





46TH ANNUAL EDUCATIONAL CONFERENCE



COLLABORATE. EDUCATE. ADVOCATE.

Improving Obesity-Related Chronic Disease Outcomes: Developing Nurse Practitioner Motivational Interviewing Skill Mastery

Jodi Wilson MSN, FNP-C, CEN, RRT



Objectives













DESCRIBE HOW
MOTIVATIONAL
INTERVIEWING
CAN IMPROVE
DISEASE
MANAGEMENT,
CULTURAL
COMPETENCE,
AND MITIGATE
WEIGHT BIAS

SUMMARIZE OF
CURRENT
EVIDENCE FOR
THE USE OF
MOTIVATIONAL
INTERVIEWING

EXPLAIN THE
ROLE OF
MONITORING
AND FIDELITY
IN
MOTIVATIONAL
INTERVIEWING
TRAINING

EXAMINE
MAJOR
MOTIVATIONAL
INTERVIEWING
SKILLS

PROJECT AND MAJOR TAKEAWAYS

DISCUSS
IMPLICATIONS
AND DIRECTION
FOR NP PRACTICE



Disclosures



Most Images generated by PowerPoint



No financial relationships to disclose



This discussion describes a pilot project for doctoral candidacy at the University of San Diego

My esteemed faculty advisor:

Dr. Razel Milo, PhD, DNP, FNP-BC







Background and Significance

1 Billion people living with obesity worldwide (WHO).

Sharp rise in obesity rates in the US. 30% in 2010 to 40% in 2020 (CDC, 2023).

A major obstacle treating those with chronic illness is inspiring sustainable and impactful behavioral change.

Motivational interviewing (MI) is a highly effective evidence-based tool. (Song, Xu, and Sun, 2015)

Health education programs based on advice-giving -efficacy 5-10% (Song, Xu, & Sun, 2015)



Environmental Influences on Body Size (Pochobradsky, d. 2010) © Disney Pixar





Environmental Influences...









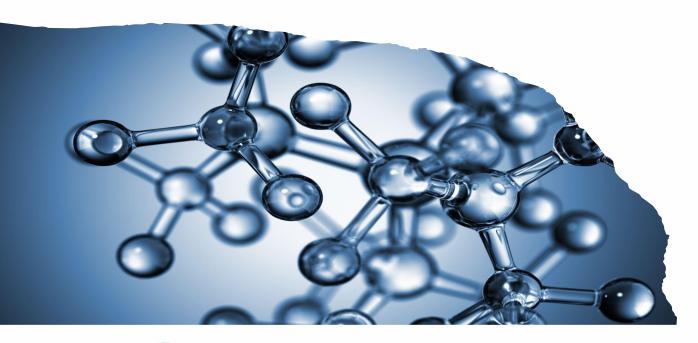
What is Motivational Interviewing?

MI is a communication style designed to understand the patient's unique situation and perspective (Rollnick. et al., 2023)



Fidelity-Based MI

"People will forget what you said, they will forget what you did, they will never forget how you made them feel." Maya Angelou



Establishes trust

Patient-Centered

Encourages introspection

Allows the patient space

Facilitates personal accountability

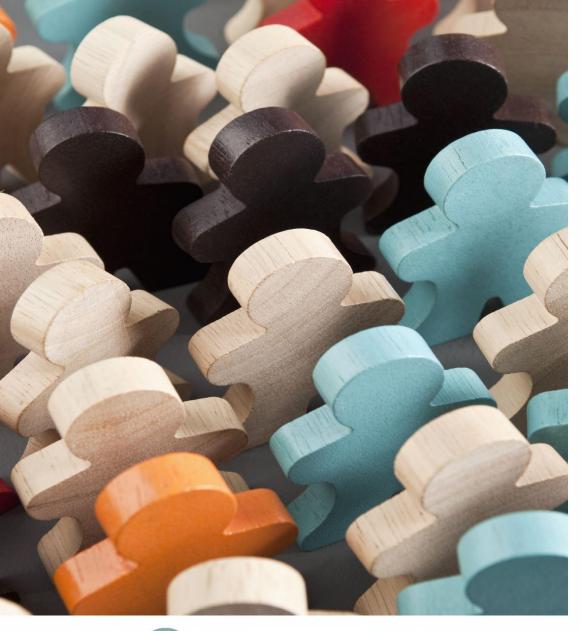
Supports cultural competence

Mitigates implicit weight bias

Time-smart



46TH ANNUAL EDUCATIONAL CONFERENCE



Implicit Bias of Obesity

- Bias contributes to a cycle of worsening disease and lessen treatment efficacy (Nadolsky et al., 2023)
 - Obesity is equated with laziness and lack of control
 - Weight is assumed synonymous with health
- Healthcare professional bias
 - Rathbone et al. (2021)
 - Ata et al. (2018)





 Patient-centered communication such as motivational interviewing mitigates the effect of the communicator's implicit biases (Puhl et al., 2016; Kennedy et al., 2022).

> MI is focused on understanding the patient ideas rather than imposing the practitioners

Four Processes of Motivational Interviewing





46TH ANNUAL EDUCATIONAL CONFERENCE

Processes of MI (Rollnick et al., 2023)

- Engaging
 - inviting the patient express themselves
- Focusing
 - Collaborating on the topic of conversation
- Evoking
 - "Guiding in MI means guiding people to give voice to their own good reasons for change." (Rollnick et al., 2023, pp 93)
- Planning
 - This occurs when the patient is ready to act





46TH ANNUAL EDUCATIONAL



- Open-ended questions
- Affirming
- Reflections
- Summarizing







Open-Ended Questions

- Thought provoking
 - An invitation to think aloud
 - An invitation to expound or opine (on the positive)
- Non-yes or no
- Not always a question
- Non-fact-finding



Affirming

Non-superficial observations about a person's strengths and lasting good qualities (Rollnick et al., 2023)

Affirmations

- Your determination is apparent.
- You made a decision and followed through.

Superficial Praise

- Wow, good job.
- Good for you.
- That is awesome

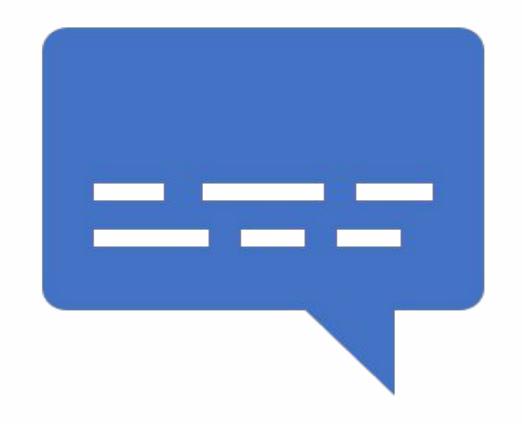
Reflections

Now known as a "listening statement." (Rollnick et al., 2023, pp. 39)

- Communicate your understanding of the meaning in the patient's statements
 - Conveys respect







Summarizing

Tell 'em what you going to say, say it, then tell 'em what you said.





Tell me about your health goals?

Starting the Conversation



You stated you'd like to lose weight. How would you go about it?



If you were to be successful, what would your life look like?



46TH ANNUAL EDUCATIONAL CONFERENCE





MI Conversation:

Tell me more about your exercise plan.



Motivational Interviewing Don'ts

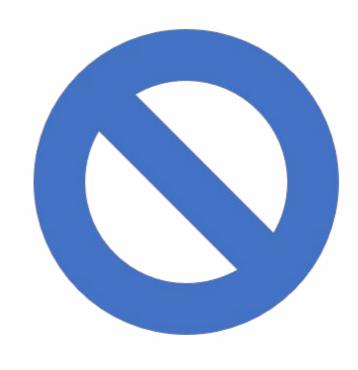
Don't tell the patient what to do. "Righting Reflex"

Do not give unsolicited advice or advice without permission.

Don't ask fact-finding question.

Don't ask why?

Don't start open-ended questions with what (use tell me about instead).





Listening Statement (Reflection) Practice

(Rollnick et al. 2023, pp. 43-45)

"Lose some weight. I eat fairly healthy already, but I suppose I could make some changes there."

You can see there are some changes you can make there.

"I do have a sweet tooth, but I feel fine, and this is just one lab test, right?"

> You're not sure how this can happen when you feel normal.

"I know I should quit smoking, but it's the only way I know how to relax."

You're concerned about how you'll deal with stress if you quit smoking.





Evidenced-Based Pilot Project

Motivational Interviewing Skills



EBP Project Problem

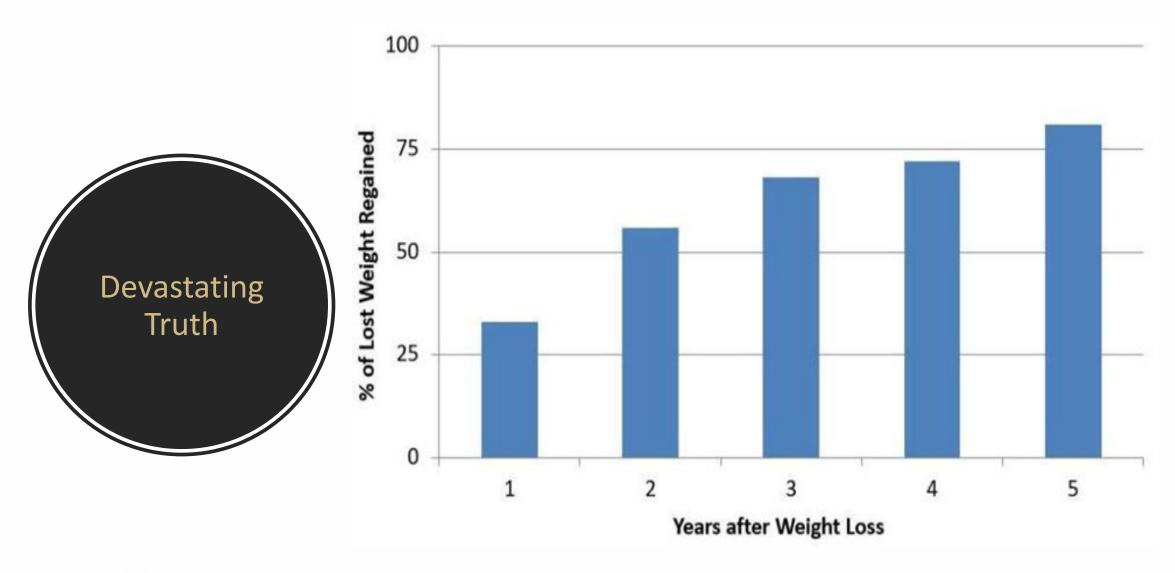
Poor Obesity & Related Disease Outcomes

- Nearly 50% of untimely deaths in the United States are due to modifiable behaviors (Philips, Frates, & Park, 2020).
- 80% PwOs gain back most weight by year 5 (Kaplan et al., 2017)

MI Training Obstacles

- Traditional MI training Costly
- Time consuming to learn
 - Requires months
 - Fidelity matters







46TH ANNUAL EDUCATIONAL CONFERENCE

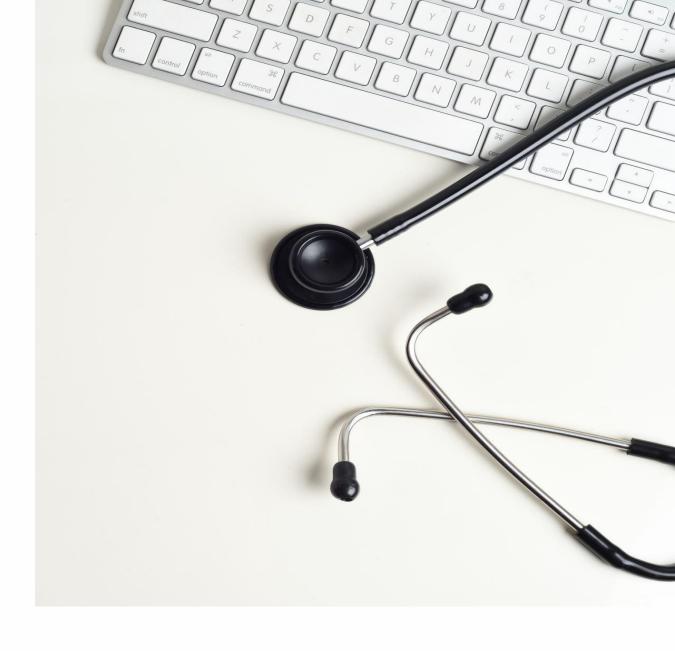


Evidence



PICO (T)

In primary care providers does an internet-based MI training course, subsequent 45-minute skill-based practice session improve self-efficacy (L-SES) and provider skill (MITI scores) by 25% compared to no MI training at the end of 3 months.





systematic review of motivational		• 9 studies significant weight loss post MI
interviewing		• 13 studies 5% weight loss post MI
		 Half studies showed no improvement
Behre, K. K., Gebru, H. B., and Kahsay,	Level I	 Meta-analyses 8 studies
H. B. (2020) Effect of motivational		 MI resulted in statistically significant

Evidence

Ranking

Level I

Summary

95%

• Meta-analyses of 22 studies

improvement in A1C in treatment group

compared to control group p=0.003, CI

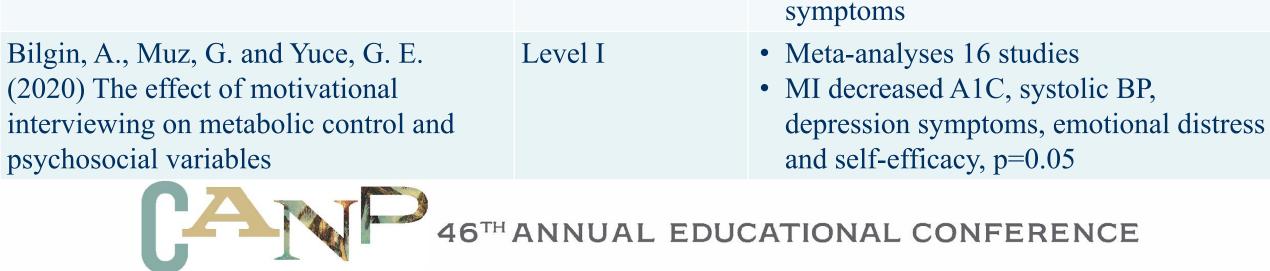
• No improvement on depression

Author(s)

Name of article

Barnes, R. D. and Ivezaj, V. (2015) A

interviewing on HgA1C and depression



on self-management in patients with type II diabetes		• Self-management was significantly better in those post MI than control groups (p <0.0000 CI 95%)
Suire, K. B. et al (2020) Motivational interviewing for weight	Level I	 Meta-analysis 7 studies of 10 studies Reduction of weight and BMI in MI group vs

Summary

• Meta-analysis 10 trials

control group P<0.001, CI 95%

over 6 months sustained MI skills

• On average 3-4 feedback / coaching sessions

Meta-analysis 21 studies

Evidence

Melnyk

Level I

pyramid)

Ranking (use

Author(s)

Name of article

Song, D., Xu, T., Sun, Q. (2014)

management among women

Interviewing

A. (2013) Sustaining Motivational

Swalbe C. S., Oh, H. Y. and Zweben, Level I



Hierarchy of Evidence

Subject	Level I	Level II - IV	Expert Opinion	Totals
MI Treatment	8	2	2	12
Fidelity/Training	1/3	5/2	1	12
MI Implementation	1	1	0	2
Self-efficacy	0	1	0	1
Obesity Treatment/Guidelines	1/3	11/0	2/0	17
Total	17	22	5	44



Summary of Evidence

MI Treatment

8 Meta-analyses> 150 level II/III studies

Outcomes

Statistically significant improvements in:
Self-efficacy
Intent to change
AIC
Cholesterol
BP,
BMI

Fidelity/Training

4 Meta-analysis

>33 Studies

Report an incongruence between practitioner perception of fidelity and objective skill assessment

Fidelity

Monitoring improves fidelity Fidelity improves outcomes



Equivocal/Dissenting Evidence

Do not address MI fidelity or MI practitioner skill



At the heart of MI communication

Patient centeredness R

Respect

Collaboration



Alternative is the status quo



Improving Obesity-Related Chronic Disease Outcomes: Developing Nurse Practitioner Motivational Interviewing Skill Mastery Jodi Wilson, MSN, FNP-C, CEN, RRT Dr. Razel Milo PhD, DNP, FNP-C



Background

- Nearly 50% of untimely deaths in the United States are due to modifiable behaviors.
- Obesity rates have risen sharply in the last 10 years from 30% in 2010 to 40% in 2020; rates are predicted to worsen
- One billion people are obese worldwide
- A major obstacle to treating those with obesity-related chronic illness is inspiring sustainable behavioral change.
- Motivational interviewing (MI) is a highly effective evidence-based tool, yet underutilized technique for overcoming personal change inertia.
- Monitoring MI treatment integrity (MITI) assures MI fidelity and increases efficacy.

Evidence for Problem

AUTHOR(S) NAME OF ARTICLE

Behre, K. K., Gebru, H. B., and Kahsay, H. B. (2020) Effect of motivational interviewing on HgA1C

and depression

Bilgin, A., Muz, G. and Level I Yuce, G. E. (2020) The effect of motivational interviewing on metabolic control and psychosocial

Suire, K. B. et al (2020) Motivational interviewing for weight management among womer

- EVIDENCE SUMMARY OF EVIDENCE RANKING - KEY BULLET POINTS • Meta-analyses 121
 - studies · MI resulted in statistically significant treatment group group p=0.003, CI 95%
 - No improvement on depression symptoms
 - Meta-analyses 16 studies
 - · MI decreased A1C. systolic BP, depression symptoms, emotional distress and self-efficacy
 - Meta-analysis 7 studies of 10 studies
 - Reduction of weight and BMI in MI group vs control group P<0.001,

Evidence-Based Intervention/Benchmark

- · Internet-based Motivational interviewing training followed by 45-min practice
- · Pre and post self-efficacy survey L-SES
- Monitor MI fidelity- evaluation of recorded MI sessions and provider feedback
- Improvement of MITI scores (RQ & CT) and L-SES scores by 20% within 3 months

Purpose

This EBP aims to develop nurse practitioner skills in deploying MI by completing internet-based training course, live practice, and fidelity monitoring. The primary goal of MI is to increase adherence to lifestyle interventions and improv obesity-related chronic disease outcomes.

Iowa Model

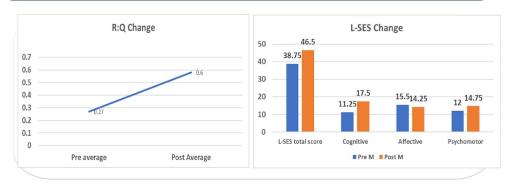


Project Plan Process

- · Pre-training (L-SES) survey May 3,
- · Record one MI session prior to beginning May 15, 2023
- · Internet based training completed June 4, 2023
- One live 45-minute practice session by June 21, 2023
- · Minimum Six recorded MI sessions by 10/31/23
- Target: minimum 1-2 recorded sessions per month July-Sept
- Post-project (L-SES) survey 11/15/2023
- Data analysis completed by 12/31/23



Evaluation of Results



Cost-Benefit Analysis

CBA = **Program Benefits Program Costs** 57,200 / 1920 = 29.8

In a program size of 100, for every dollar spent, there will be a \$29.79 cost savings.

ROI = Program Benefits -Costs of Program 29.8 X 100 = 2.979.2% **Program Costs**

In a program size of 100, there would be a 2.979% return on investment

Implications for Clinical Practice

- Advance whole patient approach
- · Improved patient trust
- Improved patient-NP partnership.
- MI potential to further distinguish NP practice from the practice of medicine
- Use of MI to assist patients in incorporating sustainable lifestyle change and therefore lower overall obesity-related disease burden and cost.

Conclusions and Recommendations

- Motivational interviewing can be utilized to effectively inspire change in adopting healthy behaviors, ultimately lowering patient A1C and weight.
- Three months is an insufficient amount of time for training; more training hours improves MI fidelity - minimum 6-12 months is best.
- Evidence supports diffuse nurse practitioner adoption of motivational interviewing (through self-directed training and skill practice is feasible).
- · Incorporate motivational interviewing training into NP primary education
- · Implement MI training at National and local NP conference workshops.
- Continued research and outcomes monitoring is necessary.

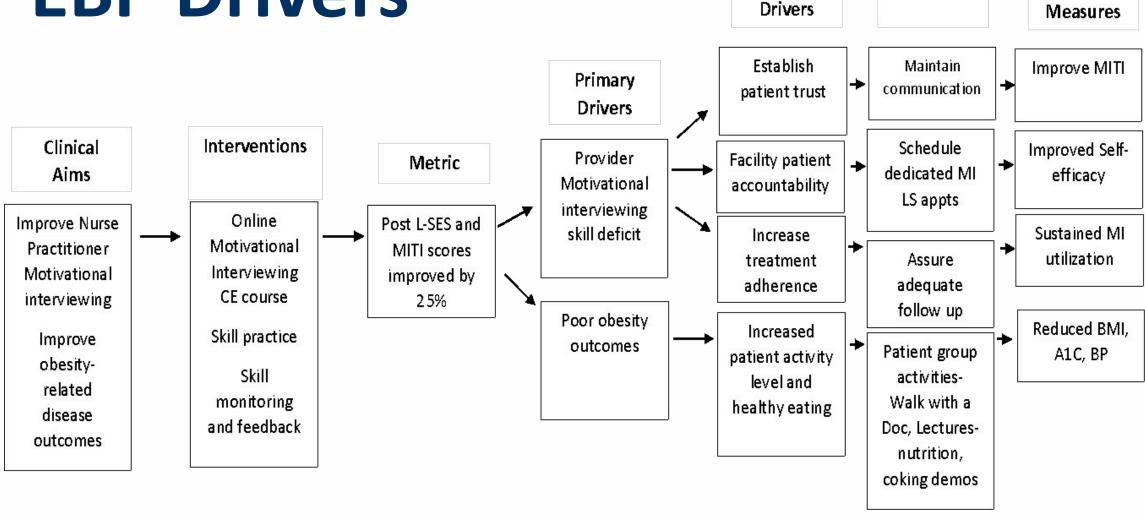


46TH ANNUAL EDUCATIONAL CONFERENCE

Evidence-Based Pilot Project

Nurse Practitioner Training, Monitoring, and Fidelity

EBP Drivers





Secondary

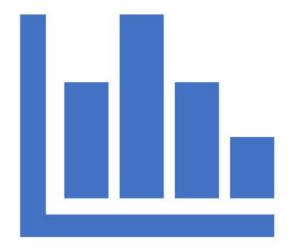
Initiatives

Process

EBP Design	
	/

Setting: Small 4 provider family practice Population: Adults ORCD	May 2023	June 2023	October 2023	November 2023	December 2023
Project Live /Pre-SE survey					
Pre- MI training recording					
Training completion					
Live Practice					
Session recordings, coding & feedback					
Post-SE survey/MITI analysis Project Conclusion					



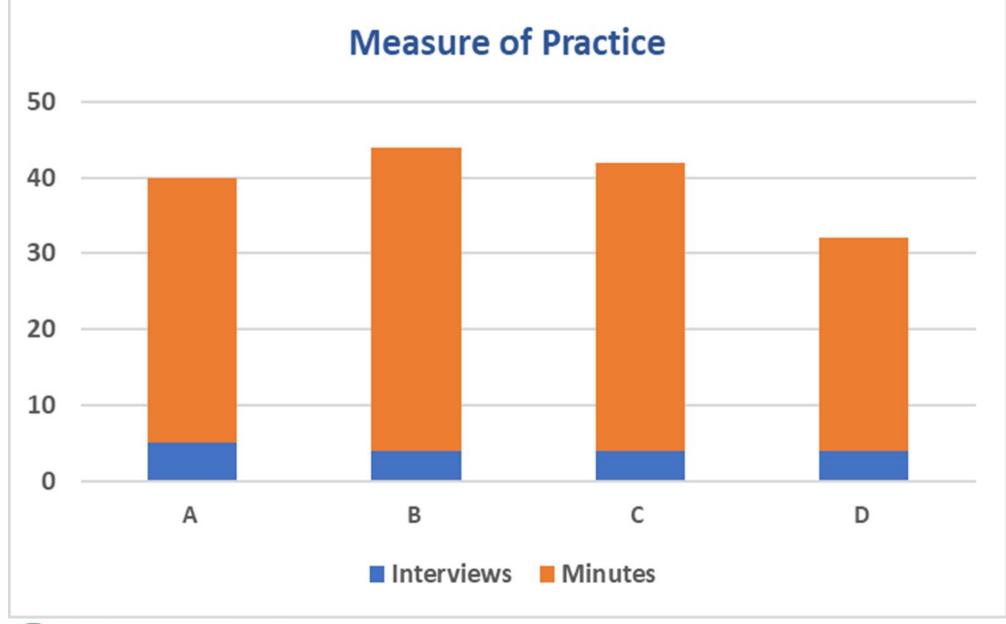


Results

Motivational Interviewing EBP Pilot

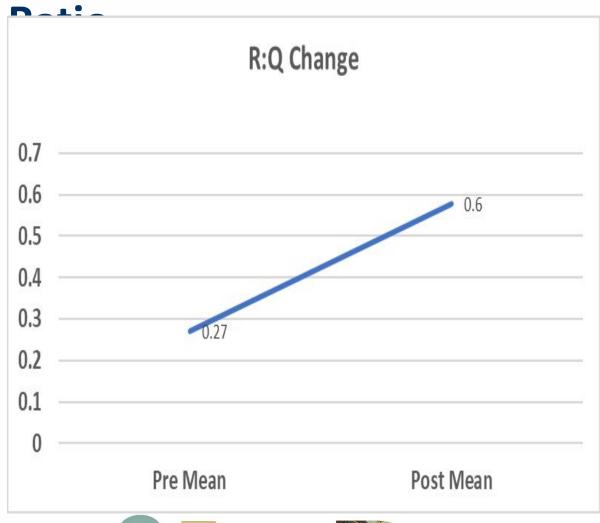


46TH ANNUAL EDUCATIONAL CONFERENCE





Fidelity: Reflections to Questions

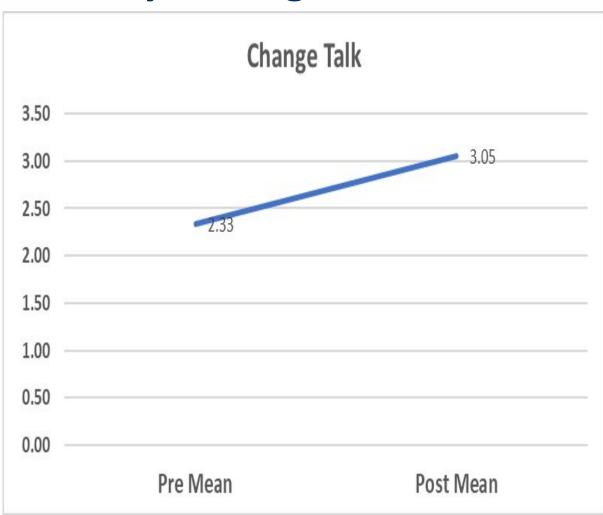


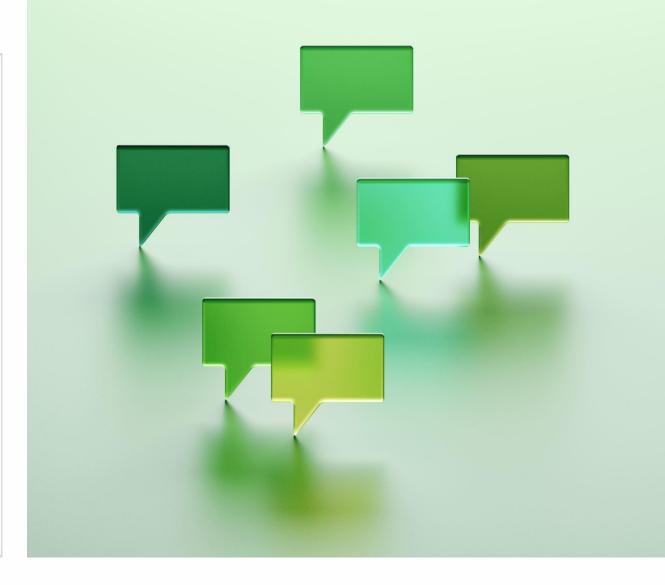




46TH ANNUAL EDUCATIONAL CONFERENCE

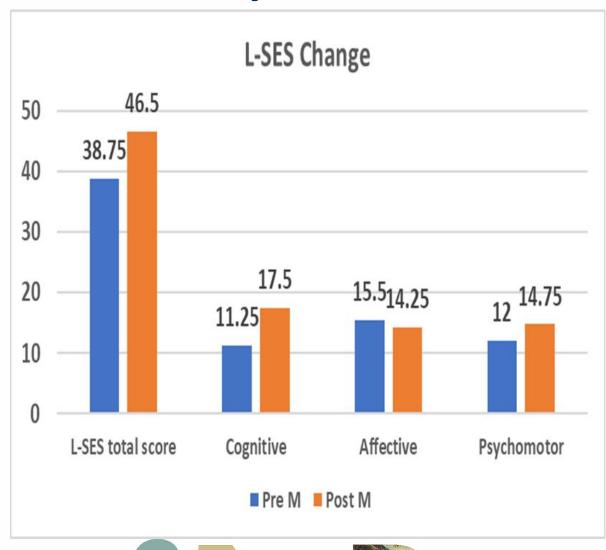
Fidelity: Change Talk







Self-Efficacy





46TH ANNUAL EDUCATIONAL CONFERENCE

Limitations

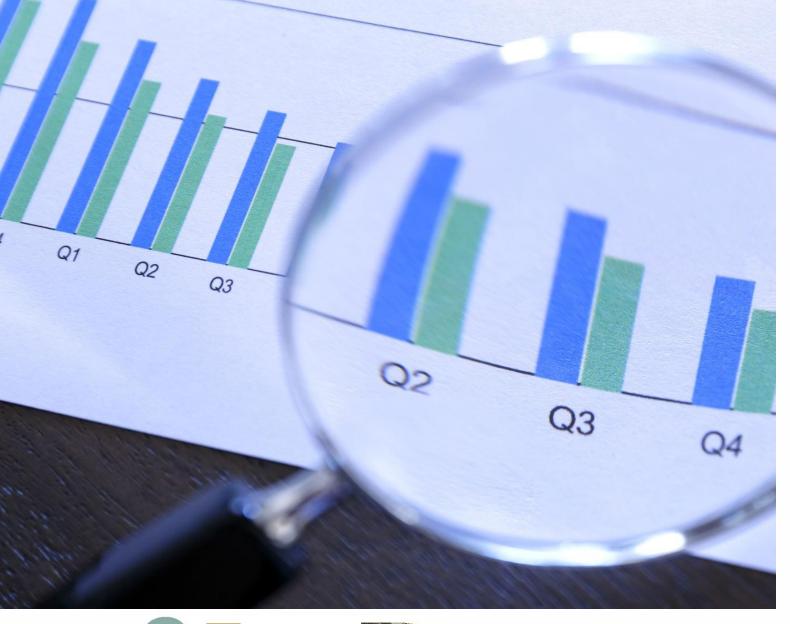
- Short implementation period
- Low budget unfunded student EBP
 - Lack of professional MI guidance coaching
 - Novice MITI (fidelity) coder
 - EBP administrator self-coded
 - No division of administrative labor



Conclusions

- Longer training period
- Monthly one on one feedback
- Emphasize and remind to review feedback reports
- More practice
 - 2-3 peer practice sessions
 - Increased number of recorded interviews
- Dedicated non-participant coder





EBP Pilot Sustainabilit y

- Provide Incentives to maintain skills
 - Annual Performance Review
 - MI CEs
- Recording submissions



Recommendations

- Incorporate MI into NP training
 - NP Health Assessment course
 - OSCEs
 - Conference workshops & certification courses
 - Include in board exam content
- More fidelity-based outcomes research
- Schedule follow-up for lifestyle intervention discussions
- What NPs can do for themselves now
 - Read Motivational Interviewing in Healthcare (Rollnick et al., 2023)
 - Start by practicing





Implications for Advanced Practice Nursing

- Better treatment outcomes with NPs
 - Improved treatment plan adherence
 - Lower rates heart attacks, strokes etc.
 - Improved disease control
 - Improved trusting patient-clinician relationship/partnership





Recap: MI Moving the Profession Forward





Thank You for Listening

MI not a novelty but a necessity

"People will forget what you said, they will forget what you did, they will never forget how you made them feel."

Maya Angelou



References and Resources

References



University of Maryland MI Certificate Program \$1400 Umass Chan Medical School MI Certification Program \$1550