# Caregivership Research and Practice: Quality of Life of Couples Dealing with Cancer

Youngmee Kim, PhD



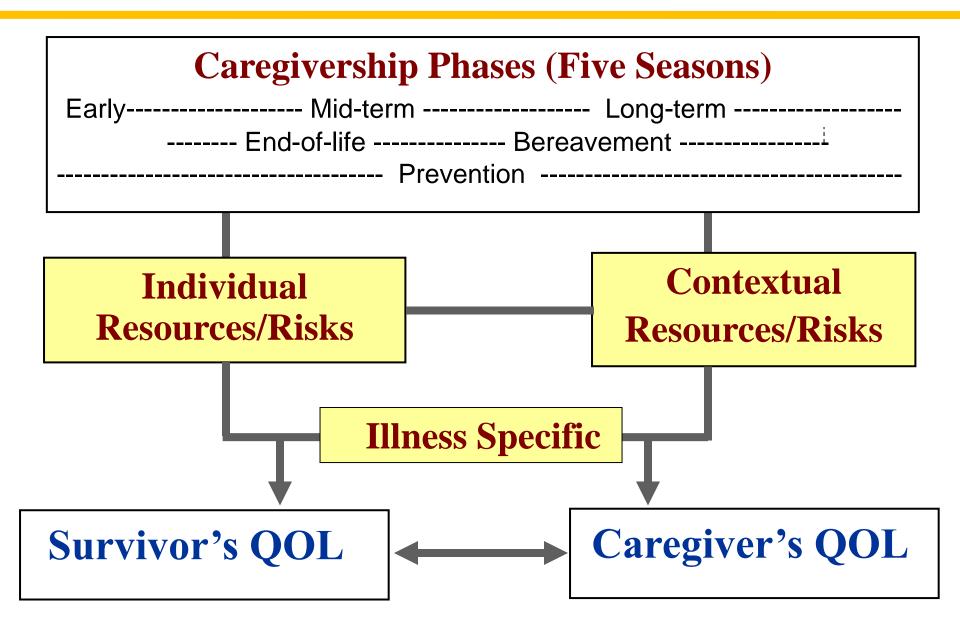
Facilitating Adjustment to Medical Illness in Your Family

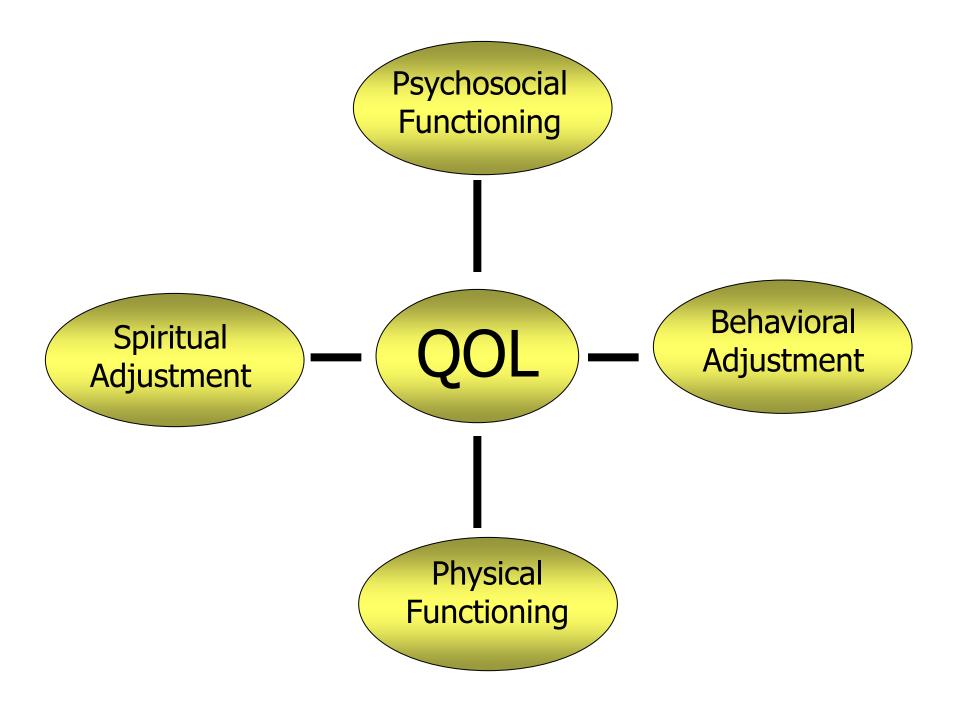
# Quality of Life among Cancer Caregivers

#### **Faces of Cancer Caregivers**

- 7% of 43.5 million adult caregivers
- Females (60%); Mid-aged (55 years old); Spouse (66%)
- Provide complex care at home:
   Around dx and tx: In between: End-of-life
- Cancer in the family comes as a surprise unprepared
- Greater emotional distress, poorer mental and physical health

#### **Caregivership Model**





# Psychosocial Predictors of Caregivers' QOL

#### **Predictors of Caregivers' QOL**

	Caregivershi	n Phases (Five S	Seasons)					
*	<b>Individual Factors: Der</b>	mographics	ng-term					
		Bereaveme	ent					
		Prevention						
	• Factors studied: Age							
	Individual	Gender	Contextual					

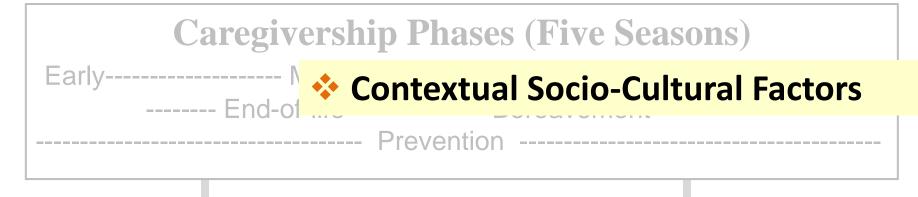
Individual Resources/Risks

Gender
Education
Income
Spouse

Contextual sources/Risks

- Younger <u>age</u> related to poorer psychological and spiritual adjustment, and poorer mental health
- Older age related to poorer physical health

#### **Predictors of Caregivers' QOL**

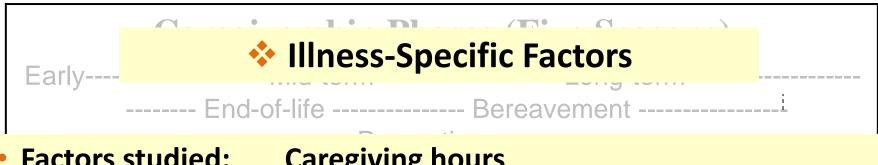


Factors studied: Ethnicity
 Employed
 Social Support

Contextual Resources/Risks

- Social support related to better psychological and spiritual adjustment, and greater mental health
- Employment related to greater physical health

#### **Predictors of Caregivers' QOL**



**Caregiving hours Factors studied:** 

**Perceived caregiving stress** 

Caregiver esteem

Patients' mental & physical functioning

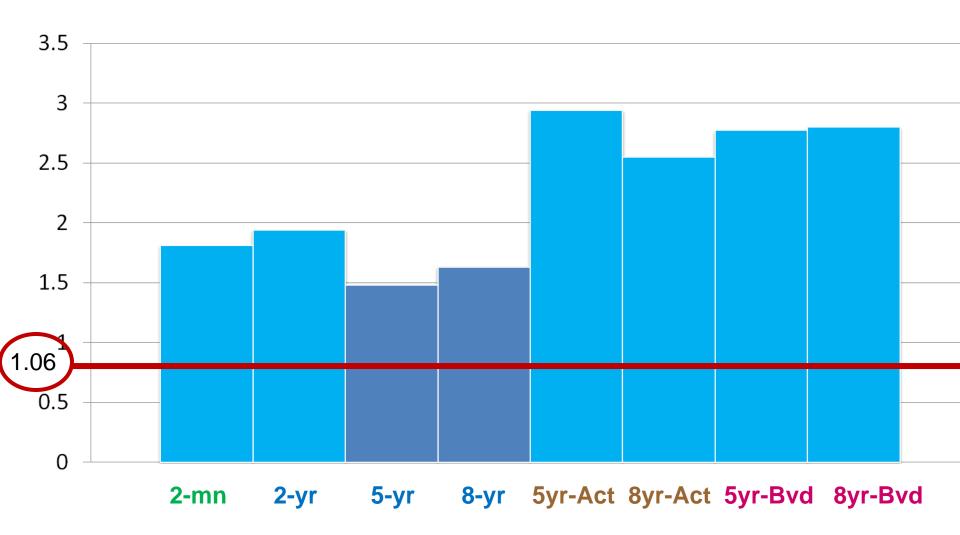
INCOUNT CCS/INDINS

**Illness Specific** 

 Perceived/Subjective <u>caregiving stress</u> related to poorer psychological and spiritual adjustment, and poorer mental and physical health

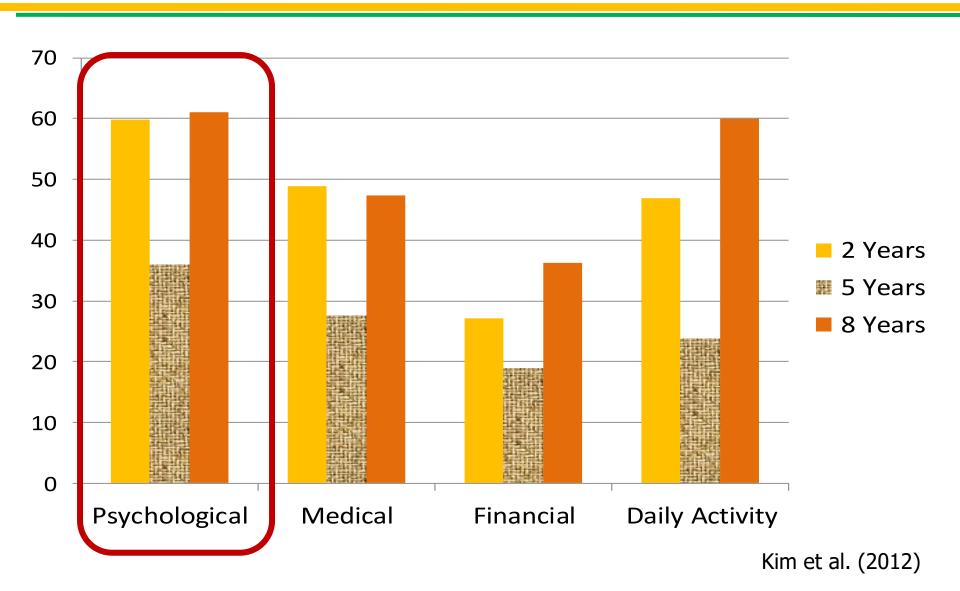
### Additive & Synergistic Effects of Psychosocial Predictors

#### **Caregiver Psychological Distress (POMS-SF)**



Reference score: McNair & Neuchert (2005).

#### % Reported Unmet Needs of Caregivers



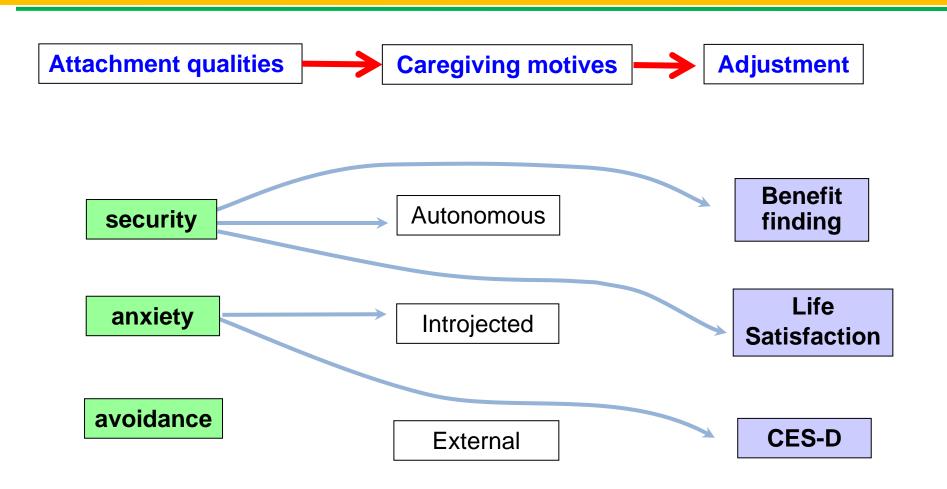
#### **Prevalence of Clinical Levels of Depressive Symptoms**

		Former CG		Current CG		Bereaved	
		5 years post-dx					
		Depsd	Nondepsd	Depsd	Nondepsd	Depsd	Nondepsd
2 years post-dx:	Depressed	10.9%	10.0%	17.6%	12.2%	32.7%	17.3%
non- bereaved	Nondepsd	7.8%	71.3%	22.1%	52.9%	17.3%	32.7%

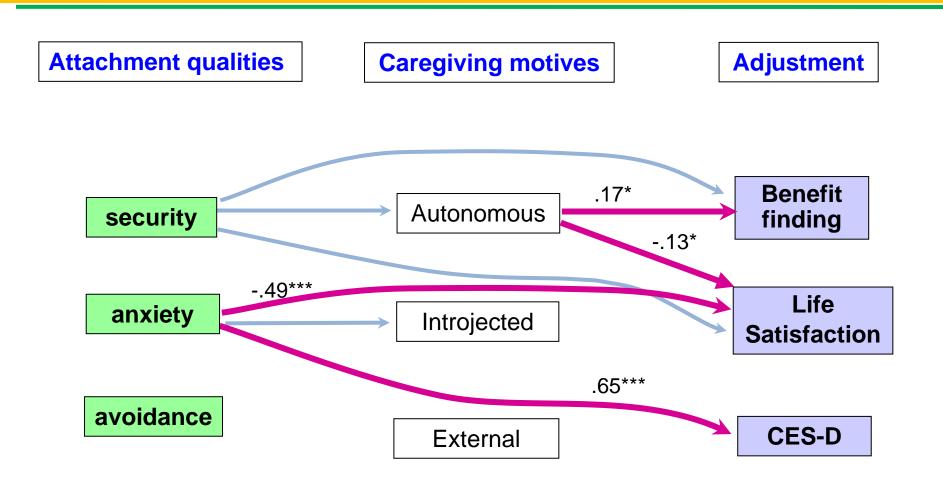
FCR = Former Caregivers-Remission (N = 230); CC = Current Caregivers (N = 68); FCB = Former Caregivers-Bereaved (N = 52)

Kim, Carver, Shaffer, & Cannady (2014).

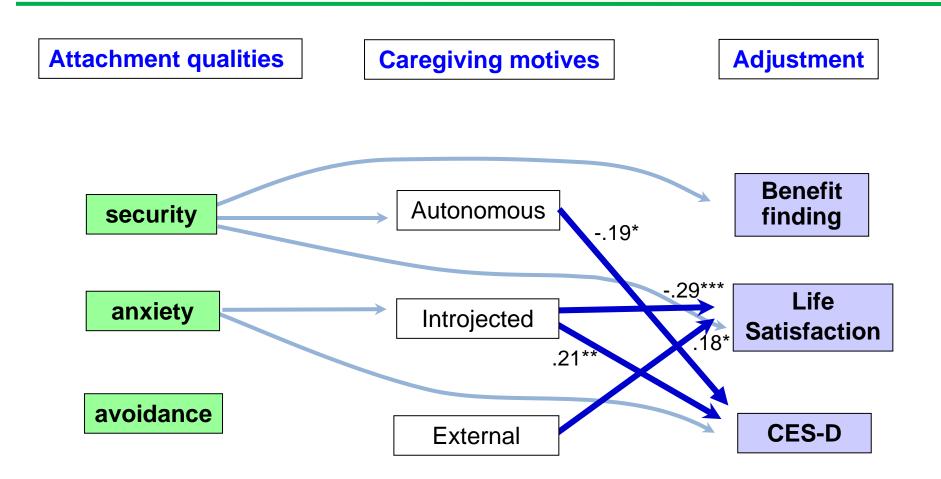
#### **Attachment & Self-Determination Theories**



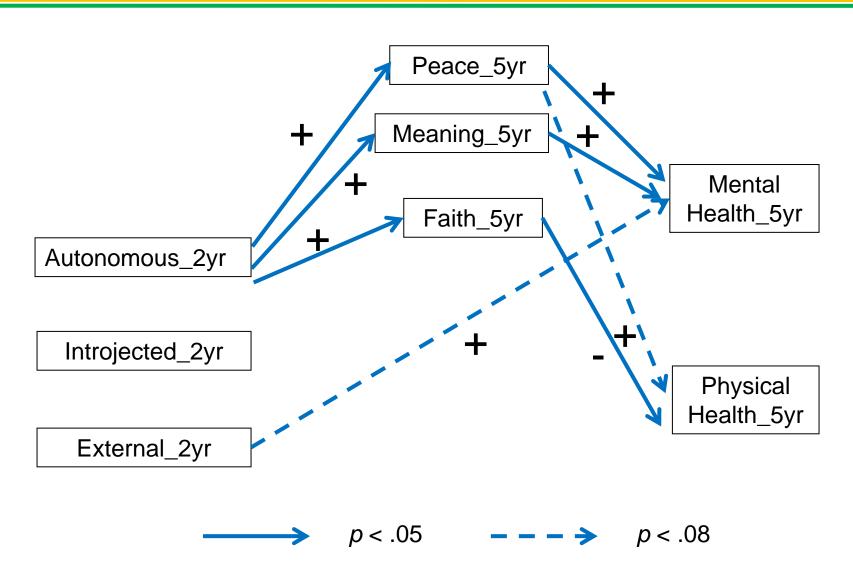
#### Wives



#### Husbands



#### Male Caregivers QOL at 5 years Post-Dx



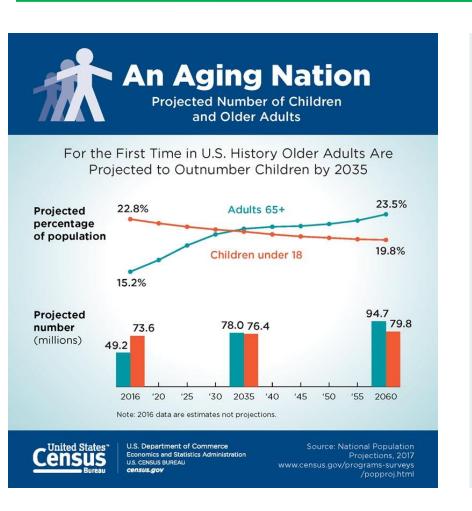
Kim, Carver, & Cannady (2015).

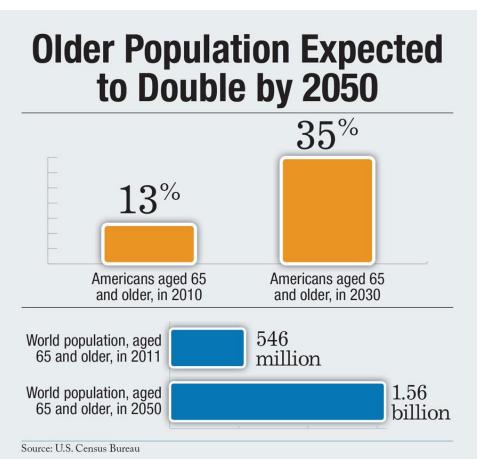
### Gender in Psycho-Oncology

YOUNGMEE KIM
MATTHEW J. LOSCALZO

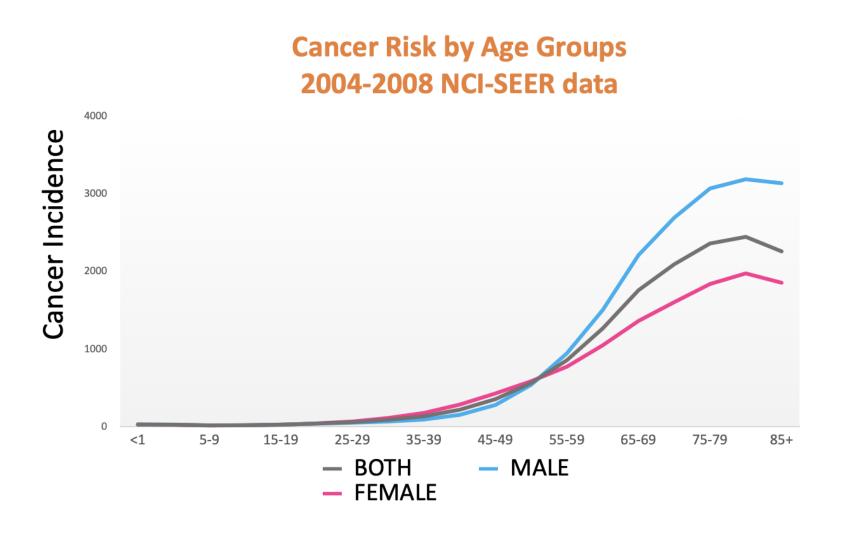
**OXFORD** 

#### **An Aging Globe**





#### **Cancer Risk & Aging**



#### **Physical Health of Caregivers**

- Compared with non-caregivers, dementia caregivers had
  - 9% greater risk of health problems
  - ✓ 23% higher level of stress hormones
  - √ 15% poorer antibody production
  - √ 63% higher mortality
- Spouses of cancer patients increase the risks of coronary heart disease (CHD) and stroke by 13 to 29% up to 20 years after their spouse's cancer diagnosis, compared with a matched control

Pinquart & Sörensen, 2003; Vitaliano et al. (2003).

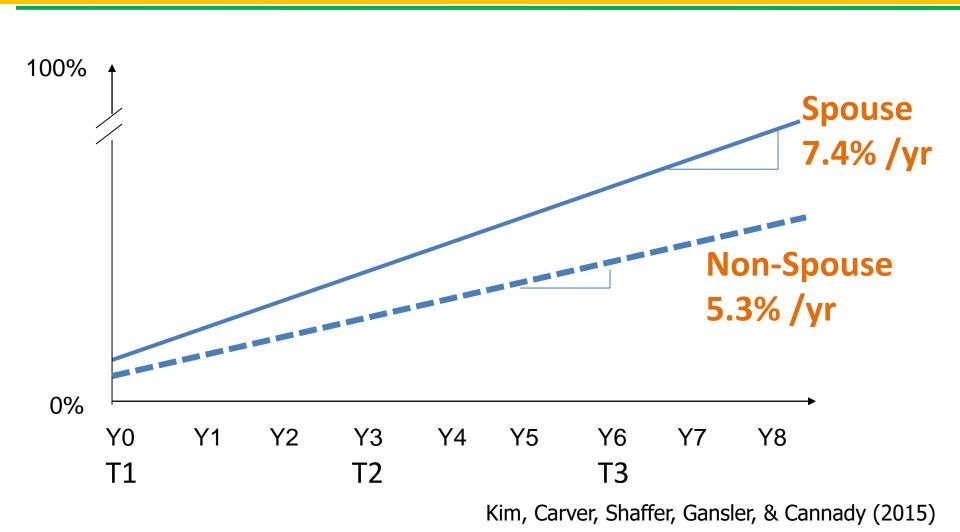
Ji, Zöller, Sundquist, & Sunquist (2012); Schneiderman, Kim, & Shaffer (2012)

#### **Predictors of Disability Markers**

	Arthritis		Chronic Back Pain		Heart Diseases	
	Exp(B)	p <	Exp(B)	p <	Exp(B)	p <
Age	1.05	.0001	1.02	.004	1.05	.0001
Female Gender	1.41	.01	0.88	.47	0.71	.01
Education	1.03	.83	0.65	.01	0.80	.14
Income	0.68	.003	0.68	.02	1.11	.45
Spouse	0.84	.22	0.86	.39	0.75	.05
Obj Cg Stress	1.27	.39	0.89	.72	0.61	.06
Sub Cg Stress	1.31	.006	1.59	.0001	1.23	.05

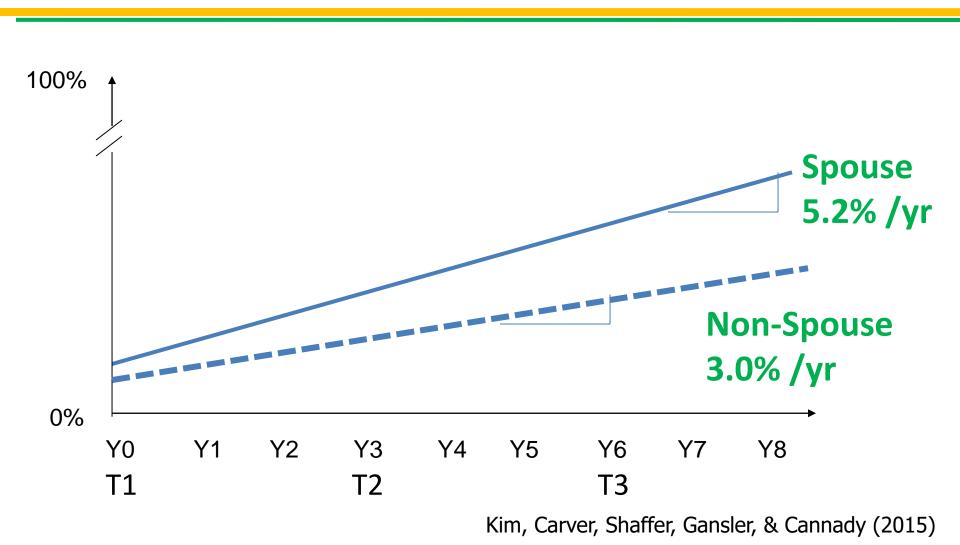
#### **Predictors of Disability Markers: Person x Time**

Spousal Caregivers x Time Effect on Development of Arthritis



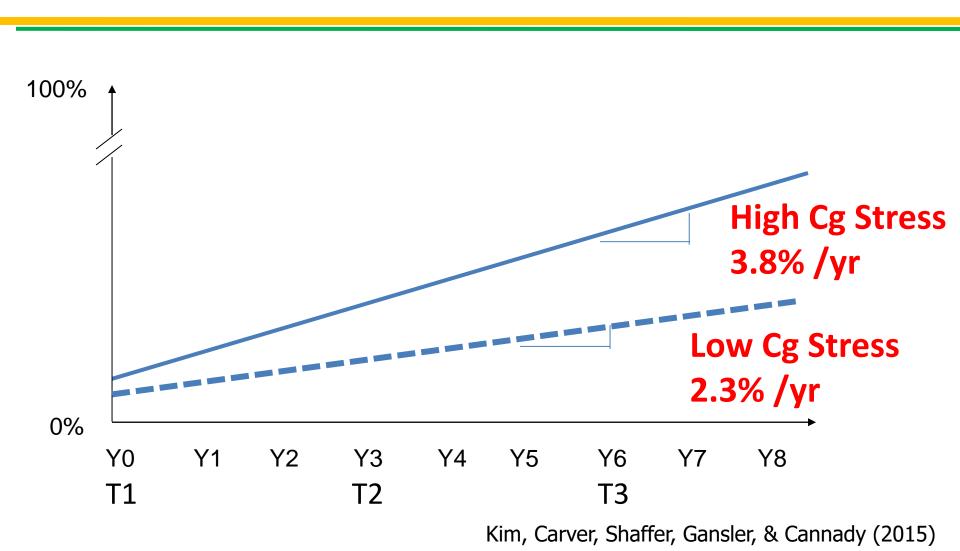
#### **Predictors of Disability Markers: Person x Time**

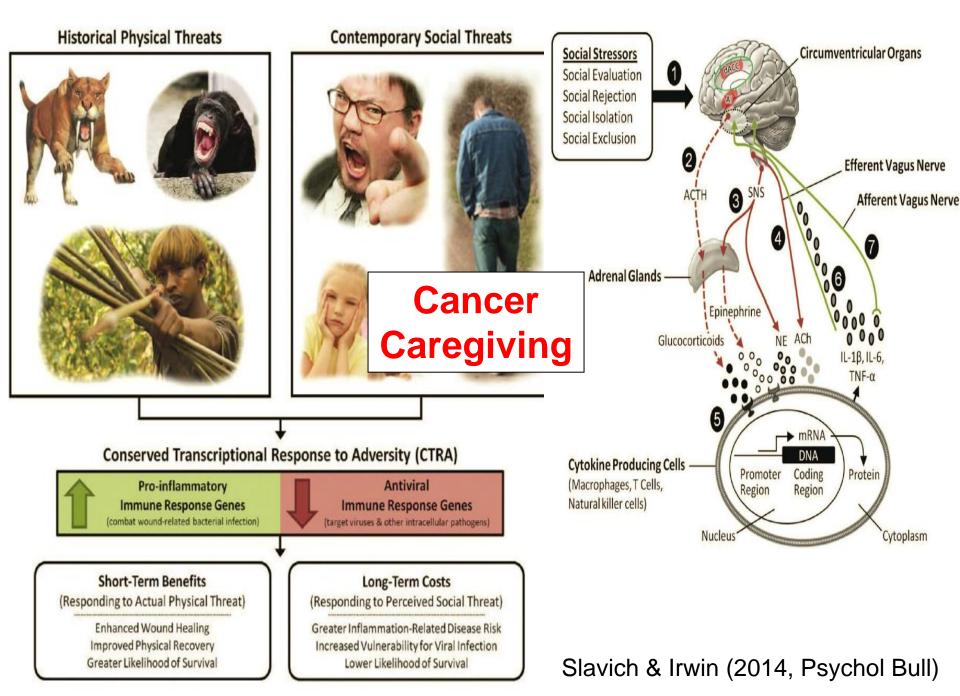
Spousal Caregivers x Time Effect on Development of **Back Pain** 



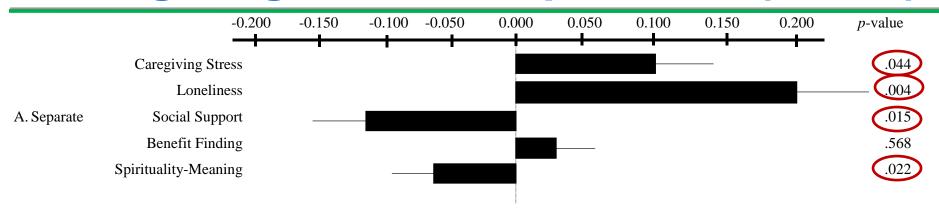
#### **Predictors of Disability Markers: Person x Time**

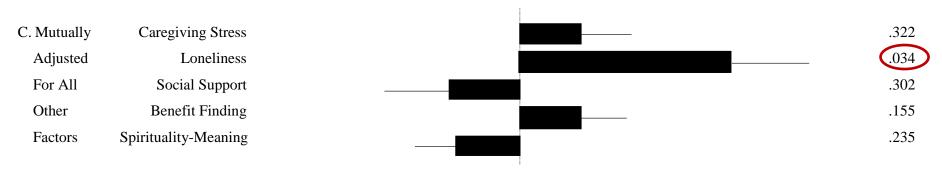
Sub. Cg Stress x Time Effect on Development of Heart Diseases





#### **Caregiving & Gene Expression (CTRA)**



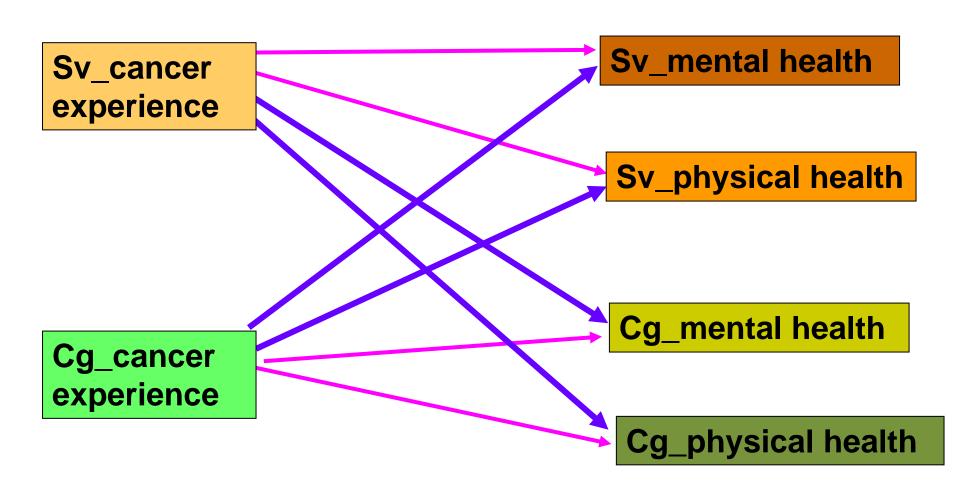


Note. Data represent strengths of associations (B±SE) of indicated predictors with the 44-gene CTRA indicator contrast in (A) separate analyses of individual stress- and meaning-oriented psychological factors, (B) mutually adjusted analyses within stress- and meaning-oriented psychological factors, in which each factor was adjusted for covariance with the other, controlling for covariates (assessment timepoint, age, gender, ethnicity, BMI, and patients' cancer stage).

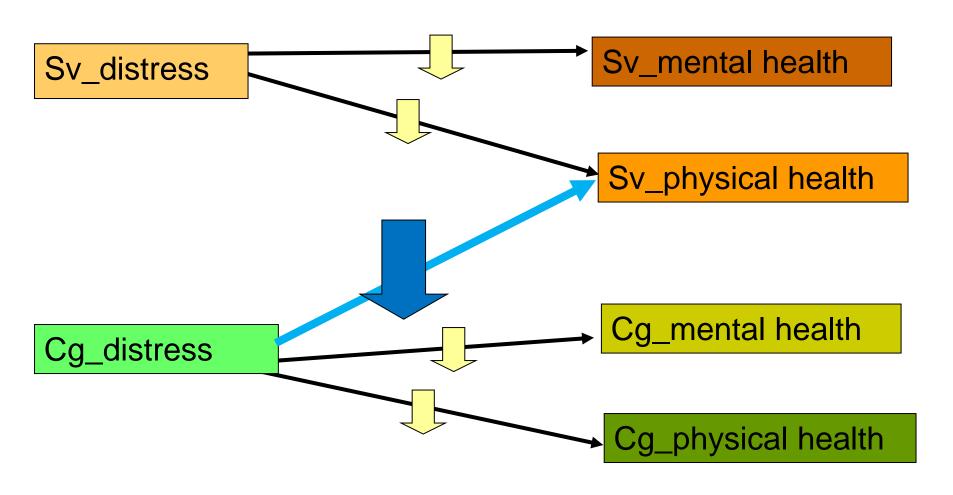
Kim, Cole, Carver, Antoni, & Penedo (2021)

#### **Illness in the Relationship Context**

#### **Individual & Dyadic Effects**



#### **Distress & QOL: Prostate Cancer**



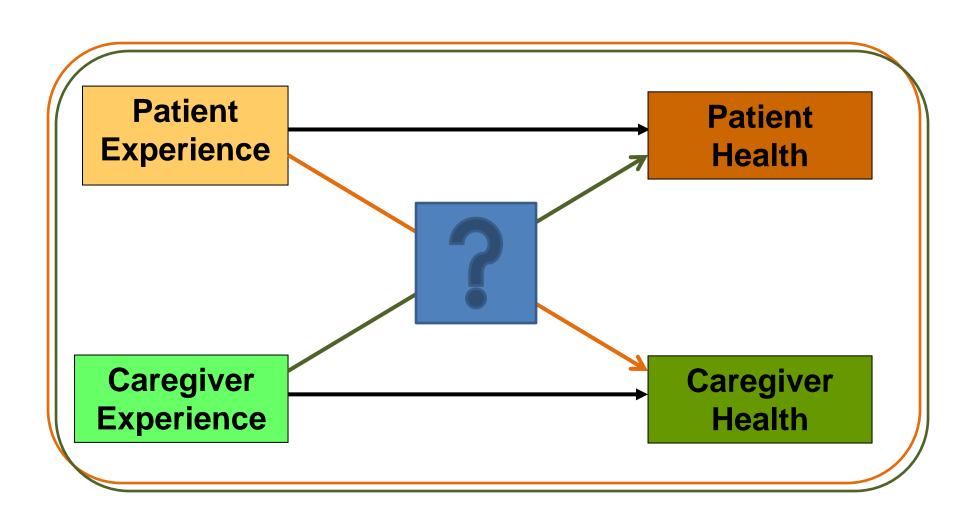
N = 168 dyads

Kim, Kashy, Wellisch, et al. (2008)

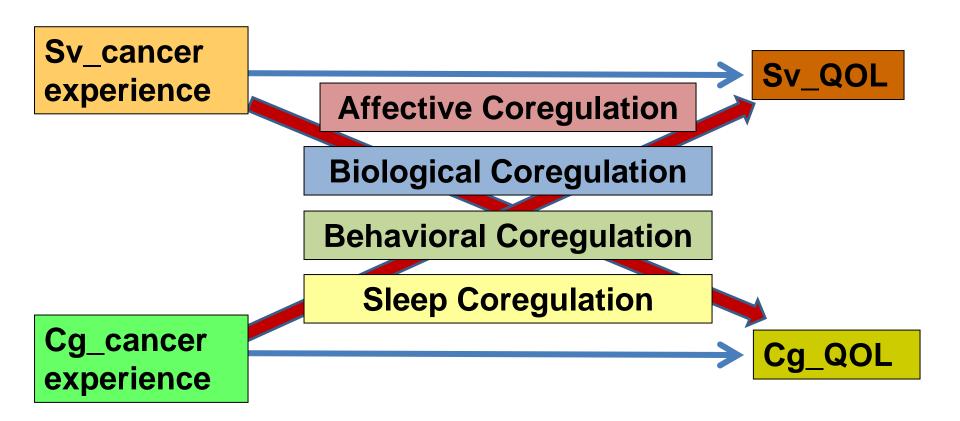
#### **Individual & Dyadic Effects of Cancer**

- Psychological distress on QOL: Spouses Mothers & Daughters
- Depression on QOL: Genders
- Depression on Biomarkers
- Fear of recurrence on QOL
- Spirituality on QOL
- Social support on QOL
- Health lifestyle behaviors on QOL
- Stress on Health lifestyle behaviors

#### **Individual & Dyadic Effects**



#### Mechanisms of Dyadic Effects



#### **How to Improve**

#### **Cancer Caregiver Interventions**

✓ Meta-analysis and Systematic reviews of interventions with cancer caregivers of adult patients (Northouse et al., 2010; Applebaum & Breitbart, 2013; Waldron, Janke et al., 2013; Griffin et al., 2014; Li & Loke, 2014; Kaltenbaugh et al., 2015; Ferrell & Wittenberg, 2017; Ugalde et al., 2019)

Various Types (Applebaum & Breitbart, 2012)

Psychoeducation Problem-solving/skill building

Supportive therapy Family/couple therapy

Cognitive-behavioral therapy Interpersonal therapy

Complementary and alternative medicine Existential therapy

- Effect Sizes
  - → Small but maybe beneficial

#### **Dyadic Interventions**

- ✓ Meta-analysis (Hu et al., 2019)
  - 23 RCTs of dyadic intervention effects on patients' outcomes
  - Improved overall QOL; spirituality; emotional, mental and social adjustment; relatedness, marital functioning.
  - At 3-6 month follow-up, improved social adjustment and depression.
  - No effects on functional and physical aspects, hopelessness, pain, fatigue, and survival.

#### **Dyadic Interventions**

- ✓ Web-based/eHealth dyadic intervention review (Luo et al., 2020; Shaffer et al., 2020; Chen et al., 2022)
  - 17, 52, and 13 interventions, respectively
  - Information support, communication, psychoeducation, self-management skills, social support
  - Small to large effects on psychological, physical, and overall QOL, and relationship
  - Few studies evaluating unique effects of dyadic, as opposed to individual interventions, none for older adult dyads, few target/report caregiver outcomes
- ✓ State of the science statement (Badr et al., 2019)
  - Dyadic approach may improve various aspects of QOL
  - Unknown how, why, and for whom to be effective