

Ginger Richardson, MSN, RN, CPNP-PC

DNP Candidate



BACKGROUND AND SIGNIFICANCE:

MENTAL HEALTH DISORDERS

The most common disease in childhood and adolescence in the US

In 2019, 7.8% of youth were diagnosed with an anxiety disorder; post-pandemic numbers are higher (Mangione, et al., 2022)

Public health advisory





BACKGROUND AND SIGNIFICANCE: DISPARITY AMONGST RURAL YOUTH

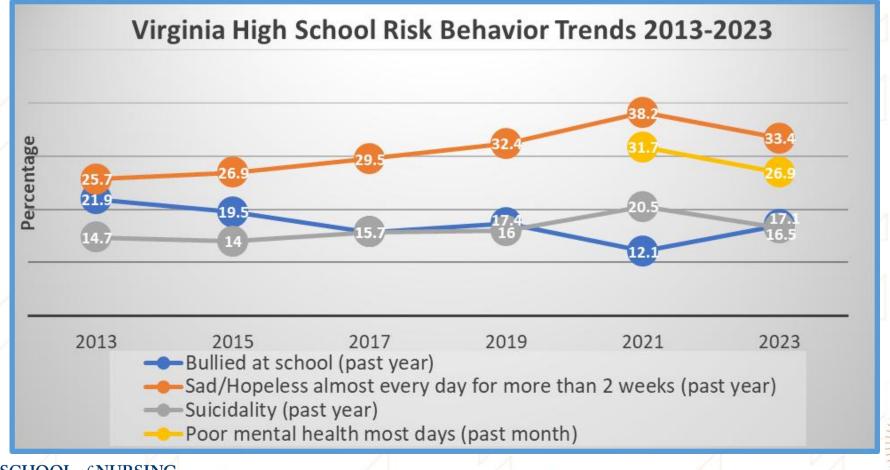
Higher rates of unemployment, teen pregnancy, obesity, substance abuse, and suicide

More difficulty with accessibility, availability, affordability and acceptability of care (National Rural Health Association, 2024)





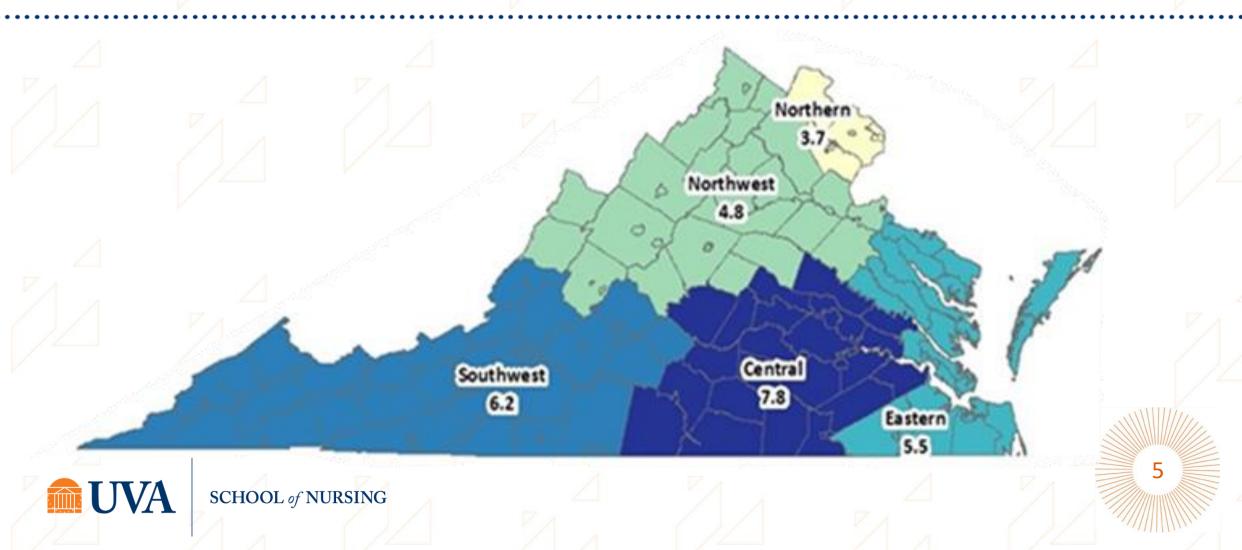
BACKGROUND AND SIGNIFICANCE: VIRGINIA TRENDS





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BACKGROUND AND SIGNIFICANCE: VIRGINIA TRENDS



BACKGROUND AND SIGNIFICANCE: TREATMENT FOR ANXIETY AND DEPRESSION

Clinical practice guideline (2020)

Cognitive-behavioral therapy (CBT) is first-line

Severe shortage of behavioral health specialists

Need for pediatric providers to expand access to care





BACKGROUND AND SIGNIFICANCE:

CREATING OPPORTUNITIES FOR PERSONAL EMPOWERMENT (COPE)



Promising evidence-based intervention for youth with anxiety

Developed by Bernadette Melnyk, PhD, APRN-CNP, FAANP, FNAP, FAAN



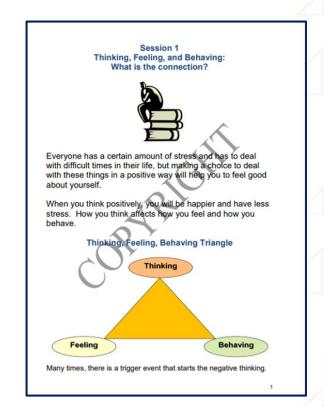


BACKGROUND AND SIGNIFICANCE:

CREATING OPPORTUNITIES FOR PERSONAL EMPOWERMENT (COPE)

Session topics:

- 1. Thinking, Feeling, and Behaving Triangle
- 2. Self-Esteem, Positive Thinking, Self-Talk
- 3. Goal Setting and Problem Solving
- 4. Stress and Coping
- 5. Emotional and Behavioral Regulation
- 6. Effective Communication
- 7. Barriers to Goal Progression





IOWA MODEL STEP 1: IDENTIFY THE ISSUE

Setting:

A primary care clinic in rural Virginia

Issue:

Increased need for access to cognitive behavioral therapy





IOWA MODEL STEP 2: FORM A QUESTION

In rural adolescents with mild to moderate anxiety, does participation in COPE affect anxiety scores?





IOWA MODEL STEP 3: FORM A TEAM

Advisor: Kathryn Reid, PhD, RN, FNP-C, CNL

Second Reviewer: Amy Boitnott, DNP, RN, FNP-BC, CPNP-PC

Practice Mentor: Rosie Taylor-Lewis, DNP, RN, PMHNP-BC, ANP-BC, GNP

Project Team: Shamane Day, M.Ed, NCC, Director of Counseling, and Rachel Reutinger, Director of Student Services





IOWA MODEL STEP 4: ASSEMBLE, APPRAISE, AND SYNTHESIZE THE EVIDENCE

Systematic literature review performed

Primary goal:

Explore interventions utilized by primary care providers to treat anxiety in adolescent patients



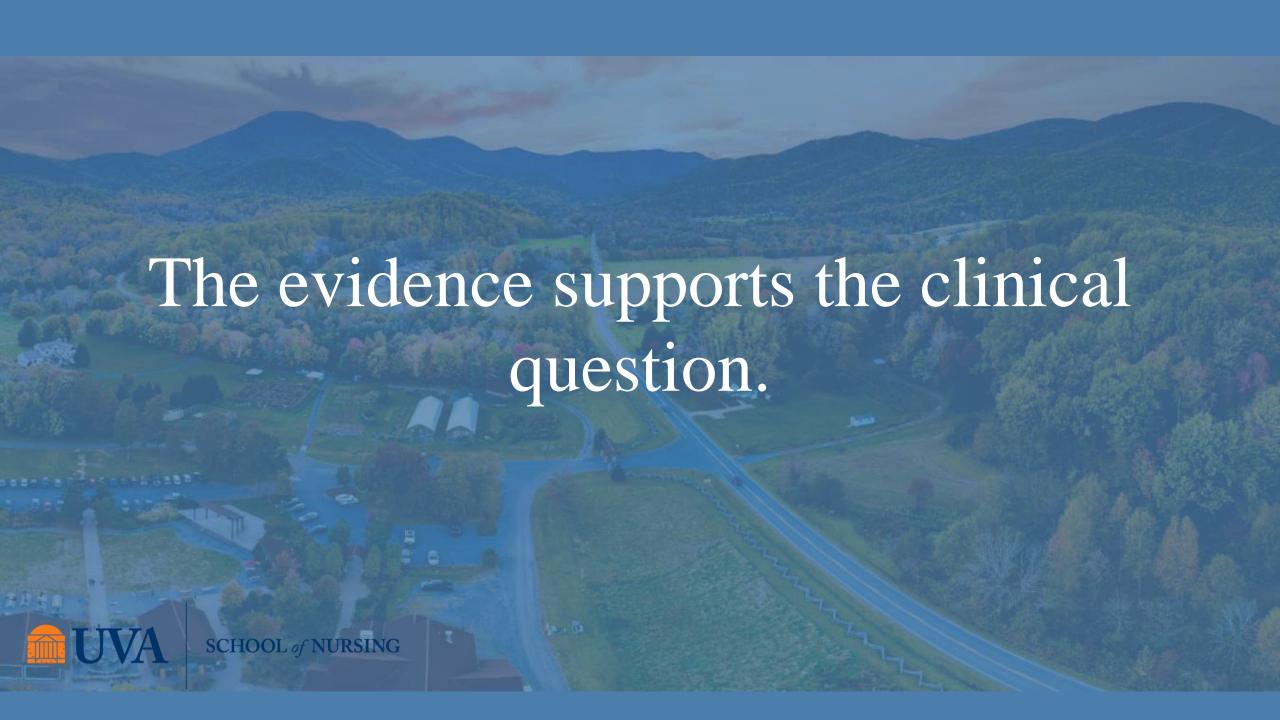


IOWA MODEL STEP 4: ASSEMBLE, APPRAISE, AND SYNTHESIZE THE EVIDENCE

Themes:

- 1. CBT-based interventions should continue to be recommended
- 2. Brief (7-16 week) interventions may provide an alternative to traditional therapy
- 3. COPE showed statistically significant and clinically significant improvement



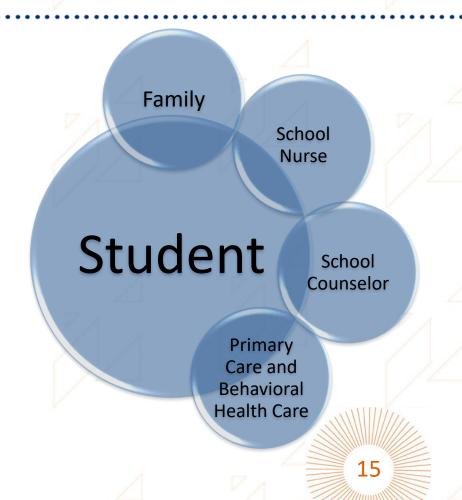


Initial design:

Integrate COPE into rural primary care clinic

Adjustment to meet stakeholder's needs:

Disseminate COPE to patients and students at the local high school





Project Outcome Development:

Primary aims:

Expand screening for mental health disorders and symptomatology in the school system

Increase access to cognitive behavioral therapy through implementation of COPE



Permissions:

- ✓ Rural health center
- ✓ Public school system
- ✓ UVA Institutional Review Board (IRB); considered an exempt study
- ✓ Individual participants and their guardians



Funding:

Rodriguez Nursing Student Research and Leadership Award



A 7-Session Cognitive Behavioral Skills Building Program

Teen

Created by:
Bernadette Mazurek Melnyk, PhD. RN. CPNP/PMHNP, FAANP, FNAP, FAAN

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SCHOOL of NURSING



COPE IMPLEMENTATION

September	October	November	December	January
2024	2024	2024	2024	2025
Enhanced	Recruitment	Weekly COPE	Completion of COPE	Analysis of Data
mental health	Pre intervention	sessions continue	sessions	-
screening	data	Mid intervention	Post intervention data	Dissemination
Review of	COPE sessions	data check		Sustainability Plan
results	begin	data crieck	Outcome evaluation	•



Results:

Significant decrease in anxiety from baseline (M=12.3, SD=6.3) to post-intervention (M=10.2, SD=5.5), t(5)=-2.4, p=.029, g=-.84

No significant decrease in depression from baseline (M=13.5, SD=7.2) to post-intervention (M=14, SD=8.76), t(5)=.213, p=.420, g=.073

100% of participants who completed COPE reported it was helpful



Participants

Enjoyment with group collaboration
A sense of belonging Help with calming Help with anger
Less stress
Less anxiety

Counselors

Less frequent visits from participants
Better eye contact
Less peer conflict
Brighter affect
Improved attendance
Improved grades





IOWA MODEL STEP 6: INTEGRATE AND SUSTAIN THE PRACTICE CHANGE

High School

Continue expanded screening

Begin new COPE groups

Follow prior participants

Middle School
First COPE group
currently meeting

Rural Health Clinic

Evaluation and treatment as needed

Possible COPE integration into clinic



IOWA MODEL STEP 7: DISSEMINATE THE RESULTS

- ✓ UVA School of Nursing
 Compassionate Care Research
 Symposium
- ✓ Virginia Rural Health Association conference

- ☐ School administrators
- ☐ Rural health clinic providers and staff
- ☐ UVA Libra repository
- ☐ The Journal of School Nursing



CONSIDERATIONS FOR DIVERSITY, EQUITY, AND INCLUSION

Higher rates of anxiety and depression:

Female adolescents

Black, Latino, and multi-racial adolescents

Higher rates of death by suicide:

Rural adolescents

Black and Latino adolescents





ETHICAL AND SAFETY CONSIDERATIONS

Beneficence

Autonomy

Confidentiality





FINANCIAL CONSIDERATIONS FOR COPE IN THE SCHOOL SETTING

\$25,585 cost savings per year if one hospitalization prevented

4		First Year of	Second Year of	Third Year of	Three Year
		Intervention	Intervention	Intervention	Total
	License	\$385			
	(\$385/2yr)				
	Renewal			\$285	
	(\$285/yr)				
	Manuals	\$230	\$230	\$230	
	(\$23/ea)				
	Facilitator Time	\$450	\$450	\$450	
	(\$45/hr)				
	Ancillary cost	\$350	\$350	\$350	
	(\$50/session)				
		\$1415	\$1030	\$1315	\$3760
	2020 Cost for				
	mental health				
G	hospitalization				
J	in Virginia				
	(\$27,000)	\$27,000	\$27,000	\$27,000	\$81,000



SCHOOL of NURSING

IOWA MODEL STEP 2: FORM A QUESTION

In rural adolescents with mild to moderate anxiety, does participation in COPE affect anxiety scores?





IMPACT OF COPE IMPLEMENTATION

"The impact has been profound; participating students have shown significant improvements across multiple dimensions...likely due to the emphasis on interpersonal skills and emotional regulation. Perhaps most importantly, participants demonstrate an enhanced capacity to self-regulate, a critical skill for navigating the challenges of anxiety."

-Ms. Shamane Day, Director of School Counseling





CONCLUSION AND FUTURE IMPLICATIONS

Clinical significance in decreasing adolescents' anxiety

COPE was enjoyed by participants, who reported that it was helpful and should be continued

Small group size was effective

Difficulties included missed academic time for student participants

Improvement in school attendance and academic performance may help with future support

Further implementation studies are indicated





THANK YOU!









Please email any questions: gr5u@virginia.edu





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