

An Overview of NIH-TAC Trial Progress



A Unique NIH funded Multi-level Cluster-Randomized Intervention Trial to Enhance Institutional Culture and Women's Success in Academic Medicine



Overview

A cluster-randomized trial of an intervention to enhance the institutional culture, increase academic productivity, and improve job satisfaction for women faculty.

Specific Aims

Test extent to which the multi-level interventions improve:

- Perceived supportiveness of work environment
 measure pre/post
- Outcomes for junior women faculty
 increase in # publications and grants
 - increase in job satisfaction
- 3. Department/division performance
 - task force recommendations & implementation

Methods

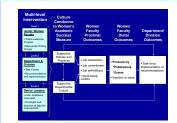
Cluster-randomized intervention trial

- Intervention unit: SOM departments/divisions
 - 27 departments randomized: 13 to intervention, 14 to control
 134 women faculty consented: 62 in
 - intervention, 72 in control

Multi-level interventions

- LEVEL 1: Junior women faculty
 - Total Leadership Program, Manuscript Writing Group, and other concentrated professional development
- LEVEL 2: Senior-level men/women faculty and administrators
 - Task Force (TF) Initiative: recommendations and implementation to improve environment to better support women faculty
- . LEVEL 3: Senior Leaders
- Department Chairs
- Enlist support for each intervention
- Oversee implementation of TF recommendations

Progress to Date



Junior Women Faculty

- Completed 5-month long Total Leadership Program
 "Although it was time intensive, the course did an excellent job of helping me to clarify my goals across all areas of my life."
- Completed 8-session Manuscript Writing Course
 "Absolutely the best training I have taken in regard to time management, developing practical ways to increase productivity, and demystifying the publishing process."

Task Force Initiative

- Each of 13 TFs made recommendations for institutional change with metrics for evaluation
 - Local, dept specific
 Larger institutional
- 43 total TF meetings with outside facilitator
- Highlights of TF initiatives in 4 departments:
- Overhaul of clinical accounting of nights and weekend duty for junior/senior faculty
- Creation of Vice Chair faculty development
- Off-site technology for radiology reading
- Enhanced mentoring programs

Senior Leaders

 Ongoing feedback and oversight of interventions with Pls, Dean and dept chairs

Challenges

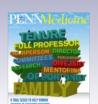
- Protected time for participation in interventions
- Leadership transitions
- Large variability in degree of innovation

Preliminary Analysis: A

Culture Conducive to Women's Academic Success (CCWAS) Measure

- . A measure of work culture was developed:
- Shared beliefs and expectations that impact ability of women faculty to be successful
- · Instrument development involved:
- Review of literature and existing questionnaires
- Focus groups with junior faculty at another institution
- In-depth discussions with experts in the field
- Formal pilot test with 56 junior women faculty at over 10 academic health centers
- · Final version: 46 items reflecting four dimensions:
 - Freedom from gender bias
 - Support for work-life balance
 Equal access to opportunities
 - Support of dept chair

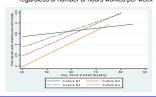




Preliminary Analysis: B

Impact of Longer Work Hours and Supportive Work Environments on Work-Family Conflict

- Longer work hours were associated with greater work-family conflict
- Less supportive culture was associated with greater work-family conflict
- There was a statistically significant interaction between long work hours, culture supportiveness, and work-family conflict
- Women in the most supportive culture (Q4) were less likely to experience work-family conflict regardless of number of hours worked per week
- Women in the least supportive culture (Q1) experienced high levels of work-family conflict regardless of number of hours worked per week



Preliminary Analysis: C

Factors Associated with Frequent Thoughts of Quitting

After adjusting for track, number of children at home, and hours worked per week, women faculty who reported:

- increased stress were 3.5 times more likely to have frequent thoughts of guitting
- not belonging in their dept were 4 times more likely to have frequent thoughts of quitting
- higher levels of work-family conflict were <u>2 times</u> more likely to have frequent thoughts of quitting

Variable	Odds Ratio	p-value	95 % CI
Stress (Likert)	3.43	0.001	1.61, 7.32
Feelings of not belonging	3.83	0.024	1.19,12.28
Strain-based work-family conflict	1.90	0.029	1.07, 3.39
Clinician Educator track	1.00	Reference	
Research track	0.04	0.012	0.004, 0.51
Tenure track	0.39	0.30	0.07, 2.27
0 children at home	1.00	Reference	
1 child at home	0.12	0.038	0.02, 0.88
2 children at home	0.82	0.77	0.23, 2.96
3+ children at home	1.18	0.84	0.23, 5.93
<50 work hours per week	1.00	Reference	
50-59 work hours per week	0.23	0.033	0.06, 0.89
60-69 work hours per week	0.14	0.036	0.02, 0.88

Summary

Overall goal to create an environment where women can succeed fully in their careers, maximizing their contributions to academic medicine and improving workplace for <u>all</u> faculty

- First randomized trial to test effectiveness of a multi-level, school-wide intervention
 - 4 year, 1.3 million dollar NIH award (RO1-NS069793)
 - Builds on 14 years of FOCUS program initiatives supported by Dean's commitment and resources
- · Preliminary results
 - Development of validated new culture measure
 - High levels of stress and lack of belonging are associated with thoughts of quitting
- Supportive work culture mitigates negative impact of long hours on work/family conflict