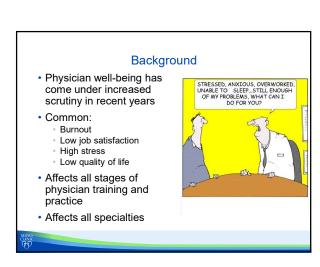
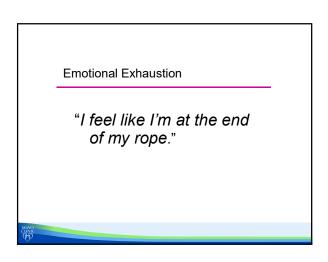


### Understand the scope of the problem of physician burnout. Be informed regarding contributors and consequences of physician burnout and distress. Learn some evidence-based methods to prevent burnout and promote physician wellbeing.



### What is Burnout? Burnout is a syndrome of emotional exhaustion, depersonalization, and low personal accomplishment leading to decreased effectiveness at work.



### **Depersonalization**

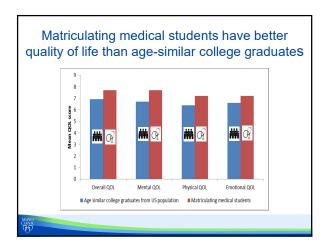
"I've become more callous toward people since I took this job."

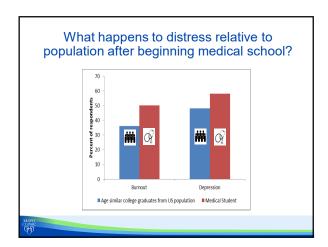
### **Brief Summary of Epidemiology**

- Medical students matriculate with BETTER well-being than their age-group peers
- · Early in medical school, this reverses
- Poor well-being persists through medical school and residency into practice:
  - National physician burnout rate exceeds 54%
  - Affects all specialties, perhaps worst in "front line" areas of medicine
  - >500,000 physicians burned out at any given time

CUNI

### 





# Mayo Multi-center Study of Medical Student Wellbeing Student distress: 45% Burned out 52% Screen + for depression 48% At risk alcohol use Compared to 28% age matched MN & 24% age matched US pop

### **Burnout among Residents**

National Data (West et al., JAMA 2011)

Internal medicine residents, 2008 Survey

Burnout: 51.5% Emotional exhaustion: 45.8% Depersonalization: 28.9%

Dissatisfied with work-life balance: 32.9%

### **Burnout among Practicing Physicians**

National Data (Shanafelt et al., Arch Intern Med 2012)

2011

Burnout: 45.8% Emotional exhaustion: 37.9% Depersonalization: 29.4%

Dissatisfied with work-life balance: 36.9%

NANE THE

### **Burnout among Practicing Physicians**

National Data (Shanafelt et al., Arch Intern Med 2012; Mayo Clin Proc 2015)

 2011
 2014

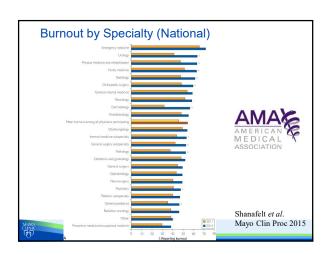
 Burnout:
 45.8%
 54.4%

 Emotional exhaustion:
 37.9%
 46.9%

 Depersonalization:
 29.4%
 34.6%

Dissatisfied with work-life balance: 36.9%, 44.5%

CHT)



### **Demographics of Burnout**

More common for:

Women

Younger doctors

"Front line" specialties

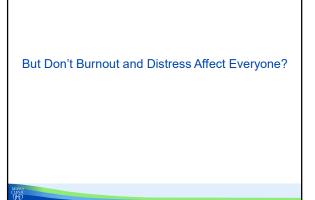
Greater number of work hours per week

Private practice

Incentive-based salary structure

Most differences small - no group is immune

TINIC THT



### 2014 AMA Survey Employed Physicians vs. Employed U.S. Population

	Physicians	Population	р
	n=5313	n=5392	
Male	62%	54%	<0.001
Age (median)	53	52	<0.001
Hrs/Wk (median)	50	40	<0.001
Burnout*	49%	28%	<0.001
Dissatisfied WLB	49%	20%	<0.001

Shanafelt et al., Mayo Clin Proc 2015

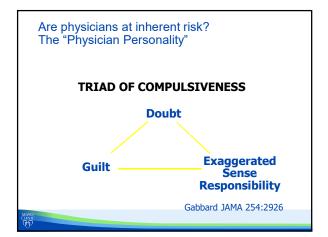
### 2011 AMA Survey

- · Adjusting for:
  - Age, gender, relationship status, hours worked/week, education
- · Education (ref. high school graduates):
  - Bachelors degree: OR=0.8
  - Masters degree: OR=0.71
  - Doctorate or non-MD/DO professional degree: OR=0.6
  - MD/DO: OR=1.36

Shanafelt et al., Arch Intern Med 2012

### **Objectives**

- Understand the scope of the problem of physician burnout.
- · Be informed regarding contributors and consequences of physician burnout and distress.
- · Learn some evidence-based methods to prevent burnout and promote physician wellbeing.



### The "Physician Personality"

### <u>Adaptive</u>

- Diagnostic rigor
- Thoroughness
- · Commitment to patients
- Desire to stay current
- Recognize responsibility of patients' trust

### Maladaptive

- · Difficulty relaxing
- Problem allocating time for family
- Sense responsibility beyond what you control
- · Sense "not doing enough"
- · Difficulty setting limits
- Confusion of selfishness vs. healthy self-interest
- · Difficulty taking time off

Gabbard JAMA 254:2926

### Physician Distress: Key Drivers

- · Excessive workload
- Inefficient work environment, inadequate support
- · Problems with work-life integration
- · Loss autonomy/flexibility/control
- · Loss of values and meaning in work

### Consequences of Physician Burnout

- Medical errors<sup>1-3</sup>
- Impaired professionalism<sup>4-6</sup>
- Reduced patient satisfaction<sup>7</sup>
- Staff turnover and reduced hours<sup>8,12</sup>
- Depression and suicidal ideation<sup>9,10</sup>
- Motor vehicle crashes and near-misses<sup>11</sup>

<sup>1</sup>JAMA 296:1071, <sup>2</sup>JAMA 304:1173, <sup>3</sup>JAMA 302:1294, <sup>4</sup>Annals IM 136:358, <sup>5</sup>Annals Surg 251:995, <sup>6</sup>JAMA 306:952, <sup>7</sup>**Health Psych 12:93**, <sup>8</sup>JACS 212:421, <sup>9</sup>Annals IM 149:334, <sup>10</sup>Arch Surg 146:54, <sup>11</sup>Mayo Clin Proc 2012, <sup>12</sup>Mayo Clin Proc 2016



# A Public Health Crisis! Burnout in U.S. alone: >40,000 Medical Students >60,000 Residents and Fellows >490,000 Physicians Plus other health care and biomedical science professionals Individual or system problem?

### Objectives

- · Understand the scope of the problem of physician burnout.
- Be informed regarding contributors and consequences of physician burnout and distress.
- Learn some evidence-based methods to prevent burnout and promote physician wellbeing.



### Physician Distress: Key Drivers

- Excessive workload
- · Inefficient work environment, inadequate support
- · Problems with work-life integration
- · Loss autonomy/flexibility/control
- · Loss of values and meaning in work

CHNIC DFD



### Individual Strategies



- · Identify Values
  - Debunk myth of delayed gratification
  - What matters to you most (integrate values)
  - · Integrate personal and professional life
- · Optimize meaning in work
  - Flow
  - Choose/focus practice
- · Nurture personal wellness activities
  - Personal wellness activities
     Calibrate distress level
  - Self-care (exercise, sleep, regular medical care)
  - Relationships (connect w/ colleagues; personal)
  - Religious/spiritual practice
  - Mindfulness
  - Personal interests (hobbies)

### Delayed Gratification: Life on Hold?

- 50% residents report "Survival Attitude" life on hold until the completion of residency
- 37% practicing oncologists report "Looking forward to retirement" is an essential "wellness promotion strategy"
- Many physicians may maintain strategy of delayed gratification throughout their entire career

Shanafelt, J Sup Oncology 3:157

5

### **Individual Strategies**

### Recognition of distress:

- Medical Student Well-Being Index (Dyrbye 2010, 2011)
- Physician Well-Being Index (Dyrbye 2013, 2014)
  - Simple online 7-tem instruments evaluating multiple dimensions of distress, with strong validity evidence and national benchmarks from large samples of medical students, residents, and practicing physicians
  - Evidence that physicians do not reliably self-assess their own distress
     Feedback from self-reported Index responses can prompt intention to respond to distress
  - respond to distress
- Suicide Prevention and Depression Awareness Program (Moutier 2012)
  - Anonymous confidential Web-based screening
- · AMA STEPSForward modules
  - Mini Z instrument (AMA, Linzer 2015): 10-item survey



### What Can Organizations Do?



- Promote values of the medical profession
- · Congruence between values and expectations
- · Provide adequate resources (efficiency)
  - Organization and work unit level
- · Promote autonomy
  - · Flexibility, input, sense control
- · Promote work-life integration
- · Promote meaning in work



### The Evidence in Total

- Systematic review on interventions for physician burnout, commissioned by Arnold P. Gold Foundation Research Institute (West Lancet 2016):
  - 15 RCT's, 37 non-RCT's
    - Results similar for RCT and non-RCT studies



### The Evidence in Total

- · Emotional exhaustion (EE):
  - -2.7 points, p<0.001
  - Rate of High EE: -14%, p<0.001
- · Depersonalization (DP):
  - -0.6 points, p=0.01
  - Rate of High DP: -4%, p=0.04
- · Overall Burnout Rate:
  - -10%, p<0.001

Benefits similar for individual-focused and structural interventions (but we need both)



### The Evidence in Total

- Individual-focused interventions:
  - Meditation techniques
  - Stress management training, including MBSR
  - · Communication skills training
  - Self-care workshops, exercise program
  - · Small group curricula, Balint groups
    - · Community, connectedness, meaning



### The Evidence in Total

- · Structural interventions:
  - Duty Hour Requirements for trainees
  - Unclear but possibly negative impact on attendings
  - · Shorter attending rotations
  - · Shorter resident shifts in ICU
  - Locally-developed practice interventions

CLINIC THI

### Mayo RCT #1 (2012)

- A small amount of protected time during the workday resulted in improved meaning from work and reductions in burnout
  - Effects larger in facilitated small group arm than in "free time" control arm, particularly in promoting meaning and reducing depersonalization.
  - Follow-up study data found sustained benefits at 1 year after the close of the study.

JAYO JINIC West et al., JAMA Intern Med 2014:174:527-33

### Mayo RCT #2 (2014)

- Compared to the wait-listed control group, the small group topic-oriented discussion intervention improved:
  - Depersonalization
  - Personal accomplishment
  - Overall QOL
  - Depression
  - Meaning from work
  - Social isolation at work
  - Job satisfaction
  - · Likelihood of leaving in next 2 years
- Initial intervention shows benefit with sustained changes over subsequent 6 months.
- Physician Engagement Groups now funded by Mayo

MAYO CLINIC (H) West et al. J Gen Intern Med. 2015;30:S89.

Physician Well-Being: Approach Summary			
	Individual	Organizational	
Workload			
Work Efficiency/ Support			
Work-Life Integration/ Balance			
Autonomy/ Flexibility/ Control			
Meaning/Values			
MAYO CUNIC			
( <del>1</del> )			

Physician Well-Being: Approach Summary		
	Individual	Organizational
Workload	Part-time status	Productivity targets Duty Hour Requirements Integrated career development
Work Efficiency/ Support	Efficiency/Skills Training	EMR (+/-?) Staff support
Work-Life Integration/ Balance	Self-care Mindfulness	Meeting schedules Off-hours clinics Curricula during work hours Financial support/counseling
Autonomy/ Flexibility/ Control	Stress management/Resiliency Mindfulness Engagement	Physician engagement
Meaning/Values	Positive psychology Reflection/self-awareness Mindfulness Small group approaches	Core values Protect time with patients Promote community Work/learning climate

### Recommendations

- · We have a professional obligation to act.
  - Physician distress is a threat to our profession
  - It is unprofessional to allow this to continue
  - Evolve definition of professionalism? (West 2007)
  - SHARED RESPONSIBILITY
- We must assess distress
  - Metric of institutional performance
    - Part of the "dashboard"
  - · Can be both anonymous/confidential and actionable

**E** 

### Recommendations

- We need more and better studies to guide best practices:
  - RCT's
  - Valid metrics
  - Multi-site
  - Individual-focused AND structural/organizational approaches
  - Evaluate novel factors: work intensity/compression, clinical block models, etc.
- Develop interventions targeted to address Five Drivers.

### Recommendations

- The toolkit for these issues will contain many different tools.
- There is no one solution ...
- ... but many approaches offer benefit!



### Physician Distress: Key Drivers

- Excessive workload
- Inefficient environment, inadequate support
- Problems with work-life integration
- · Loss autonomy/flexibility/control
- Loss of values and meaning in work

CLINIC UPD

### Thank You!

- Email: west.colin@mayo.edu
- Twitter: @ColinWestMDPhD

OHO.