Utilizing the Resident Wellness Scale to Assess Impact of Interventions on Resident, Program, and Institutional Levels

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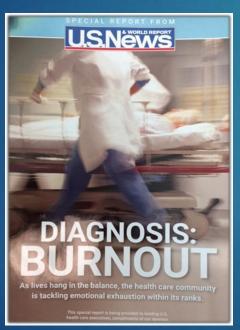


Outline

- ▶ The Resident Wellness Scale
 - History and development
 - Subscales and validity
- Describe 3-level model
- Breakout: List forces at multiple levels
- Multi-level model results
- Breakout: Develop intervention plans
- Discussion

The Importance of Wellness

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



Residents with depression or depressive symptoms: 25.3% to 32.5%

Mata, Ramos, Bansal, Khan, Guille, Di Angelantonio, & Sen (2015).

"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 (2009)

Systematic Approach to Wellness

- Acknowledge issue, involve stakeholders
- Assess:
 - Outline metric
 - Choose validated instrument
 - Compare with benchmarks
 - Review and analyze
- Intervene
 - Monitor regularly
 - Promote health (exercise, nutrition, mindfulness, fatigue mitigation)
 - Peer support (social events, common space)
 - Institutional culture (policies, mission, "just culture", efficient work flow)
 - Support services (mental health, EAP)
 - Professional development (time management, leadership, teamwork)



Wellness is a complex construct



What Differentiates Well from Unwell Residents?

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

The Resident Wellness Scale

- Positively Worded
 - ► High score indicates high wellness
 - Behaviors and feelings of wellness
 - Derived from qualitative data
- Brief
 - ▶ 10 items
 - Online
 - Immediate feedback

	Never	Seldom	Some- times	Often	Very Often
Reflected on how your work helps make the world a better place	•	•	•	•	•
Felt the vitality to do your work	•	•	•	•	•
Felt supported by your co-workers	•	•	•	•	•
Had an enjoyable interaction with a patient	•	•	•	•	•
Was proud of the work you did	•	•	•	•	•
Was eager to come back to work the next day	•	•	•	•	•
You felt your basic needs are met	•	•	•	•	•
You ate well	•	•	•	•	•
Knew who to call when something tragic happened at work	•	•	•	•	•
You felt connected to your work in a deep sense	•	•	•	•	•

Convergent Validity

- 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

RWS is free to use

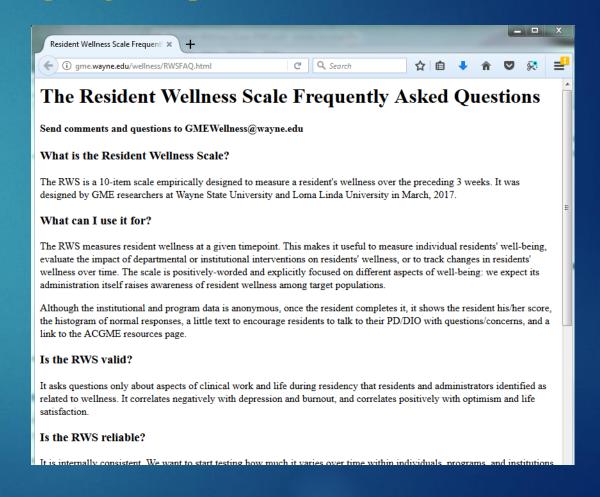
Data Sharing Agreement

- Between WSU and another institution
- IRB exemption, business-office approved

Institution added to RWS database

- Institution code
- Institution-specific URL for residents
- "Site" variable for group identification
- Custom feedback page
- Login/Password to retrieve data

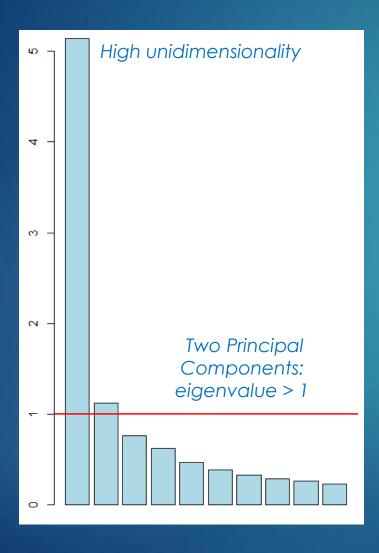
http://gme.wayne.edu/wellness/RWSFAQ.html



Results: Multi-level Model

- ▶ 5 Institutions
- Each institution has 2 to 12 programs
- Each program has 1 to 23 responses
- ▶ Total N = 210

Orthogonal Components



Varimax-rotate first 2 components:

Meaningful Work:

- Reflected on how your work helps make the world a better place
- Was eager to come back to work the next day
- You felt connected to your work in a deep sense

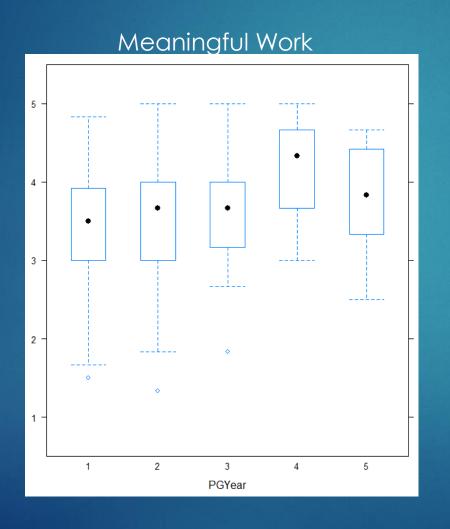
Self Care:

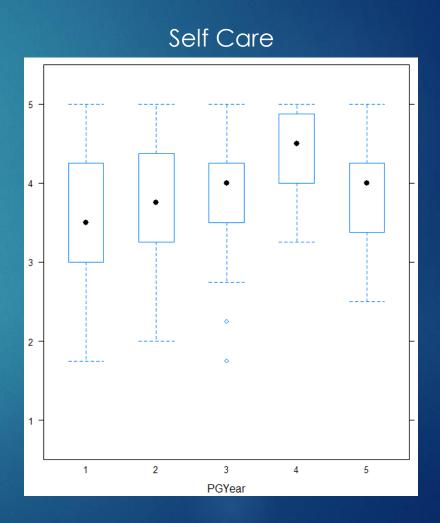
- You ate well
- You felt your basic needs are met

Gender effects

- Significant findings:
 - Females feel less supported by co-workers (†(203) = -2.2, p<.05)
 - ▶ Females are less eager to come back to work each day (t(203) = -2.5, p<.05)
 - ▶ Females feel less like their basic needs are met (t(203) = -2.2, p<.05)
- Trends:
 - ► Females feel less proud of their work (t(203) = -1.8, p<.10)
 - ► Females less likely to have eaten well (†(203) = -1.8, p<.01)

Post Graduate Year effects





Interventions

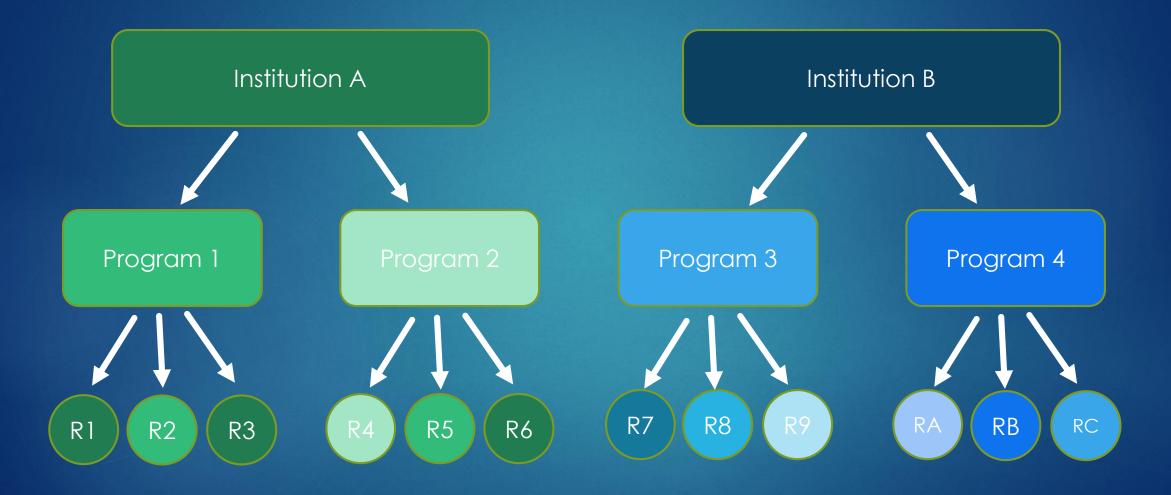
- Ulliance Employee Assistance Program
- Wellness Warriors
- Wellness round-table at Annual Institutional Review
- ► ICU Hours
- Fitbit Challenge
- Daily Puzzles
- Wellness Initiative Survey
 - Morning Coffee Sessions

starting soon

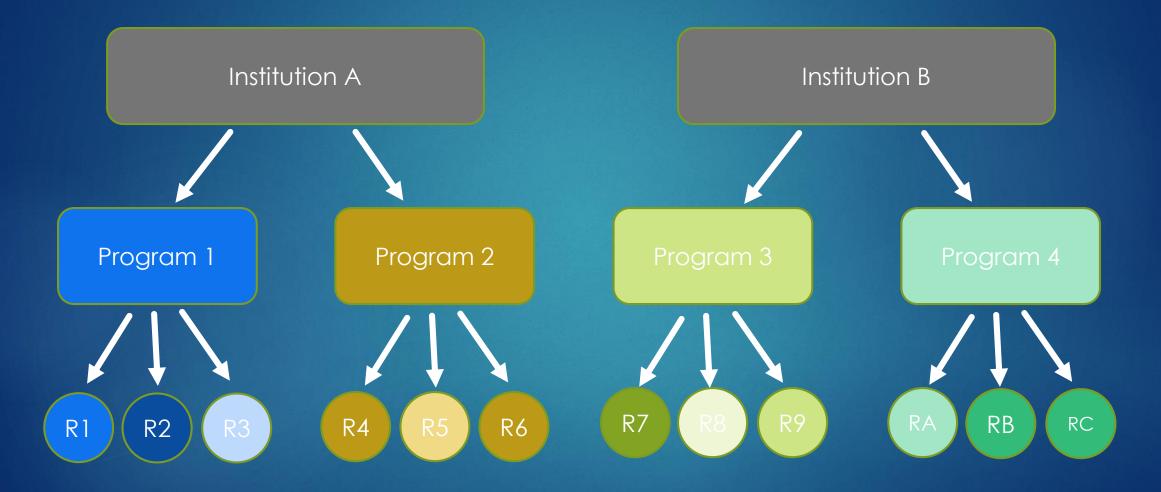
Yoga



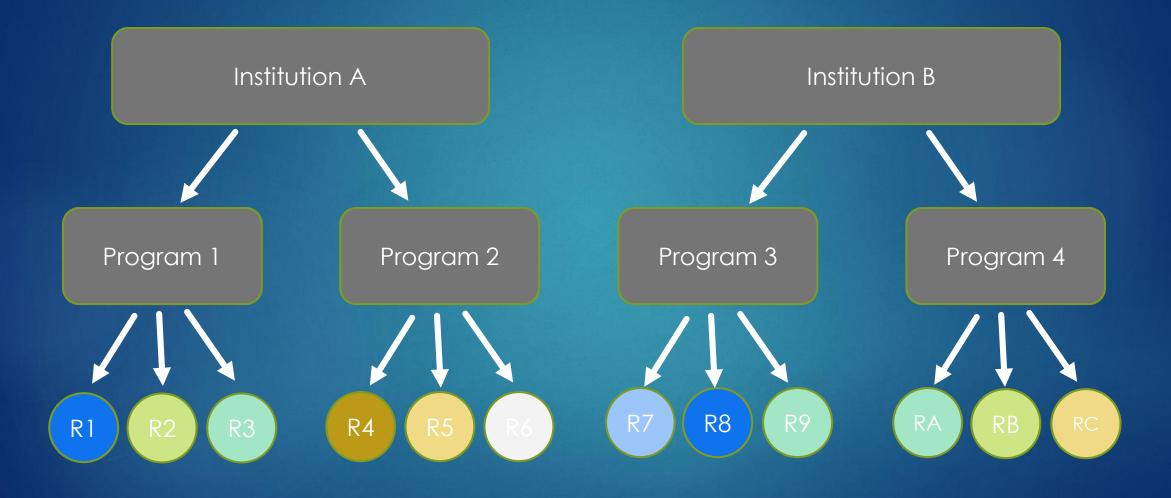
3-Level Model: Institution Forces



3-Level Model: Program Forces



3-Level Model: Resident Forces



Breakout: List Multilevel Forces

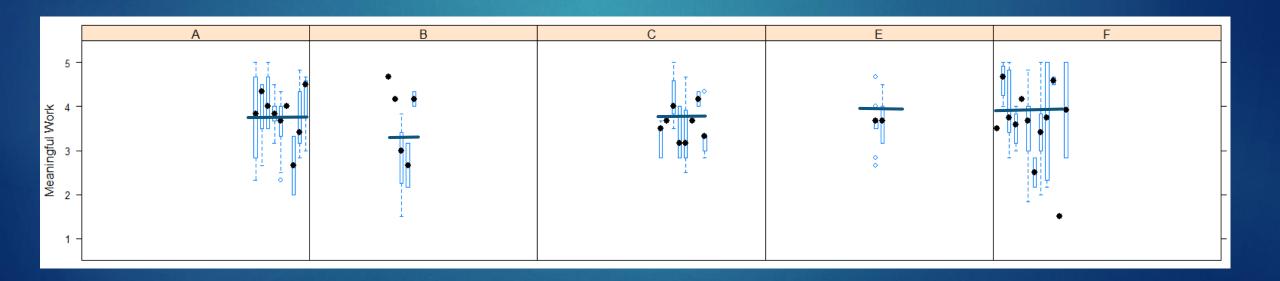


Results: Multi-level Model

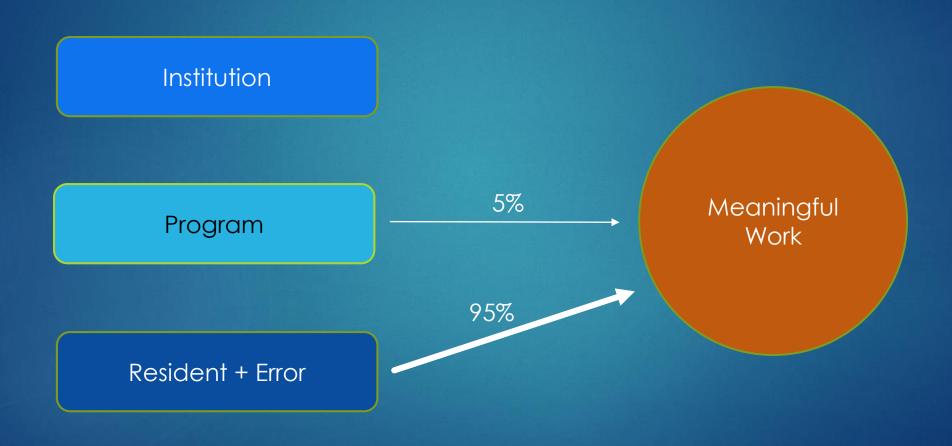
- ▶ 5 Institutions
- Each institution has 2 to 12 programs
- Each program has 1 to 23 responses
- ▶ Total N = 210
- Mixed Model with REML controls for sample size bias
 - ▶ Errs on the side of the global mean when N is low
 - Estimates variance components for each level

Resident Wellness: Meaningful Work

Institutions: A, B, C, E, F Programs within Institution Residents within Programs

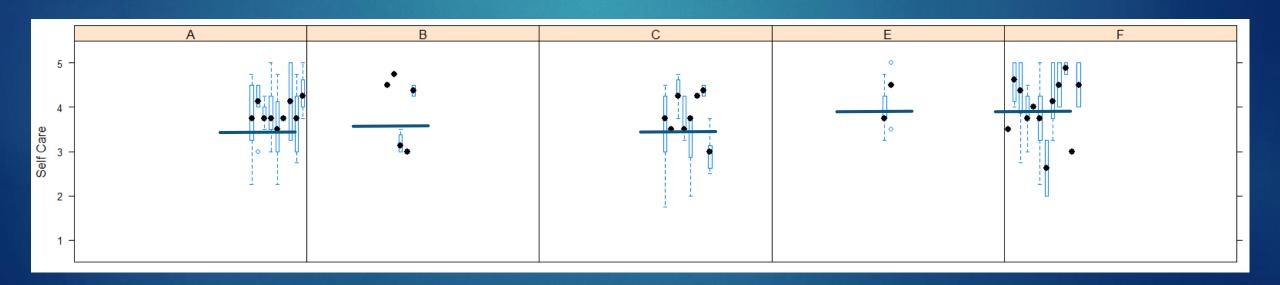


Resident Wellness: Meaningful Work

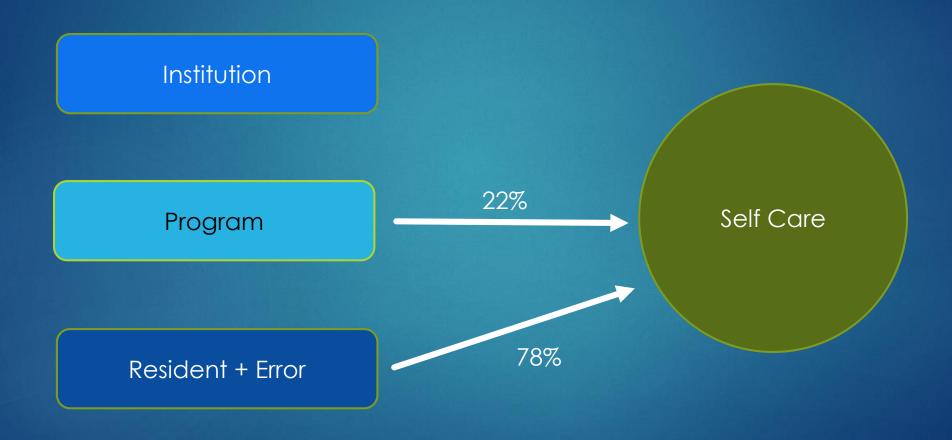


Resident Wellness: Self Care

Institutions: A, B, C, E, F Programs within Institution Residents within Programs



Resident Wellness: Self Care



Item-level Institution vs. Program

Institution more impactful

Equally impactful

Knew who to call when something happened at work Reflected on how your work helps make the world a better place

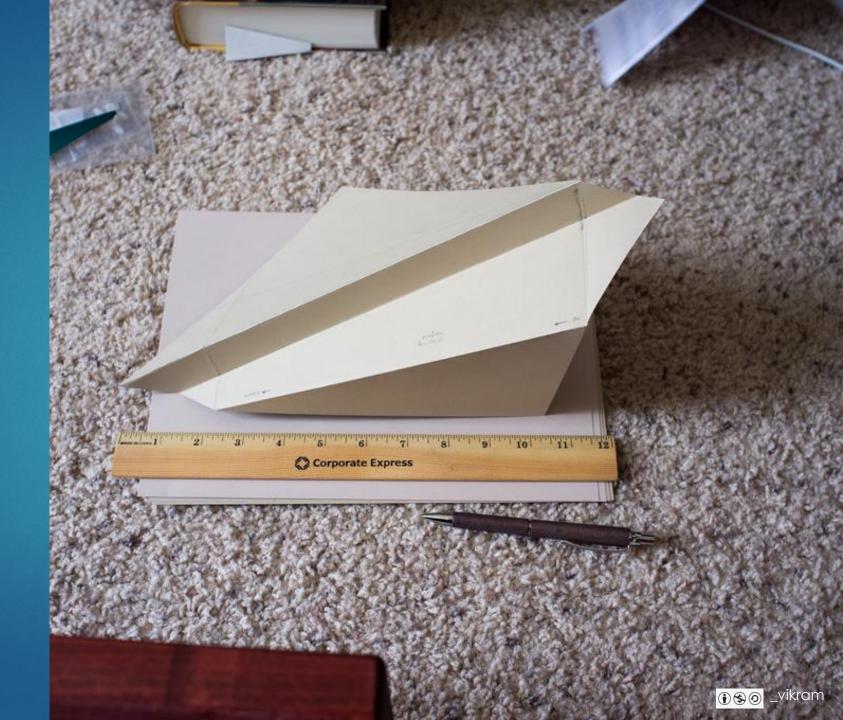
Felt the vitality to do your work

Had an enjoyable interaction with a patient Was eager to come back to work the next day You ate well Was proud of the work you did You felt connected to your work in a deep sense Felt supported by your coworkers

Program more impactful

You felt your basic needs are met

Breakout:
Design
Interventions



Questions

