

# The Role of Integrative Oncology for Patients with Cancer

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City of Hope

## Disclosures

I do not have any relevant financial relationships.

This presentation and/or comments will provide a balanced, non-promotional, and evidence-based approach to all diagnostic, therapeutic and/or research related content.

## Cultural Linguistic Competency (CLC) & Implicit Bias (IB)

#### **STATE LAW:**

The California legislature has passed <u>Assembly Bill (AB) 1195</u>, which states that as of July 1, 2006, all Category 1 CME activities that relate to patient care must include a cultural diversity/linguistics component. It has also passed <u>AB 241</u>, which states that as of January 1, 2022, all continuing education courses for a physician and surgeon **must** contain curriculum that includes specified instruction in the understanding of implicit bias in medical treatment.

The cultural and linguistic competency (CLC) and implicit bias (IB) definitions reiterate how patients' diverse backgrounds may impact their access to care.

#### **EXEMPTION:**

Business and Professions Code 2190.1 exempts activities which are dedicated solely to research or other issues that do not contain a direct patient care component.

#### The following CLC & IB components will be addressed in this presentation:

- The cultural diversity of traditional medical systems that patients may want to incorporate into their cancer treatments.
- The barriers to accessing integrative services as part of cancer care.

## **Outline**

- Background on Integrative, Complementary, Alternative Medicine (ICAM)
- Evidence-Based Integrative Oncology
- Integrative Oncology at City of Hope

#### **Case 1...**

- 58 y/o woman with metastatic colorectal cancer started on FOLFIRI + bevacizumab
- Her main concerns are about sleep and fatigue
- "By the way, I'm taking some herbs and supplements..."



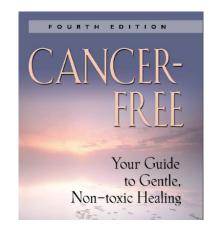


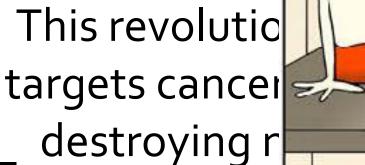
The Top 10

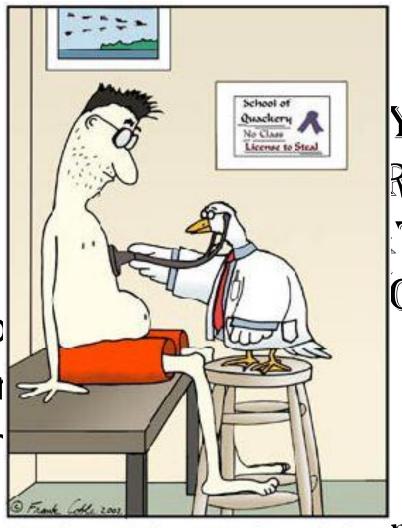
Natural

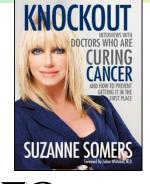
Cancer Cures

#### THE CURE FOR ALL









YOUR CANCER RNATIVE NONTMENTS THAT
ORK

THE CANCER CURE THAT WORKED!

FIFTY YEARS OF SUPPRESSION

Frank started to get a funny feeling rground Cures that his doctor was a quack.

Cancer

#### CANCER, CREDULITY, AND QUACKERY.

BY E. F. BASHFORD, M.D.,

GENERAL SUPERINTENDENT OF RESEARCH AND DIRECTOR OF THE LABORATORY, IMPERIAL CANCER RESEARCH FUND.

#### CANCER CURED



Doctor

Read Testimonials on the Following Pages

hails from America.)

#### THE BRITISH MEDICAL JOURNAL 1221

MAY 27, 1911.]

#### TO ALL WHO SUFFER FROM CANCER.

Here is a Positive Cure



Capited from Successful Agriculture

# Integrative, Complementary, Alternative, and Integrative Medicine (ICAM)

- ◆ National Center for Complementary and Integrative Health (NCCIH)
   2014 National Institutes of Health (NIH)
  - Previously the Office of Alternative Medicine (1991) and the National Center for Complementary and Alternative Medicine (NCCAM) 1998

#### **◆** Definition

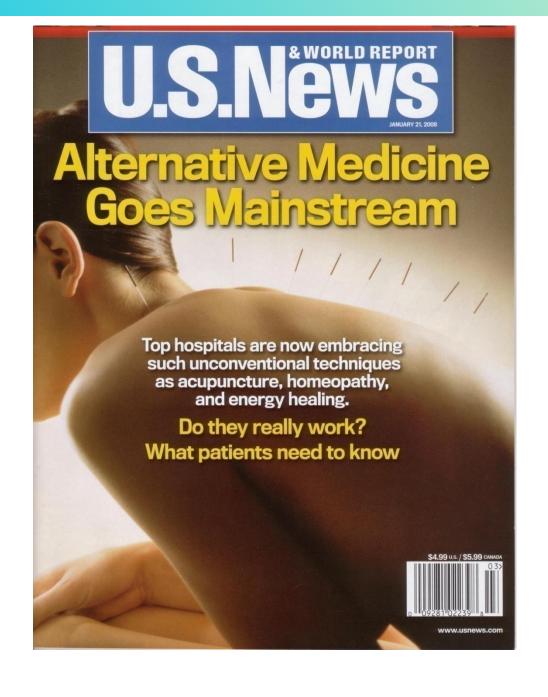
 Healthcare approaches developed outside of mainstream Western or conventional medicine

## **Categories of ICAM - NCCIH**

- 1. Natural Products
  - Dietary supplements, herbal products, shark cartilage
- 2. Mind-Body Interventions
  - Meditation, prayer, mental healing, music therapy
- 3. Body-Based Methods
  - Chiropractic, osteopathic, massage, manipulation
- 4. Other Whole Medical Systems, Energy Therapies, and Movement Therapies
  - Traditional Chinese medicine and Reiki



- The practice of medicine that reaffirms the importance of the relationship between practitioner and patient
- Focuses on the whole person
- Informed by evidence
- Makes use of all appropriate therapeutic approaches, providers, and disciplines to achieve optimal health and healing



## Integrative Oncology Services at NCI Comprehensive Cancer Centers

Service	2009	2016
Physician IM Consultation		60%
Herb/Supplement Consultation	42-44%	89-96%
Meditation	56%	89%
Yoga	56%	87%
Music Therapy	52%	82%
Acupuncture	59%	89%
Massage	54%	84%

## **CAM Use Among Cancer Patients**

Table 1. Proportion of Patients Who Used CAM, Combined CAM With Conventional Therapy, and Discussed CAM With Physician

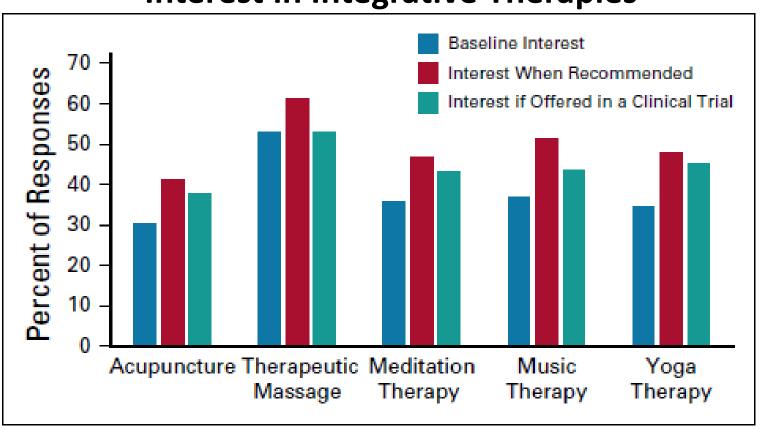
Type of CAM	Heard of CAM (%)	If Heard of CAM, Ever Used (%)	Combined CAM With Conventional Therapy (% of users)	Discussed CAM With Physician (% of users)
CAM overall	99.3	83.3	88.0	61.8
CAM overall excluding spiritual/psychotherapy	95.8	68.7	75.2	60.7
Spiritual practices	95.7	80.5	91.0	36.6
Vitamins/herbs	88.1	62.6	76.6	64.1
Movement/physical therapies	78.4	59.2	66.9	48.4
Psychotherapy	74.0	41.2	58.3	41.1
Mind/body	71.3	48.6	79.5	26.3
Special diet	65.2	32.3	63.2	41.9
Other therapies	64.2	10.5	40.0	15.8

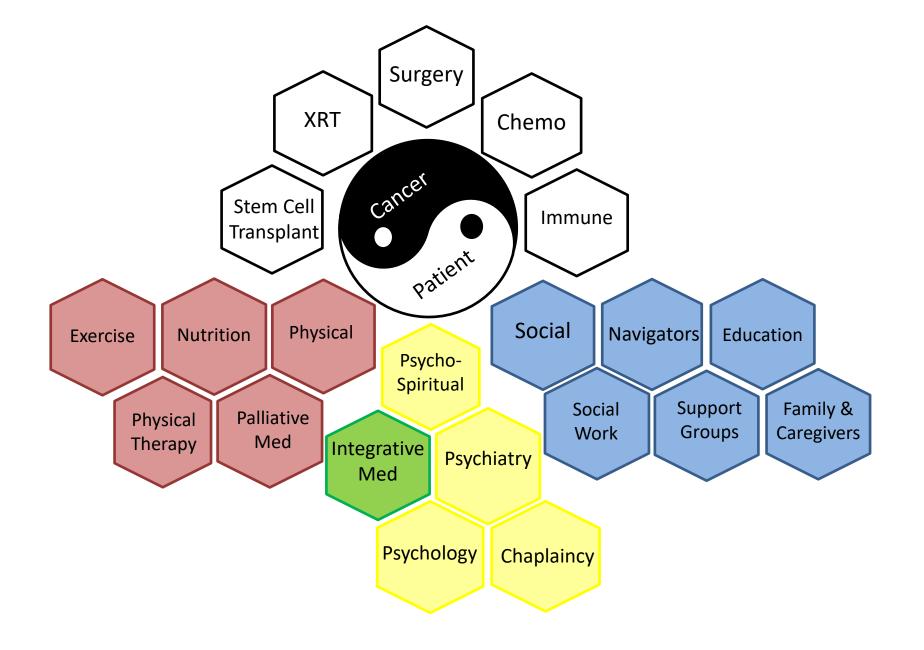
- MD Anderson Cancer Center, 2000
  - ~450 patients

# Interest and Willingness to Pay for Integrative Therapies of Patients With Cancer and Caregivers

Olivia M. Larbi, BA<sup>1</sup>; Cherry Jiang, MD<sup>1</sup>; Bethanny McLane, BA<sup>2</sup>; Gi-Ming Wang, MS<sup>1</sup>; Katherine Daunov, MSN<sup>2</sup>; Sean M. Hobson, BA<sup>2</sup>; Barbara Daly, PhD<sup>1</sup>; Susan R. Mazanec, PhD, RN<sup>1</sup>; Denise Feyes, MS<sup>3</sup>; Samuel Rodgers-Melnick, MT-BC<sup>2</sup>; Ming Li, PhD<sup>1</sup>; Hasina Momotaz, MS<sup>1</sup>; and Richard T. Lee, MD<sup>2,3</sup>

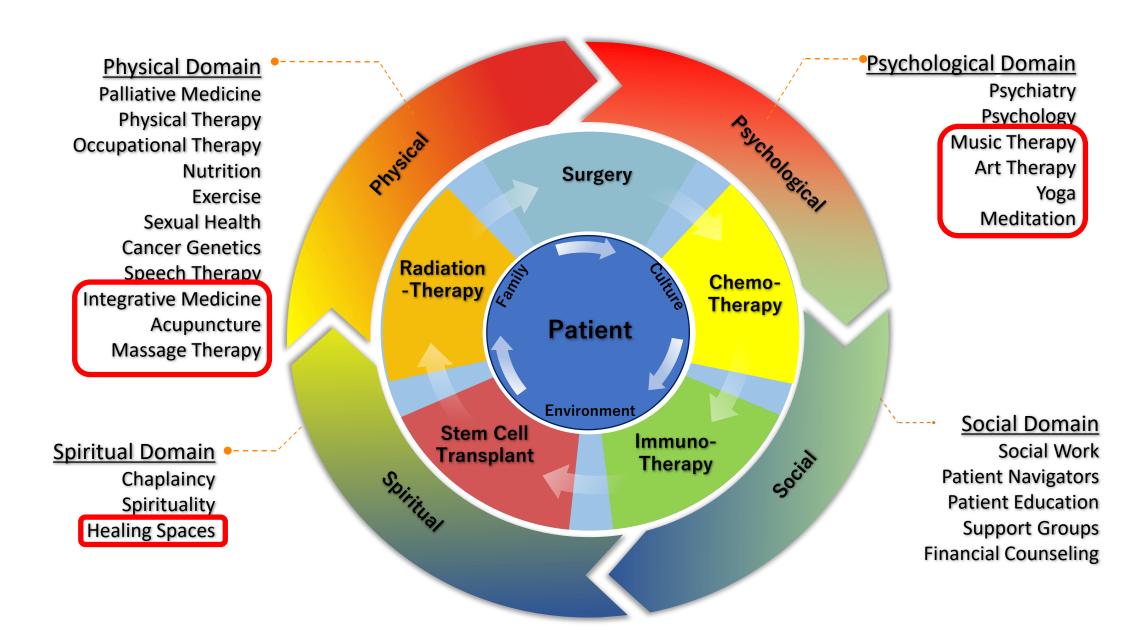
#### **Interest in Integrative Therapies**







#### **Supportive & Integrative Oncology Program Clinical Model**



### Similarities & Differences with Supportive Care

#### **Similarities**

- Symptom management and quality of life
- Holistic philosophy

#### **Differences**

- Optimizing health and wellbeing
- Lifestyle medicine nutrition and exercise
- Use of herbs and supplements for symptom management and anticancer effects

### **Evidence-Based Integrative Oncology**

- Integrative/Holistic Approach => Focus on health and wellness
  - American Cancer Society guidelines for cancer survivorship
- Treatment Options => Education & Research
  - Herbs and supplements
    - Preventing medication interactions
  - Other treatment options: acupuncture, meditation, music therapy, etc.
- Chronic or refractory symptoms (e.g. pain & stress)
  - Evidence-based use of acupuncture, massage, meditation, music/art therapy
- Patients seeking alternative treatments
  - Educate patients about the risks and benefits
  - Monitor these patients for safety and outcomes

## **Nutrition & Physical Activity**

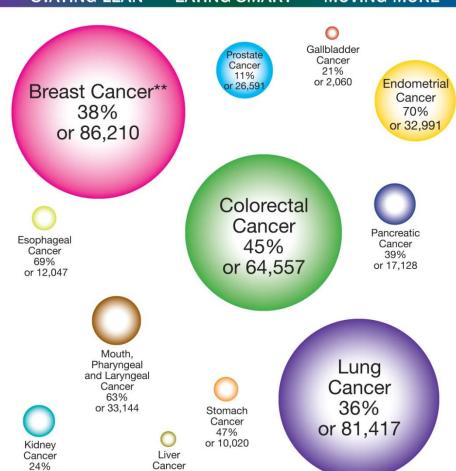


## Americans can prevent of the most common cancers\*

STAYING LEAN

**EATING SMART** 

**MOVING MORE** 





or 15,544

15%

or 4,308

Source: AICR/WCRF, Policy and Action for Cancer Prevention, 2009; Cancer Facts & Figures 2012, American Cancer Society

<sup>\*</sup> Shown for each cancer: estimated percentage of cancers and number of cases that could be prevented annually through healthy diet, regular physical activity and being lean.

<sup>\*\*</sup> Female only

# American Cancer Society nutrition and physical activity guideline for cancer survivors

- Healthy body weight (normal BMI)
- Exercise regularly 150 minutes/week of moderate intensity or 75 minutes of vigorous activity
- 5 servings of fruits and vegetables per day
- Limit processed meat, red meat, and refined grains
- Limit alcohol

## AICR RECOMMENDATIONS FOR CANCER PREVENTION

#### A Blueprint to Beat Cancer

To prevent cancer, people should aim to follow as many of the 10 Cancer Prevention Recommendations as possible. However, any change you make that works toward meeting the goals set out in the Recommendations will go some way to reducing your cancer risk.

#### **BE A HEALTHY WEIGHT**

Keep your weight within the healthy range and avoid weight gain in adult life

#### BE PHYSICALLY ACTIVE

Be physically active as part of everyday life – walk more and sit less



#### EAT A DIET RICH IN WHOLE GRAINS, VEGETABLES, FRUITS AND BEANS

Make whole grains, vegetables, fruits and pulses (legumes) such as beans and lentils a major part of your usual daily diet



#### LIMIT CONSUMPTION OF RED AND PROCESSED MEAT

Eat no more than moderate amounts of red meat, such as beef, pork and lamb. Eat little, if any, processed meat



#### LIMIT CONSUMPTION OF SUGAR-SWEETENED DRINKS

Drink mostly water and unsweetened drinks



#### LIMIT CONSUMPTION OF "FAST FOODS" AND OTHER PROCESSED FOODS HIGH IN FAT, STARCHES OR SUGARS

Limiting these foods helps control calorie intake and maintain a healthy weight



#### LIMIT ALCOHOL CONSUMPTION

For cancer prevention, it's best not to drink alcohol



#### FOR MOTHERS: BREASTFEED YOUR BABY, IF YOU CAN

Breastfeeding is good for both mother and baby



#### AFTER A CANCER DIAGNOSIS: FOLLOW OUR RECOMMENDATIONS, IF YOU CAN

Check with your health professional about what is right for you



#### DO NOT USE SUPPLEMENTS FOR CANCER PREVENTION

Aim to meet nutritional needs through diet alone



Not smoking and avoiding other exposure to tobacco and excess sun are also important in reducing cancer risk. Following these Recommendations is likely to reduce intakes of salt, saturated and trans fats, which together will help prevent other non-communicable diseases.

## **Development of Methotrexate**

The New England

Iournal of Medicine

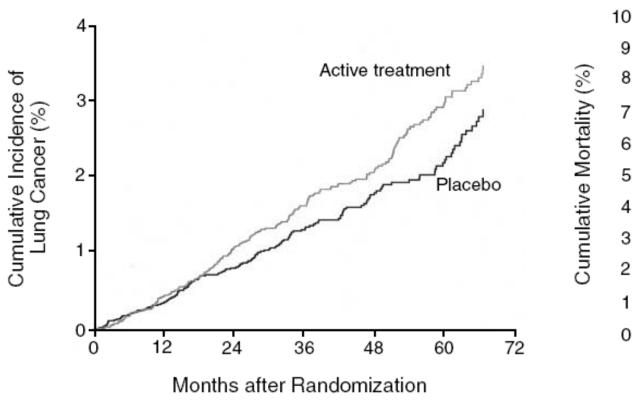
Volume 238

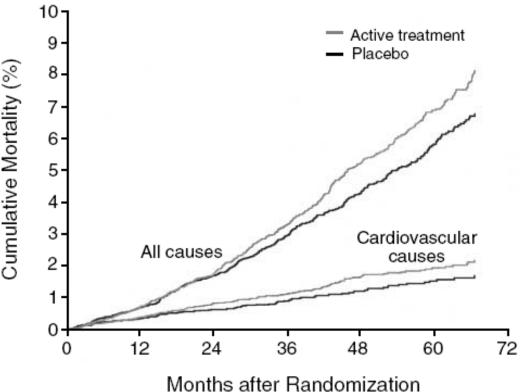
**TEMPOR** FOLIC AC

tients with acute leukemia.2 Post-mortem studies of leukemic infiltrates of the bone marrow and viscera in patients treated with folic acid conju-Number 23 gates were regarded by Farber as evidences of an acceleration of the leukemic processes to a degree not encountered in his experience with some 200 post-mortem examinations on children with acute § leukemia not so treated. It appeared worth while,

BOSTON

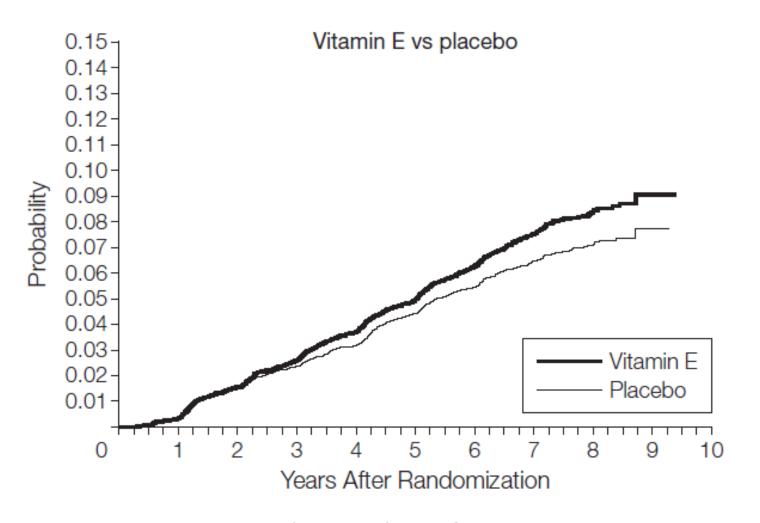
#### EFFECTS OF A COMBINATION OF BETA CAROTENE AND VITAMIN A ON LUNG CANCER AND CARDIOVASCULAR DISEASE





#### Vitamin E and the Risk of Prostate Cancer

The Selenium and Vitamin E Cancer Prevention Trial (SELECT)



**Figure 2.** Cumulative Incidence of Prostate Cancer

JAMA 2011 Klein

#### **Documented Risks**

Acute Cyanide Toxicity Caused by

Apricot Kernel Ingestion

Essiac<sup>®</sup> and Flor-Essence<sup>®</sup> herbal tonics stimulate the *in vitro* growth of human breast cancer cells

Acquired Long QT Syndrome and Monomorphic Ventricular Tachycardia After Alternative Treatment With Cesium Chloride for Brain Cancer

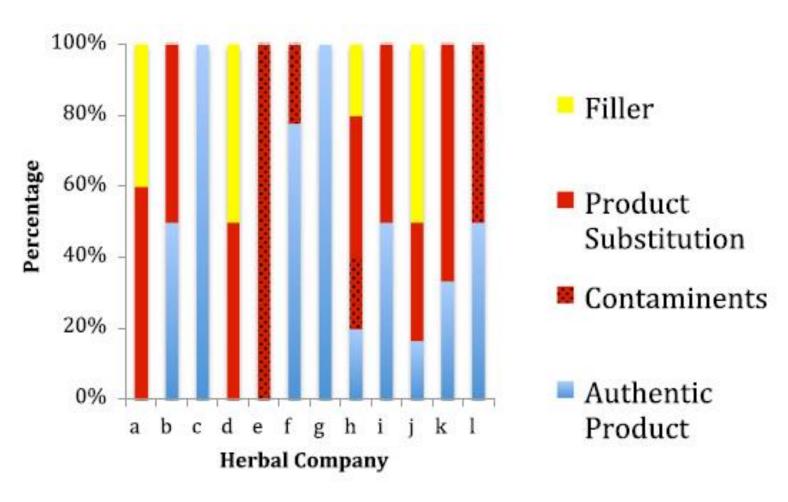
Hepatotoxicity from green tea: a review of the literature and two unpublished cases

UROTHELIAL CARCINOMA ASSOCIATED WITH THE USE OF A CHINESE HERB (ARISTOLOCHIA FANGCHI)

Ayurvedic herbal medicine and lead poisoning

## DNA barcoding detects contamination and substitution in North American herbal products

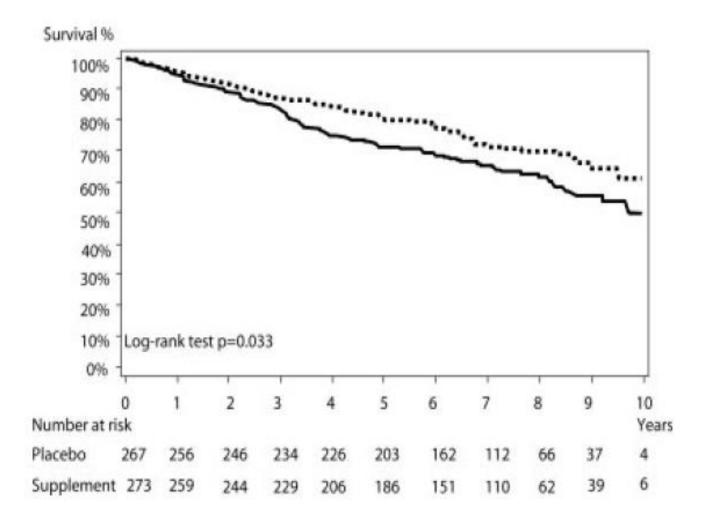
Steven G Newmaster<sup>1\*</sup>, Meghan Grguric<sup>2</sup>, Dhivya Shanmughanandhan<sup>3</sup>, Sathishkumar Ramalingam<sup>3</sup> and Subramanyam Ragupathy<sup>1\*</sup>



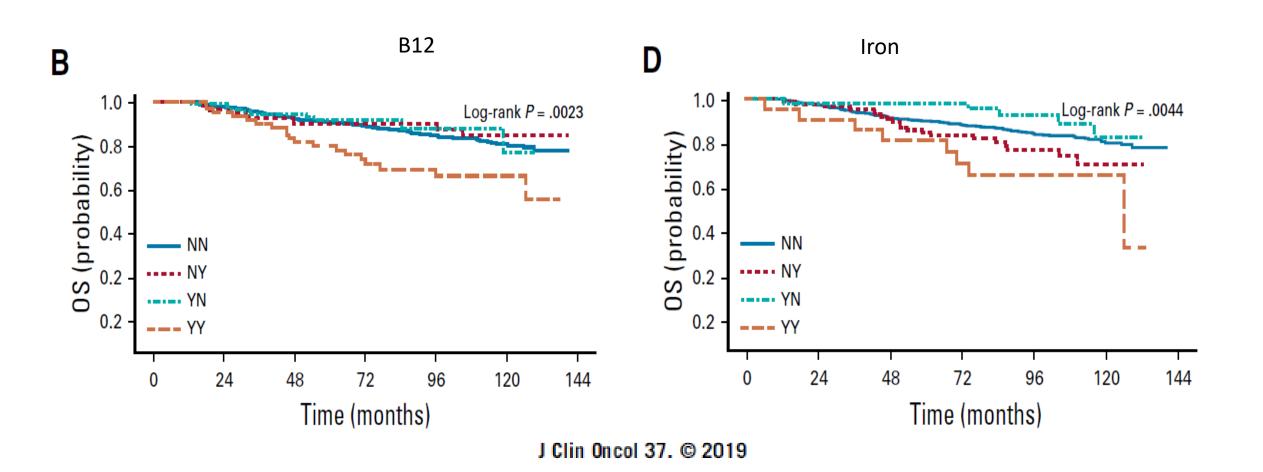
#### **Documented Interactions**

- Beta carotene during radiation therapy
- St. John's Wort
  - Irinotecan, docetaxel, imatinib
- Green Tea
  - Bortezomib
- Ginger, garlic, ginseng
  - Anti-coagulation
  - Imatinib and docetaxel

#### A Randomized Trial of Antioxidant Vitamins to Prevent Second Primary Cancers in Head and Neck Cancer Patients



#### Dietary Supplement Use During Chemotherapy and Survival Outcomes of Patients With Breast Cancer Enrolled in a Cooperative Group Clinical Trial (SWOG SO221)



National Survey of US Oncologists' Knowledge, Attitudes, and Practice Patterns Regarding Herb and Supplement Use by Patients With Cancer

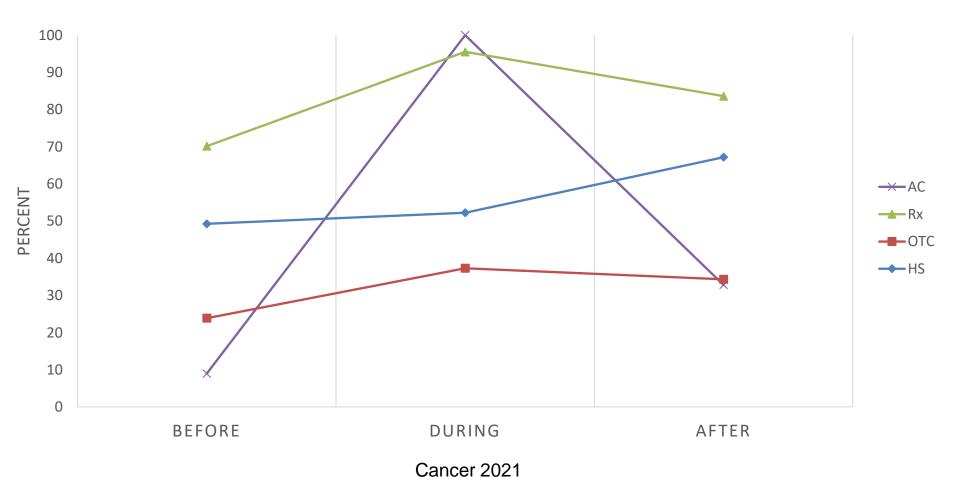
Richard T. Lee, Andrea Barbo, Gabriel Lopez, Amal Melhem-Bertrandt, Heather Lin, Olufunmilayo I. Olopade, and Farr A. Curlin

- 1/3 of patients were using HS during treatment
- 93% of oncologists were concerned about the risk of medication interactions with HS
- Nearly 2/3 reported poor knowledge to answer patients' questions
- -<1/2 received any education about HS</p>

#### Prevalence of Potential Interactions of Medications, Including Herbs and Supplements, Before, During, and After Chemotherapy in Patients With Breast and Prostate Cancer

Richard T. Lee, MD <sup>1</sup>; Nancy Kwon, MS<sup>2</sup>; Jimin Wu, MS<sup>3</sup>; Connie To, PharmD<sup>4</sup>; Steven To, PharmD<sup>4</sup>; Russell Szmulewitz, MD<sup>5</sup>; Raffi Tchekmedyian, MD<sup>6</sup>; Holly M. Holmes, MD<sup>7</sup>; Olufunmilayo I. Olopade, MD<sup>5</sup>; Walter M. Stadler, MD <sup>5</sup>; and Jamie Von Roenn, MD<sup>2</sup>

#### MEDICATION USE BEFORE, DURING, AND AFTER CHEMOTHERAPY

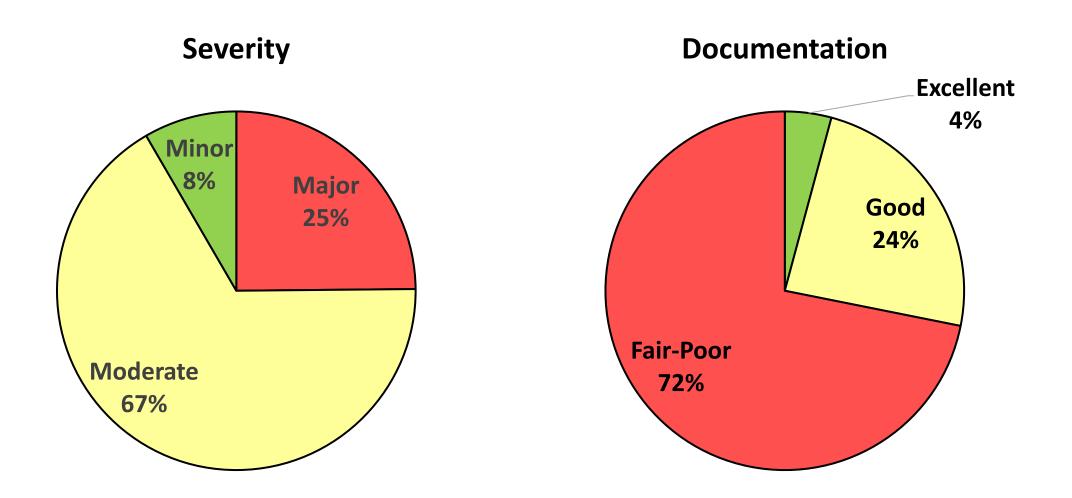


#### **Potential Medication Interactions**

	Before	During	After	Total
Total	259	976	512	1,747
Unique	162	507	277	635
Type of Interaction				
AC Tx	16	229	30	377
Rx	177	677	365	1231
OTC	39	116	100	251
HS	183	448	346	977

94% prevalence of a PMI

### **HS Interactions Severity & Documentation Ratings**



## **Supplements vs Prescriptions**

	Supplements	Prescription Medicines	
Availability	Over-the- Counter	Prescription	
Cost	Variable	High	
Source of Knowledge	Historical/Expert	Clinical Research	
Dosing	Variable	Specific	
Quality	Variable	FDA Approval	
Indication	General	Specific	
Safety	Unclear	Documented	
Mechanism of Action	Unclear	Generally Characterized	
Clinical Effect	Historical	Clinical Trials	

### Ginger (Zingiber officinale) reduces acute chemotherapyinduced nausea: A URCC CCOP study of 576 patients

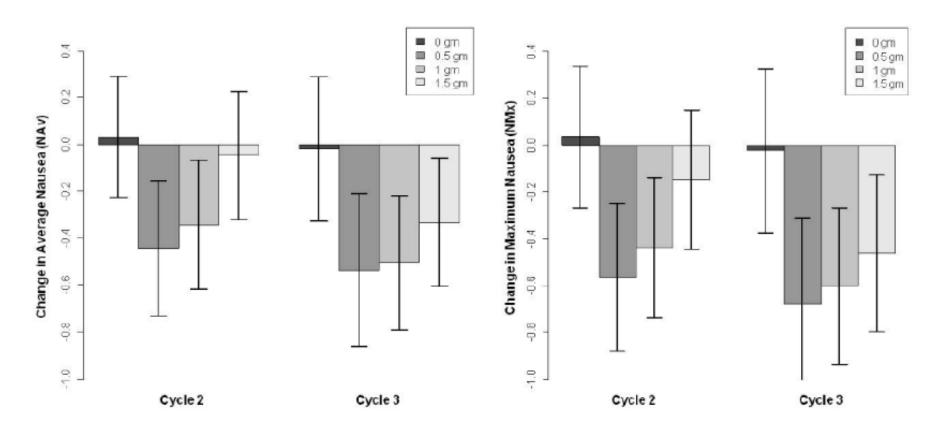
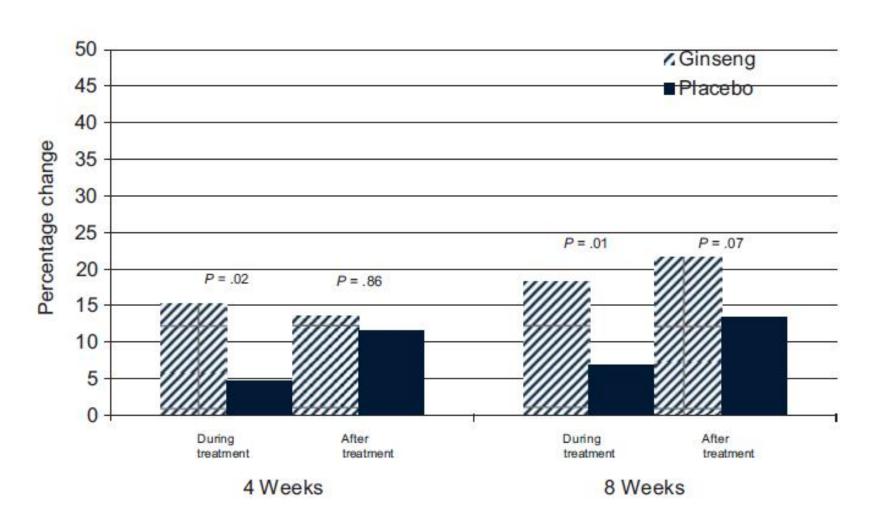


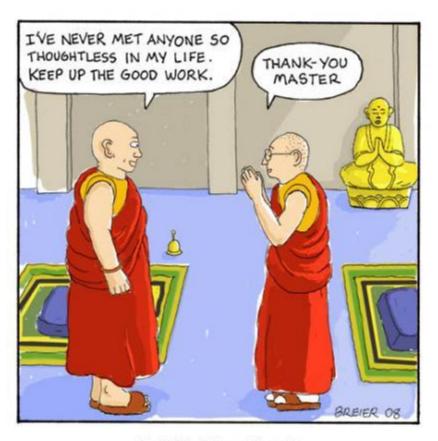
Figure 2. Ginger reduces severity of acute chemotherapy-induced nausea

# Wisconsin Ginseng (*Panax quinquefolius*) to Improve Cancer-Related Fatigue: A Randomized, Double-Blind Trial, N07C2



Multivitamin Use Is Not Associated With Cancer Recurrence or Survival in Patients With Stage III Colon Cancer: Findings From CALGB 89803

- ➤ 1,038 Stage III Colon cancer patients
- Study evaluated multivitamin use both during and after chemotherapy
- ➤ No significant differences found in recurrence, survival, or grade 3/4 side effects from chemotherapy.
  - ➤ Fatigue was reduced by 39%



**Buddhist Compliment** 

## **Mind-Body Practices**

- Stress (A)
- Mood Disturbance (A)
  - Depression
- Quality of Life (A)
- Insomnia (C)







# Adjunctive non-pharmacological analgesia for invasive medical procedures: a randomised trial

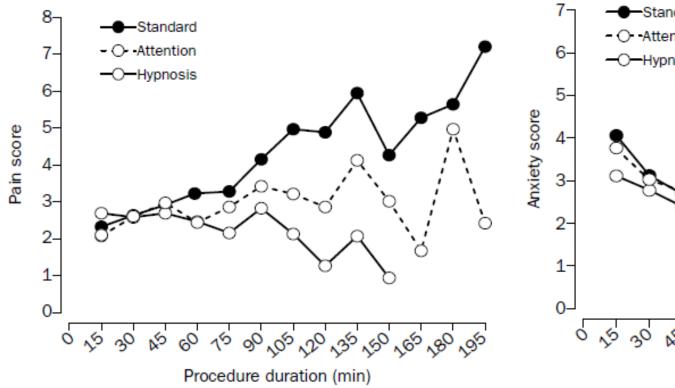


Figure 3: Average pain score as a function of procedure-time interval for each group

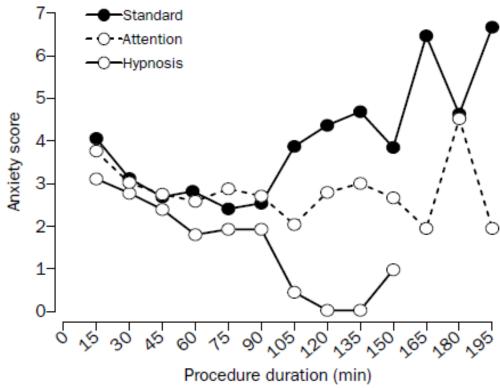
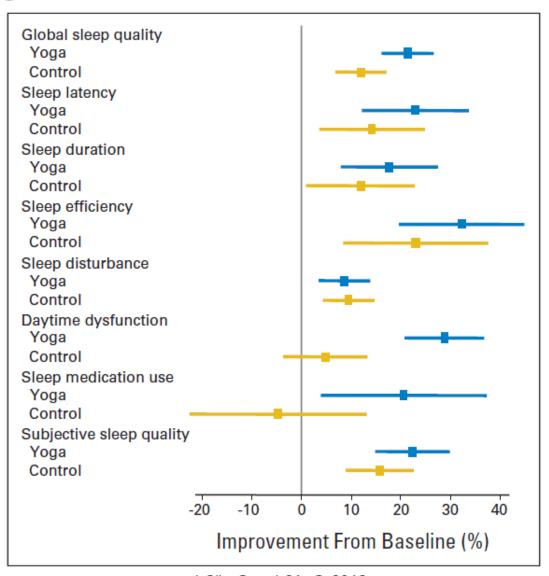


Figure 4: Average anxiety score as a function of procedure-time interval for each group

#### Multicenter, Randomized Controlled Trial of Yoga for Sleep Quality Among Cancer Survivors



CLOSE TO HOME JOHN MEPHERSON CO 1997 John McPhyrson/Dist. by Universal Frees Syndiogra-

"You gotta be kidding! Your back still hurts?!"

### Acupuncture

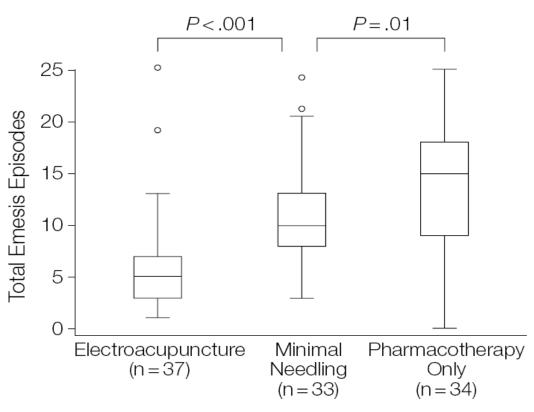
- Nausea (B)
- Pain (C)
- Xerostomia (C)
- Hot Flashes (C)
- Fatigue (C)
- Neuropathy (C)
- · Insomnia



# Electroacupuncture for Control of Myeloablative Chemotherapy—Induced Emesis

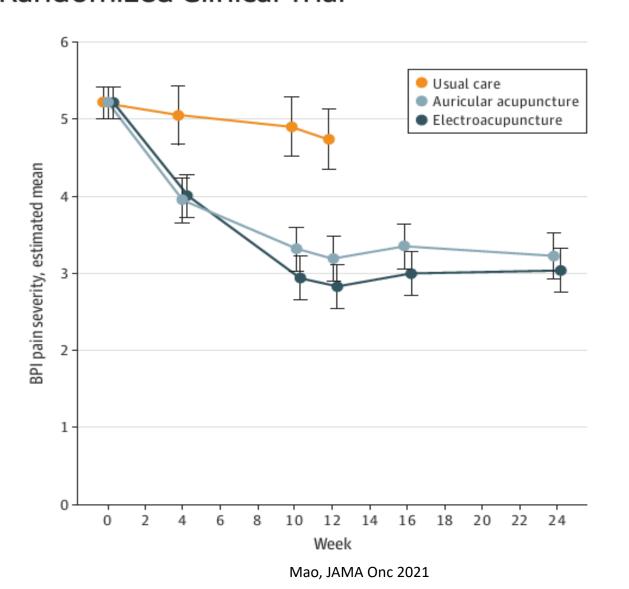
A Randomized Controlled Trial

**Figure 2.** Distribution of the Total Emesis Episodes Per Person During the 5-Day Study Period by Treatment Groups



Shen, JAMA Vol 284, No. 21; 2000

# Effectiveness of Electroacupuncture or Auricular Acupuncture vs Usual Care for Chronic Musculoskeletal Pain Among Cancer Survivors The PEACE Randomized Clinical Trial



# Analgesic Effect of Auricular Acupuncture for Cancer Pain: A Randomized, Blinded, Controlled Trial

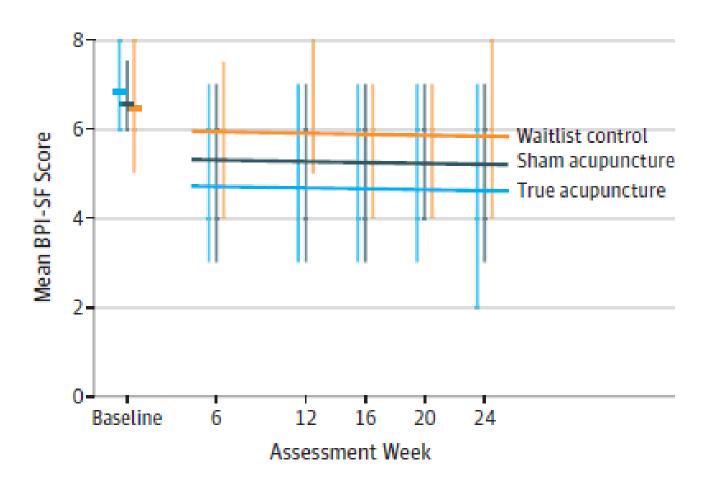
Table 3. Mean Pain Intensity on VAS and Average Electrical Potential Difference at Auricular Points at Baseline, at D30, and at D60

According to the Treatment Group

	Treatment Group						
	Acupuncture (n = 29)		Acupuncture at Placebo Points (n = 28)		Seeds Fixed at Placebo Points (n = 30)		
Outcome	Mean	Range	Mean	Range	Mean	Range	
Pain intensity on VAS							
Baseline	58	32-100	58	32-94	57	32-98	
D30	44	0-75	54	9-100	56	5-89	
D60	37	0-92	55	9-98	58	14-100	
Average electrical potential difference at auricular points							
Baseline	5.7	3.6-7.8	5.6	3.6-7.2	5.4	3.7-7.2	
D30	4.7	1.5-6.1	5.2	0-8.1	5.4	3.0-6.8	
D60	3.9	1.7-7.0	5.5*	2.8-7.4	5.4	2.8-7.2	

# Effect of Acupuncture vs Sham Acupuncture or Waitlist Control on Joint Pain Related to Aromatase Inhibitors Among Women With Early-Stage Breast Cancer

A Worst pain



# Effect of Acupuncture vs Sham Procedure on Chemotherapy-Induced Peripheral Neuropathy Symptoms

Symptoms	Acupuncture	Sham	Usual Care	
		Acupuncture		
Pain	-1.75 (42%)	-0.91 (22%)	-0.19 (4%)	
Tingling	-1.83 (35%)*	-1.22 (22%)	-0.14 (3%)	
Numbness	-1.54 (23%)*	-1.52 (24%)*	0.57 (-9%)	

- Cancer survivors with ≥4 neuropathy
- 8 weeks of acupuncture (10 treatments)

# **Music Therapy**

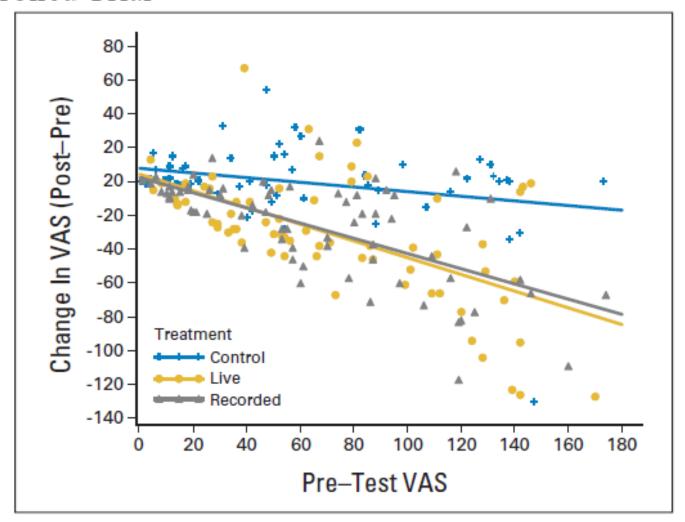


### **Music Therapy**

- Stress & Anxiety (B)
- Mood Disturbance (B)
  - Depression
- Quality of Life (C)
- Pain (C)



Effects of Music Therapy on Anesthesia Requirements and Anxiety in Women Undergoing Ambulatory Breast Surgery for Cancer Diagnosis and Treatment: A Randomized Controlled Trial

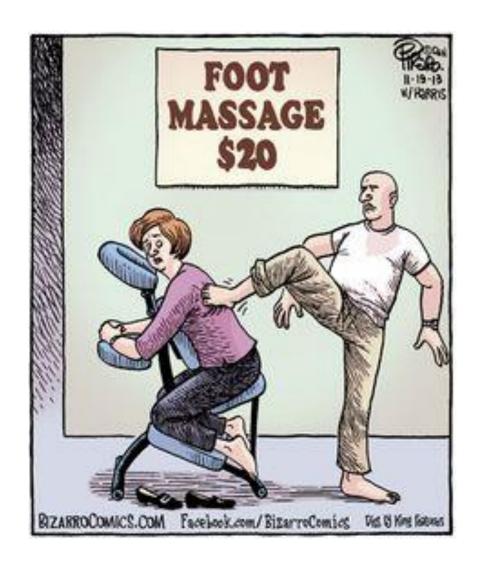


J Clin Oncol 33:3162-3168. © 2015

# Music Therapy to Reduce Pain and Anxiety in Children With Cancer Undergoing Lumbar Puncture: A Randomized Clinical Trial

Table 3. Comparison of Pain Scores and Anxiety Scores Before, During, and After the Procedure

	Pain, Mean (Range, SD)			Anxiety, Mean (Range, SD)			
	Music (n = 20)	Control (n = 20)	<i>P</i> Value	Music (n = 20)	Control (n = 20)	P Value	
Before During	1.2 (0-5, 1.40) 2.35 (0-7, 1.90)	1.75 (0-5, 1.77) 5.65 (1-10, 2.50)	Nonsignificant <.001	8.6 (6-16, 2.78)	13.25 (7-22, 3.73)	<.001	
After	1.2 (0-5, 1.36)	3 (0-7, 2.0)	.003	8.1 (6-13, 2.22)	13.0 (6-21, 4.17)	< .00 l	



## **Oncology Massage Therapy**

- Mood Disturbance (B)
  - Depression
- Anxiety & Stress (C)
- Pain (C)
- Constipation (C)
- Neuropathy



#### **Walton Pressure Scale**











Level 1
Light
Lotioning

Level 2 Heavy Lotioning

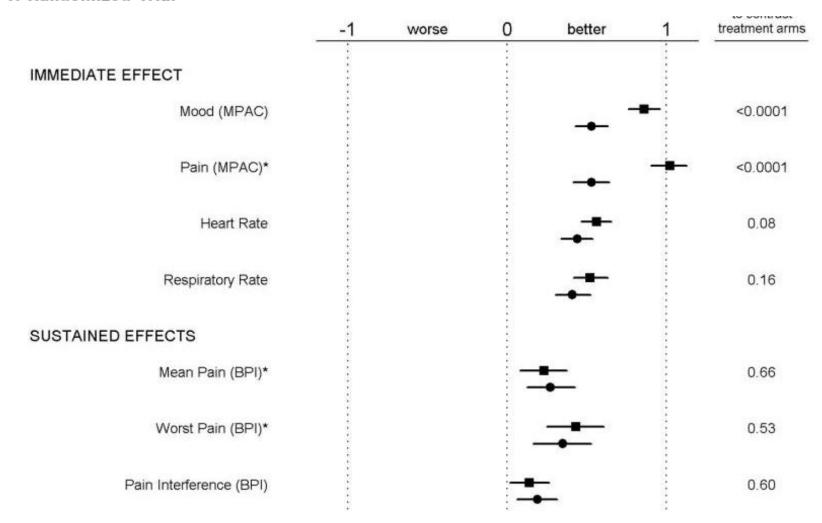
Level 3 Medium Pressure

Level 4
Strong
Pressure

Level 5
Deep
Pressure

# Massage Therapy versus Simple Touch to Improve Pain and Mood in Patients with Advanced Cancer

#### A Randomized Trial



Ann Intern Med. 2008 September 16; 149(6): 369-379.

### Massage Therapy for Symptom Control: Outcome Study at a Major Cancer Center

Barrie R. Cassileth, PhD and Andrew J. Vickers, PhD Integrative Medicine Service (B.R.C., A.J.V.) and Biostatistics Service (A.J.V.), Memorial Sloan-Kettering Cancer Center, New York, New York, USA

#### Improvements in Symptom Scores Following Massage Therapy

Symptom	n	Baseline	Post-treatment	Change	Improvement
Presenting <sup>a</sup>	1290	6.6 (2.5)	3.2 (2.7)	3.4 (2.6)	54.1% (34.1)
Pain	1284	3.6 (2.9)	1.9 (2.2)	1.7 (2)	40.2% (40.9)
Fatigue	1263	4.7 (2.9)	2.7 (2.7)	2.1(2.2)	40.7% (39.1)
Anxiety	1273	4.6 (3.1)	1.8 (2.2)	2.8(2.5)	52.2% (39.5)
Nausea	1255	1.4(2.4)	0.7 (1.6)	0.7(1.6)	21.2% (38.3)
Depression	1254	2.4 (2.8)	1.2 (2)	1.2 (1.9)	30.6% (41.0)
Other	105	6.5 (2.5)	3.4 (2.8)	3.1 (2.8)	46.6% (36.9)

Figures are given as mean (standard deviation).

<sup>&</sup>lt;sup>a</sup>Defined as the symptom with the highest score at baseline.

# National Comprehensive Cancer Network (NCCN) Guidelines for Palliative Care

- Pain
  - Acupuncture, MBSR, relaxation therapy
- Nausea & Vomiting
  - Acupuncture, hypnosis, and CBT
- Dyspnea
  - Stress management and relaxation therapy

### Comprehensive Cancer Adult Cancer Pain

NCCN Guidelines Index
Table of Contents
Discussion

#### INTEGRATIVE INTERVENTIONS

Consider integrative interventions in conjunction with pharmacologic interventions as needed. Integrative interventions may be especially important in vulnerable populations (eg, frail, elderly) in whom standard pharmacologic interventions may be less tolerated or based on patient preference. The utility of integrative interventions underscores the necessity for pain management to be carried out with a team approach that contains a wide range of treatment options. (See PAIN-L)

Pain likely to be relieved or function improved with cognitive, physical, or interventional modalities:

- Cognitive modalities
- ▶ Mindfulness-based stress reduction (MBSR)
- Imagery
- ▶ Hypnosis
- Biofeedback
- Acceptance-based training
- Distraction training
- ▶ Relaxation training
- Active coping training
- ▶ Graded task assignments, setting goals, pacing, and prioritizing
- ▶ Cognitive behavioral therapy (CBT), cognitive restructuring
- Behavioral activation
- Spiritual care (See NCCN Guidelines for Distress Management)
- Physical modalities
- ▶ Bed, bath, and walking supports
- **▶** Positioning instruction
- Instruction in therapeutic and conditioning exercise
- ▶ Energy conservation, pacing of activities
- ▶ Massage
- ▶ Heat and/or ice
- Transcutaneous electrical nerve stimulation (TENS)
- ▶ Acupuncture, electro-acupuncture, or acupressure
- Ultrasonic stimulation
- See Interventional Strategies (PAIN-M)

- Nutritional modalities
- **▶** Nutrition consult
- **▶ Dietary recommendations**
- ▶ Assess and educate on herbal, botanical, and dietary supplements

Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.

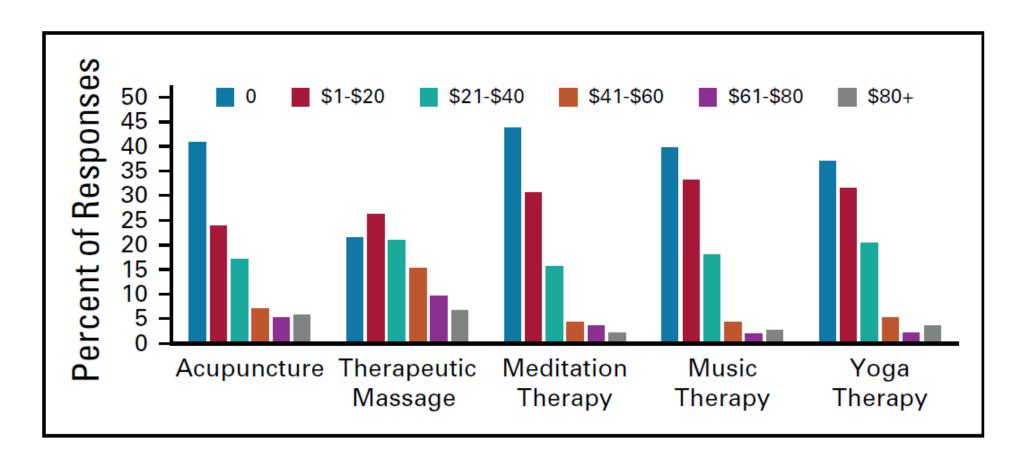
# Integrative Medicine for Pain Management in Oncology: Society for Integrative Oncology-ASCO Guideline

- Acupuncture should be offered to patients experiencing
   Al-related joint pain in breast cancer
- Acupuncture may be offered to patients experiencing general pain or musculoskeletal pain from cancer
- Reflexology or acupressure may be offered to patients experiencing pain during systemic therapy for cancer treatment

# Integrative Medicine for Pain Management in Oncology: Society for Integrative Oncology-ASCO Guideline

- Massage may be offered to patients experiencing chronic pain following breast cancer treatment
- Hypnosis may be offered to patients experiencing procedural pain in cancer treatment or diagnostic workups
- Massage may be offered to patients experiencing pain during palliative and hospice care

#### Willingness to Pay for Integrative Services

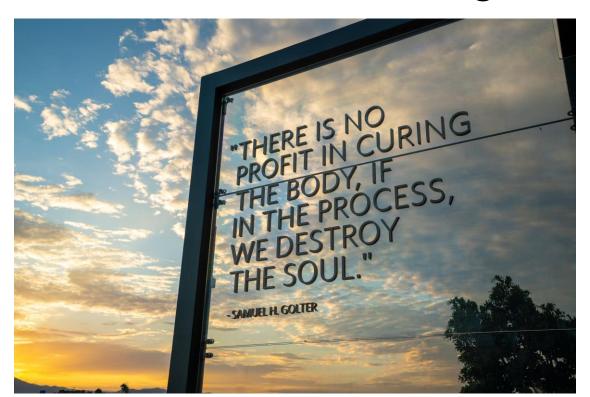


## **Summary**

- Integrative Oncology is one component of a spectrum of supportive care approaches to help optimize cancer care
- Supportive and Integrative Oncology services need to work in coordination with ongoing treatment
- Innovative models of service delivery and research are needed to demonstrate the value of Integrative Oncology

#### **Thank You**

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