How Do You Measure Resident Wellness

TSVETI MARKOVA, MD, FAAFP R. BRENT STANSFIELD, PHD



Objectives

- Background on measuring resident wellness and un-wellness
- Our institutional results from measuring burnout
- Resident Wellness Scale (RWS) development process
- Brainstorming on constructs related to resident wellness
- Results from piloting the RWS
- Are you well? survey and its use for your own institution.
- Discussion on institutional interventions to improve culture of wellness

Clinical Workplace Stress is Psychologically Harmful

Compared to the US population, physicians grow more burnedout and more dissatisfied over time. (Shanafelt et al, 2015)

Over half of surveyed physicians showed at least 1 sign of burnout. (Shanafelt et al, 2015)

As many as 25-75% of medical residents experience burnout, depending on specialty. (Ishak et al, 2009)

Over 300 physicians commit suicide each year. (American Foundation for Suicide Prevention website)

Female physicians have higher rates of depression than agematched non-physician professional women. (American Foundation for Suicide Prevention website)

Make the "Invisible" Visible



Physicians



Administrators

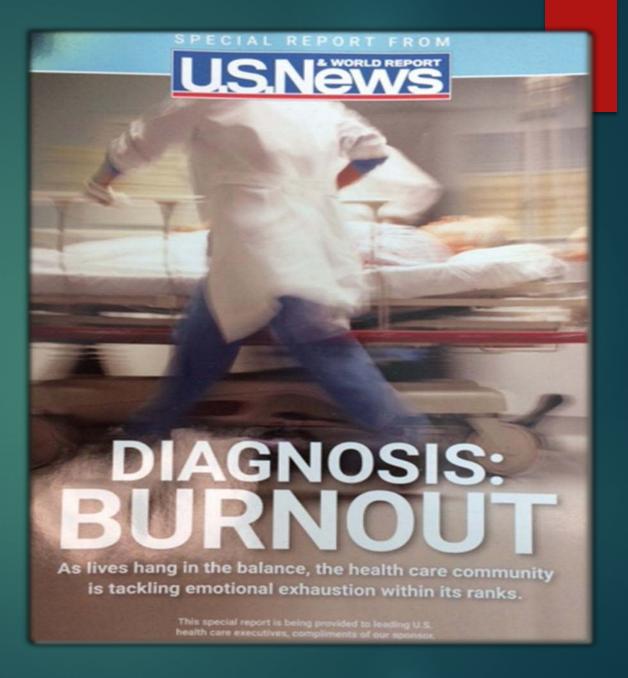


Patients and Payors

"Physician burnout is a public health crisis"

John Noseworthy, MD
President & CEO Mayo Clinic
AMA Joy in Medicine CEO Consortium 9.14.16

"Burned out clinicians and staff provide burned-out clinician and staff care"



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Annals of Internal Medicine

ACADEMIA AND THE PROFESSION

Allocation of Internal Medicine Resident Time in a Swiss Hospital: A Time and Motion Study of Day and Evening Shifts

Nathalie Wenger, MD; Marie Méan, MD; Julien Castioni, MD; Pedro Marques-Vidal, MD, PhD; Gérard Waeber, MD; and Antoine Garnier, MD, MBA

Background: Little current evidence documents how internal medicine residents spend their time at work, particularly with regard to the proportions of time spent in direct patient care versus using computers.

Objective: To describe how residents allocate their time during day and evening hospital shifts.

Design: Time and motion study.

Results: Residents were observed for a total of 696.7 hours. Day shifts lasted 11.6 hours (1.6 hours more than scheduled). During day shifts, activities indirectly related to patients accounted for 52.4% of the time, and activities directly related to patients accounted for 28.0%. Residents spent an average of 1.7 hours with patients, 5.2 hours using computers, and 13 minutes doing both. Time spent using a computer was scattered throughout the day, with the heaviest use after 6:00 p.m.

Setti Switz

Parti 29 m > 50% day indirect patient care

< 1/3 direct patient care

- 1 hr pt care: 3 hr computer
- 1-2 hr EHR beyond shift

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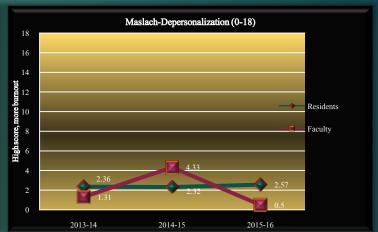
Maslach Burnout Inventory



Personal Accomplishment

Higher scores indicate that residents and faculty are actively engaged in a positive manner that makes a difference. They perceive their impact as palpable.



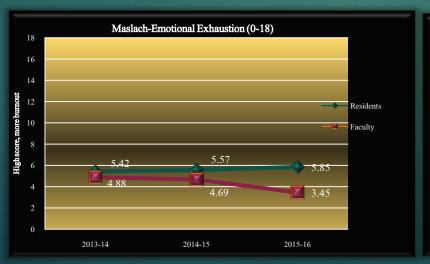


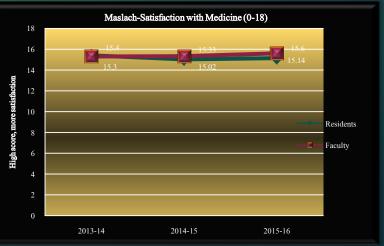
Depersonalization

Higher scores indicate that residents and faculty have not lost their ability to empathize with patients and maintain warm, open relationships with patients that promote effective care.

Emotional Exhaustion

Higher scores indicate that residents and faculty are energized by their work, and there is minimal negative carryover into one's off hours.





Satisfaction with Medicine

Higher scores indicate that residents and faculty derive a great deal of satisfaction from their chosen career and do not regret the decision to enter the field.

Measuring Burnout...

- Overall results look great! But...
- Mathematically thee is a ceiling effect in measuring burnout
- Because of the sensitive nature of some items, respondents must feel comfortable about their true feelings
- Anonymous nature precludes using it as a screening tool
- "Sensitization" to burnout phenomenon due to personal expectations and beliefs
- Validity: is expressing burnout a measure for dissatisfaction with job or a measure of depression (prevails all aspect of life)
- Designed for all professions, but is health care different?
- Communicates message of impending doom
- Not helpful for designing program level interventions

Physician Wellness

"We must move beyond the pathological focus upon physician burnout and begin a conversation about what makes a physician well."

Eckelberry-Hunt, van Dyke, Lick, & Tucciarone; *Journal of Graduate Medical Education*, 2009: 1(2), 225-230.

Strategies associated with Residents' Mental Well-Being: (Shanafelt et al, 2005)

Focus on Work/Life Balance

Positive Outlook

Religiosity and Spirituality

Wellness is a complex construct

Eudaimonic well-being (fulfillment) differs from Hedonic well-being (happiness) (Ryan & Deci, 2001)

The Resident Wellness Scale

- Measures Wellness specific to Resident Physicians
- Reliable and valid
- Concise and scalable
- Open access
- Focused on identifying gaps in program learning environment
- Tracked overtime can measure effects from interventions

Step 1: Define the Construct	Panel of stakeholders Residents, Educators, DIO's Listed aspect of wellness Described observable signs of wellness Identified related and unrelated constructs Decided on item format
Step 2: Generate Items	Wider pool of participants Residents, Administrators, Faculty, Program Directors, Counselors Wrote and review 93 scale items
Step 3: Pilot Long Form	92 candidate scale items Depression (BDI) and Burnout (A-MBI) Optimism (LOT-R), Life Satisfaction (SWL) Social Desirability (SD), Personality (TIPI) Completed by 62 residents
Step 4: Analyze to Create Instrument	Identified 10 items Correlated appropriately with related and unrelated constructs All positively worded items

Define Resident Wellness



Step 1: Define the Construct

Life Security: your basic needs are met

Meaningful Work: your work is valued

Personal Growth: you are in control

Ability: you can do a good job

Social Support: people help you

Institutional Support: your workplace supports you

Lack of Unwellness: you are free of negative behaviors

Step 2: Generate Items & Step 3: Pilot Form

92 items5-point frequency scale3 week periodCompiled into web form

Please rate how often you have done or experienced each of the following items in the past 3 weeks:						
	Never	Seldom	Some- times	Often	Very Often	
Reflected on how your work helps make the world a better place	0	•	0	0	0	
Felt overwhelmed	0	0	0	0	0	
Realized you had accomplished a lot at the end of the day	0	•	0	0	0	
You felt comfortable where you are living	0	0	0	0	0	
Felt lonely	0	0	0	0	0	
Felt inferior to your peers	0	6	0	0	0	

Convergent Validity of Scales:

Depression and Burnout were correlated:

Abbreviated Maslach Burnout DP Inventory: Depersonalization r = +.25**Beck Depression** r = +.57**Emotional** BDI EE Inventory Exhaustion r = -.52r = -.39

Optimism and Life Satisfaction were correlated:

Life Orientation Test - Revised

Satisfaction with Life

SWL

Step 4: Scale Creation:

Random selection of items Random swapping out items Keep iterations with best stats

Automatic Scale
Generation &
Refinement

Authors Adjust for Face Validity

Remove redundant items Measure entire definition Remove awkward items

The Resident Wellness Scale (RWS)	Mean (SD)
Reflected on how your work helps make the world a better place	2.97 (1.20)
Felt the vitality to do your work	3.29 (1.00)
Felt supported by your co-workers	3.77 (0.84)
Had an enjoyable interaction with a patient	3.84 (0.81)
Was proud of the work you did	3.71 (0.91)
Was eager to come back to work the next day	2.92 (1.01)
You felt your basic needs are met	3.85 (1.01)
You ate well	3.50 (1.00)
Knew who to call when something tragic happened at work	3.31 (1.20)
You felt connected to your work in a deep sense	3.35 (1.01)
TOTAL SCORE	3.46 (0.68)

The Resident Wellness Scale

- High Cronbach's alpha: $\alpha = .87$
- Correlated with Depression: r = -.45
- Correlated with Burnout:
 - Emotional Exhaustion: r = -.59
 - Depersonalization: r = -.45
- Correlated with Optimism: r = .46
- Correlated with Life Satisfaction: r = .58
- Weaker correlation with Social Desirability: r = .29

The Resident Wellness Scale

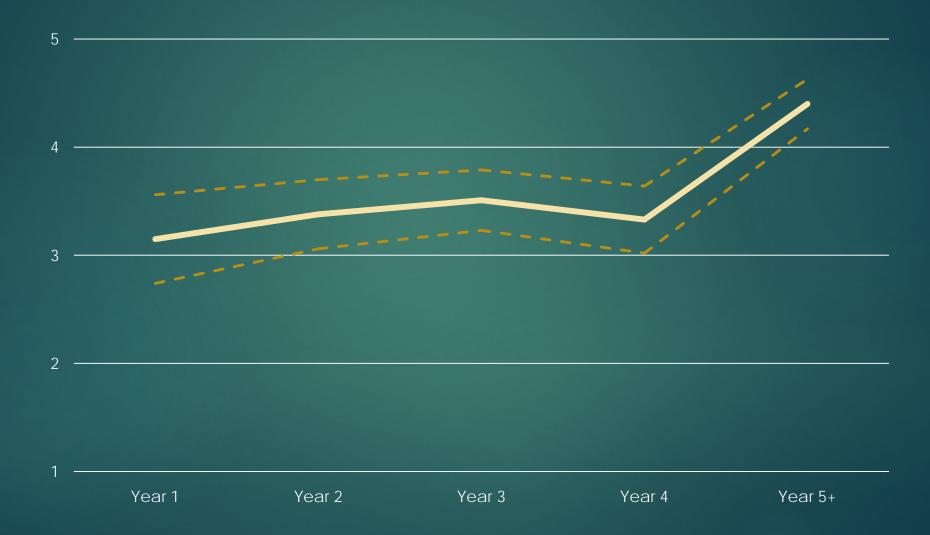
Personality (TIPI) scores and Wellness:

Openness was associated with Wellness: r = .51Emotional Stability was associated with Wellness: r = .43Conscientiousness was associated with Wellness: r = .31Agreeableness was slightly: r = .13Extraversion was not: r = .07



http://www.gme.wayne.edu/wellness

Wellness by Year



Our Journey: The "4th Aim"

"Care of the Patient Requires Care of the Provider."

Bodenheimer and Sinsky



Ann Fam Med 2014

The way a group thinks, acts, and interacts

By design or by default?



Comprehensive Approach to 4th Aim Improved Clinician Experience

Wellness and Burnout Education

Crisis Management

How?

Culture and Connection

4th Aim Continuous Improvement

Drummond. D. 2016

Design and Implement Interventions

Inoculate trainees against stress in their future careers

- Wellness advisory committee (Resident Council)
- Peer mentorship program
- Communication project: Facebook, blog, twitter, Google hang outs
- "Residents as Teachers" Certificate program (culminating edu. project to improve environment; professional empowerment)
- Resources for self-care and fitness
- Community service initiatives
- Social events, wellness activities

Ultimate Goals

Transition from individual to program to institutional level

Test impact of learning environment interventions

► Foster and assess culture of wellness

