

Psychological Issues that Cancer Patients Face:

Moving Forward

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**National Cancer Policy Forum
July 2017**



Focus of the Discussion

- ~~Physical functioning~~
- ~~Symptoms (fatigue, sleep, cognitive functioning)~~
- ~~Health behaviors~~
- ~~Sexuality~~
- ~~Compliance/adherence~~
- Stress
- Anxiety and Depressive symptoms and disorders



Agenda

- Rationale and description
- Psychological treatments
- Moving forward

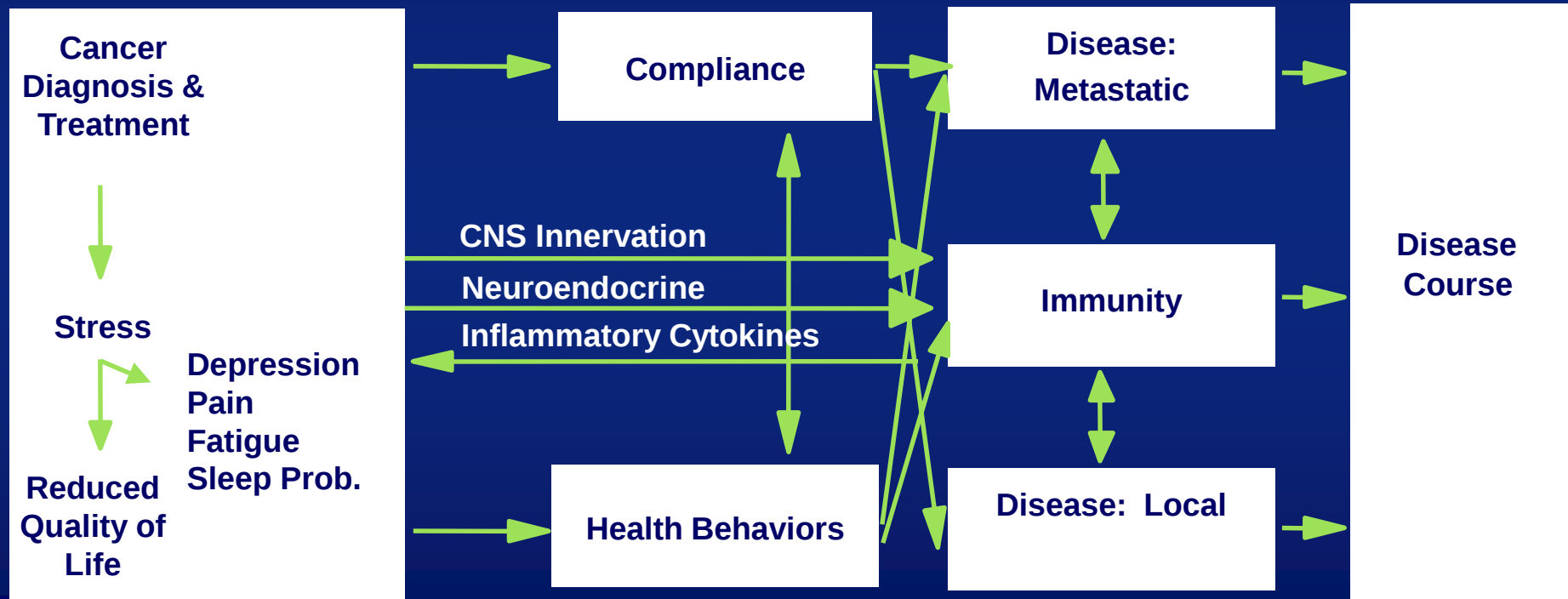


Why Stress, Depression, and Anxiety?

- Common
- There are known, obvious risk factors
- Impact other emotions, behaviors, biology, and disease endpoints
- Deadly
- They are defined with diagnostic criteria.
- There are validated measures.
- There are currently available, empirically supported psychological and cancer specific interventions.



Biobehavioral Model of Cancer Stress and Disease Outcomes



Co-morbid Psychopathology



- 15-20% with a current depressive disorder (base rate = 6%)
- 11% with a current anxiety disorder (GAD, PTSD, Panic) (= base rate)

- 50% Chronic (recurrent) condition
- 50% with Depression + Anxiety
- Undetected, untreated, and thus, a worsened trajectory
- If detected, under treated



Depression, Anxiety Comorbidity in Cancer Patients

Disorder	Point Prevalence	General Population
Major Depression	12.7%	1.4-8.0%
Dysthymia	2.8%	0.5-2.6%
Sub syndromal	10.8%	1.5-5.9%
Generalized Anxiety Disorder	3.5%	0.2-7.6%
PTSD	4%	0.3-2.7%
Panic Disorder	2.5%	0.3-6.6%
Adjust. Disorder	14.3%	0.3%



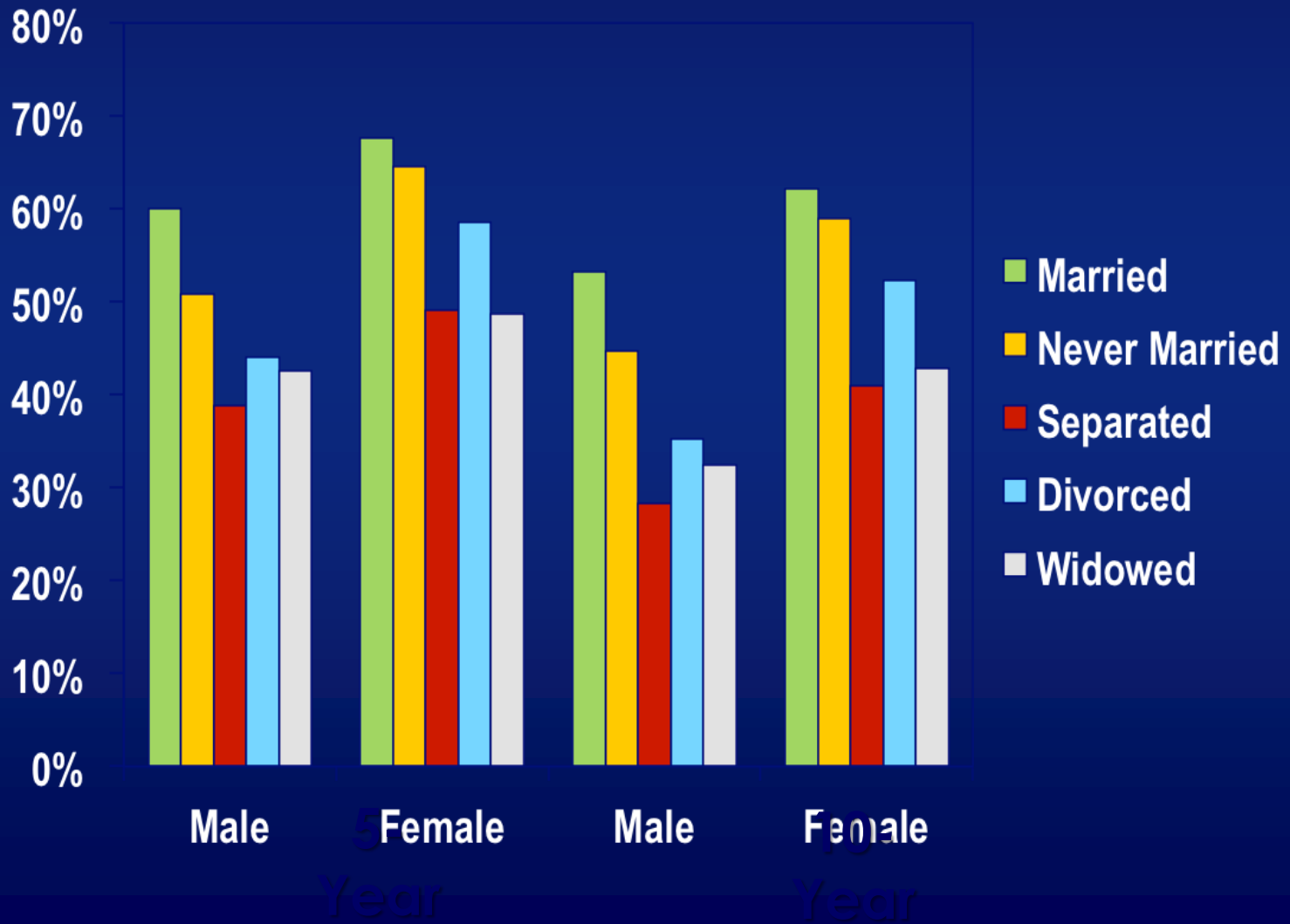
Psychological/behavioral difficulties: Who is at risk? Those with...

History of Depression or Anx. Disorders, +/- sub.use.

And those:

- Male
- Aged
- Alone (actually or functionally)
- Unemployed / low SES
- Receiving the most toxic therapies
- Recurrence/Progressive disease

Example: Cancer Survival: Gender (male), marital status (alone)

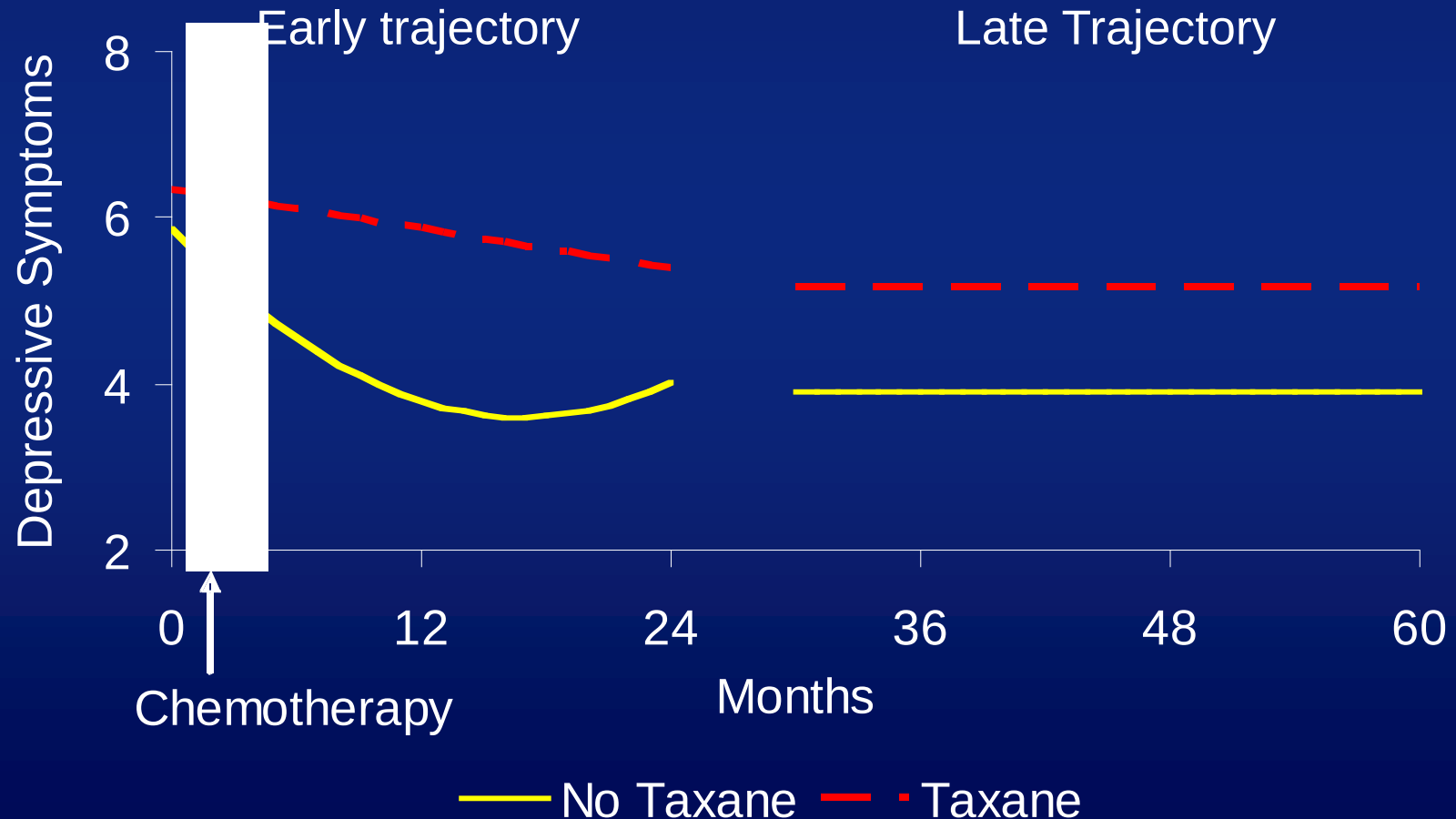


Depression risk: Cancer Therapies

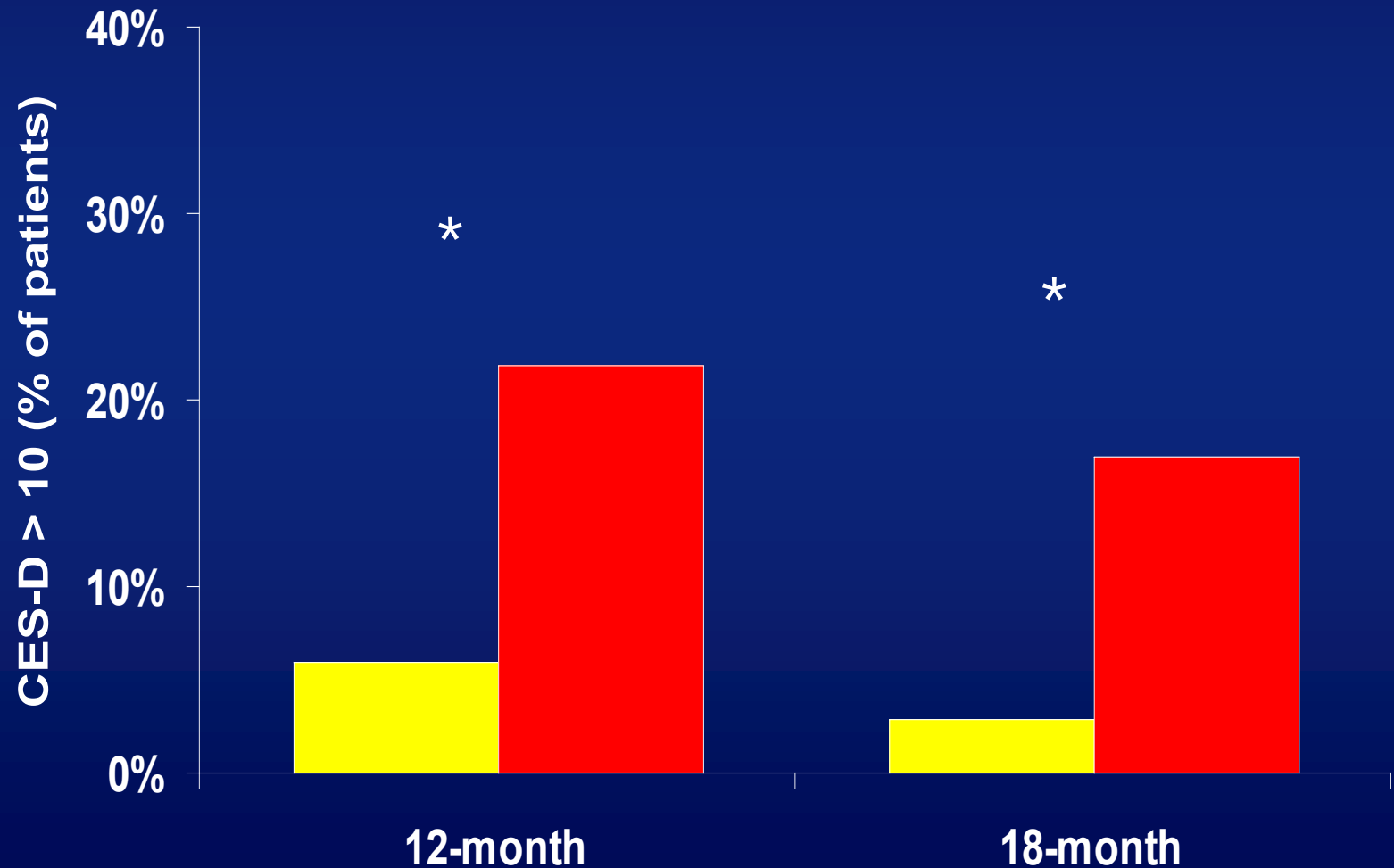
- Taxanes improved breast cancer outcomes when used as adjuvant treatment.
- Clinical trials showed neurotoxicity, pain, and peripheral neuropathy.

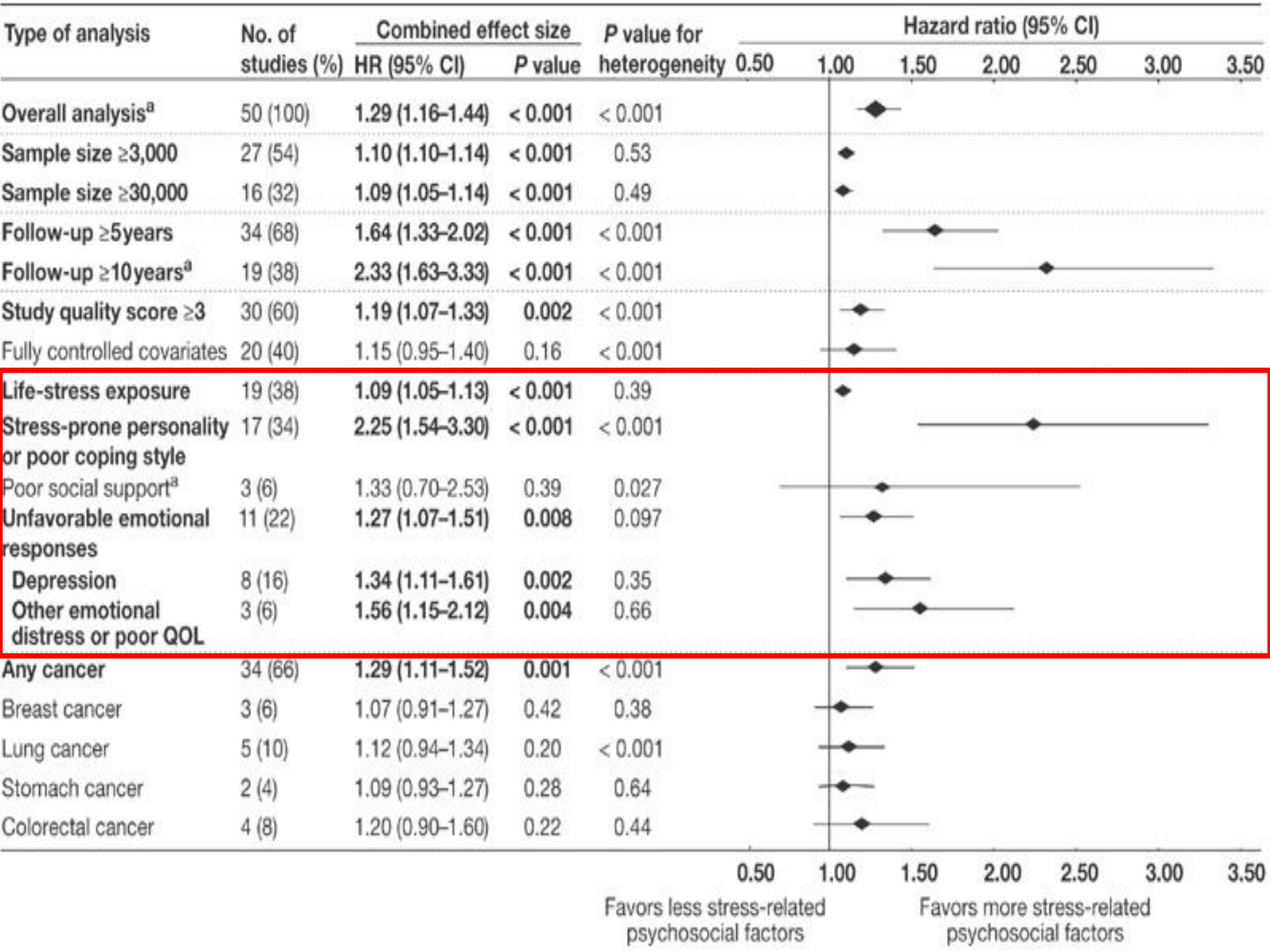


Significant Depressive Symptoms for the Taxane Group



Group Differences in Depression (18-22%) 12 and 18 months





Depression and suicide

Who is at risk? Those with...

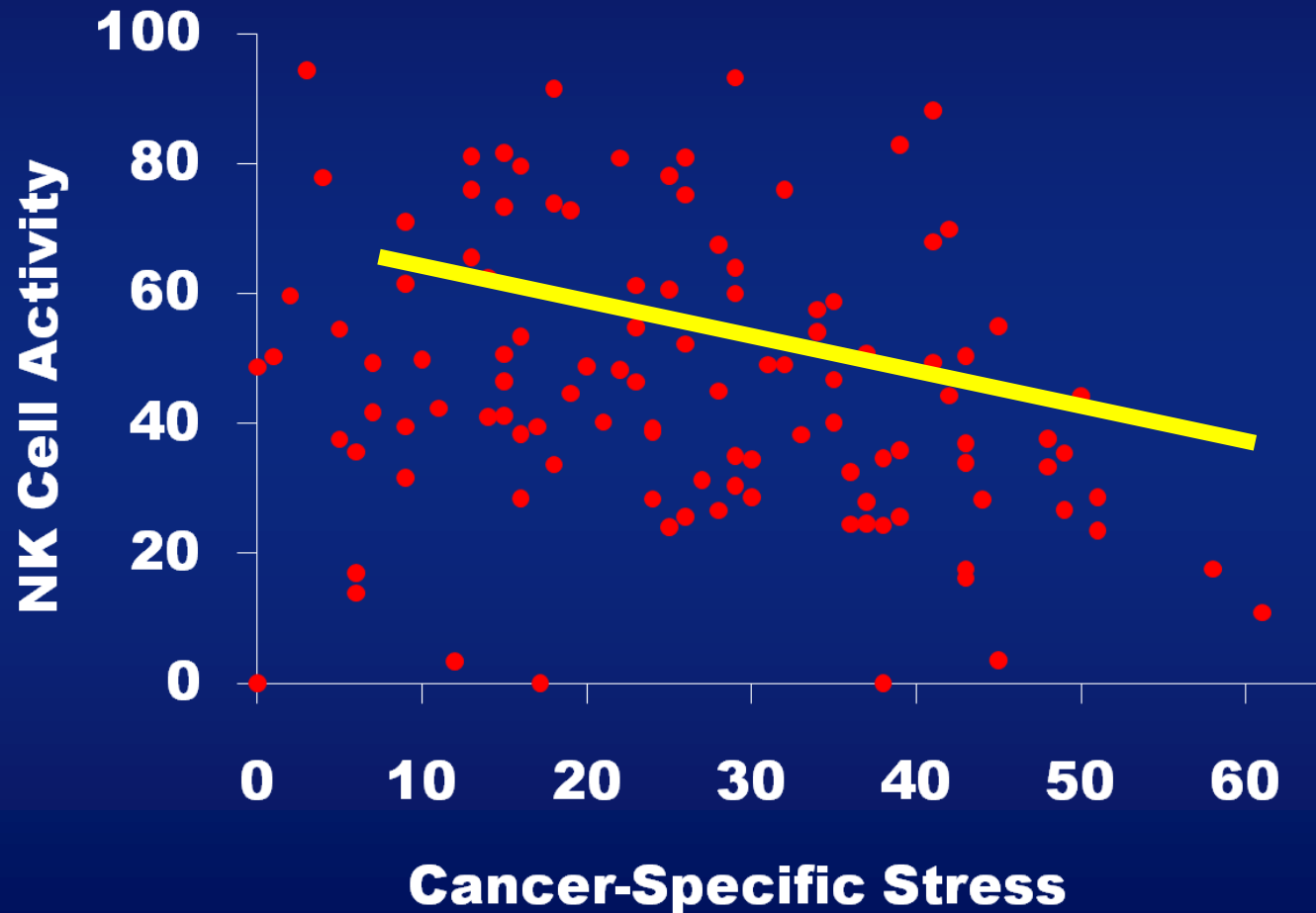
Cancer (e.g., 27.7 vs. 16.7/100,000 in 54-59 yr.)

Time since diagnosis (< 5 yrs., 2.38 vs. 1.43-1.58)

And those:

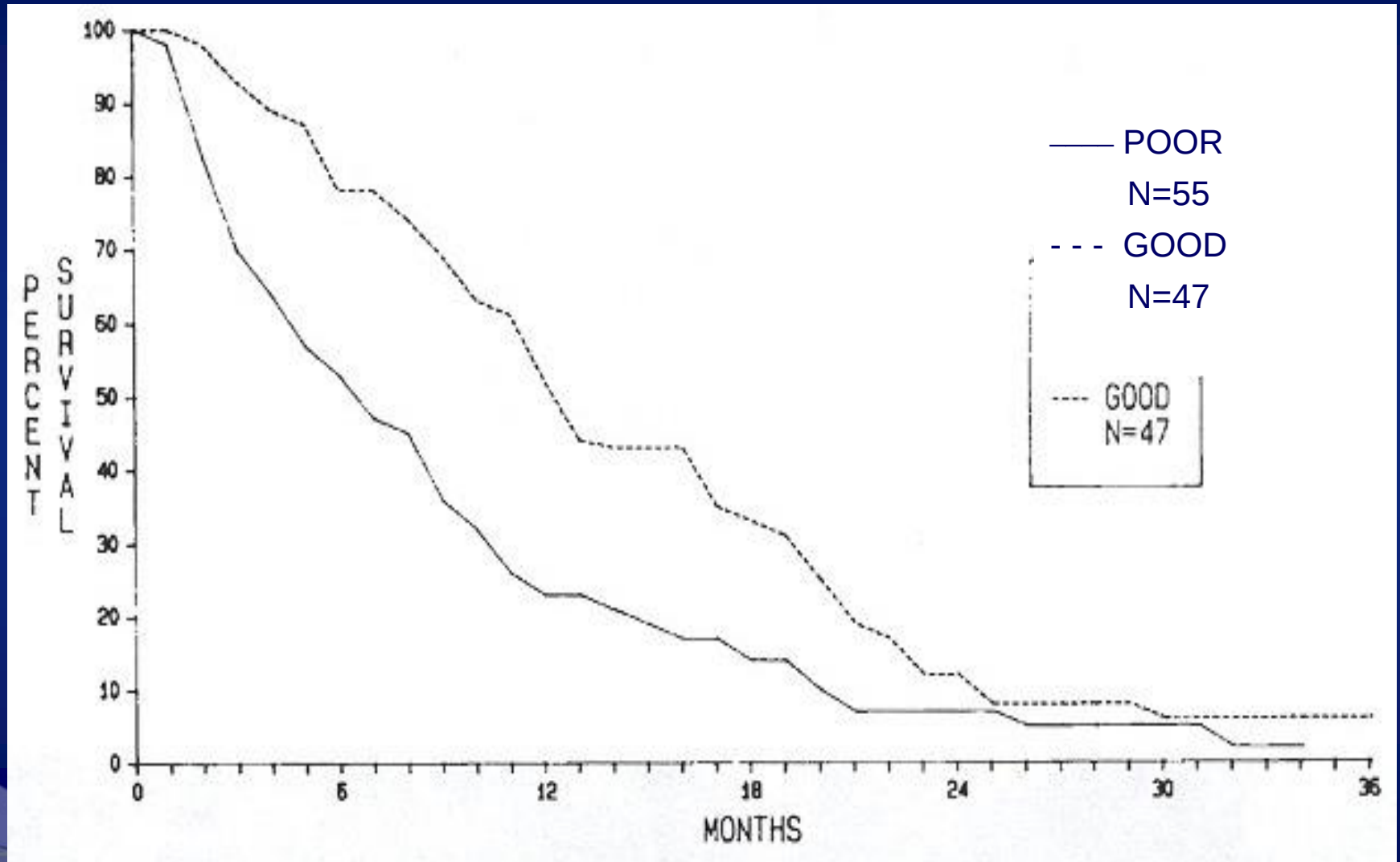
- **Male** (2.09 vs. 1.48 SMR)
- **Aged** [44.6 (50), 57.4 (60), 76.2 (70), etc.]
- **Alone** (37.1 vs 31.5)
- **Distant/Progressive disease** (65.3 vs. 25.1 - 36.1)
- **Disease sites** [Lung, 5.74, stomach (4.68), oral (3.66)]

Significantly Lower NK cell Lysis with Higher Stress (Stg. II/III Breast, N=116)



(JNCI, 1998)

Psychosocial well-being and Survival lung cancer



(Kaasa, 1989)

Social Functioning and Survival Stomach Cancer

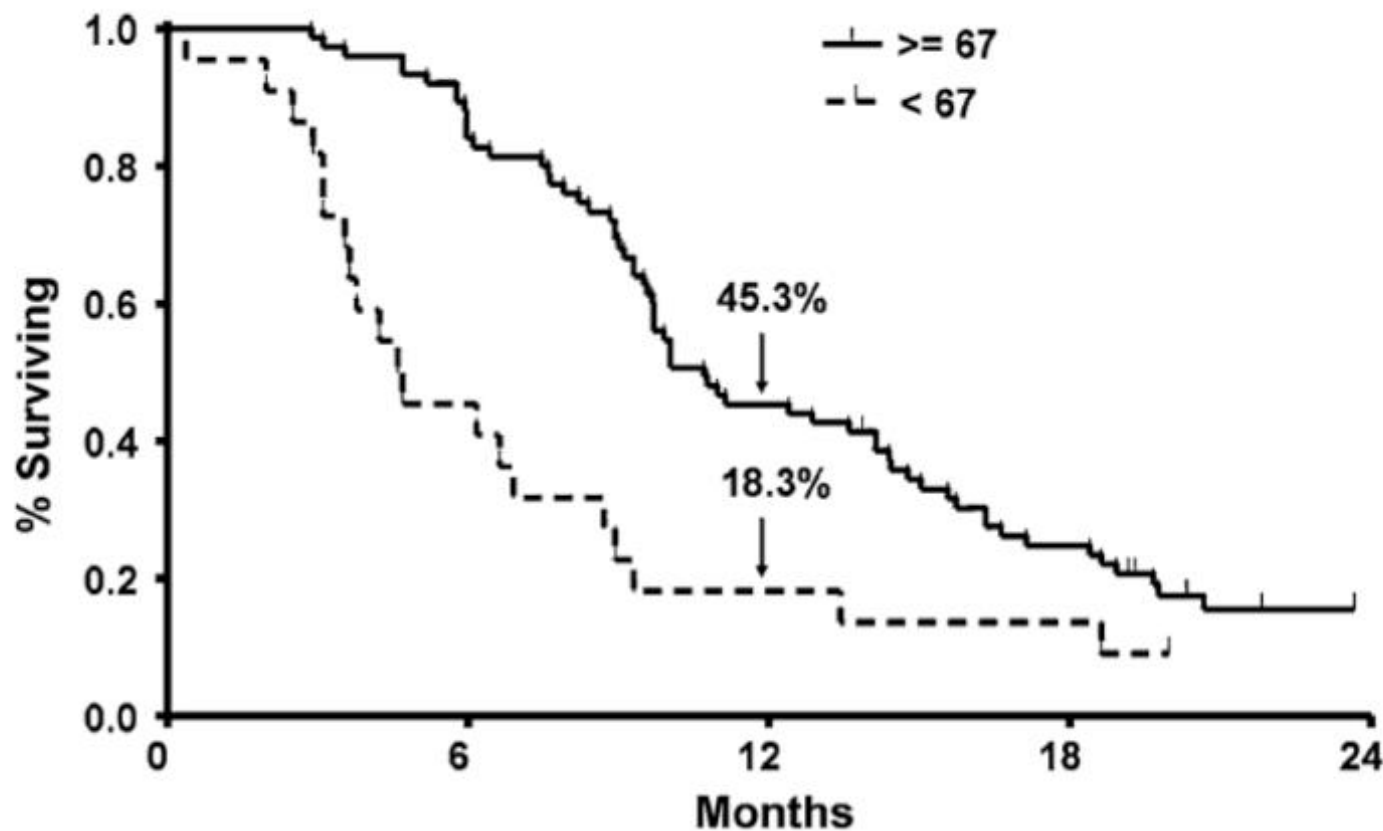
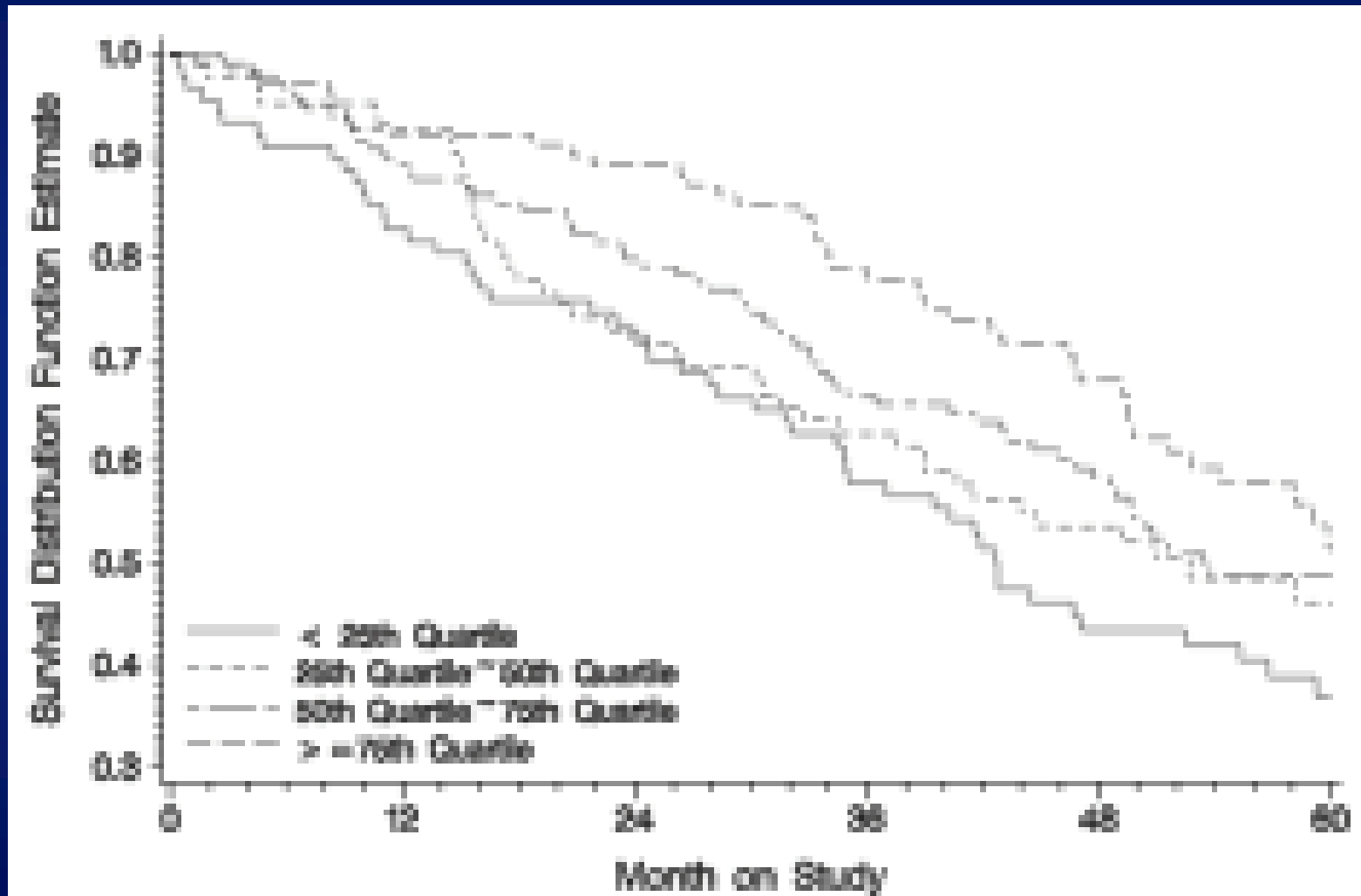


Fig. 1 Survival curves for the baseline social functioning scores. The cutoff value was 67

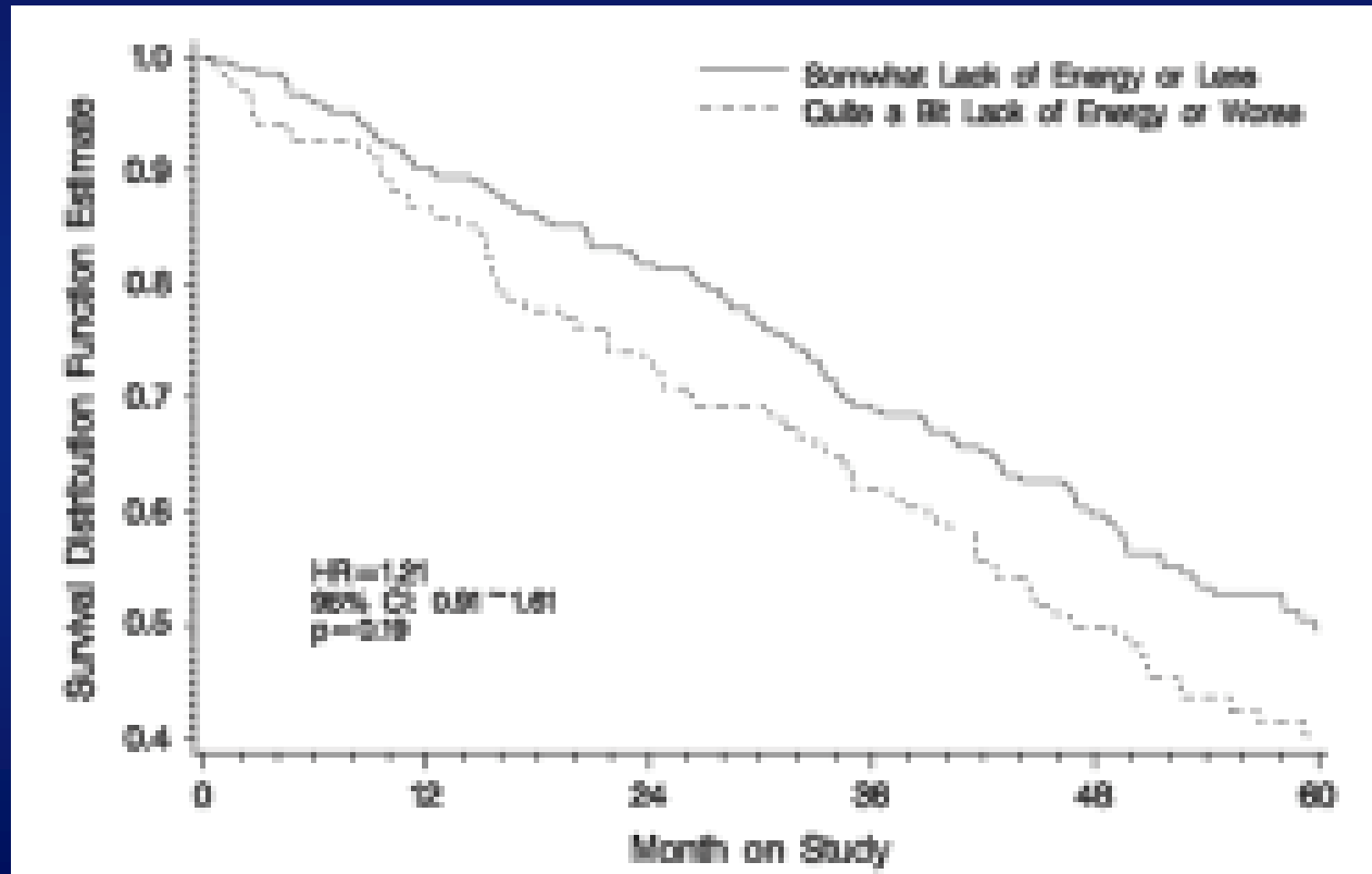
(Park et al., 2008)

Physical QoL and Survival Gynecologic Cancer



(Von Geunigan et al., 2012)

“Lack of energy” and Survival Gynecologic Cancer



(Von Geunigan et al., 2012)

QoL and Survival

Lung Cancer

No. 12

SURVIVAL IN LUNG C

TABLE 2. Demographic Characteristics of the Sample

Age*	61.7 yr (mean) (range, 39.9–87.2 yr)
Gender	
Male	35 (87.5%)
Female	5 (12.5%)
Marital status	
Married	18 (45%)
Unmarried	22 (55%)
Race	
White	25 (62.5%)
Black	12 (30%)
Other	3 (7.5%)
Education†	
High school graduate	26 (72.2%)
Partial college	4 (11.1%)
College graduate	3 (8.3%)
Postgraduate	3 (8.3%)

* Data missing from one subject.

† Data missing from four subjects.

Interventions



A bit of history...

Bernard H. Fox (1978)

Journal of Behavioral Medicine, Vol. 1, No. 1, 1978

Premorbid Psychological Factors as Related to Cancer Incidence¹

Bernard H. Fox²

Accepted for publication: November 1, 1977



1992 Summary of outcomes from psychological trials (N=19)

Risk Group	Outcome		
	Mood/Emotional Adjustment	Social and Behavioral	Medical or Health
Low	Modest improvements in emotional distress; More adaptive coping strategies.	Modest gains in social adjustments.	Immune enhancement and improved survival (Fawzy et al., 1990; 1993).
Moderate	Significant reductions in emotional distress.	Modest gains in social adjustment.	Symptom (fatigue, anorexia) reduction (Forester, Kornfeld, & Fleiss, 1985).
High	Significant reductions in emotional distress.	Improvements in global evaluations of quality of life (e.g. life satisfaction).	Symptom improvements (e.g. reductions in pain) and improved survival (Spiegel et al., 1989).



Effective Components of Psychological Interventions

- Stress reduction, typically relaxation training
- Information about the disease and treatment
- Behavioral and cognitive coping strategies
e.g., problem solving, assertive communication
- Social support
- Focused interventions for disease-specific problems (e.g. sun protection for melanoma survivors; sexuality for gynecologic survivors)

(JCCP, 1992)



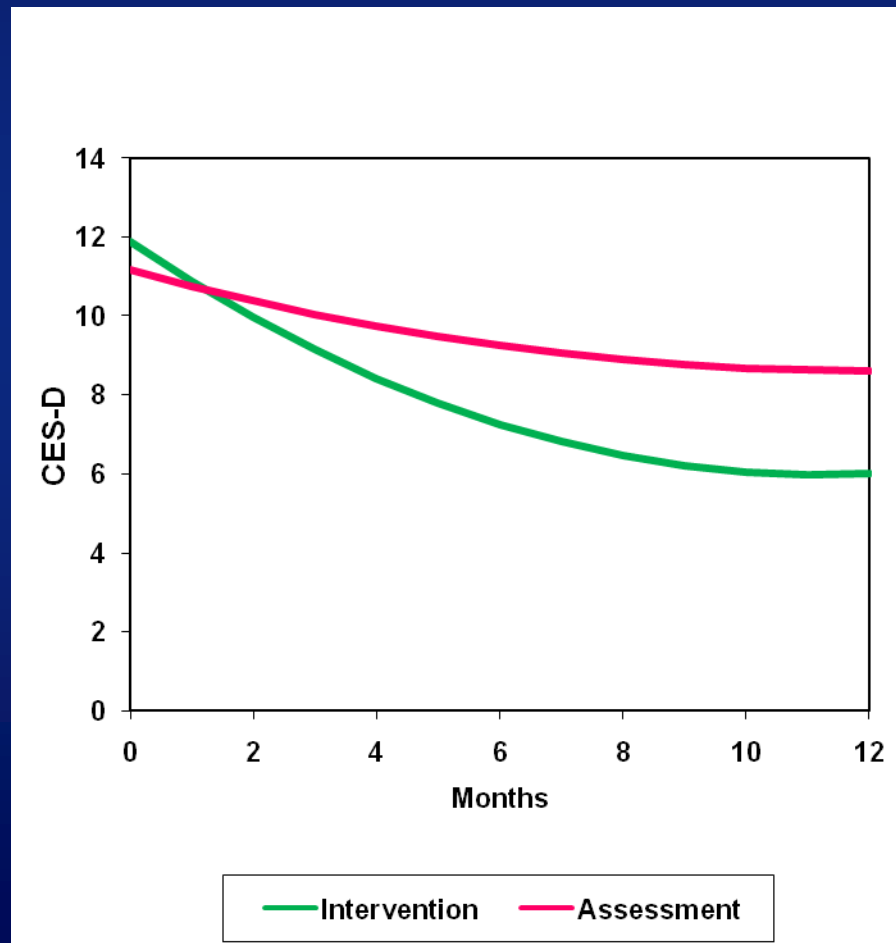
Efficacy of Psychological Interventions

Meta-Analyses (N=300+)

Intervention	k	Anxiety	Depression	QoL
Unspecified group intervention/varied	7	0.40-0.56	0.47-1.01	0.65-0.90
CBT	4	0.35-1.67	0.87-1.21	---
MBSR	3	0.73-0.75	0.58-0.90	---
Psychoeducation	3	1.59-1.99	0.94	0.91
Relaxation	2	0.21-0.45	0.30-0.54	---

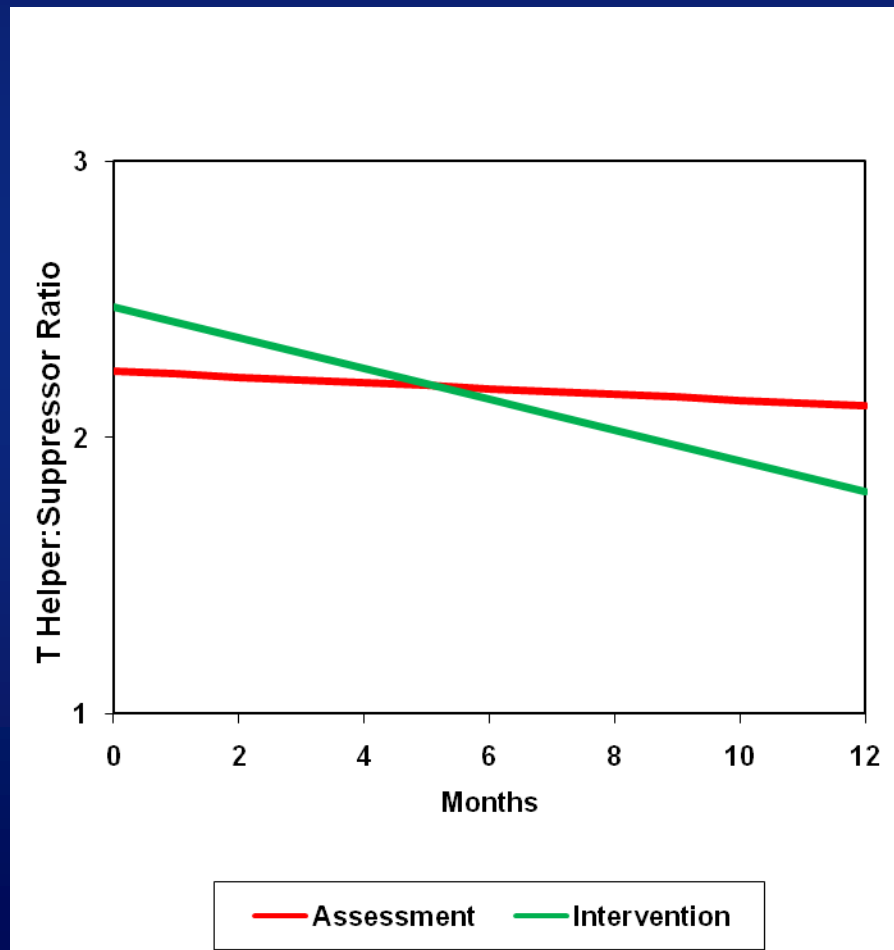


Reduction in Depression with Intervention

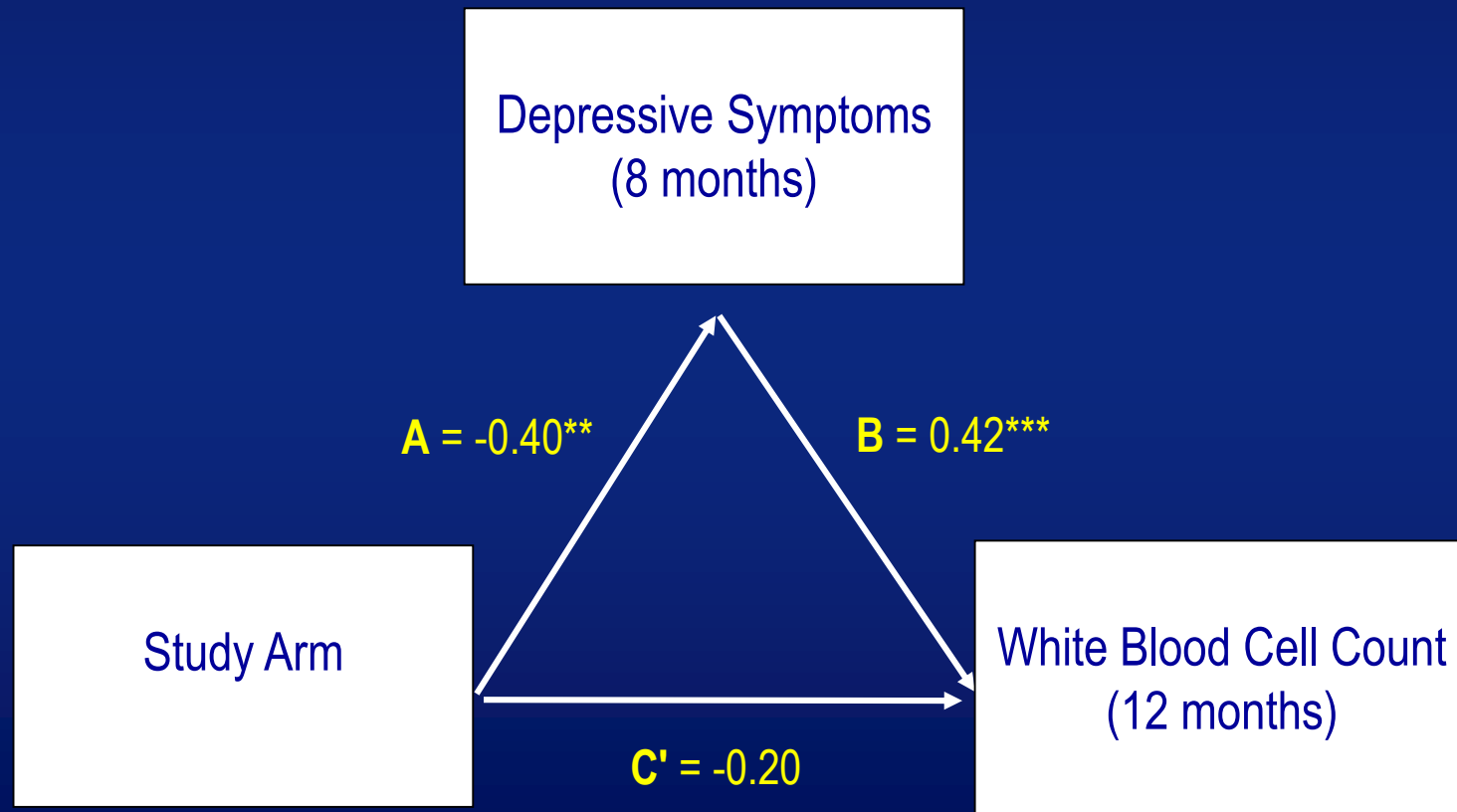


Reduction in Inflammation Marker

T Helper : Suppressor Ratio

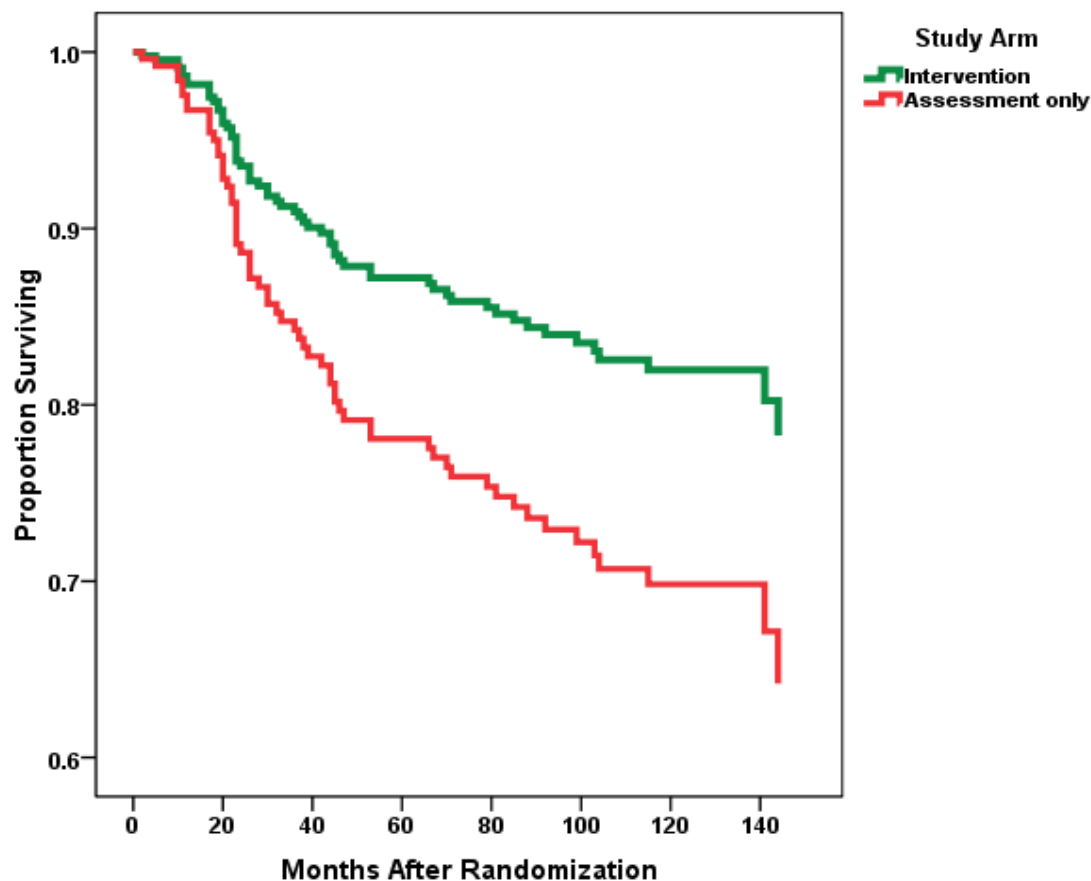


Intervention lowers inflammation: mediated by reduction in depressive symptoms

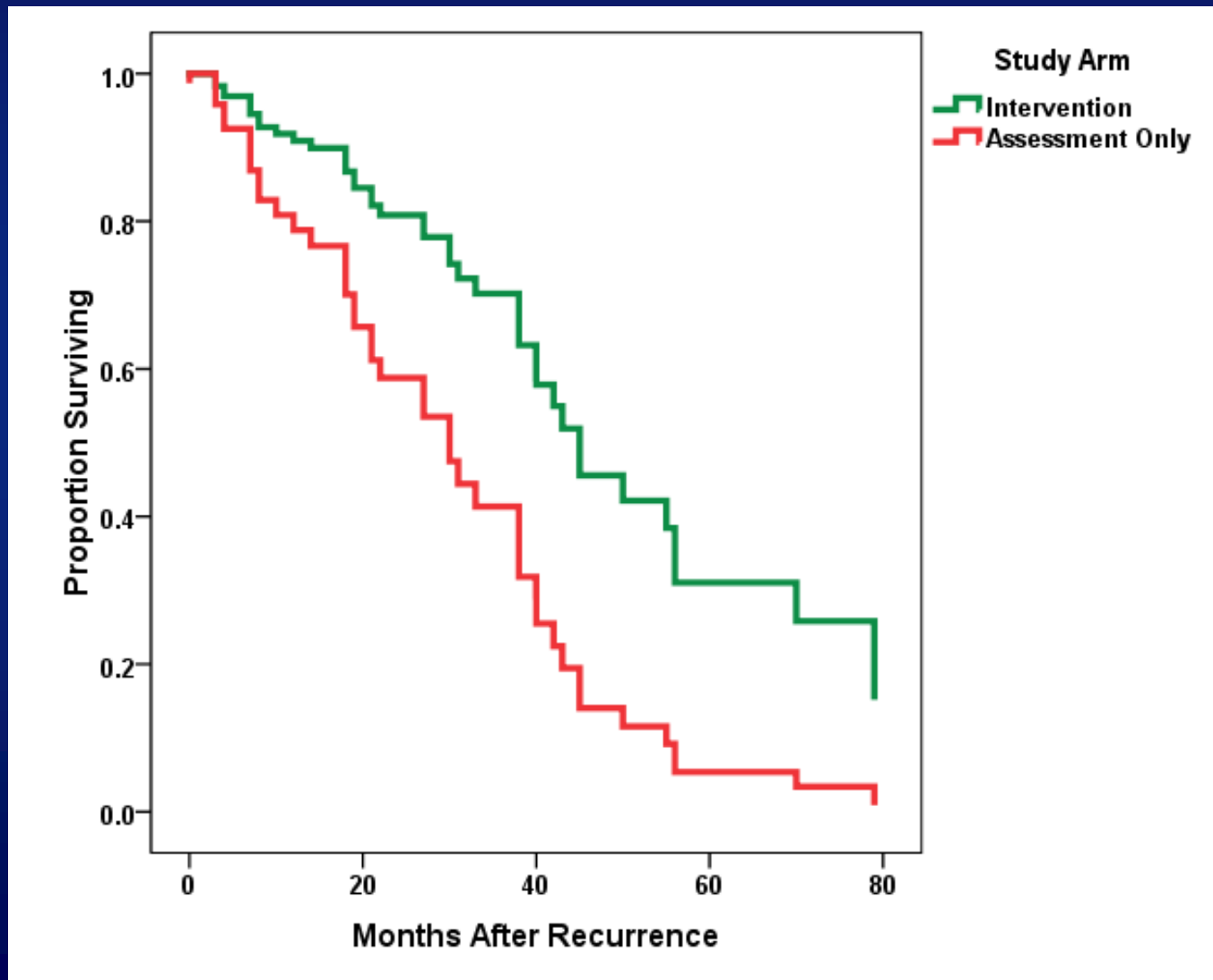


(PM, 2009)

45% Reduced Risk of Breast Cancer Recurrence for patients who received a psychological intervention



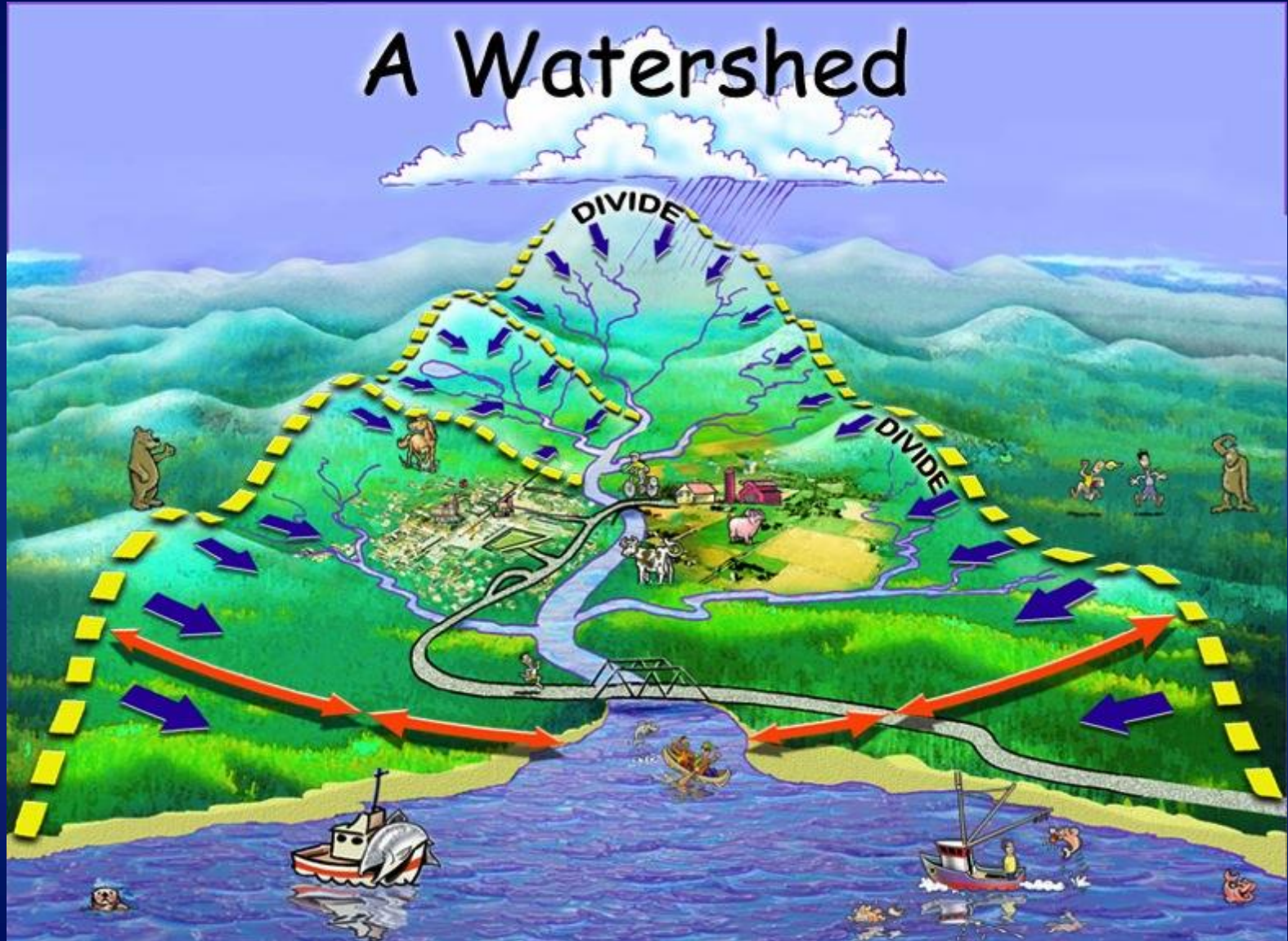
60% Reduced Risk of Breast Cancer Death following Recurrence





The future?

A Watershed



Moving Forward, #1 - 4

#1. Screen and implement what exists now.

#2. Expand dissemination/implementation of what exists now.

#3. Stimulate and reinforce innovations in intervention research.



4#. Embrace the “whole” cancer patient.

Screening, Assessment, and Care of Anxiety and Depressive Symptoms in Adults With Cancer: An American Society of Clinical Oncology Guideline Adaptation

Barbara L. Andersen, Robert J. DeRubeis, Barry S. Berman, Jessie Gruman, Victoria L. Champion, Mary Jane Massie, Jimmie C. Holland, Ann H. Partridge, Kane Bak, Mark R. Somerfield, and Julia H. Rowland

A B S T R A C T

Purpose

A Pan-Canadian Practice Guideline on Screening, Assessment, and Care of Psychosocial Distress (Depression, Anxiety) in Adults With Cancer was identified for adaptation.

Methods

American Society of Clinical Oncology (ASCO) has a policy and set of procedures for adapting clinical practice guidelines developed by other organizations. The guideline was reviewed for developmental rigor and content applicability.

Results

On the basis of content review of the pan-Canadian guideline, the ASCO panel agreed that, in general, the recommendations were clear, thorough, based on the most relevant scientific evidence, and presented options that will be acceptable to patients. However, for some topics addressed in the pan-Canadian guideline, the ASCO panel formulated a set of adapted recommendations based on local context and practice beliefs of the ad hoc panel members. It is recommended that all patients with cancer be evaluated for symptoms of depression and anxiety at periodic times across the trajectory of care. Assessment should be performed using validated, published measures and procedures. Depending on levels of symptoms and supplementary information, differing treatment pathways are recommended. Failure to identify and treat anxiety and depression increases the risk for poor quality of life and potential disease-related morbidity and mortality. This guideline adaptation is part of a larger survivorship guideline series.

Conclusion

Although clinicians may not be able to prevent some of the chronic or late medical effects of cancer, they have a vital role in mitigating the negative emotional and behavioral sequelae. Recognizing and treating effectively those who manifest symptoms of anxiety or depression will reduce the human cost of cancer.

J Clin Oncol 32. © 2014 by American Society of Clinical Oncology

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Authors' disclosures of potential conflicts of interest and author contributions are found at the end of this article.

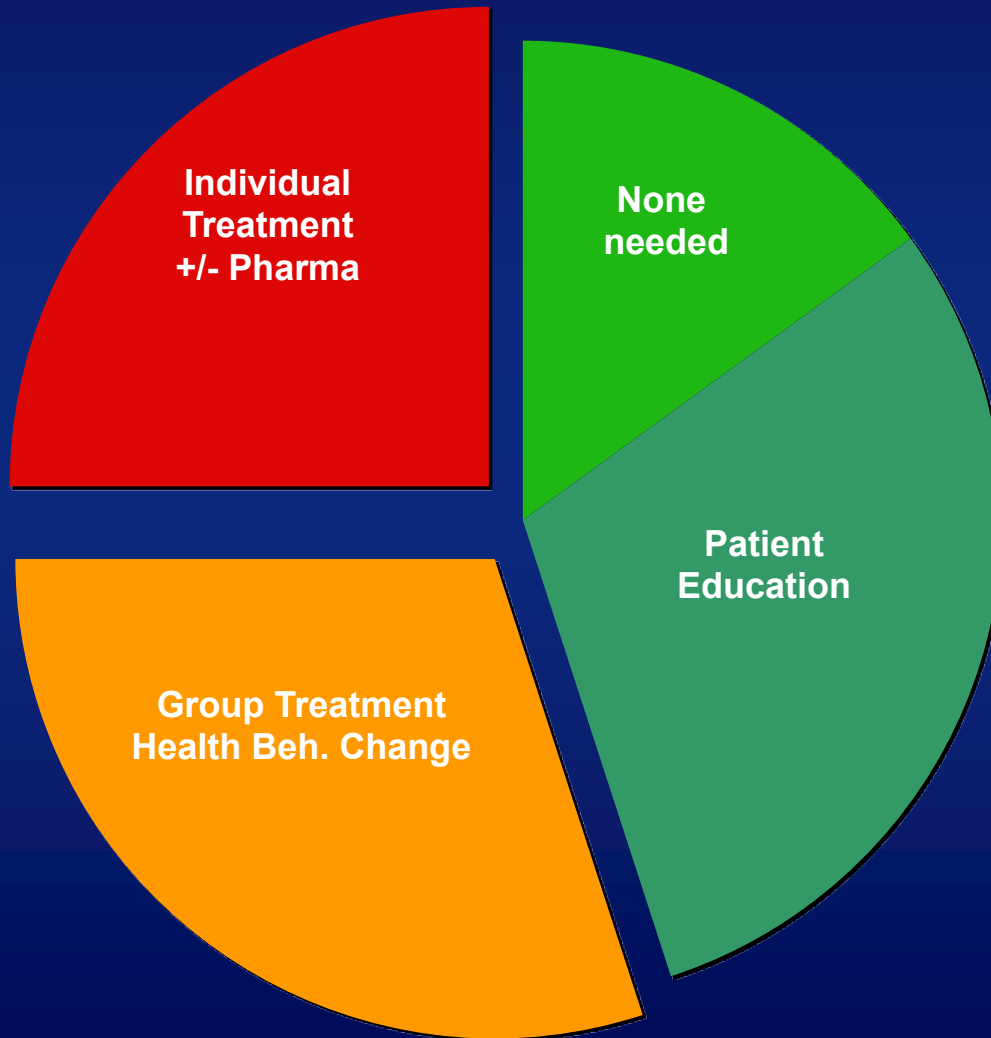
Reprint requests: American Society of Clinical Oncology, 2318 Mill Rd, Suite 800, Alexandria, VA 22314; e-mail: guidelines@asco.org.

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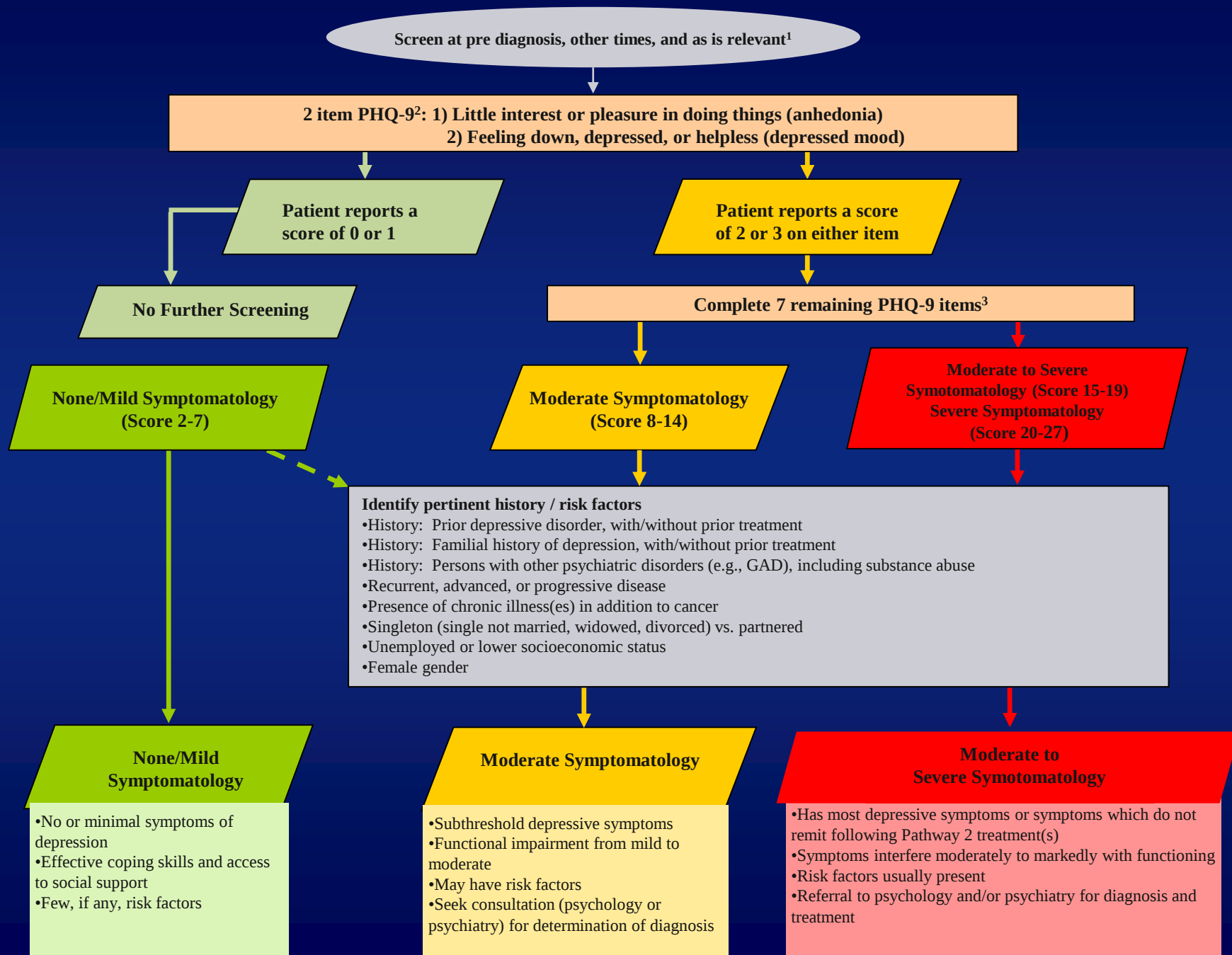
0732-183X/14/3299-1/\$20.00

DOI: 10.1200/JCO.2013.52.4611

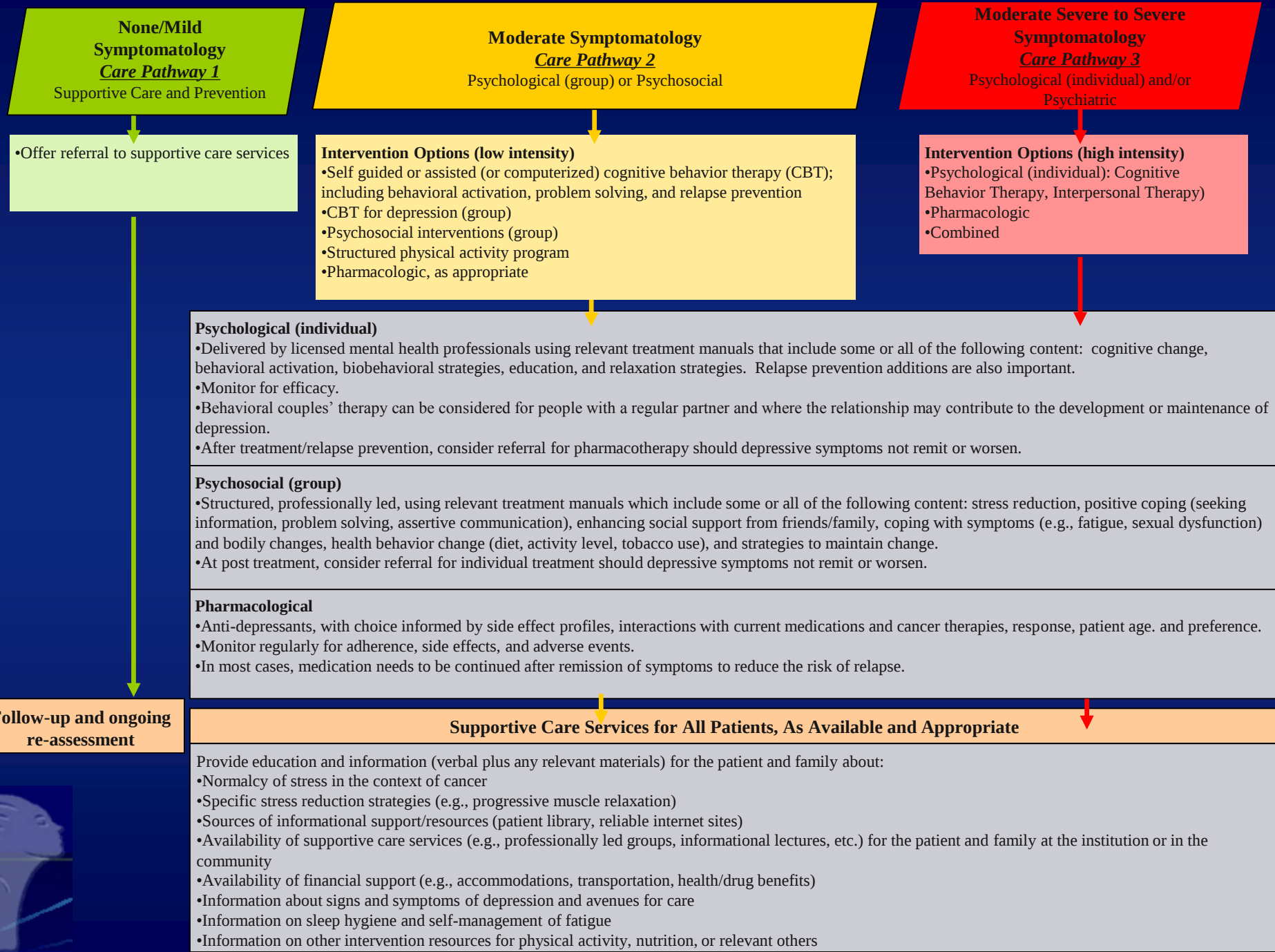
Stepped care for psychosocial care



Screening and Assessment – Depressive Symptoms in Adults with Cancer



Care Map – Depressive Symptoms in Adults with Cancer



Moving Forward, #1 - 4

#1. Screen and implement what exists now.

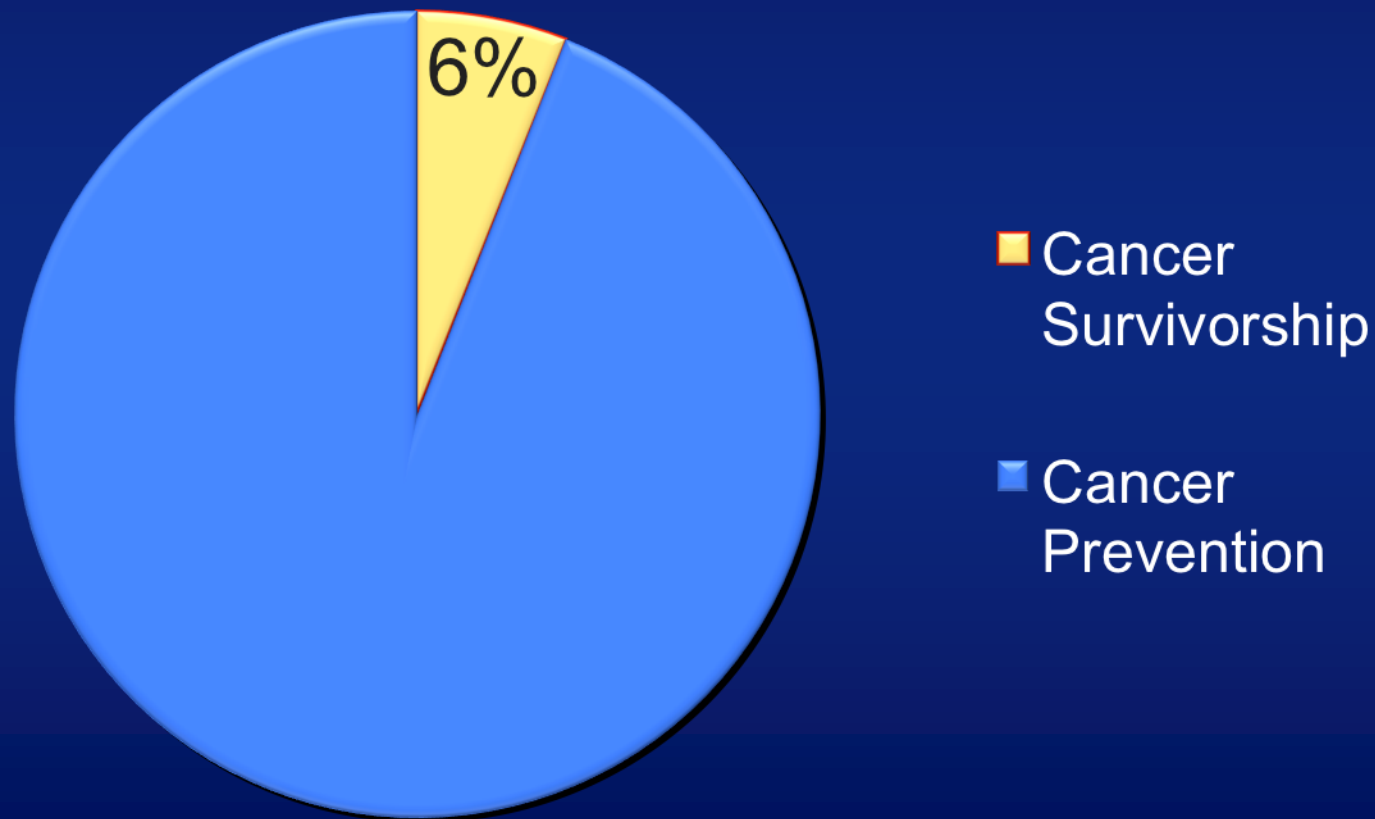
#2. Expand dissemination/implementation of what exists now.

#3. Stimulate and reinforce innovations in intervention research.

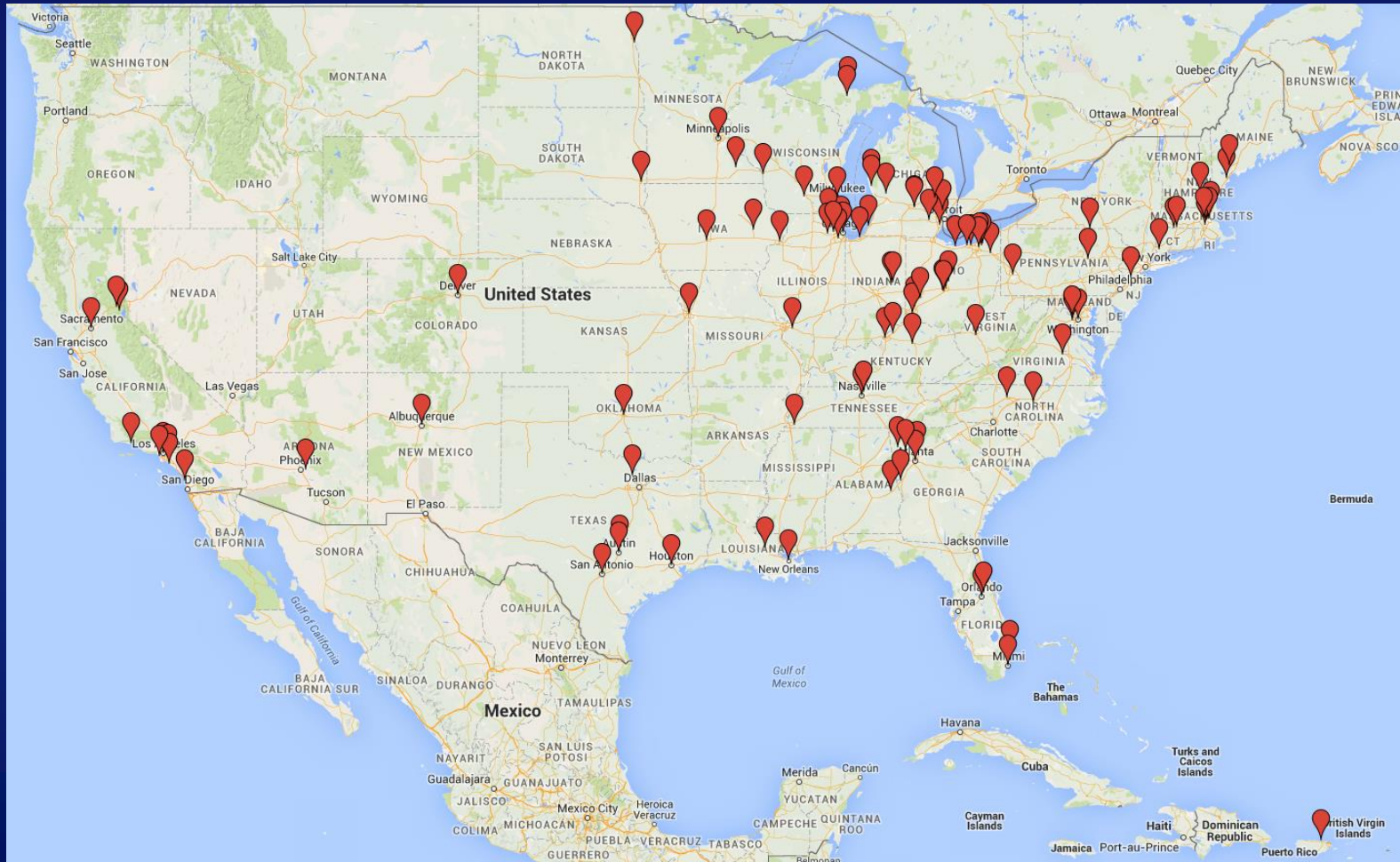
4#. Embrace the “whole” cancer patient.



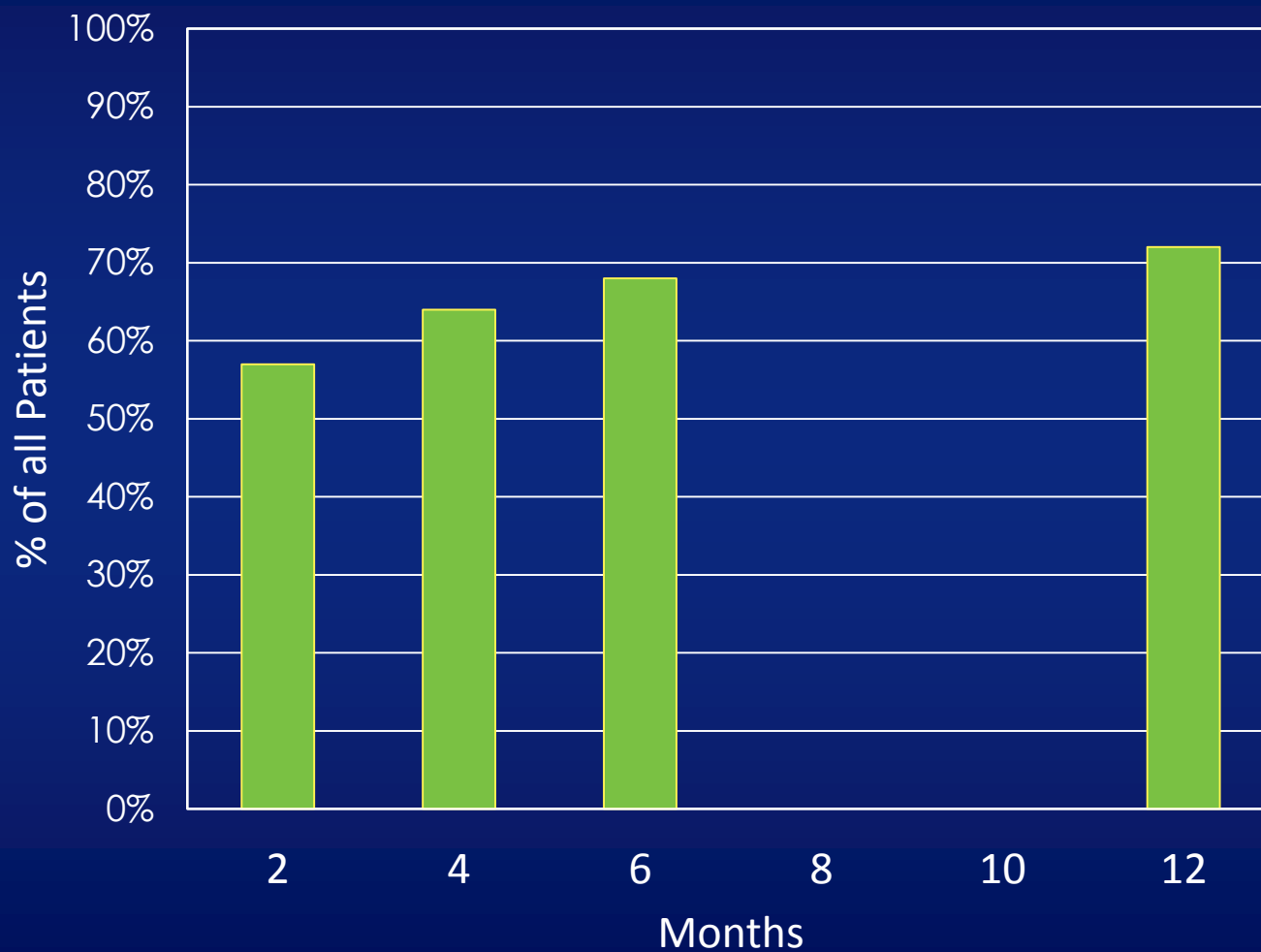
NCI Dissemination/Implementation Grant Awards, 2003-2012



(TBM, Neta et al., 2015)



Usage: Implementation & Sustainment



Moving Forward, #3

#1. Screen and implement what exists now

#2. Expand dissemination/implementation of what exists now.

#3 Stimulate and reinforce innovations in intervention research.

- Optimize interventions (NOT “How low can you go”)
- Expand outcomes
 - e.g., health, costs
- Shift some interventions to eHealth



Moving Forward, #4

#1. Screen and implement what exists now.

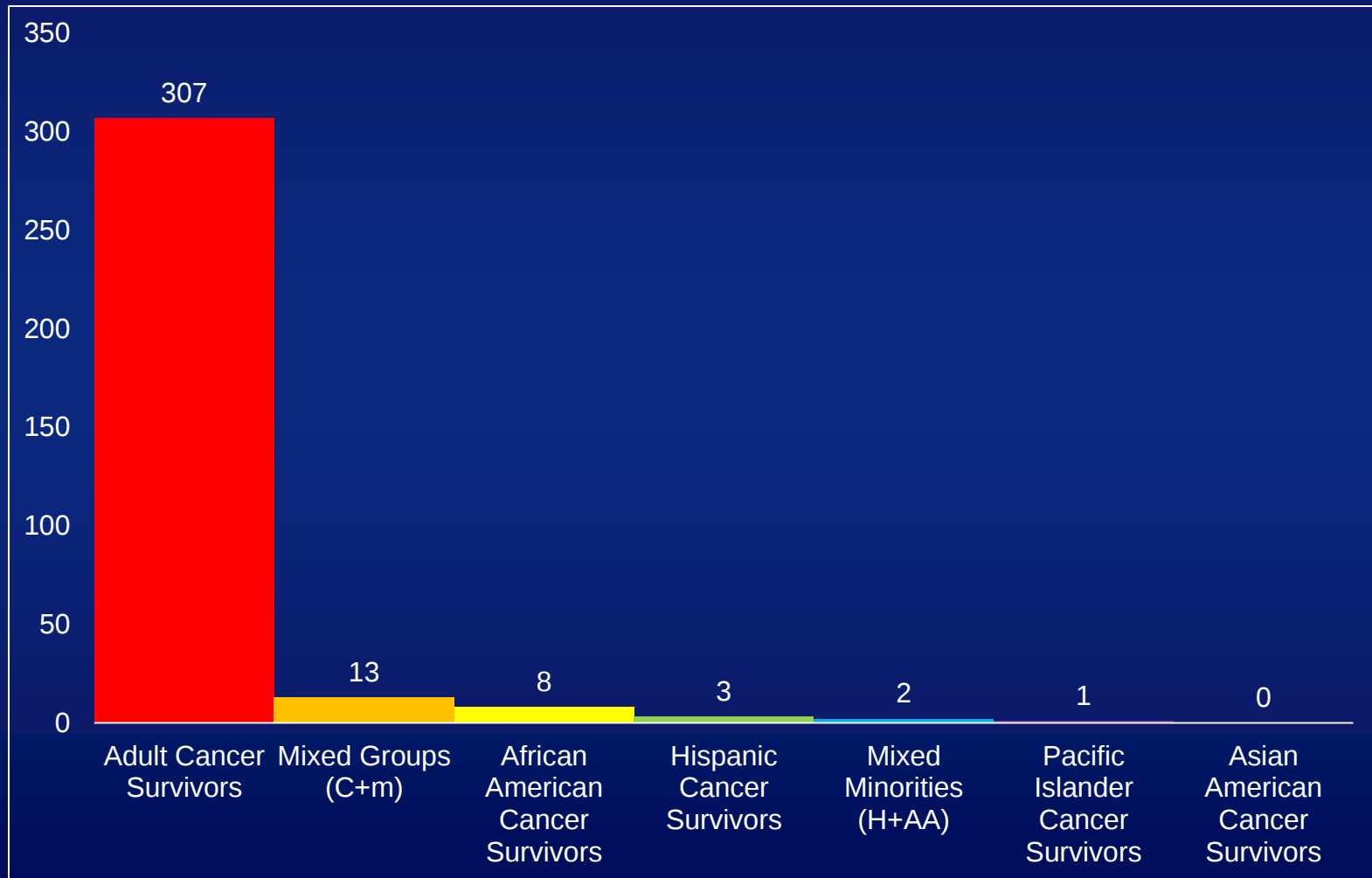
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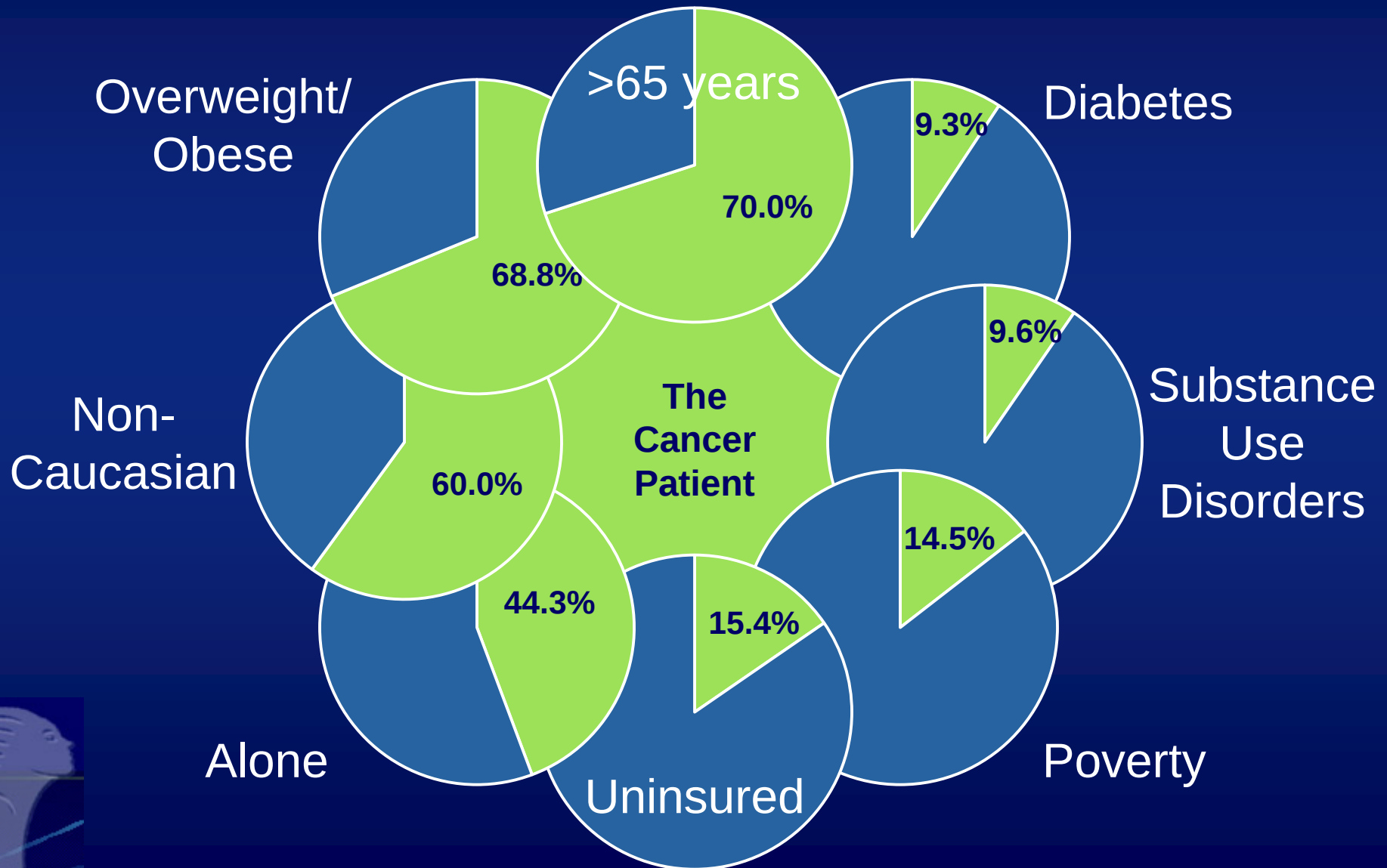
4#. Embrace the “whole” cancer patient.



The Number of Psychosocial Intervention RCTs by 2015



Needs for the Future: Patients



Thank you



Acknowledgments

- American Cancer Society & Longaberger
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- National Institute of Mental Health
R01 MH51487

