Social Support and Self Efficacy's Influence on Helplessness Following an Acute Myocardial Infarction

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The Nitty Gritty

- Disclosures
 - No disclosures to report
 - No conflicts of interest to report
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- Employer
 - Duke University School of Nursing

Objectives

- Identify relationship between social support, self-efficacy, & helplessness
- Social support and self-efficacy's specific impact on helplessness
- Consider future steps to decrease helplessness in AMI patients

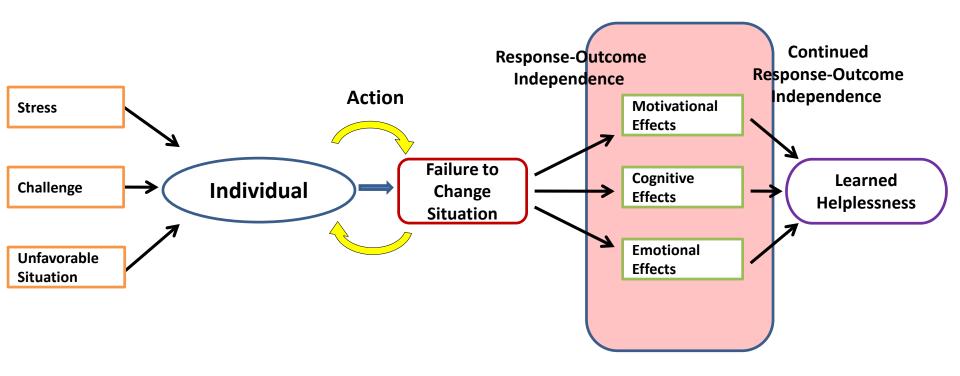
Background & Significance

- CAD
 - 360,000 CAD deaths per year in USA
 - 790,000 AMI per year
- Associated psychological factors
 - Social support
 - Self-efficacy
 - Learned helplessness

Purpose

- Examine the relationship
 - Social support, self-efficacy, and learned helplessness
 - Targeted demographic, clinical, and psychosocial factors

Theory of Learned Helplessness



Research Design

Descriptive

Correlational

Cross-sectional

Sample Selection

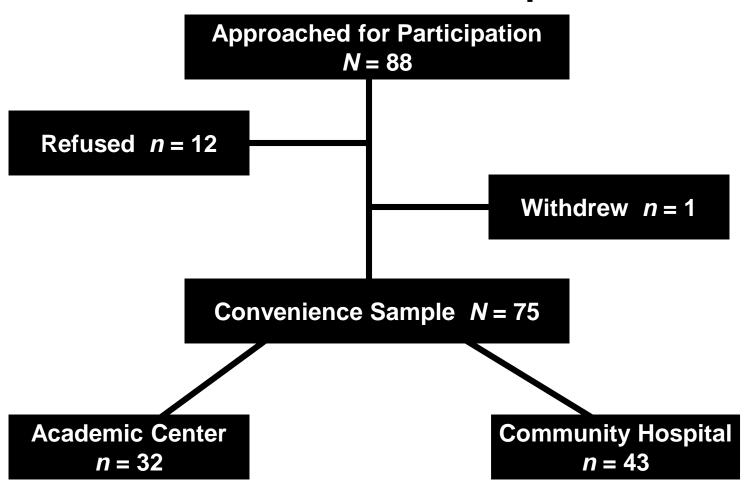
Inclusion Criteria

- 18 years of age
- Diagnostic criteria for AMI
- Ability to speak and understand English
- AMI within 12 months of the date of data collection

Exclusion Criteria

- Failure to obtain a confirmed diagnosis of AMI
- Unable to speak and understand the English language
- A diagnosed history of psychological illness, including depression, at the time of the individual's AMI

Research Sample





Demographics

- Age
- Gender
- Race
- Ethnicity
- Relationship Status
- Employment Status
- Highest Grade Completed
- Estimated Yearly Household Income

Clinical Characteristics

- Length of Stay
- Time since AMI
- Number of previous AMIs
- Number of Co-morbidities
- CK-MB & Troponin level

Instruments

Instrument	Description	Reported Alpha	Alpha in this study
Learned Helplessness Scale (Quinless & Nelson, 1988)	20-item 4-point Likert Scale	.7194 (Flynn, 1997; Quinless,1988; Wilson, 1993)	.95
Multidimensional Scale of Perceived Social Support (Zimet, Dahlem, Zimet, & Farley, 1988)	12-item 7-point Likert Scale	.8588 (Chou, 2000; Zimet et al., 1988)	.93
Cardiac Self Efficacy Scale (Sullivan, LaCroix, Russo, & Katon, 1998)	13-item 5 point Likert Scale	.8090 (Sarka, 2007: Sullivan, 1998)	.93

Results

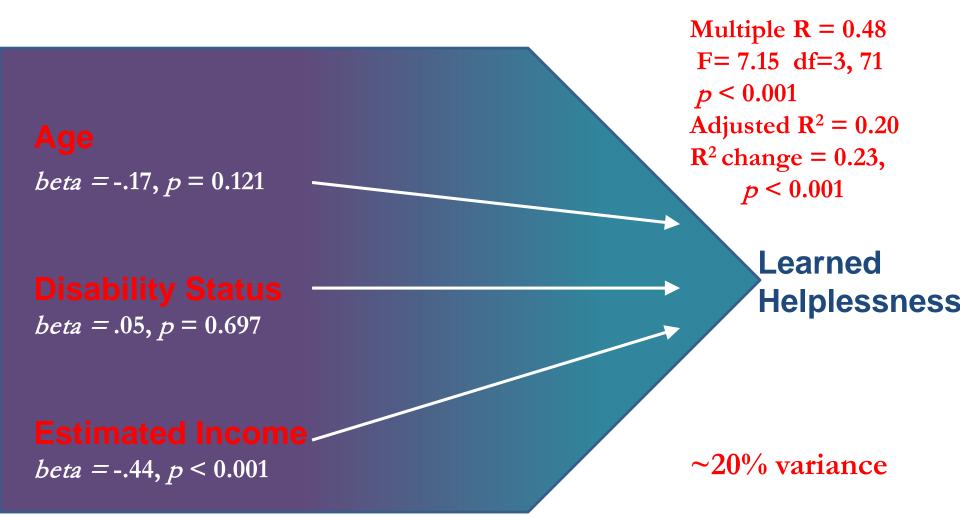
- Descriptive statistics
 - Predominately married Caucasian males
 - 58.8 years old
 - High school educated
 - Employed
 - \$40,000 or less

Correlations with Learned Helplessness

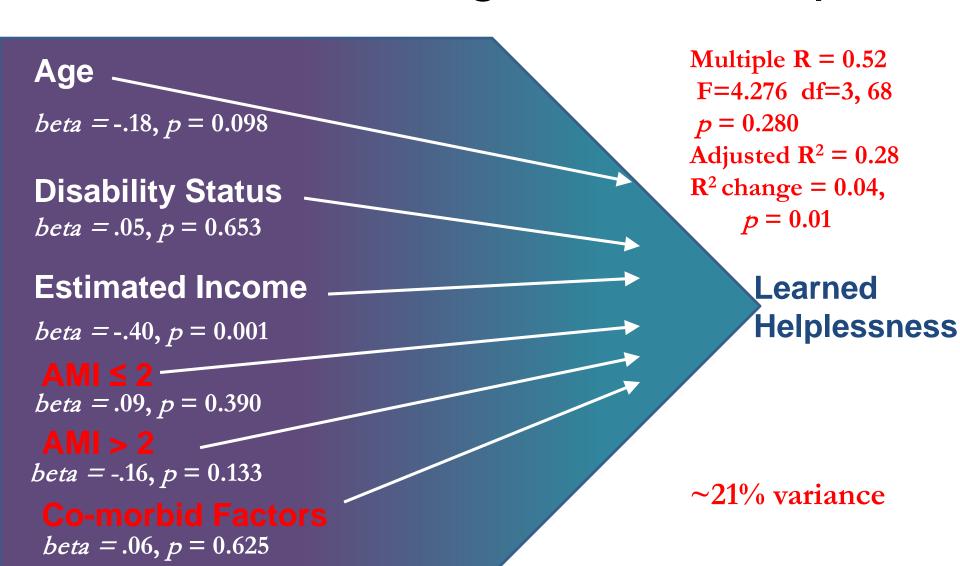
Variables	LHS
Age (years)	17 (.155)
Gender	12 (.302)
Education	34 (.003)
Comorbidities	.13 (.280)
One Previous AMI	14 (.230)
Two Previous AMI	.23 (.049)
Greater Than Two Previous AMI	13 (.265)
Disability Status	.22 (.055)
Estimated Yearly Household Income	44 (<.001)
MSPSS	48 (<.001)
CSE	61 (<.001)



Hierarchical Regression-Step 1



Hierarchical Regression-Step 2



Hierarchical Regression-Step 3

Age

beta = -.049,
$$p = 0.633$$

Disability Status beta = .01, p = 0.859

Estimated Income

beta = -.16, p = 0.146

AMI ≤ 2

beta = .10, p = 0.283

AMI > 2

 $\overline{beta} = -.13, p = 0.156$

Co-morbid Factors

beta = -.06, p = 0.539

beta = -.21, p = 0.055

beta = -.39, p = 0.001

Multiple R = 0.69F= 12.84 df=8, 66 p < 0.001Adjusted $R^2 = 0.41$ R^2 change = 0.20, p < 0.001

> Learned Helplessness

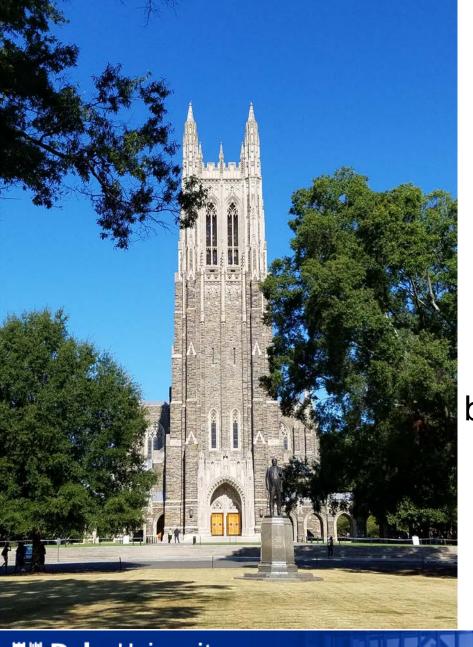
~41% variance

Discussion

- Benefit to ameliorating learned helplessness in AMI patients
- Role played by social support
 - How to impact this concept
- Role played by self-efficacy
 - How to impact this concept

Conclusion

- Social support and self-efficacy are correlated with learned helplessness in patients post AMI
- Attention placed at discharge in identifying social support system prior to discharge
- Help patients develop an empowerment plan to combat self-efficacy



Questions??

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