A Model of Health for Family Caregivers

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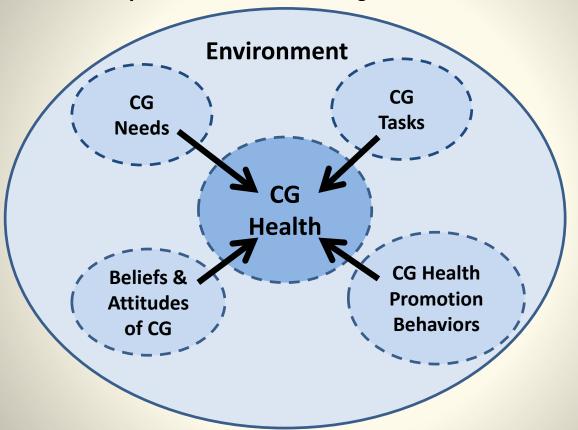


Health

 "a complete state of physical, mental and social well-being, and not merely the absence of disease or infirmity." World Health Organization (WHO) (1946)

Purpose

The purpose of the study was to examine the caregiver health model CGHM



- The first aim was to identify which health determinant contributed to the caregiver health status.
- The second aim was to determine if there were changes in the Caregivers health status and what they were over 16 weeks.

Determinants of Health

- Health Promotion: What does the caregiver do to stay healthy
- Attitudes and Beliefs: Why does the caregiver provide care for the care recipient
- Tasks: What does the caregiver do for the care recipient
- Needs: What does the caregiver need help with

Instruments

- Health: Promis Global Health Instrument
- Health Promotion: Walker's Health
 Promoting Lifestyle Profile II
- Attitudes and Beliefs: Kozloski's Caregivers'
 Beliefs and Attitudes
- Tasks: Oberst's Caregiving Burden Scale
- Needs: Hileman's Home Caregiving Needs
 Survey

Procedure

- Mail Survey
 - Stamped self addressed return envelope
 - Separate color for each time point
- Three time points
 - Time 1: Consent
 - Time 2: 8 weeks
 - Time 3: 16 weeks

Recruitment & Retention

Recruitment

- Word of mouth
- Health Care & Elder Care Providers
- Newspaper & Media

Retention

Number Enrolled	Time 1 Completed	The state of the s	Time 3 Completed from time 2		Completed study consent to time 3
90	75/90=83.3%	66/75=88%		62/75=82.6%	62/90=68.8%

Participants

	Male n=11	Female n=64
Age	M=68 (24-86)	M=54 (38-77)
Number of hours of care provided per week	M=130 (30-168)	M=95 (3-168)
Number of Activities of Daily Living (ADL) provided	M=2.55 (0-5)	M=3 (0-5)
Number of Independent Activities of Daily Living (IADL) provided	M=6.55 (4-8)	M=9.48 (4-8)
Total number of ADL/IADL provided	M=9.09 (5-13)	m-9.48 (4-13)
Length of time caregiving	M=6 years (3	M=5 years (2.5
	months-20 years)	months-30 years)
Number of Care recipients with medical diagnosis Alzheimers/Dementia	6 (54.5%)	30 (46.8%)
	5 (45.4%)	40 /7E0/\
Number of caregivers with chronic health	3 (43.4%)	48 (75%)
condition (DM, CVD, Respiratory or		
musculoskeletal problems)		

Analysis: Regression

- Step-wise backwards elimination method
 - Each Time Point: time 1, time 2, time 3
 - Each Health Measure: physical, mental
 - 11 measures
- Generalized Linear Regression, generalized estimating equations
 - All time points
 - Each Health Measure: physical, mental
 - 12 measures (11 + time)

Model Measures by Determinant

Measure

- HPLP
- Affection
- Obligation
- Spirituality
- Value
- Demand
- Difficulty
- Energy
- Hope
- Rest
- Stress

Determinant

- Health Promotion
- Attitudes and Beliefs
- Tasks
- Needs

Predictors associated with Physical and Mental Health by Time

_	Beta					
Item	Time 1		Time 2		Time 3	
	PH	МН	PH	МН	PH	МН
HPLP	793***	485***	554***	486**	518**	488**
Demand						.026
Difficulty				.012*		
Affection				043**		
Spirituality		072**	053*			
Energy			.011*		.016*	
Норе	.011**		.011*	.013**		
Rest		.019**		.013**		
Stress		.022***				.026***

Predictors associated with Physical Health in Longitudinal Analysis

		95% Wald Conf	Sig.	
Parameter	Beta	Lower	Upper	Jig.
(Intercept)	1.592	1.253	1.931	.000
[time=1 baseline]	132	199	064	.000***
[time=2 8 weeks]	.003	055	.060	.928
[time=3 16 weeks]	0 ^a			•
HPLP	258	340	177	.000***
Demand	004	007	001	.008**
Difficulty	.003	.000	.006	.080*
affection	.006	003	.015	.167
obligation	007	015	.001	.069*
value	.006	003	.014	.169
spirituality	017	038	.004	.112
energy	.004	.002	.005	.000***
rest	002	005	.000	.061
hope	.003	7.946E-5	.005	.043**
stress	.002	001	.005	.117
(Scale)	.047			

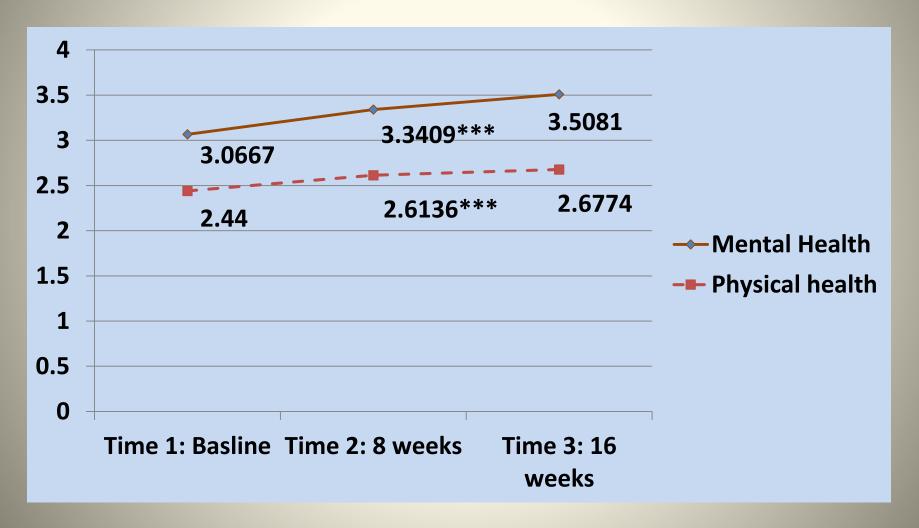
Significance ,.100*, < .05**, < .000***

Predictors associated with Mental Health in Longitudinal Analysis

		95% Wald Conf		
Parameter	В	Lower	Upper	Sig.
(Intercept)	1.530	1.241	1.818	.000
[time=1 baseline]	120	174	066	.000***
[time=2 8 weeks]	015	058	.027	.487
[time=3 16 weeks]	0 ^a			•
HPLP	177	274	081	.000***
Demand	001	004	.003	.740
Difficulty	.003	.000	.007	.070*
affection	004	010	.002	.226
obligation	002	009	.005	.526
value	.003	004	.009	.441
spirituality	012	028	.005	.171
energy	.000	003	.002	.786
rest	.001	001	.003	.168
hope	.002	.000	.004	.019***
stress	.004	.002	.007	.000***
(Scale)	.035			

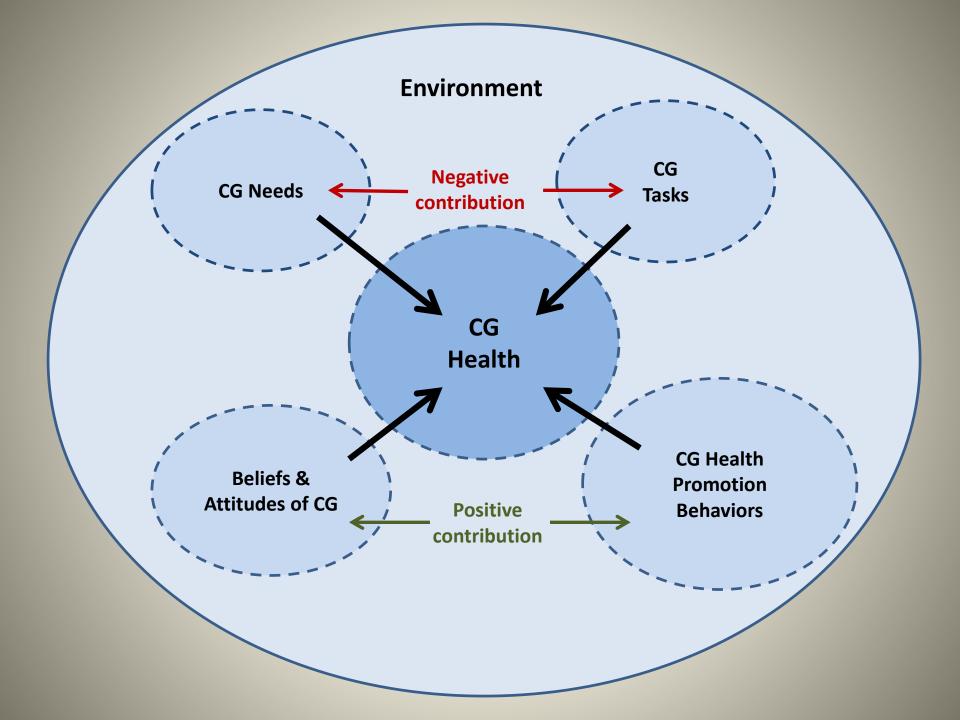
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Mental and Physical Health Change over Time



Discussion

- Mental and Physical Health Change at 8 weeks
- Health Promotion positive contribution
- Attitudes and Beliefs positive contribution
- Needs negative contribution
- Tasks negative contribution



Practice Implications

- Change in Health
- Recruiting Caregivers
- Holistic View of Health vs Disease
- Spiritual Contribution to health
- Health Promotion and health prevention

Future Directions

- Extending Caregiver Health Model
 - Non Family Caregivers Certified Nursing Assistants
- Practice Implications
 - Attitudes and Beliefs:
 - Spirituality, affection, and obligation
 - Health Promotion
 - Identify specific health promotion measures
- Environment of Care
 - Geographic areas
 - Urban Areas
 - States
 - Regions

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