imaging to Identify Alzheimer Disease **1151**



Ossenkoppele and colleagues analyzed imaging data for 719 patients recruited from memory disorder clinics and found that the [<sup>18</sup>F]flortaucipir positron emission tomography scan was able to discriminate Alzheimer dementia from other neurodegenerative diseases.



## Humanities

Poetry and Medicine  
**1203** Spring Downsizing  
R Piles

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**1204** Proprietaries, Planos  
and Probity

## Opinion

### Viewpoint

**1099** On the Prospects for a (Deep) Learning Health Care System  
CD Naylor

**1101** Deep Learning—A Technology With the Potential to Transform Health Care  
G Hinton

**1103** Informatics, Data Science, and Artificial Intelligence  
L Zhu and WJ Zheng

### A Piece of My Mind

**1105** Silent Space  
U Barbash

### Editorial

**1107** Clinical Implications and Challenges of Artificial Intelligence and Deep Learning  
WW Stead

**1109** Physician Burnout—A Serious Symptom, But of What?  
TL Schwenk and KJ Gold

**1111** Weight Management in Adults With Obesity: What Is a Primary Care Clinician to Do?  
SZ Yanovski

## LETTERS

### Research Letter

**1195** Association Between Maintaining Certification in General Surgery and Loss-of-License Actions  
AT Jones, JP Köpp, and MA Malangoni

**1197** Scholarship Support for Veterans Enrolling in MD, JD, and MBA Programs  
S Graves and Coauthors

### Comment & Response

**1199** Premedication for Neonates Requiring Nonemergency Intubation

**1200** Safety of Topical Calcineurin Inhibitors for Hailey-Hailey Disease

**1201** Treatment of Chronic Hepatitis B Infection

**1202** Correction

Editor in Chief  
Howard Bauchner, MD

**135 YEARS**  
OF CONTINUOUS  
PUBLICATION

## Clinical Review & Education

### RECOMMENDATION STATEMENT

#### Changing Behaviors to Prevent Obesity-Related Illness

1163

Obesity is associated with health problems such as increased risks for coronary heart disease, type 2 diabetes, cancer, gallstones, and disability. This US Preventive Services Task Force statement recommends that adults with a body mass index of 30 or higher receive intensive, multicomponent behavioral interventions for weight loss in primary care settings. In an Editorial, Yanovski suggests that obese patients should receive treatment for related comorbidities regardless of their motivation to lose weight.

- Editorial 1111 Related Article 1172 JAMA Patient Page 1210
- Author Audio Interview [jama.com](http://jama.com) CME [jamanetwork.com/learning](http://jamanetwork.com/learning)

### EVIDENCE REPORT

#### Outcomes of Weight Loss Interventions

1172

In a review of 122 trials with 62 533 participants and 2 observational studies with 209 993 participants, LeBlanc and colleagues found that behavior-based weight loss interventions with or without weight loss medications were associated with more weight loss and a lower risk of developing diabetes than control conditions.

- Editorial 1111 Related Article 1163 JAMA Patient Page 1210

#### Automated Analysis of Medical Images

1192

Neural network technology is used to identify pathology in medical images by "learning" from information in prior images. In this JAMA Guide to Statistics and Methods, Carin and Pencina explain how a computer can be trained to recognize complex visual patterns.

- Related Articles 1099 and 1101
- Animated Summary Video [jama.com](http://jama.com)

### Behavioral Interventions for Weight Loss



Adults who are obese



#### JAMA Patient Page

1210 Behavioral Interventions for Weight Loss

### NEWS & ANALYSIS

#### Medical News & Perspectives

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#### The JAMA Forum

1096 Enabling School Success to Improve Community Health

#### 1097 Global Health

- Armadillos Bring Risk of Leprosy
- Early Initiation of Breastfeeding Cardiovascular Disease in India

#### 1098 News From the FDA

- Generic Form of EpiPen Approved
- Vaginal Ring Contraceptive Remains Effective for 1 Year

Brain Stimulation Approved for Obsessive-Compulsive Disorder

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#### Editor's Audio Summary

Howard Bauchner, MD, summarizes and comments on this week's issue.

#### Animated Summary Video

"Understanding How Machine Learning Works," video for "On Deep Learning for Medical Image Analysis"



#### Author Interview

**AUDIO** Interview with Chyke A. Doubeni, MD, MPH, author of "Behavioral Weight Loss Interventions to Prevent Obesity-Related Morbidity and Mortality in Adults: US Preventive Services Task Force Recommendation Statement"

#### JN Listen

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