

Integrative Oncology

Daniel Glidden, M.S., PA-C

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The Leonard P. Zakim Center for Integrative Therapies & Healthy Living

Dan Glidden, M.S., PA-C

Outline

- ➤ Intro to Integrative Oncology
- ➤ Lifestyle and Cancer Prevention
- Intro to Exercise
- Intro to Nutrition
- > Symptom Management
 - > Pain
 - Fatigue
 - Anxiety & Depression
 - > Insomnia
- Supplements
- Zakim Center Resources

Intro to Integrative Oncology

What is Integrative Medicine?



A holistic approach to healthcare that combines conventional Western medicine with complementary therapies



Focuses on treating the whole person, not just the symptoms of a disease



The key principles of integrative medicine:

Patient-Centered Care



Comprehensive Approach



Evidence-Based Treatment



Combining Treatments



Prevention & Healthy Living 60



Collaborative Care



Integrative Medicine	Alternative Medicine
Used <i>alongside</i> conventional treatments; complimentary	Promoted for use <i>instead of</i> conventional treatment
Evidence-based	Unsubstantiated claims
Non-invasive	Often biologically invasive
Relatively Inexpensive	Often very costly
Focused on side effects and pain management	Touted as curative

What is integrative oncology?

A patient-centered, evidence-informed field of comprehensive cancer care that utilizes mind-body practices, natural products, and lifestyle modifications from different traditions alongside conventional cancer treatments

Types of Integrative Therapies



1. Mind-body therapies

2. Massage





3. Acupuncture

4. Nutrition







5. Physical Activity

Mind-body Therapies

- Meditation
- Hypnosis
- Guided Imagery
- Progressive Muscle relaxation
- Yoga
- Qigong
- Mindfulness-based interventions



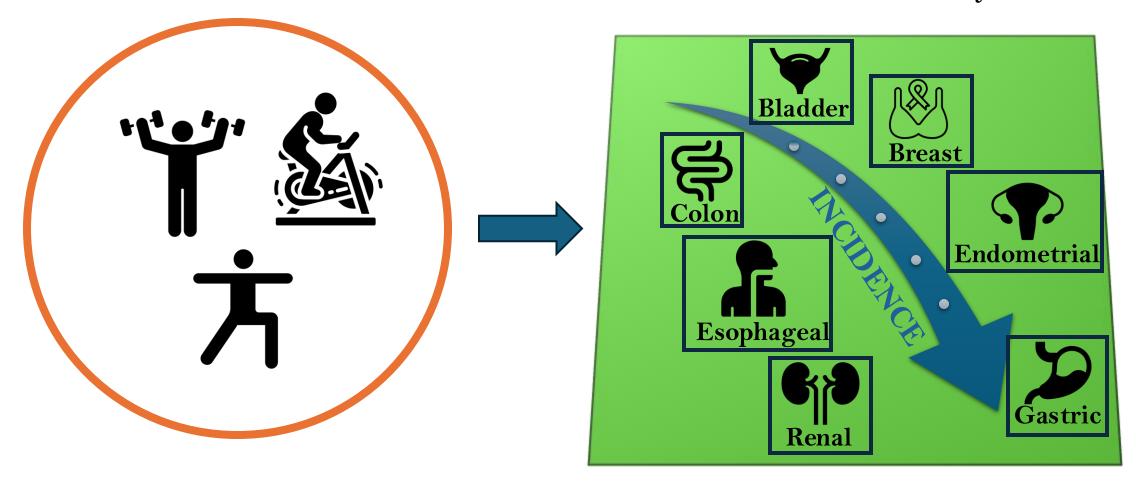
>~19% of cancer cases in the US are directly attributable to lifestyle







Exercise is associated with a 10% to 20% reduced incidence of many cancers:





Recommendations for Cancer Prevention

The American Cancer Society recommends the following:



Get to and stay at a healthy body weight throughout life.

Be physically active.



Exercise

ADULTS should get 150-300 minutes moderate-intensity activity/week



0

75-150 Minutes vigorous-intensity activity/week

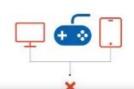
a combination of the two through the week



CHILDREN AND TEENS should get at least 1 hour of moderate- or vigorous-intensity activity each day.

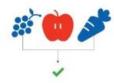
Limit sedentary behavior

- Screen-based entertainment
- · Sitting around
- · Lying down



Follow a healthy eating pattern.

More fruits and veggies ... less junk



- Foods high in vitamins, minerals, and other nutrients in amounts that help you get to and stay at a
 healthy body weight
- A colorful variety of vegetables dark green, red, and orange
- · Fiber-rich beans and peas
- · A colorful variety of whole fruits
- · Whole grains, like whole wheat bread and brown rice



- Red meats such as beef, pork, and lamb and processed meats such as bacon, sausage, deli meats, and hot dogs
- · Sugar-sweetened beverages
- · Highly processed foods and refined grain products

It is best not to drink alcohol



- If you do choose to drink alcohol, women should have no more than one drink per day and men should have no more than two drinks per day.
- · A drink is 12 ounces of regular beer, 5 ounces of wine, or 1.5 ounces of 80-proof distilled spirits.



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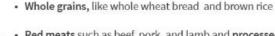


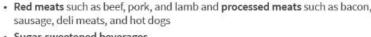
CHILDREN AND TEE of moderate- or vige

Adults Who Closely Adhere to this Guideline Have:

- > 10% to 20% lower risk of cancer diagnosis
- > 24% to 30% lower risk of cancer mortality

ounts that help you get to and stay at a





- Sugar-sweetened beverages
- · Highly processed foods and refined grain products

It is best not to drink alcohol



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- A drink is 12 ounces of regular beer, 5 ounces of wine, or 1.5 ounces of 80-proof distilled spirits,



American Institute for Recommendations for Cancer Prevention



Be a Healthy Weight



Be Physically Active



Eat a diet rich in whole grains, vegetables, fruit, beans



Limit fast foods & processed foods



Limit red & processed meat



Limit sugar-sweetened drinks



Limit alcohol



Do not rely on supplements

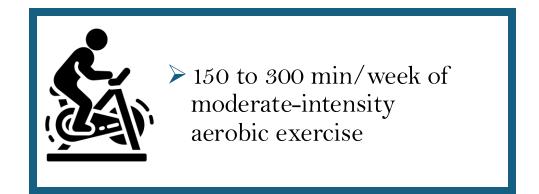


Breastfeed if possible



After cancer diagnosis, follow recommendations if feasible

Exercise prescription for primary and secondary prevention of cancer





- > 53% of Americans meet the aerobic exercise guidelines
- > 23% meet both aerobic and strength training guidelines combined

Intro to Nutrition

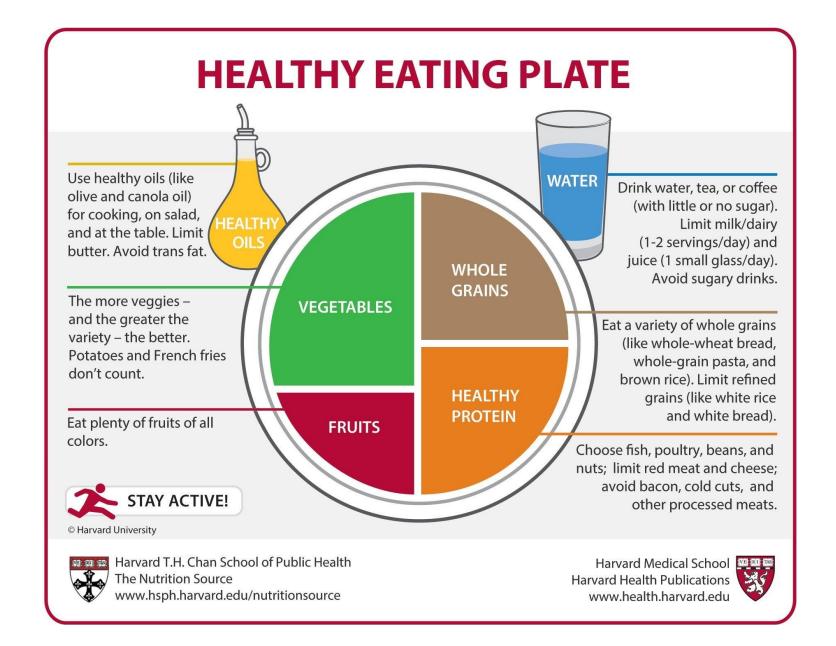
Mediterranean Diet May Cut Cancer Risk

What is the Mediterranean Diet?

- A variety of fruits, vegetables, legumes, poultry, fish, nuts, seeds, olive oil
- Low consumption of meat and dairy products

Various meta-analyses and RCT (PREDIMED trial) indicate associations between greater adherence to the Mediterranean diet and significant reductions in:

- Weight gain:
- Risk factors for diabetes and cardiovascular diseases
- Overall mortality
- > cancer incidence and mortality
- Incidence of Alzheimer's and Parkinson's disease



When in Doubt:

Follow Cancer Preventions Guidelines



Be a Healthy Weight



Eat a diet rich in whole grains, vegetables, fruit, beans



Limit fast foods & processed foods



Limit red & processed meat



Limit sugar-sweetened drinks



Limit alcohol



Do not rely on supplements

Intro to Exercise



During Treatment Benefits (Exercise)



Fatigue

QoL

Physical Function

Anxiety

Depression

Lymphedema

General Exercise Guidelines:



➤ 150 to 300 min/week of moderate-intensity aerobic exercise



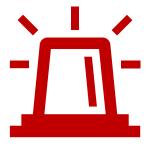
Twice-weekly progressive resistance exercise

Coletta et al. Exercise Across the Cancer Care Continuum: Why It Matters, How to Implement It, and Motivating Patients to Move. Am Soc Clin Oncol Educ Book 42, 932-938(2022).

Exercise Prescriptions for Relevant Health Outcomes:

Outcom	ne	Aerobic Only	Resistance Only	Combination (Aerobic + Resistance)
Strong	Evidence	Dose	Dose	Dose
	Cancer-related atigue	3x/week for 30 min per session of moderate intensity	2x/week of 2 sets of 12-15 reps for major muscle groups at moderate intensity	3x/week for 30 min per session of moderate aerobic exercise, plus 2x/week of resistance training 2 sets of 12-15 reps for major muscle groups at moderate intensity
	lealth-related quality of life	2-3x/week for 30-60 min per session of moderate to vigorous	2x/week of 2 sets of 8-15 reps for major muscle groups at a moderate to vigorous intensity	2-3x/week for 20-30 min per session of moderate aerobic exercise plus 2x/week of resistance training 2 sets of 8-15 reps for major muscle groups at moderate to vigorous intensity
00 P	Physical Function	3x/week for 30-60 min per session of moderate to vigorous	2-3x/week of 2 sets of 8-12 reps for major muscle groups at moderate to vigorous intensity	3x/week for 20-40 min per session of moderate to vigorous aerobic exercise, plus 2-3x/week of resistance training 2 sets of 8-12 reps for major muscle group at moderate to vigorous intensity
A A	Anxiety	3x/week for 30-60 min per session of moderate to vigorous	Insufficient evidence	2-3x/week for 20-40 min of moderate to vigorous aerobic exercise plus 2x/week of resistance training of 2 sets, 8-12 reps for major muscle groups at moderate to vigorous intensity
(Depression	3x /week for 30-60 min per session of moderate to vigorous	Insufficient evidence	2-3x/week for 20-40 min of moderate to vigorous aerobic exercise plus 2x/week of resistance training of 2 sets, 8-12 reps for major muscle groups at moderate to vigorous intensity
(i)	ymphedema	Insufficient evidence	2-3x/week of progressive, supervised, program for major muscle groups does not exacerbate lymphedema	Insufficient evidence

LANDMARK EVIDENCE ALERT!









A Phase III Study of the Impact of a Physical Activity Program on Disease-Free Survival in Patients with High-Risk Stage II or Stage III Colon Cancer:

The CHALLENGE Trial (CO.21)

Christopher M. Booth, Janette L. Vardy, Christopher J. O'Callaghan,
Sharlene Gill, Christine M. Friedenreich, Rebecca K.S. Wong,
Haryana M. Dhillon, Victoria Coyle, Neil Sun Chua, Derek J. Jonker,
Philip J. Beale, Kamal Haider, Patricia A. Tang, Tony Bonaventura, Ralph Wong,
Howard J. Lim, Matthew E. Burge, Patti O'Brien, Dongsheng Tu, Kerry S. Courneya

CHALLENGE Trial

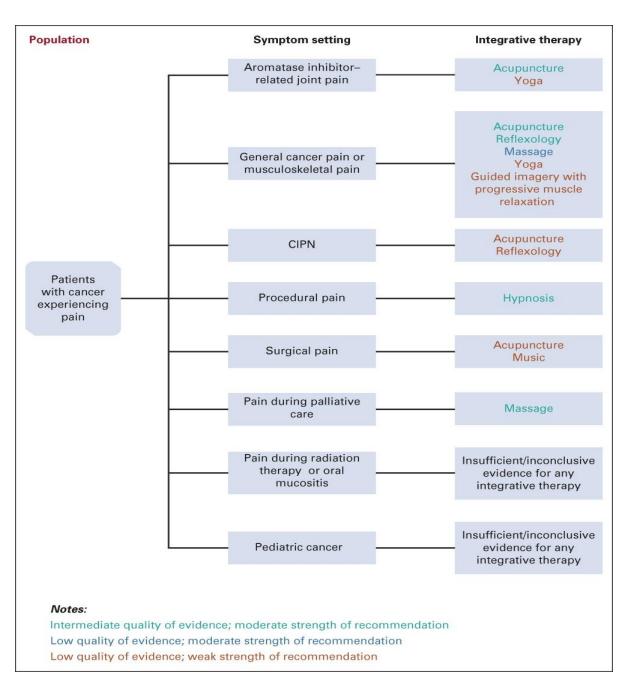
➤ 3-year structured exercise program after adjuvant chemotherapy for colon cancer

- Significantly improved disease-free survival (6.4%) and overall survival (7.1%) compared to health education alone
- The **FIRST** RCT to demonstrate direct improved DFS and OS with exercise

Symptom Management

Symptom Management: Pain

ASCO-SIO Pain Guidelines



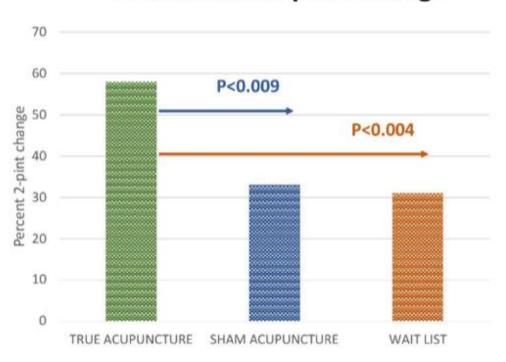
Mao et al, J Clin Oncol

Biweekly Acupuncture for 6 Weeks Significantly Reduced AIMSS vs Placebo + Usual Care

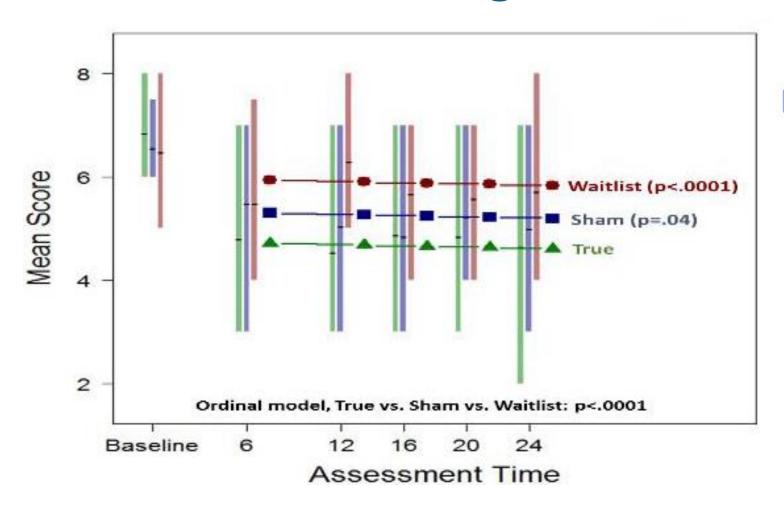
WORST PAIN	Fitted Difference*	P-value
True v. Sham	0.92 (0.20-1.65)	.01
True v. Waitlist	0.96 (0.24-1.67)	.01
Sham v. Waitlist	0.05 (-0.81-0.90)	.92

^{*} Corrected for baseline score and study site

Percent with 2-point change



Effects Lasted Through Week 24 Follow-Up



Linear Mixed Model Worst Pain (BPI)

Yoga Therapy for AIMSS

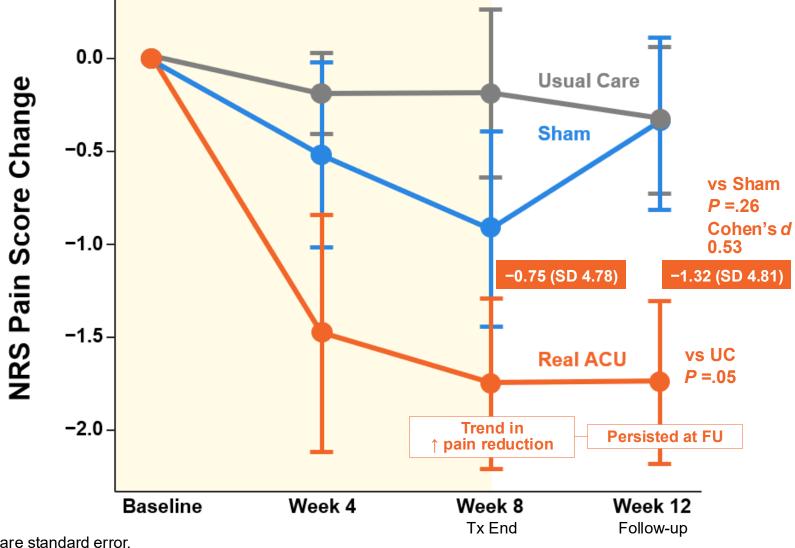
- Pilot study: A yoga program twice weekly for 8 weeks significantly improved balance and flexibility, and reduced pain for patients with AIMSS without significant side effects¹
- Multisite RCT secondary analysis: Yoga improves AIMSS by reducing pain and physical discomfort²

It is reasonable to recommend exercise and yoga to patients experiencing AIMSS

- 1. Galantino ML, et al. Integr Cancer Ther 2012;11: 313–20
- 2. Peppone LJ, et al. Breast Cancer Res Treat 2015;150:597-604

CIPN Pain

Mean absolute reduction measured by NRS



Bars are standard error.

UC: n=21 | Sham: n=23 | Real ACU: n=24

Bao T et al. JAMA Network 2020

Acupuncture vs Massage for Pain in Patients Living With Advanced Cancer

The IMPACT Randomized Clinical Trial

Andrew S Epstein ^{1, M}, Kevin T Liou ¹, Sally A D Romero ², Raymond E Baser ³, Greta Wong ¹, Han Xiao ¹, Zunli Mo ⁴,

Desiree Walker ¹, Jodi MacLeod ¹, Qing Li ¹, Margaret Barton-Burke ⁵, Gary E Deng ¹, Katherine S Panageas ³, John

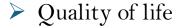
T Farrar ⁶, Jun J Mao ^{1, M}

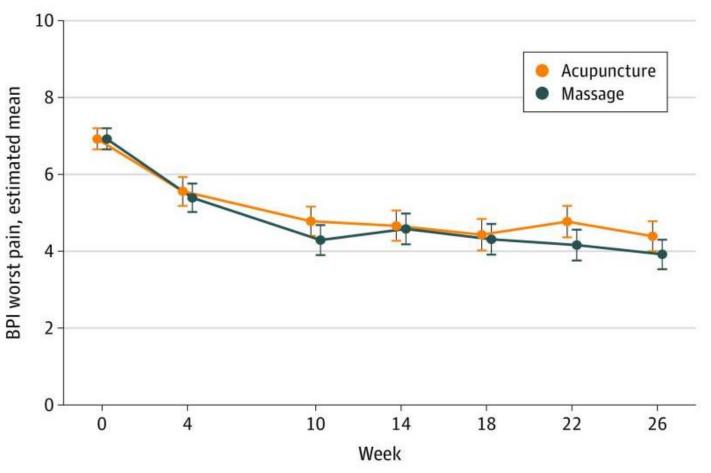
► Author information ► Article notes

PMCID: PMC10646731 PMID: 37962891

Both Treatments Associated With:

- Pain reduction
- ➤ Improved:
 - Fatigue
 - > Insomnia

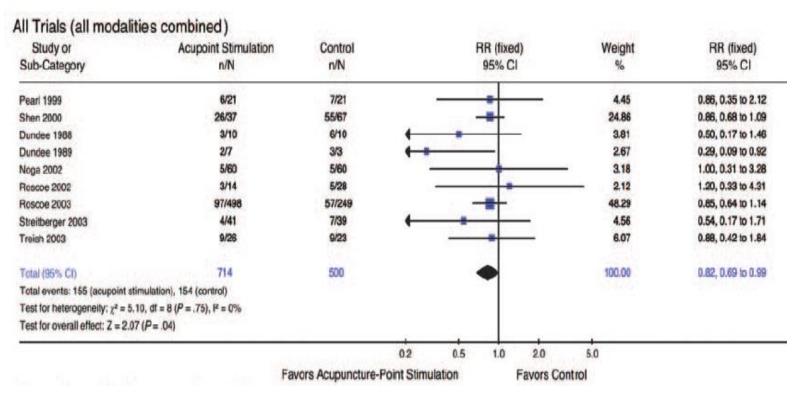




Symptom Management: Nasea and Vomiting

Acupuncture for Chemotherapy-Induced Nausea/Vomiting

2005 Meta-analysis¹

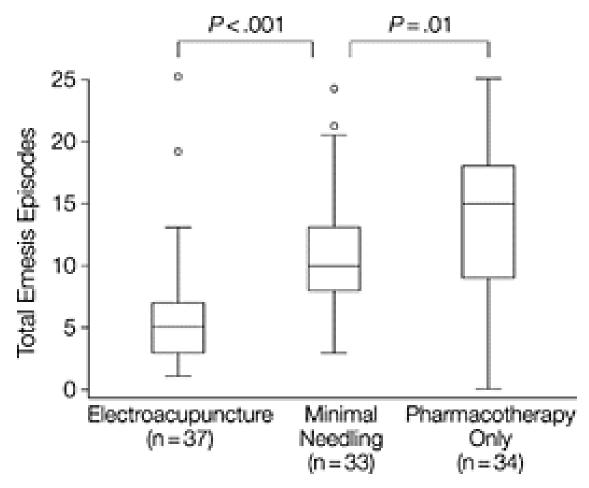


2013 Systematic review²

- 11 RCTs / 1 low ROB: 3-arm, parallel group RCT³
 - N = 104: 37 EA / 33 SA / 34 antiemetics. EA > SA > Usual care alone

- 1. Ezzo et al. J Clin Oncol 23:7188-98, 2005
- 2. Garcia et al. *J Clin Oncol* 31:952-60, 2013
- 3. Shen et al. JAMA 284:2755-61, 2000

Distribution of Total Emesis Episodes Per Person



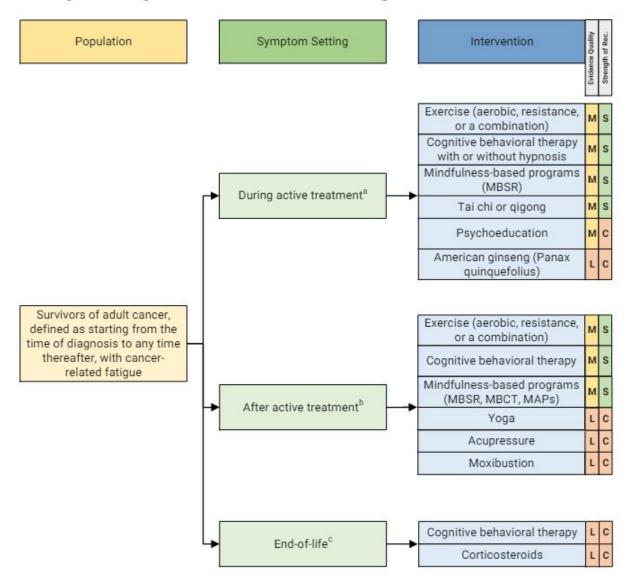
Shen et al. JAMA 284:2755-61, 2000

Symptom Management:

Fatigue

ASCO-SIO Fatigue Guidelines

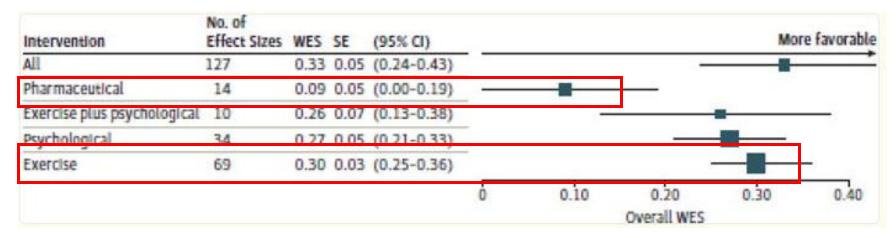
Management Algorithm for Cancer-Related Fatigue



Comparison of Pharmaceutical, Psychological, and Exercise Treatments for Cancer-Related Fatigue: A Meta-analysis

Karen M Mustian ¹, Catherine M Alfano ², Charles Heckler ¹, Amber S Kleckner ¹, Ian R Kleckner ¹, Corinne R Leach ², David Mohr ³, Oxana G Palesh ⁴, Luke J Peppone ¹, Barbara F Piper ⁵, John Scarpato ⁶, Tenbroeck Smith ², Lisa K Sprod ⁷, Suzanne M Miller ⁶





Symptom Management: Anxiety & Depression

MBIs should be offered to people with cancer both during active treatment and post-treatment for anxiety and depression



INTEGRATIVE ONCOLOGY CARE OF SYMPTOMS OF ANXIETY AND DEPRESSION IN ADULT PATIENTS WITH CANCER

GUIDELINE AT-A-GLANCE RECOMMENDED INTERVENTIONS

Anxiety

During Active Treatment

- Mindfulness-based interventions
- Yoga
- Hypnosis
- Relaxation therapy
- Music therapy or musicbased interventions
- Reflexology
- · Lavender essential oil inhalation

Post-Treatment

- Mindfulness-based interventions
- Yoga
- Acupuncture
- Tai chi and/or gigong
- Reflexology

Depression

During Active Treatment

- · Mindfulness-based interventions
- Yoga
- Relaxation therapy
- Music therapy or musicbased interventions
- Reflexology

Post-Treatment

- Mindfulness-based interventions
- Yoga
- Tai chi and/or gigong

Carlson et al J Clin Oncol 2023 asco.org/survivorship-quidelines

Note. Evidence quality and strength of recommendations are available in the guideline publication

Based on several metaanalyses and systematic reviews that included up to 29 individual **RCTs**

Mindfulness-Based Interventions (MBI)

Therapeutic approaches that incorporate mindfulness practices (incl. meditation & yoga):



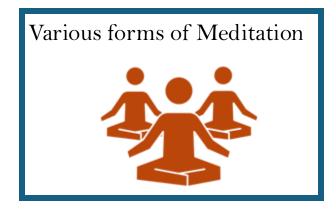


- ➤ Goal: To promote mental health and well-being
- > Typically group format with weekly meetings (in person or virtual) over 6-9 weeks





> Participants learn skills of mindfulness through the daily home practice of







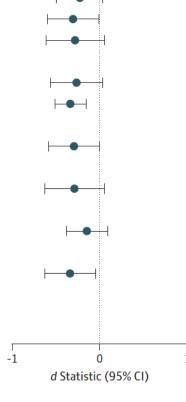
Meditation Reduces Anxiety

Systematic Review/ Meta-Analysis 47 trials • 3515 participants

A Comparisons of Meditation Programs With Nonspecific Active Controls (Efficacy)

Outcome	Meditation Program	Clinical Population	No. of Trials, Total (PO); PA (MA)	Direction (Magnitude) of Effect	Strength of Evidence
Anxiety	Mindfulness	Various (n = 647)	8 (3); 7 (7)	↑(0% to +44%)	Moderate for improvement
	Mantra	Various (n = 237)	3 (2); 3 (3)	Ø (-3% to +6%)	Low for no effect
Depression	Mindfulness	Various (n = 806)	10 (4); 9 (8)	↑(-5% to +52%)	Moderate for improvement
	Mantra	Various (n = 440)	5 (1); 5 (3)	↑↓(-19% to +46%)	Insufficient
Stress/Distress	Mindfulness	Various (n = 735) ^a	9 (4); 8 (7)	↑(+1% to +21%)	Low for improvement
	Mantra	Select (n=239)	4 (2); 4 (2)	Ø (-6% to +1%)	Low for no effect
Negative Affect	Mindfulness	Various (n = 1140) ^b	14 (5); 12 (11)	↑(-1% to +44%)	Low for improvement
	Mantra	Various (n = 438) ^c	5 (2); 5 (0)	↑↓(-3% to +46%)	Insufficient
Positive Affect	Mindfulness	Various (n = 293)	4 (0); 4 (4)	↑(+1% to +55%)	Insufficient
	TM (mantra)	CHF (n=23)	1 (0); 1 (0)	Ø (+2%)	Insufficient
Quality of Life	Mindfulness	Various (n = 346)	4 (2); 4 (3)	↑(+5% to +28%)	Low for improvement
Attention	Mindfulness	Caregivers (n = 21)	1 (0); 1 (0)	↑(+15% to +81%)	Insufficient
Sleep	Mindfulness	Various (n = 578)	6 (2); 4 (4)	↑↓(-3% to +24%)	Insufficient
Substance Use	TM	CAD (n = 201)	1 (0); 0 (0)	Ø	Insufficient
Pain	Mindfulness	Select (n=341)	4 (2); 4 (4)	↑(+5% to +31%)	Moderate for improvement
	TM (mantra)	CHF (n=23)	1 (0); 1 (0)	Ø (-2%)	Low for no effect
Weight	TM (mantra)	Select (n=297)	3 (0); 2 (0)	Ø (-1% to +2%)	Low for no effect

Goyal M, et al. Meditation programs for psychological stress and well-being: a systematic review and meta-analysis. *JAMA Intern Med.* 2014;174:357-368.



Favors

Mediation

Favors

Control

MBIs should be offered to people with cancer both during active treatment and post-treatment for anxiety and depression



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Post-Treatment

- Mindfulness-based interventions
- Yoga
- Acupuncture
- Tai chi and/or gigong
- Reflexology

Depression

During Active Treatment

- · Mindfulness-based interventions
- Yoga
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- Music therapy or musicbased interventions
- Reflexology

Post-Treatment

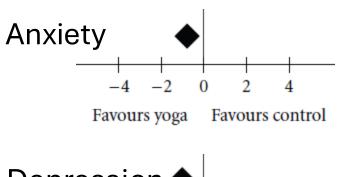
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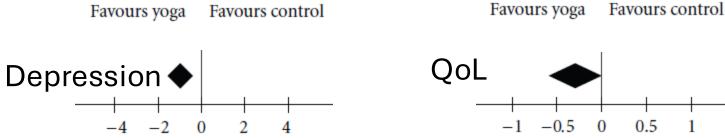
Carlson et al J Clin Oncol 2023 asco.org/survivorship-quidelines

Based on several metaanalyses and systematic reviews that included up to 29 individual **RCTs**

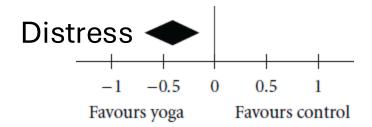
Yoga Reduces Symptoms and Improves QoL

Favours control

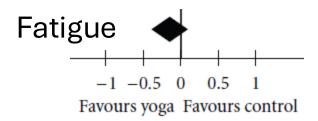




Stress



Favours yoga



Favours control

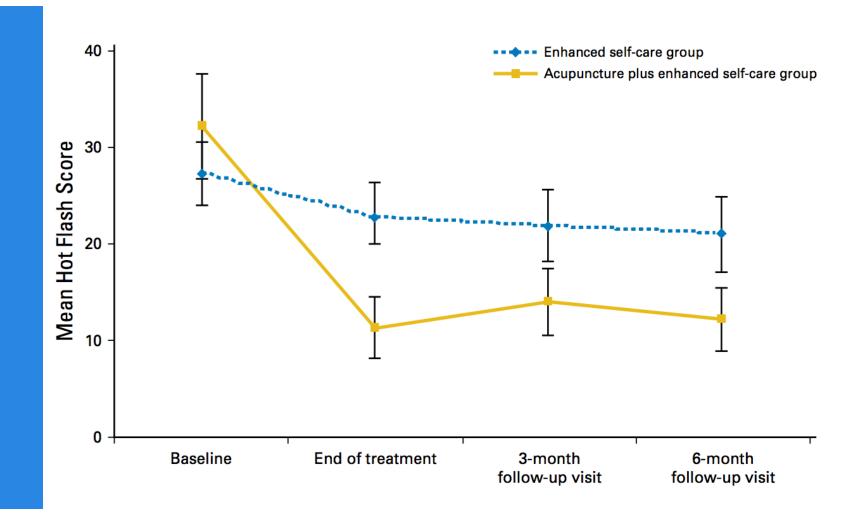
Favours yoga

Lin KY, et al. Effects of yoga on psychological health, quality of life, and physical health of patients with cancer: a meta-analysis. *Evid Based Complement Alternat Med*. 2011;2011:659876.

Symptom Management: Vasomotor Symptoms

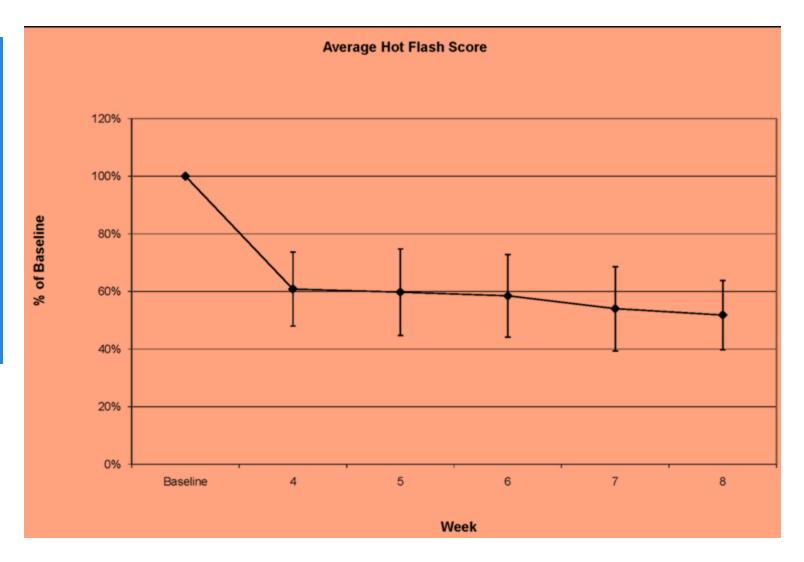
Acupuncture and Vasomotor Symptoms

- AcCliMaT Trial (n=190)
- 2016 pragmatic RCT
 compared individualized
 acupuncture plus an
 enhanced self-care
 regimen with enhanced
 self-care alone
- Combination therapy
 was superior in reducing
 hot flash scores both at
 treatment end and
 3- and 6-mo follow-up



Acupuncture and Vasomotor Symptoms

- Pilot study (n=22) in men on ADT for Prostate Cancer
- Received EA biweekly x4 weeks, then weekly for 6 weeks
- 55% responded w/ at least50% HF reduction



Symptom Management: Insomnia



CHoosing Options for Insomnia in Cancer Effectively

Insomnia has deleterious effects and occurs in up to 60% of cancer survivors

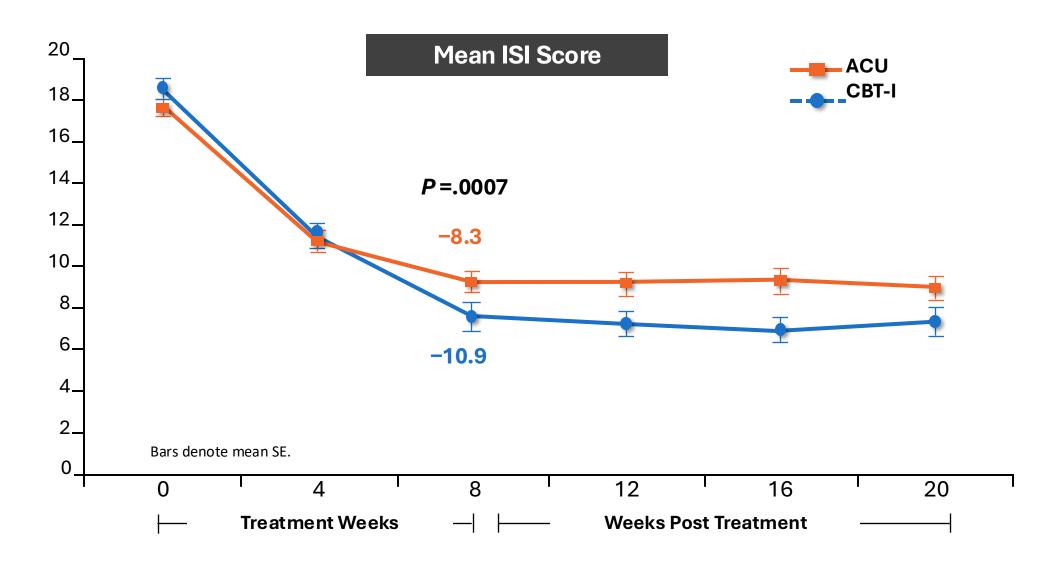
Cognitive behavior therapy for insomnia (CBT-I) ^{1,2}

- Effective
- Poor adherence and non-response
- Not accessible
 - 1. Johnson et al. Sleep Med Rev 2016 27:20-28
 - 2. Matthews et al. Behav Sleep Med 2012;10:217-229
 - 3. Yun et al. J Natl Cancer Inst Monogr 2017, 2017
 - 4. Zia et al. J Natl Cancer Inst Monogr 2017, 2017

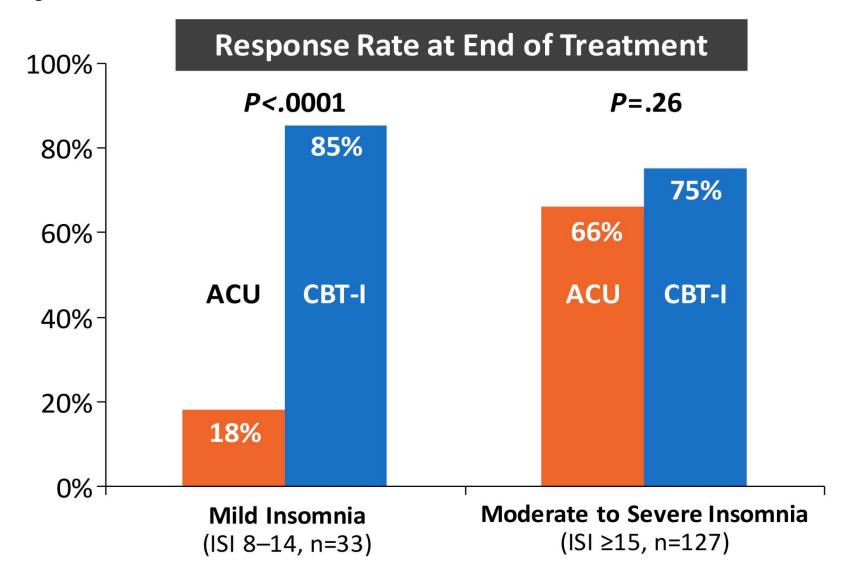
Acupuncture 3,4

- Modulates brain regions involved in cognition and emotion
- Increasing evidence for pain, hot flashes, and related sleep disturbance
- At 73% of US cancer centers

Primary Results



Primary Results



Tai Chi for Insomnia

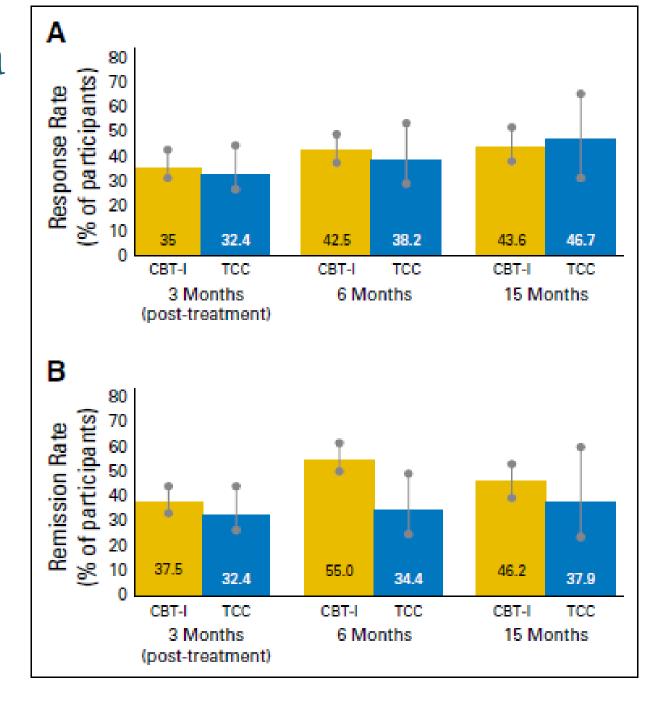
90 were randomly assigned (CBT-I: n = 45; TCC: n = 45).

The proportion of participants who showed insomnia treatment response at 15 months was 43.7% and 46.7% in CBT-I and TCC, respectively.

Tests of noninferiority showed that TCC was noninferior to CBT-I at 15 months (P = .02) and at months 3 (P = .02) and 6 (P < .01).

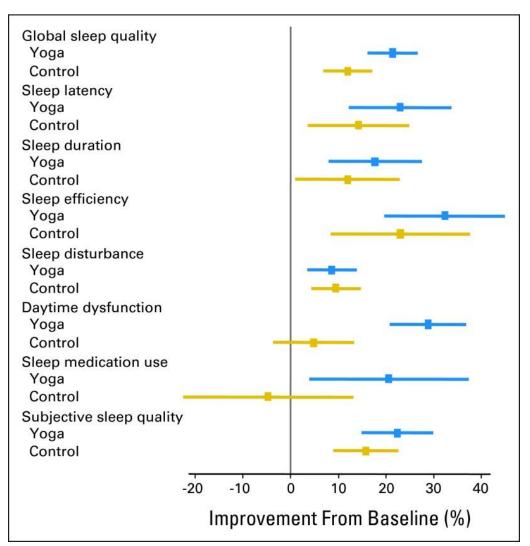
For secondary outcomes, insomnia remission was 46.2% and 37.9% in CBT-I and TCC, respectively.

Irwin et al, JCO 2017



Yoga Improved Sleep Quality Among Cancer Survivors

- 410 survivors w/ moderate to severe sleep disruption
- standard care or standard care plus the 4-week yoga intervention
- pranayama (breathing exercises), 16 Gentle Hatha and Restorative yoga asanas (postures), and meditation
- two 75-minute sessions per week
- Sleep quality was assessed by using the Pittsburgh Sleep Quality Index and actigraphy pre- and postintervention
- Yoga participants demonstrated greater improvements in global sleep quality and, secondarily, subjective sleep quality, daytime dysfunction, wake after sleep onset, sleep efficiency, and medication use at postintervention (all $P \le .05$) compared with standard care participants.



Supplements

Herbs and Dietary Supplements: Current Practices



➤ High prevalence of usage among people living with cancer (64-81%)



Typically used to optimize health, complement cancer treatment, and assist or replace a healthy diet



Supplement use feels empowering and a way to take back control



➤ Supplements are not currently recommended for cancer prevention or to augment cancer treatment



Velicer J Clin Oncol 2008 Miller CA Cancer J Clin 2016 Greenlee CA Cancer J Clin 2017 Mao J Clin Oncol 2022



Recommendations for Cancer Prevention



Be a Healthy Weight



Be Physically Active



Eat a diet rich in whole grains, vegetables, fruit, beans



Limit fast foods & processed foods



Limit red & processed meat



Limit sugar-sweetened drinks



Limit alcohol



Do not rely on supplements



Breastfeed if possible



After cancer diagnosis, follow recommendations if feasible

Guidelines from Oncology Organizations



➤ All attempts should be made to **obtain needed nutrients through dietary sources** before considering supplements



Can be considered if a nutrient deficiency is noted biochemically (vitamin D, B12) or clinically (low bone density)



➤ Should be considered if **nutrient intake** is persistently **below 2/3** of recommended intake level



Herbs and Dietary Supplements:Potential for Harm



>Supplements are not regulated by the FDA



Quality, contamination and adulteration issues





> Potential for supplement-drug interactions



➤ Potential to increase chemotherapy toxicity or decrease efficacy

Herbs and Dietary Supplements: More Research is Needed

➤ Most supplement claims rely on **preclinical** data



> Test tube and animal studies



?

> Do results translate to benefits in humans?

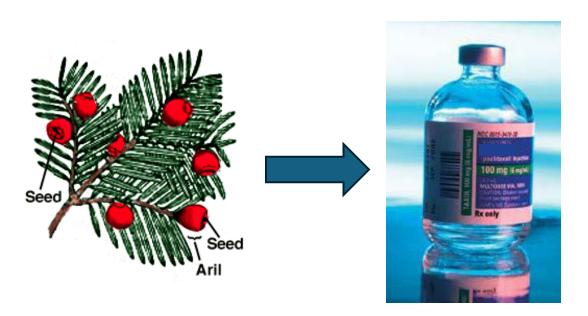


➤ When promising preclinical data is found, this can lead to large scale clinical trials

Herbs and Dietary Supplements: More Research is Needed

Example: Pacific Yew Tree → Taxol chemotherapy development

- > 1964: discovery that extracts were toxic to oral epidermoid carcinoma cells in a test tube
- ➤ 1971: Chemical structure of Taxol was isolated and published
- ➤ 1977: Antitumor activity was confirmed in animal models
- ➤ 1980s large-scale human trials were conducted
- ➤ 1992: FDA approval



About Herbs Website 290+ monographs; each contains

- Clinical Summary
- Scientific Name
- Common Names
- Patient Use
- Constituents
- Mechanism of Action
- Warnings/Adverse

Reactions

- Drug Interactions
- Dosage
- Literature Summary and

Critique

References





www.mskcc.org/aboutherbs

Herbs and Dietary Supplements: Bottom Line



Use supplements with caution



Try to achieve nutritional needs through diet alone



- > Speak with your oncologist regarding current or planned supplement use
- Oncologists: ask your patients about supplement use!

Zakim Center Resources









The Leonard P. Zakim Center for Integrative Therapies & Healthy Living

Dan Glidden, M.S., PA-C

What is the Zakim Center?

➤ Provides patient-centered integrative medicine services and programs that are evidence-informed and support patient well-being before, during and after cancer treatment



On-site Acupuncture and Massage



Nutrition Education



Yoga and Exercise classes



Expressive Arts Therapy



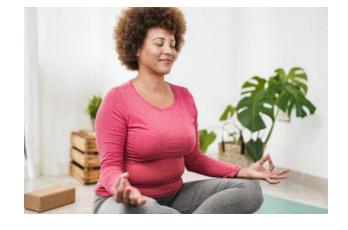
Meditation sessions and Mindfulness-Based Stress Reduction courses



Integrative Medicine Consultations







Zakim Group Programs (virtual and in-person)*

Exercise

- Aerobics & Cardio Workouts
- Strength Training
- Core Strength
- Yoga Flow, Yogalates
- Chair Yoga & Chair Strength
- Dance & Movement
- Tai Chi
- Qigong

Expressive Arts

- Creative Arts Workshops
- Journaling for Self Care
- Meditation with Live Music
- Music Therapy for Better Sleep

Meditation & Mindfulness

- Meditation drop-in sessions
- Mind Body Book Discussion
- Mind Body Resilience Online

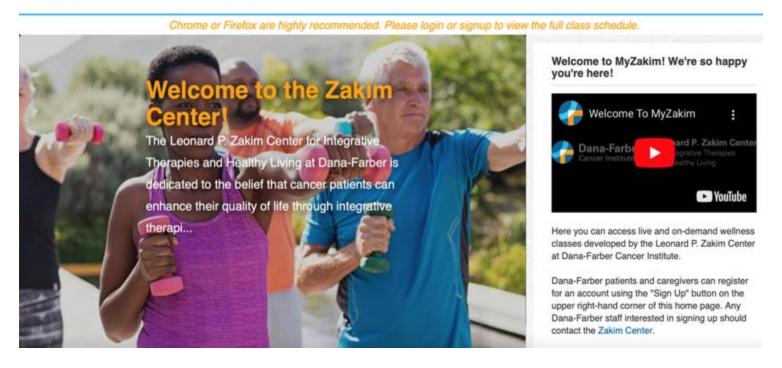
Nutrition

- 13 Weeks to Wellness
- Ask the Nutritionist
- What's Cookin' with Zakim

*Available through MyZakim, our online platform for virtual live classes and on-demand programmir







MyZakim: The Zakim Center's Virtual Group Programming

• Nutrition | Exercise | Meditation & Mindfulness | Expressive Arts Therapy

Music Therapy at the Zakim Center

Videos



Music-Guided Even Breathing

27 Oct. 2021



Music-Guided 2-2-4 Breathing Exercise

27 Oct, 2021



Music-Guided Progressive Muscle Relaxation

27 Oct, 2021





Exercise Resources on MyZakim:

https://myzakim.dana-farber.org/





All On-Demand Exercise Classes

Browse our extensive library of recorded classes – here you'll find videos that vary in duration, topic, impact, and more!



Aerobics & Cardio



Strength Training



Yoga Flow, Yogalates



Chair Yoga & Chair Strength



Dance & Movement



Tai Chi & Qigong



Exercise Resources on MyZakim:

https://myzakim.dana-farber.org/





Curated Exercise Video Collections:



Workouts to Help Manage Lymphedema

These classes are designed for patients with lymphedema or at risk for lymphedema, to help alleviate symptoms.

View Collection >>



Workouts to Help Manage Neuropathy

These classes are designed for patients with neuropathy, to help alleviate this common side effect of chemotherapy.

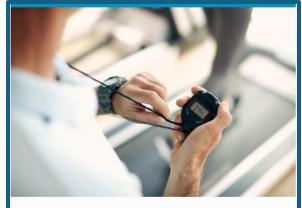
View Collection >>



Pose or Exercise Breakdowns

Learn how to do a squat or an elbow plank! These are short videos that break down exercises or yoga poses in a simple and safe way with proper form.

View Collection >>



Move in Minutes

Short on time? Try a quick, but effective, workout from our Move in Minutes series! All video are under 20 minutes long, so you're sure to find something that fits your time and interests!

View Collection >>

Meditation Resources on MyZakim:







Mindfulness Meditation

Sound Bath

On-Demand Meditations A Walking Meditation to Help Fight Fatigue 5 May, 2023 Meditation on Letting Go 15 Dec, 2022 View All

On-Demand Sound Baths

10 Minutes of Calm with Crystal Singing Bowls
6 Feb, 2025

Crystal Singing Bowls for a Moment of Peace
15 Oct, 2024

Crystal Singing Bowls for Relaxation
26 Sep, 2024

Home > Nutrition > Manage Nutrition Related Side Effects

Manage Nutrition Related Side Effects

If you're struggling with nutrition-related side effects, our "what to eat when" recipe lists can give you quick and easy ideas to feel better.



What to Eat When Video Series

Learn strategies to manage your nutrition-related side effects in minutes.





What to Eat When You Have Mouth Sores

Foods with smooth, soft textures that are cold or at room temperature tend to be best tolerated with mouth sores. Limit foods that are rough in texture, salty, spicy, or citrus.

Learn More >



What to Eat When Food Tastes Bland or Off

Recipes that incorporate fruity or salty flavors tend to taste best when food seems bland. Incorporating herbs, spices, marinades, lemon, vinegar, pickles, or strongly flavored sauces can work well to increase flavor, too.

Learn More >



What to Eat When You Are Constipated

Fiber-rich recipes, such as those containing whole grains, legumes, fruits, and vegetables, can aid in constipation. Slowly increase your fiber intake, and be sure to drink plenty of fluids, including warm beverages like tea or coffee.

Learn More >

Home > Nutrition > Manage Nutrition Related Side Effects

Manage Nutrition Related Side Effects

If you're struggling with nutrition-related side effects, our "what to eat when" recipe lists can give you quick and easy ideas to feel better.



What to When You Have Diarrhea

Recipes that include plain, easy to digest foods, like sourdough bread, skinless chicken, tofu, tuna, and eggs can help manage diarrhea. Aim to drink plenty of fluids, limit fatty foods, and choose soluble fiber sources such as oats, applesauce, bananas, barley, and citrus fruits.

Learn More >



What to Eat When Food Tastes Bitter, Sour, or Metallic

Recipes with alternative proteins to meat like chicken, eggs, tofu, dairy foods, nuts, or beans may taste better. Sweet or sour fruits and beverages alongside meals may help to counteract these tastes, as well.

Learn More >



What to Eat When Food Tastes Too Sweet

Recipes with bland or sour flavors may help to counteract overly sweet tastes. Choose vegetables more often than fruits.

Learn More >



What to Eat When Food Tastes Too Salty

To counter a salty taste, choose recipes that are naturally sweet, bland, and low in sodium. Boiled foods may help in reducing flavor, too.

Learn More >



"What to Eat When" Video Series



What to Eat When You Experience Taste Changes During Cancer Treatment

17 Jan, 2024

What to Eat When You Have Constipation During Cancer Treatment

7 Apr, 2023

What to Eat When You Don't Have an Appetite During Cancer Treatment

7 Apr, 2023

What to Eat When You Have Diarrhea During Cancer Treatment

7 Apr, 2023

What to Eat When You Have Nausea During Cancer Treatment

7 Apr, 2023

Unintentional Weight Changes During Cancer Treatment and Recovery

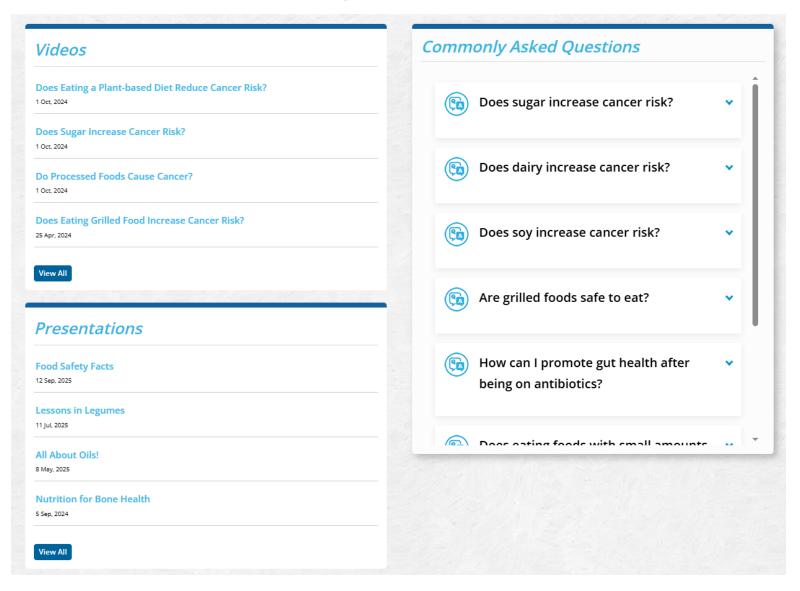
7 Mar, 2022

Coping with Treatment-Induced Taste Changes

29 Jul, 2021

Get My Top Nutrition Questions Answered





Key Takeaways

Integrative Oncology: a patient-centered, evidence-informed field of comprehensive cancer care that utilizes complementary therapies alongside conventional cancer treatments

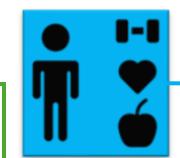
Lifestyle is Key for Cancer Prevention!

> ~19% of cancer cases in the US are directly attributable to lifestyle Follow AICR/ACS
guidelines for cancer
prevention guidelines
both for prevention
and for healthy living
with cancer

CHALLENGE trial: Survival benefit in CRC with structured exercise















During Treatment Benefits (Exercise): Fatigue, QoL, Physical Function, Anxiety, Depression, Lymphedema; ACSM has Exercise Rx's for these indications

Nutrition: no convincing evidence for rigid restrictive diets for prevention or during treatment/survivorship; follow Mediterranean Diet for multiple health benefits

Many benefits of integrative therapies during and after cancer treatment:
Pain, fatigue, hot flashes anxiety/depression, insomnia

Thank You!