2018 28-30 JUNE VIENNA ANNUAL MEETING SUPPORTIVE CARE IN CANCER



Faculty Disclosure

X	No, nothing to disclose
	Yes, please specify:

Company Name	Honoraria/ Expenses	Consulting/ Advisory Board	Funded Research	Royalties/ Patent	Stock Options	Ownership/ Equity Position	Employee	Other (please specify)

Challenging Communication in Oncology: What about Carers?

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Facilitating Adjustment to Medical Illness in Your Family

June 28, 2018

Multinational Association of Supportive Care in Cancer



WHO:

Cancer Caregivers

Family Cancer Caregivers

- ✓ Who they are:
 - 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: End-of-life
 - Greater emotional distress, poorer mental and physical health

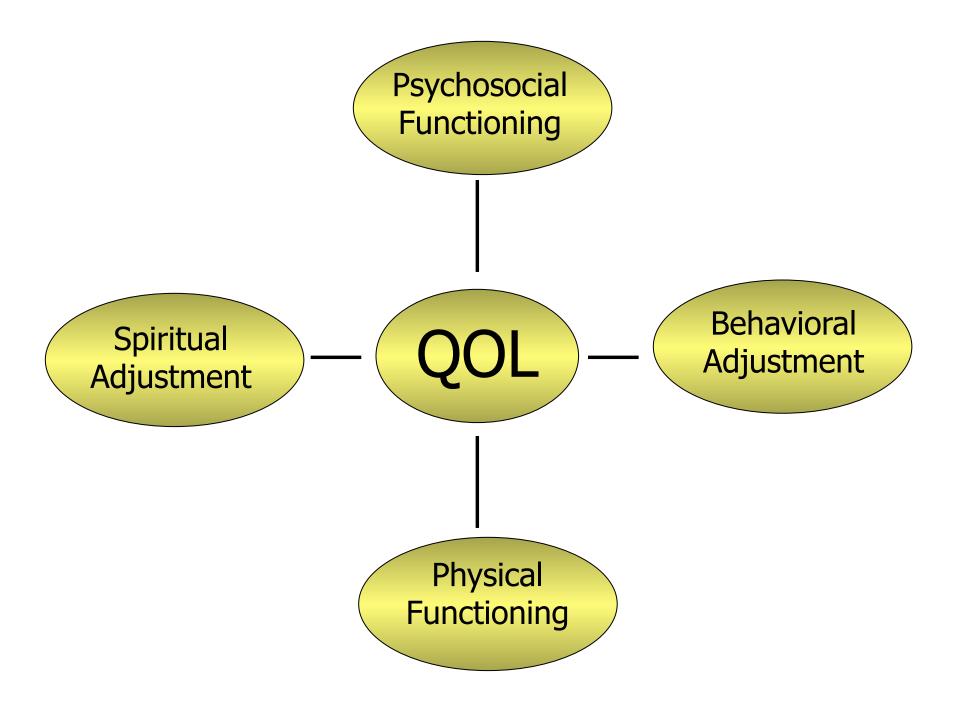
Kent et al. (2016); Kim & Schulz (2008); Kim & Spillers (2010); National Alliance for Caregiving (2015)

WHAT:

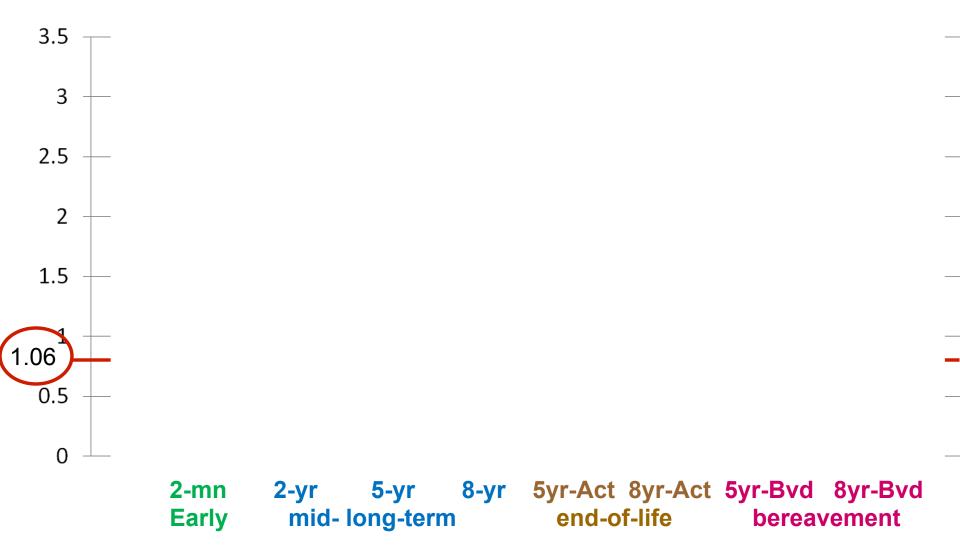
Quality of Life

among Cancer Caregivers

Caregivership Phases (Five Seasons)						
Early Mid-term Long-term						
End-of-life Bereavement						
Prevention						



SF)



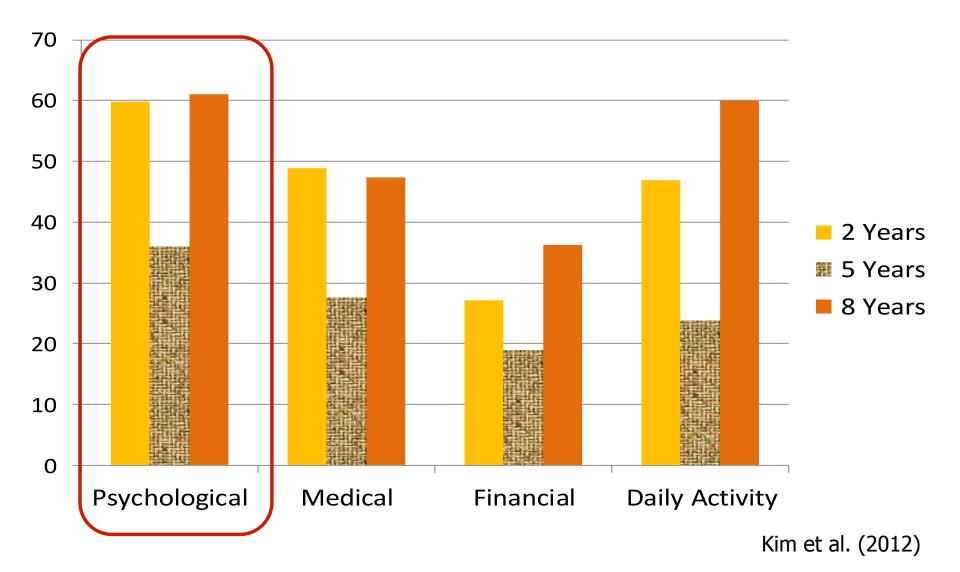
Reference score: McNair & Neuchert (2005).

Depression and Anxiety

 Depression and Anxiety in Long-term Cancer Survivors (43 studies: Mitchell et al., 2013)

- Compared with Healthy Controls:
 - -- prevalence of depression 111% higher
 - -- prevalence of anxiety 139% higher
- Compared with their Spouses:
 -- prevalence of depression & anxiety did not differ

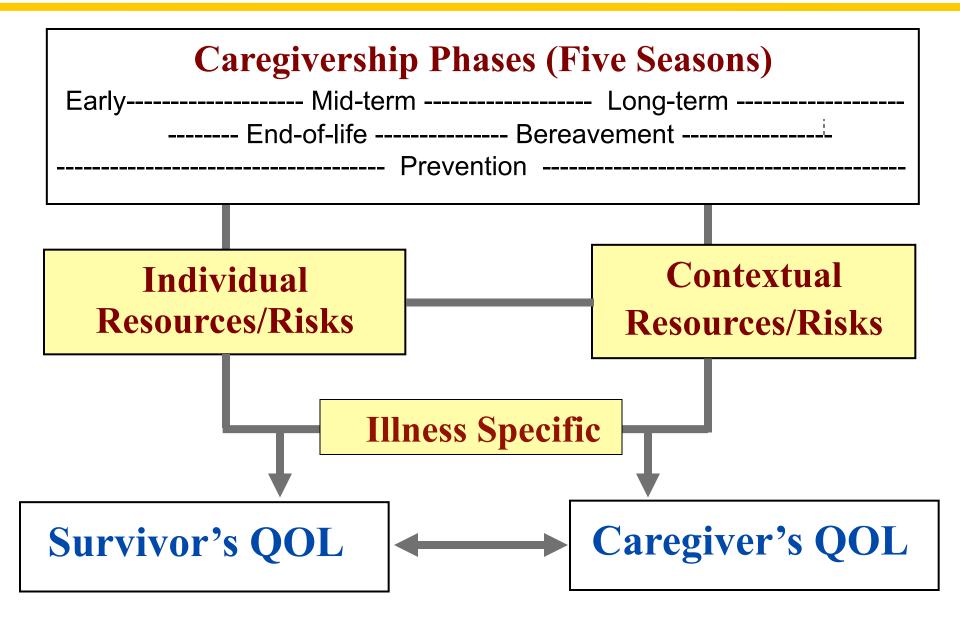
% Reported Unmet Needs of Caregivers



HOW:

Psychosocial Predictors of Caregivers' QOL

Caregivership Model



Predictors of Caregivers' QOL

Individual Factors: Demographics

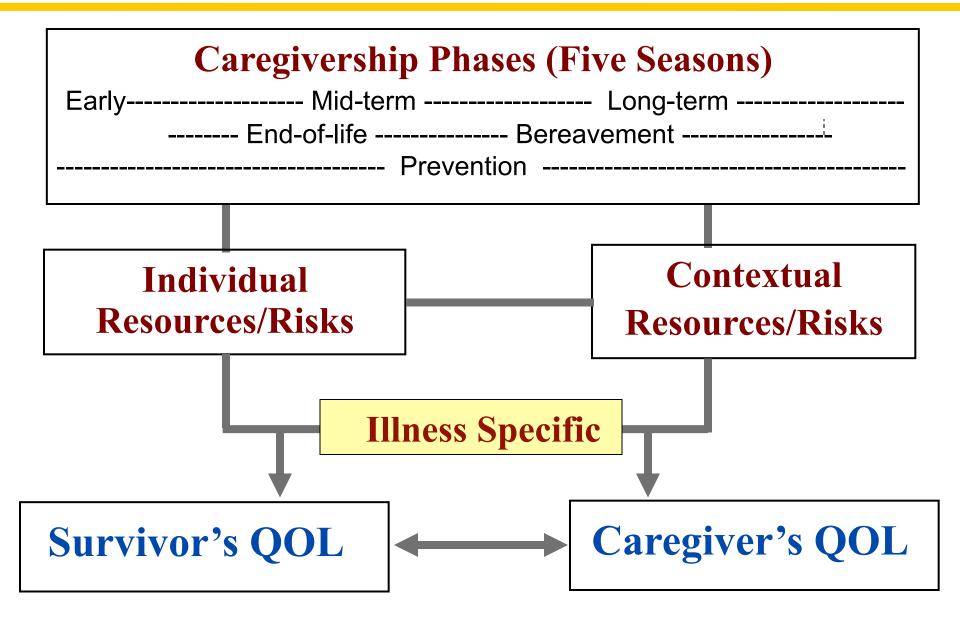
- Factors studied: Age Gender Education Income Spouse
- Younger <u>age</u> related to poorer psychological and spiritual adjustment, and poorer mental health
- Older age related to poorer physical health

Predictors of Caregivers' QOL

Contextual Socio-Cultural Factors

- Factors studied: Ethnicity Employed Social Support
- <u>Social support</u> related to better psychological and spiritual adjustment, and greater mental health
- Employment related to greater physical health

Caregivership Model



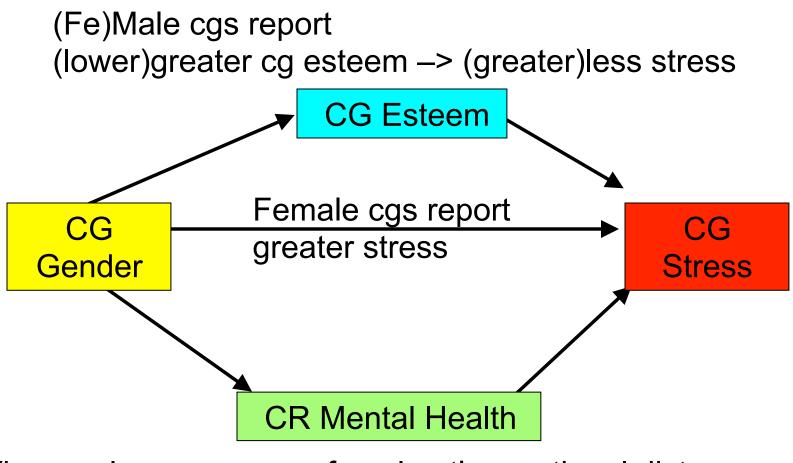
Predictors of Caregivers' QOL

Illness-Specific Factors

- Factors studied: Caregiving hours, Perceived caregiving stress, Caregiver esteem, Patients' mental & physical functioning
- Perceived/Subjective <u>caregiving stress</u> related to poorer psychological and spiritual adjustment, and poorer mental and physical health

HOW:

Additive & Synergistic Effects of Psychosocial Predictors



When male cgs manage female pt's emotional distress -> greater stress

CG = Caregiver

CR = Care-Recipient

N = 429

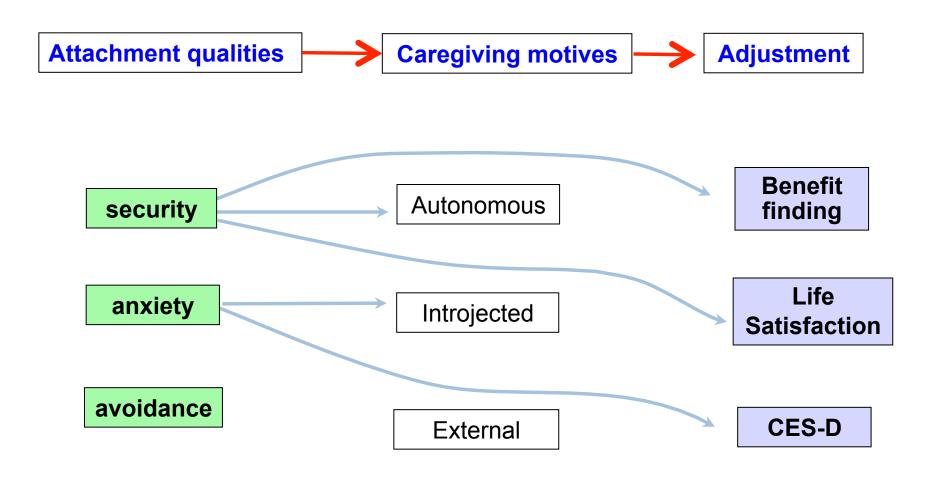
Kim, Loscalzo, Wellisch, & Spillers (2006).

Frequency in Providing Emotional Care



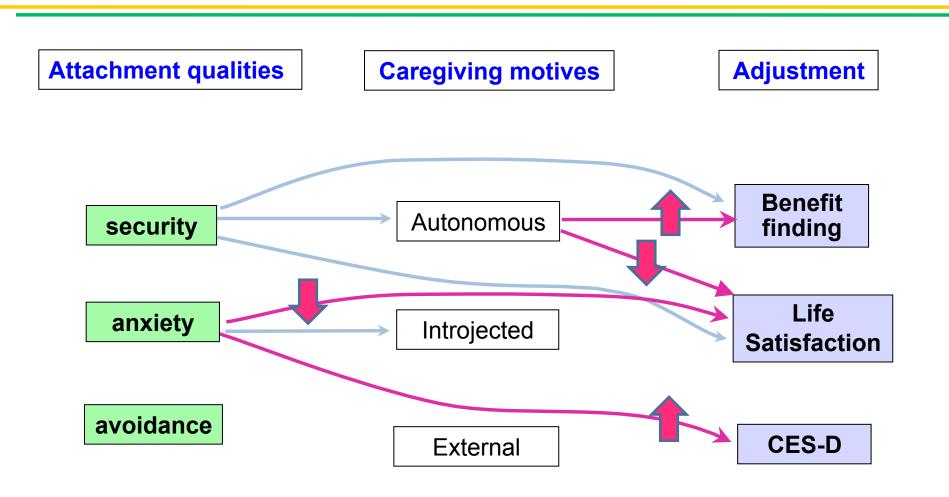
Kim & Carver (2007).

Attachment & Caregiving Motives



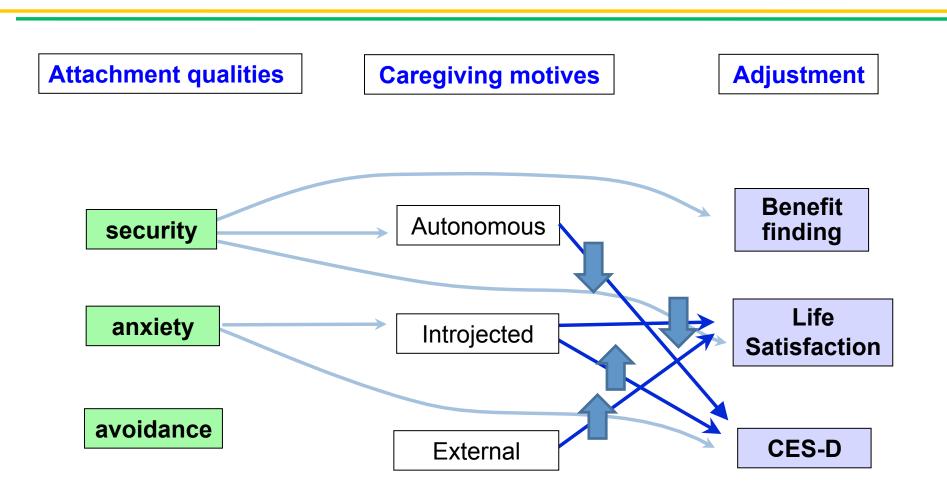
Kim, Carver, Deci, & Kasser (2008).

Wives



Kim, Carver, Deci, & Kasser (2008).

Husbands



Kim, Carver, Deci, & Kasser (2008).

Male Caregivers at 5 years Post-Dx



Autonomous_2yr

Introjected_2yr

External_2yr

Physical Health_5yr

→ p < .05



Kim, Carver, & Cannady (2013; 2015).

Gender in Psycho-Oncology

YOUNGMEE KIM MATTHEW J. LOSCALZO

OXFORD

Clinical Levels of Depressive Symptoms: Prevalence

2 years	Depressed
post-dx:	
no one	Nondepsd
was	попасрза
bereaved	

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

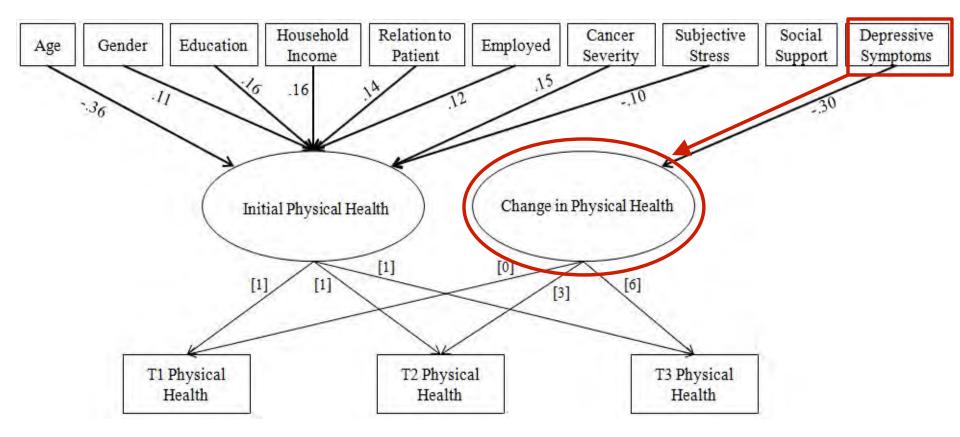
Clinical Levels of Depressive Symptoms: Prevalence

F		For	Former CG		Current CG		Bereaved	
				5 year	s 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)

Predicting Changes in Physical Health



Shaffer, Kim, Carver, & Cannady (2017a: Cancer, 2017b: Health Psychology)

Long-term Bereavement Outcomes

	3 yrs	Case	5 yrs	Case		
Prolonged Complicated Grief (ICG)	17.09	24.1%	16.74	18.2%		
Intense Emotional Reaction (TRIG)	40.20	61.3%	38.32	47.7%		
Depression (CES-D)	13.85	36.5%	7.85*	44.3%		
Life Satisfaction	4.44	1~7	4.43	1~7		

N for 3-year = 137; N for 5-year = 88 Caseness for ICG > 25; for TRIG > 37; 20-item CES-D \ge 16; 10-item CES-D \ge 8 * 10-item CES-D (0 ~ 30)

Kim, Carver, Spiegel, Mitchell, & Cannady (2017).

Long-term Bereavement Outcomes: Predictors

Prospectively at 8-year post-diagnosis

Preparedness at 5-year related to

lower ICG and TRIG at 8-year

* Medical, cognitive, affective preparedness (Hebert et al., 2009)

Kim, Carver, Spiegel, Mitchell, & Cannady (2017).

Benefit Finding

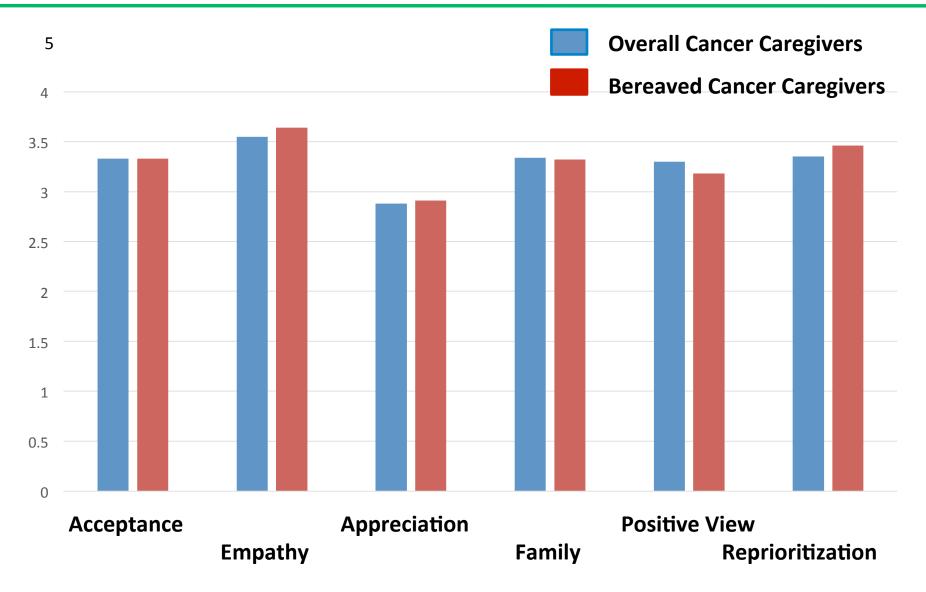
	Life Satisfaction	Depression
Overall	0.10**	0.05
Acceptance	0.14**	-0.14**
Empathy	-0.09	0.:16**
Appreciation	0.11*	-0.01
Family	0.03	0.01
Positive Self-View	0.11	-0.12*
Reprioritization	-0.16**	0.17***

Controlling for age, gender, education, income, spousal status, perceived caregiving stress, sv's mental and physical functioning, religious coping, social support

N = 896

Kim, Schulz, & Carver (2007).

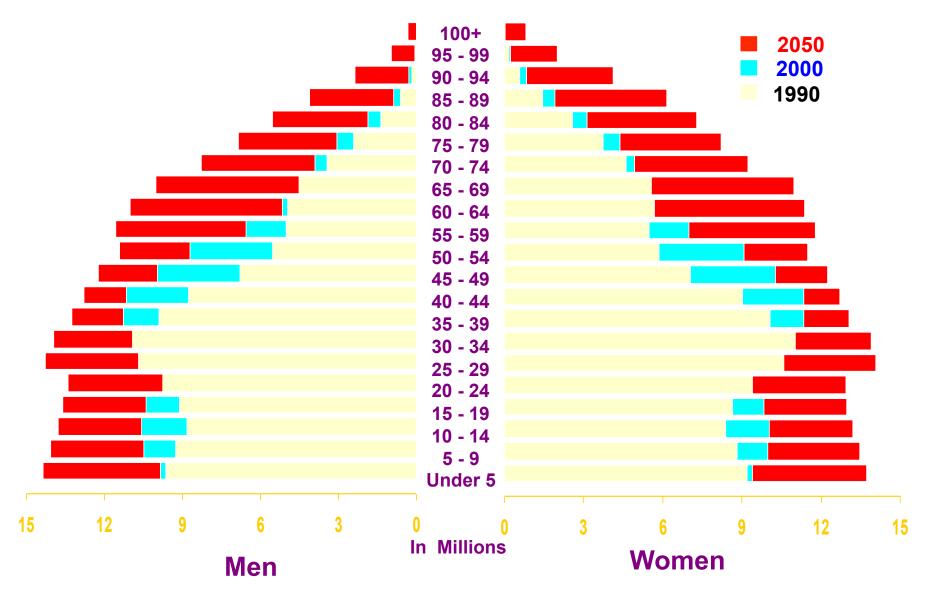
Benefit Finding in Bereavement



Kim, Schulz, & Carver (2007); Kim, Carver, Schulz, Lucette, & Cannady (2013).

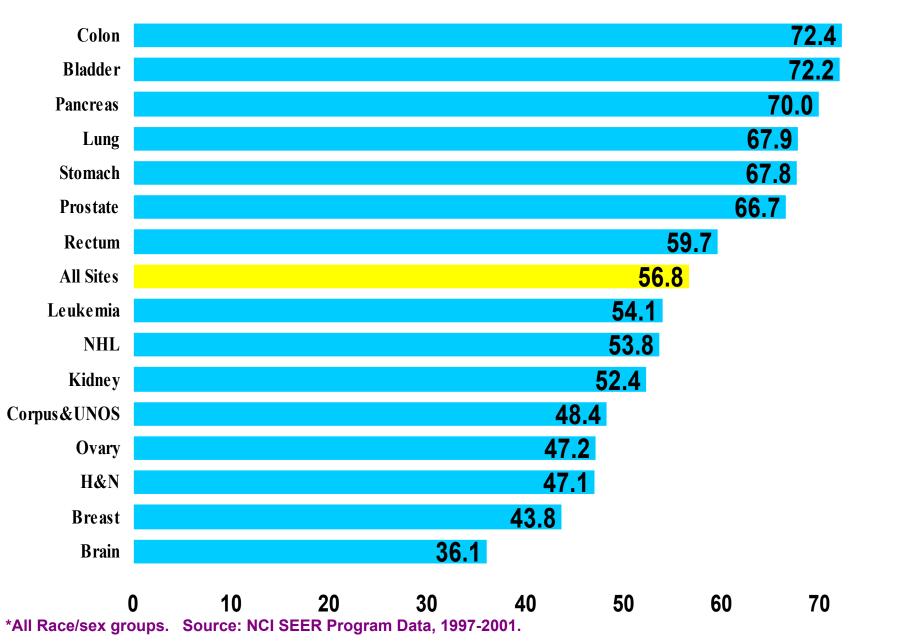
WHAT & HOW on Physical Health: Aging, Cancer, and Caregiving

Expanding U.S. Aging Population



Total US Resident Population Projections from: U.S. Census Bureau, (1) 1990 Census and (2) U.S. Interim Projections by Age, Sex, Race, and Hispanic Origin, http://www.census.gov/ipc/www/usinterimproj/, accessed on 09/15/2004.

Incidence (%) of Cancer in Patients ≥ 65*



80

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 & Sorensen, 2003; Vitaliano et al. (2003).

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

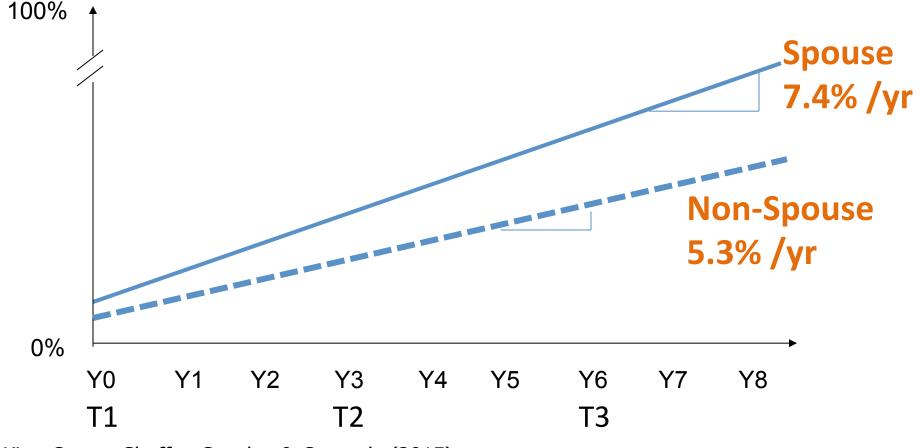
Predictors of Disability Markers:

Arthritis	Chronic Back Pain	Heart Diseases
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Kim, Carver, Shaffer, Gansler, & Cannady (2015)

Predictors of Disability Markers: Person x Time

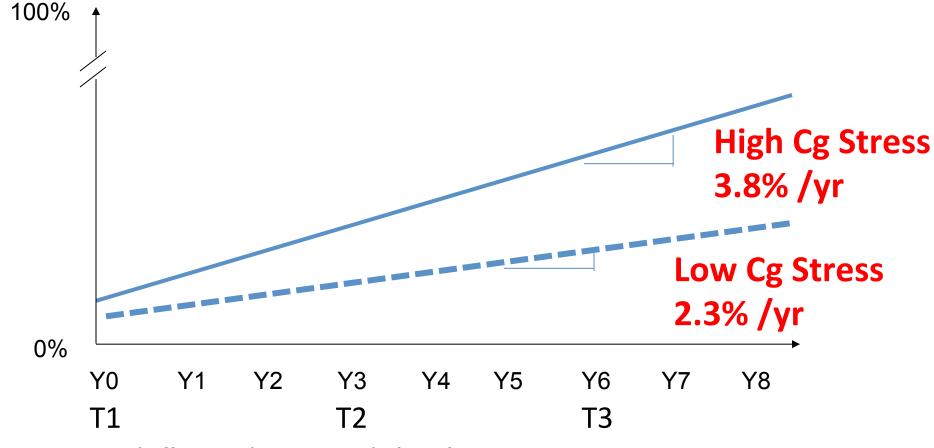
Spousal Caregivers x Time Effect on Development of Arthritis



Kim, Carver, Shaffer, Gansler, & Cannady (2015)

Predictors of Disability Markers: Person x Time

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



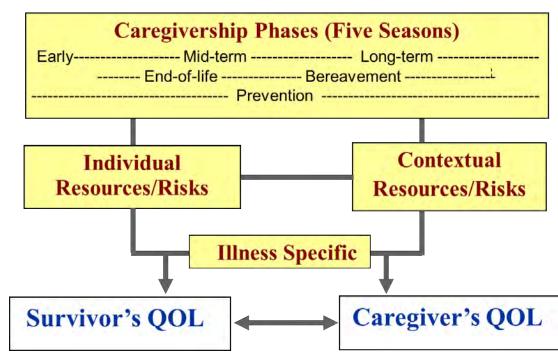
Kim, Carver, Shaffer, Gansler, & Cannady (2015)

QOL

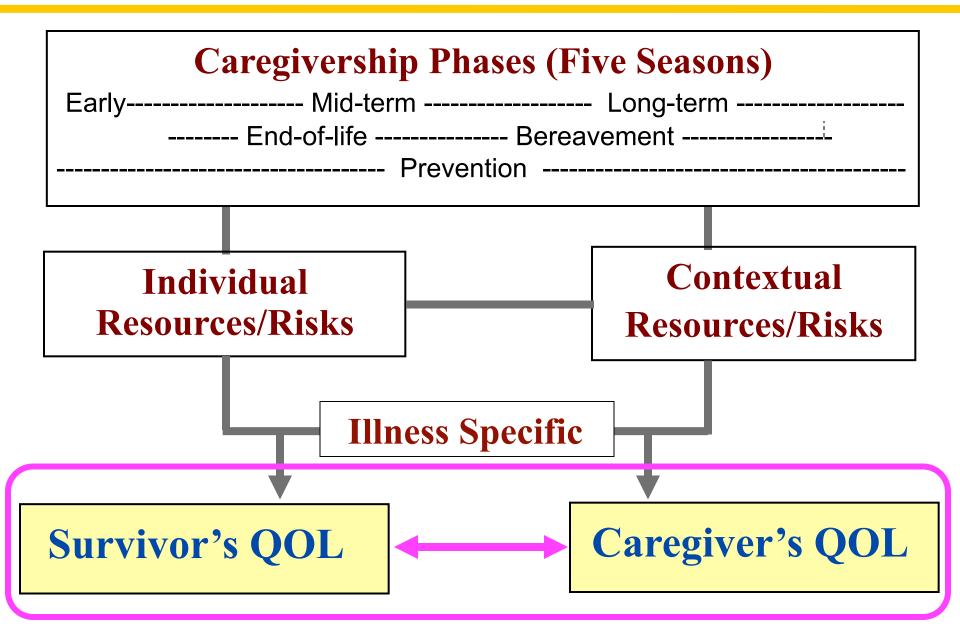
Additive and Synergistic Effects of Multiple Factors

- Stress with Seasons
- Depression with Seasons
- Relationship quality with Gender
- Motivation for caregiving with Gender

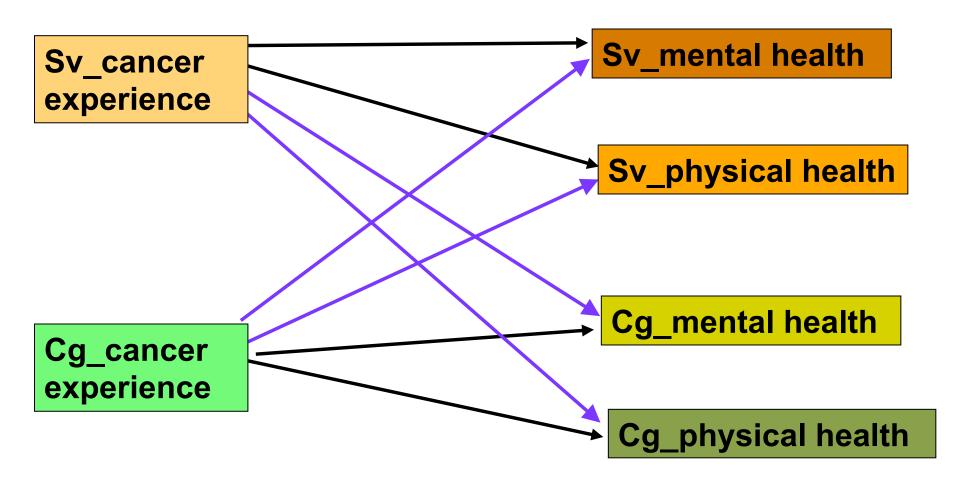
- Stress with Ethnicity
- Social support with Ethnicity

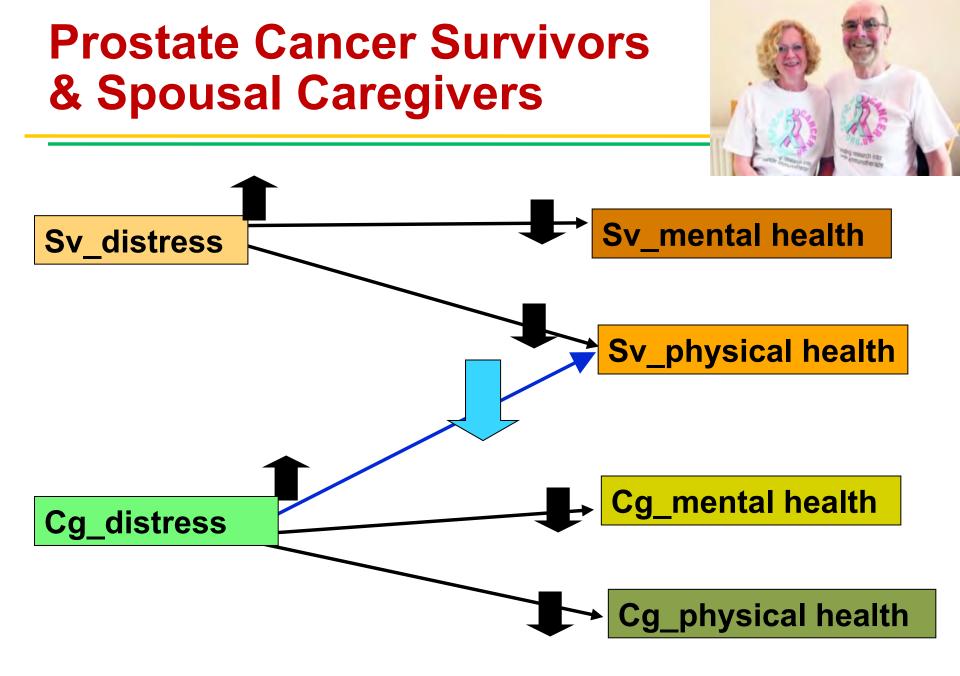


Caregivership Model



Individual & Dyadic Effects



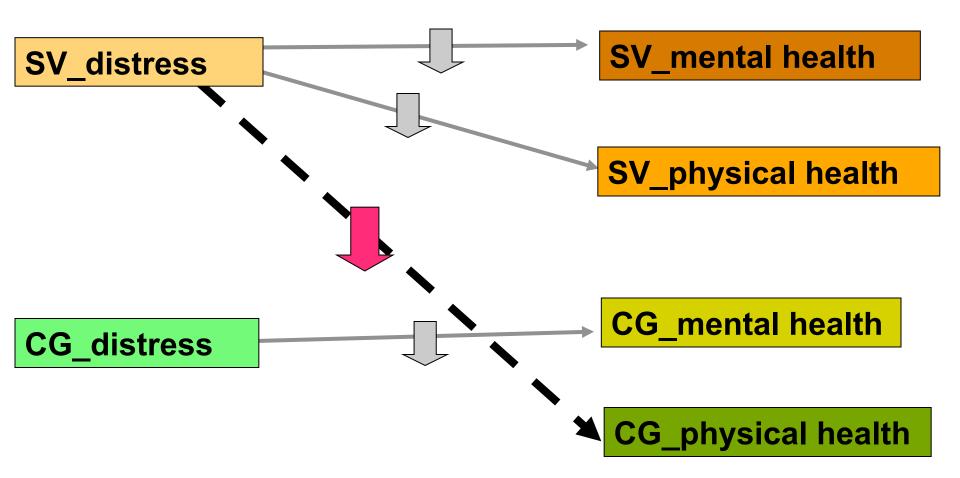


N = 168 dyads

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

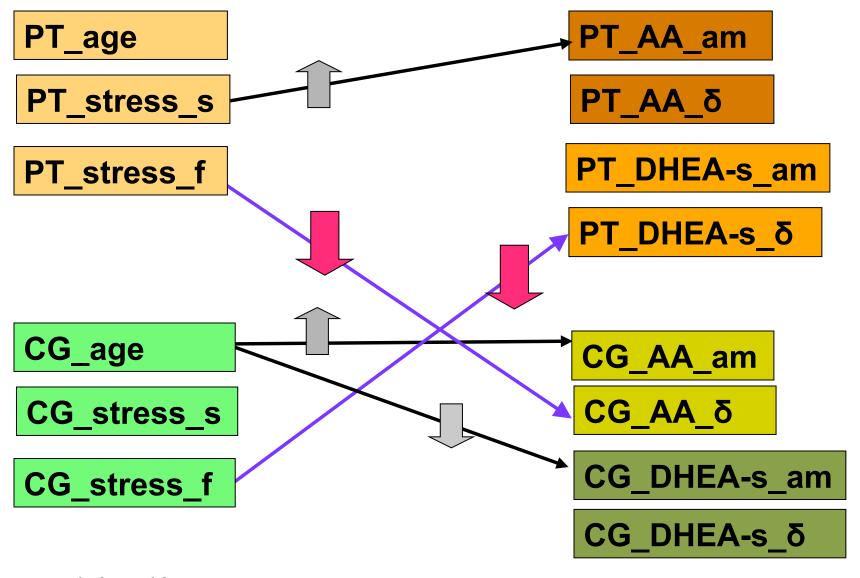
Mothers with Cancer & Their Caregiving Daughters





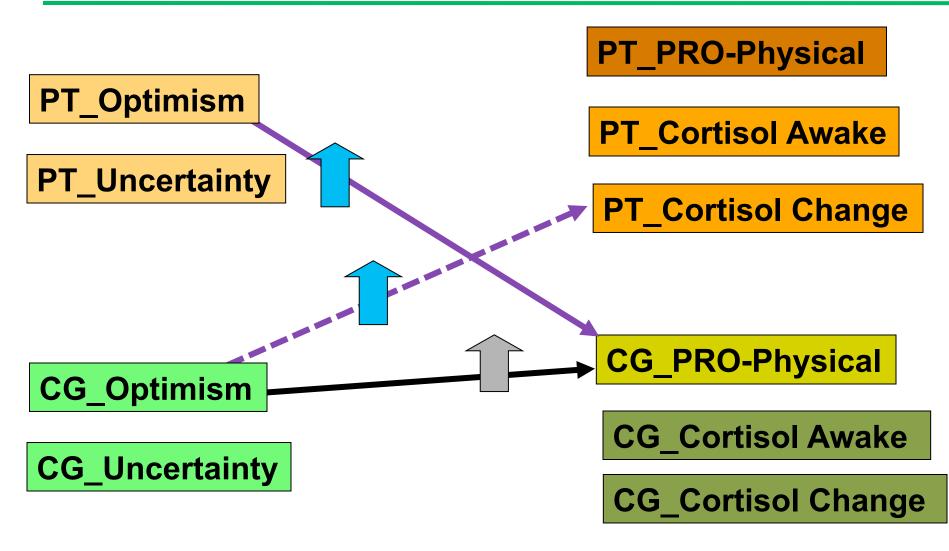
Kim, Wellisch, & Spillers. (2008).

Perceived Stress & Biomarkers



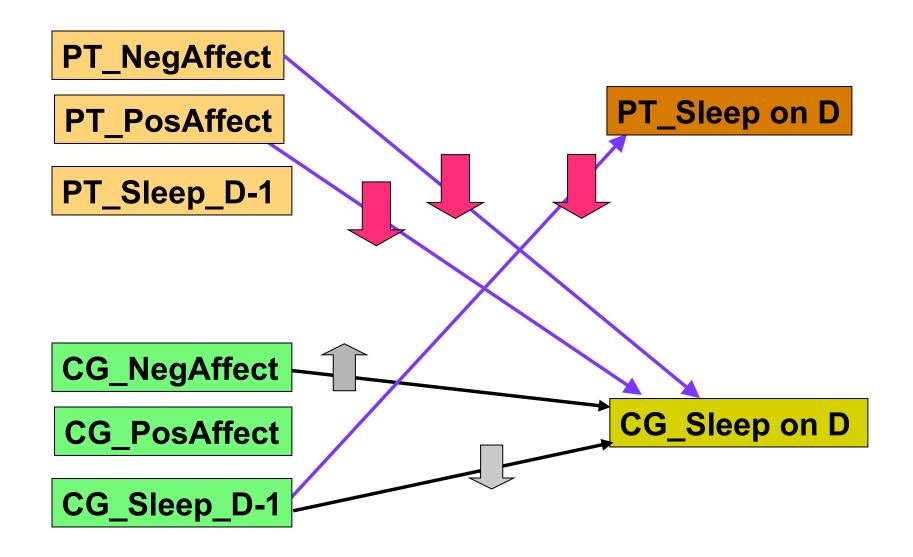
Kim et al. (2016b).

Personality & Biomarkers



Kim et al. (2017).

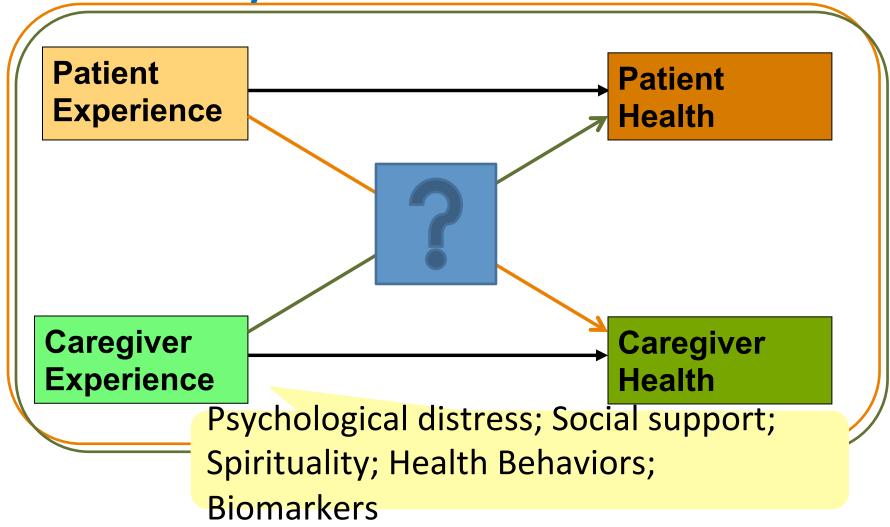
Affect & Sleep



Ting et al. (2018).

Illness in Relationships Context

Individual & Dyadic Effects



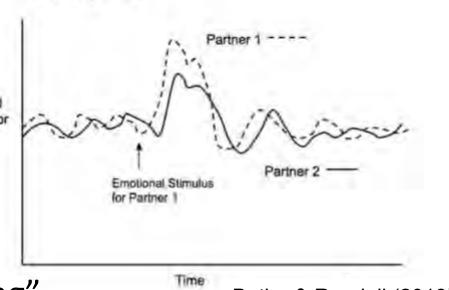
Coregulation in Relationships & Health

A. Coreculation

Coregulation:

- Partner is a one's regulator
- "bidirectional linkage"
 & "oscillating processes"

(Butler & Randall, 2013; Sbarra & Hazan, 2008)



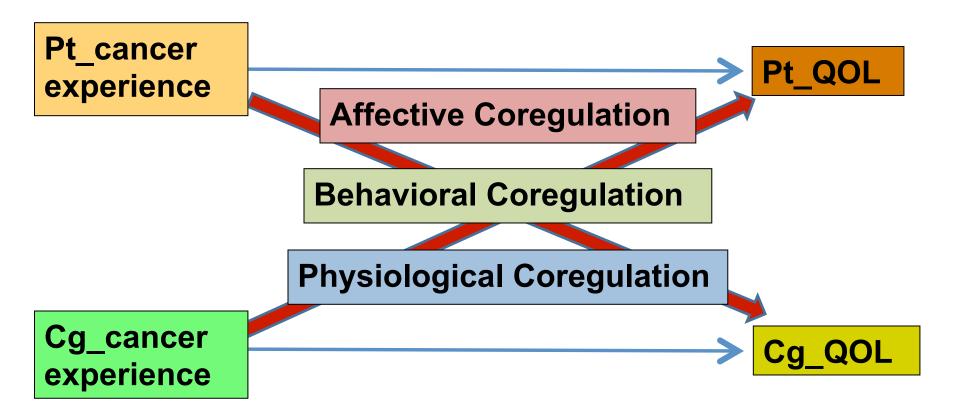
"Reciprocity" & "Dampening"

Butler & Randall (2013)

 may be a mechanism how close relationship partner plays a role in one's psychological well-being and physical health (Robles, Statcher, Trombello, & McGinn, 2013)

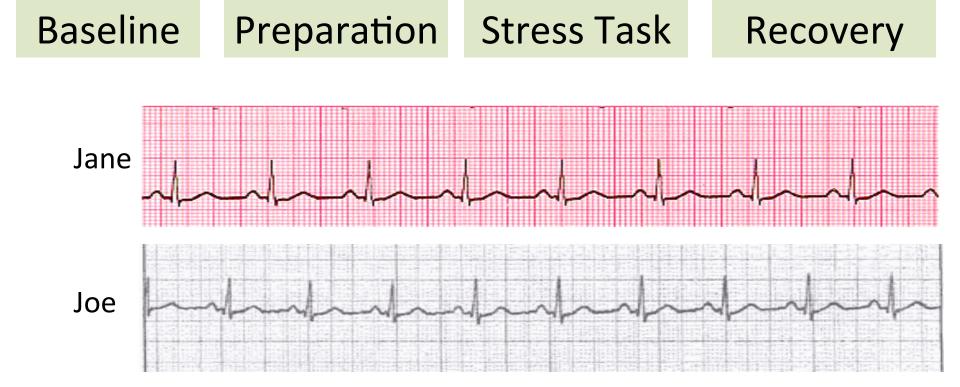
Valence

Mechanisms of Dyadic Effects



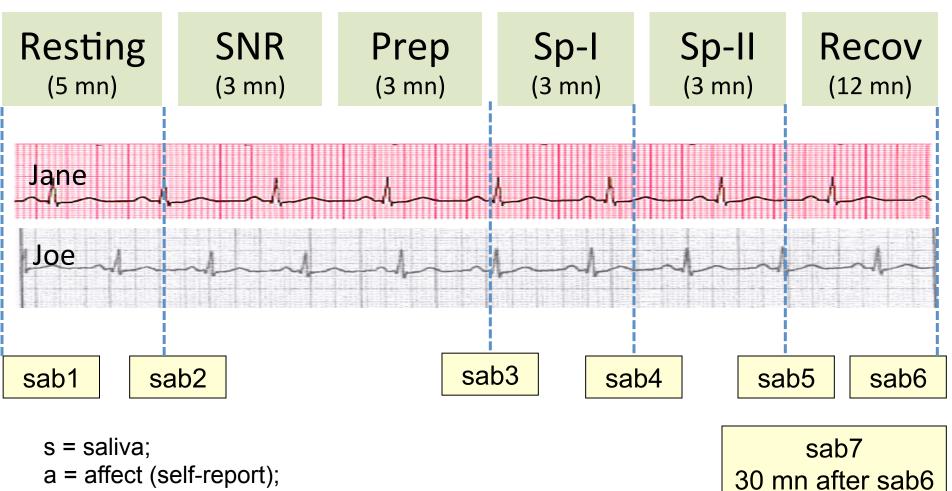
Cardiovascular Coregulation

Young adults in a heterosexual romantic relationship (*n* = 23 dyads)
 Stress Induction Tool for Close Relationships and Health (STITCH)



STITCH

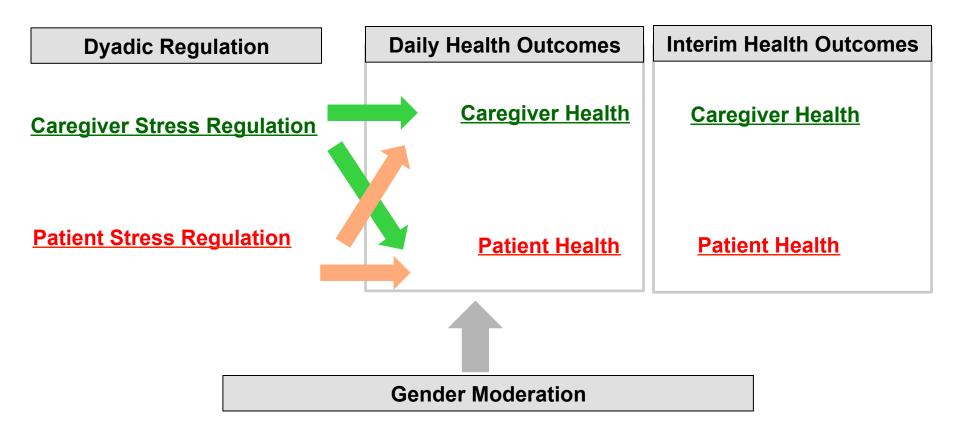
Pilot tested with colorectal cancer survivors and their spouses **



- b = blood pressure

BiPs:

Biological & PsychoSocial Mechanisms



Post-doc Opportunity through Diversity Supplement

1R01NR016838

HOW to Help: Interventions

Cancer Caregiver Interventions

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

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

Cancer Caregiver Interventions

Effect Sizes

- small to medium effects 29 RTC (Northouse et al., 2010)
- nil to small effects (.05 to .27) 6 RCT on cg QOL (Waldron et al., 2013)
- small effects on patients' outcomes 27 RCT (Griffin et al., 2014)
- Couple-based similar effect sizes to patient-only or caregiver-only (d=.35 .45) (Regan et al. 2012)
- Couple-based effect size for patients, .25-.31; for caregiver, .21-.
 24 17, 23 articles (Li & Loke, 2014; Badr & Krebs, 2013)
 - → Small but maybe beneficial

Cancer Caregiver Interventions

Weaknesses & Future Directions

- Insufficient evidence
- unclear theoretical framework
- short (< 3 months) follow-up
- delivery mode lack of disseminability

Web-based caregiver interventions as effective as traditional intervention, although quality of current web-based caregiver interventions is weak – 4 interventions (Kaltenbaugh et al., 2015)

- Uniqueness of cancer caregiving
 - compare and contrast with other caregiver research
- lack of targeting and tailoring
 Gender, SES, Sociocultural Factors, Country and Culture

IPOS Online Surveys

Phase I with professionals

- To gauge current involvement in clinical services and research with cancer patients/survivors in various ages and their family caregivers
 - In collaboration with IPOS
 - Survey developed in 15 languages:
 - Catalan, Chinese-simplified, Chinese-traditional,
 - English, French, German, Hindi, Hungarian, Italian,
 - Japanese, Korean, Portuguese, Romanian, Spanish, Turkish
 - Survey is in the field:

https://ipos-society.org/ipos-survivorshiponline-survey/

Next phases will directly engage with cancer patients/ survivors in various ages and their family caregivers

Conclusions

- Illness affects not only the patients but also their family.
- Certain caregivers are more likely to develop greater psychological and physical morbid conditions.
- Identifying more refined psycho-social predictors and psychobiobehavioral mechanisms may help improving communication quality and protecting survivors and caregivers from prematurely declining health.
- Take seasons (illness trajectory) into consideration in designing programs and target transitions (to end of life, to bereavement) for effective communications with caregivers
- Evidence-based, socioculturally sensitive, interdisciplinary interventions to reduce the burden of cancer and improve the quality of life among persons touched by cancer

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