Optimizing Quality of Life with Integrative Oncology

Alissa Huston, MD



2024 Educational Forum May 3 - 5, 2024 Hyatt Regency Lake Washington

Optimizing Quality of Life with Integrative Oncology



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Disclosures

• Nothing to disclose





Objectives

- Review the field of integrative oncology (IO) and its role in supporting quality of life for patients with cancer
- Review data behind IO based modalities for cancer specific symptoms and recent guideline updates
- Review methods of IO implementation within Hematology/Oncology programs





Integrative Therapies



Therapies - Democrat and Chronicle

"I went from a walker to a cane to being mobile on my own," said rochesterdemocrat-ny.newsmemory.com

Rochester Democrat and Chronicle January 30, 2023





US PATIENT & ONCOLOGIST AWARENESS, USAGE, & ATTITUDES TOWARD WHOLE PERSON INTEGRATIVE ONCOLOGY

- 62% of individuals diagnosed with cancer want to know about complementary therapies
- 66% used at least one therapy during treatment
- Patients (50%) and oncologists (60%) strongly agreed that integrative oncology can manage side effects and improve well-being

Medicine of the Highest Order





US PATIENT & ONCOLOGIST AWARENESS, USAGE, & ATTITUDES TOWARD WHOLE PERSON INTEGRATIVE ONCOLOGY

- 76% of oncologists wanted to learn more about the benefits, but noted multiple barriers
- 40% of patients reported they would have chosen a hospital that offered complementary therapies





Sept 30, 2022. Samueli Foundation

Terminology

<u>Alternative</u>: using a non-mainstream approach "in place of" conventional medicine

<u>**Complementary</u>**: using a non-mainstream approach "together" with conventional medicine</u>

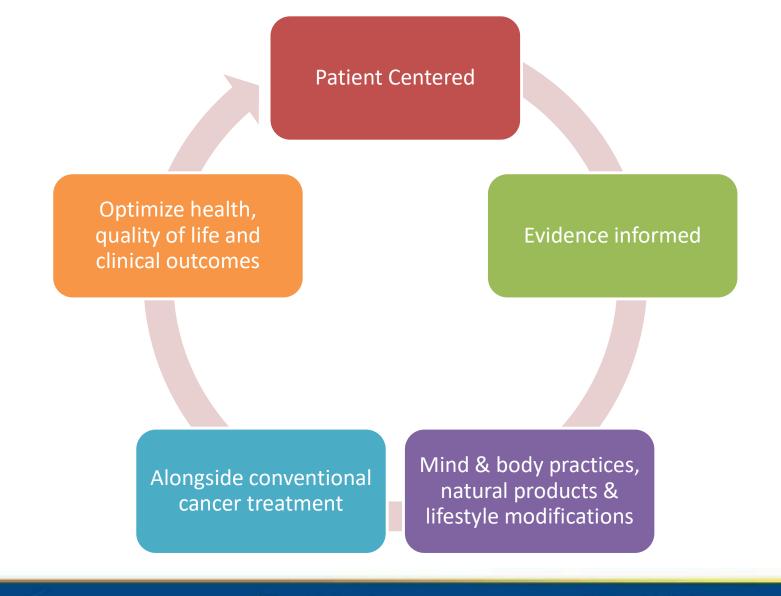
Integrative: bringing together conventional and complementary approaches together in a coordinated way with a focus on treating the whole person

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Definition of Integrative Oncology



J Natl Cancer Inst Monogr, 2017. (52)3-8.





Growth of IO Modalities at NCI Designated Cancer Centers

	2009	2016
Acupuncture	58.6 %	88.9%
Massage	53.7%	84.4%
Meditation	56.1%	88.9%
Yoga	56.1%	86.7%
		Over 30% Increase

Adapted 15th Annual SIO International Conference 2018 J Natl Cancer Inst Monogr 2017:29-32.





Review > J Soc Integr Oncol. 2007 Spring;5(2):65-84.

Integrative Oncology Practice Guidelines

Gary E Deng¹, Barrie R Cassileth, Lorenzo Cohen, Jyothirmai Gubili, Peter A S Johnstone, Nagi Kumar, Andrew Vickers; Society for Integrative Oncology Executive Committee; Donald Abrams, David Rosenthal, Stephen Sagar, Debu Tripathy

Practice Guideline > J Soc Integr Oncol. 2009 Summer;7(3):85-120.

Evidence-based clinical practice guidelines for integrative oncology: complementary therapies and botanicals

Gary E Deng ¹, Moshe Frenkel, Lorenzo Cohen, Barrie R Cassileth, Donald I Abrams, Jillian L Capodice, Kerry S Courneya, Trish Dryden, Suzanne Hanser, Nagi Kumar, Dan Labriola, Diane W Wardell, Stephen Sagar; Society for Integrative Oncology

Integrative Medicine for Pain Management in Oncology: Society for Integrative Oncology–ASCO Guideline

Jun J. Mao, MD, MSCE¹; Nofisat Ismaila, MD, MSc²; Ting Bao, MD¹; Debra Barton, PhD³; Eran Ben-Arye, MD⁴; Eric L. Garland, PhD⁵; Heather Greenlee, ND, PhD⁶; Thomas Leblanc, MD⁷; Richard T. Lee, MD⁸; Ana Maria Lopez, MD⁹; Charles Loprinzi, MD¹⁰; Gary H. Lyman, MD, MPH⁶; Jodi MacLeod, BA¹¹; Viraj A. Master, MD, PhD¹²; Kavitha Ramchandran, MD¹³; Lynne I. Wagner, PhD¹⁴; Eleanor M. Walker, MD¹⁵; Deborah Watkins Bruner, PhD¹²; Claudia M. Witt, MD, MBA¹⁶; and Eduardo Bruera, MD¹⁷

Integrative Oncology Care of Symptoms of Anxiety and Depression in Adults With Cancer: Society for Integrative Oncology–ASCO Guideline

Linda E. Carlson, RPsych, PhD¹ (5); Nofisat Ismaila, MD² (6); Elizabeth L. Addington, PhD³ (5); Gary N. Asher, MD, MPH⁴; Chloe Atreya, MD, PhD⁵; Lynda G. Balneaves, RN, PhD⁶ (5); Joke Bradt, MT-BC, PhD⁷; Nina Fuller-Shavel, MB BChir, MA⁸ (6); Joseph Goodman, MD⁹ (5); Caroline J. Hoffman, OAM, RN, BSW, PhD¹⁰; Alissa Huston, MD¹¹ (5); Ashwin Mehta, MD¹²; Channing J. Paller, MD¹³ (5); Kimberly Richardson, MA¹⁴; Dugald Seely, ND, MSc^{15,16} (5); Chelsea J. Siwik, PhD¹⁷ (5); Jennifer S. Temel, MD¹⁸ (5); and Julia H. Rowland, PhD¹⁹ (5)





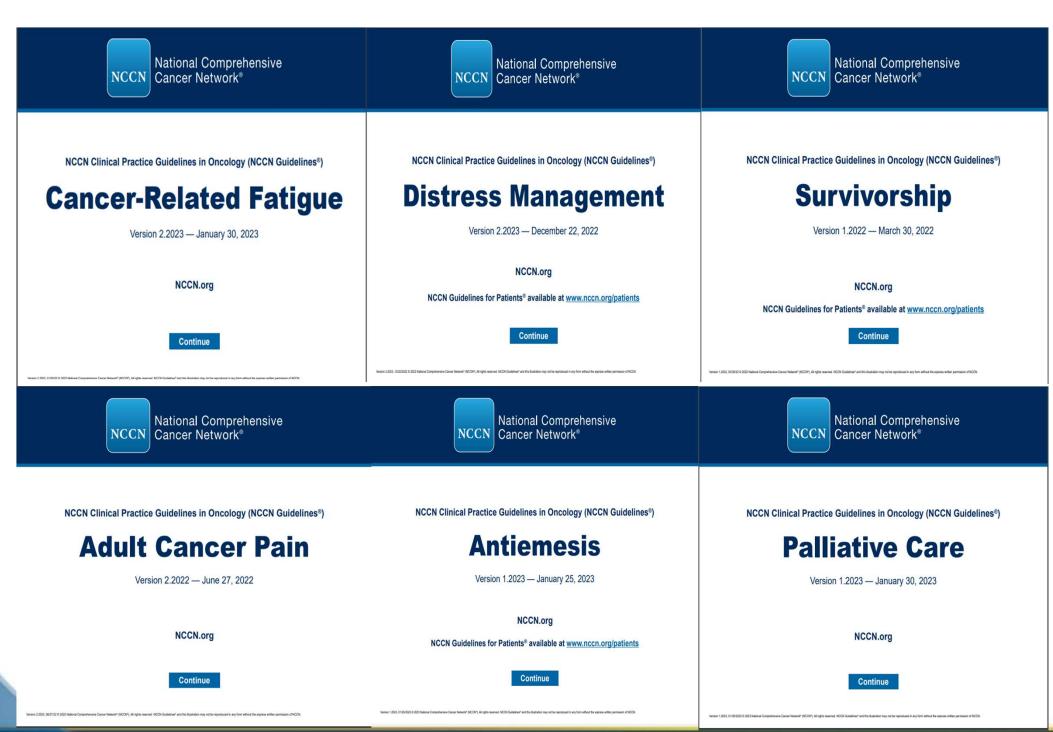






TABLE 1. National Comprehensive Cancer Network Clinical Practice Guidelines for the Use of Integrative Medicine for Supportive Cancer Care^a

SYMPTOMS	ACUPUNCTURE	MASSAGE	MEDITATION/MBSR	YOGA	MUSIC THERAPY	EXERCISE	NUTRITION
Adult cancer pain	Х	X	х	Х		Х	
Cancer-related fatigue	Х	Х	Х	Х		Х	Х
Sleep disorders			Х	Х			
Distress (anxiety/depression)			Х	Х	Х	Х	Х
Cancer-associated cognitive dysfunction			Х	Х			
Hot flashes/night sweats	Х			Х		Х	
Sexual dysfunction			Х	Х			
Nausea/vomiting	Х			Х	X		
Anorexia						Х	Х

Abbreviation: MBSR, mindfulness-based stress reduction.

^aDerived from the National Comprehensive Cancer Network (NCCN) clinical practice guidelines for supportive cancer care (NCCN 2021, ¹³⁰ Denlinger 2021, ¹³¹ Swarm 2021, ¹³² Berger 2021, ¹³³ Ettinger 2021, ¹³⁴ Riba 2021, ¹³⁵ Dans 2021 ¹³⁶).









(Acupuncture, botanicals, etc)

Mind-Body Medicine (Stress reduction and spirituality)

Lifestyle Medicine

(Nutrition, exercise, sleep)

Philosophy of Integrative Care

(Patient-centered and personalized)

Evidence-Based Conventional Cancer Care

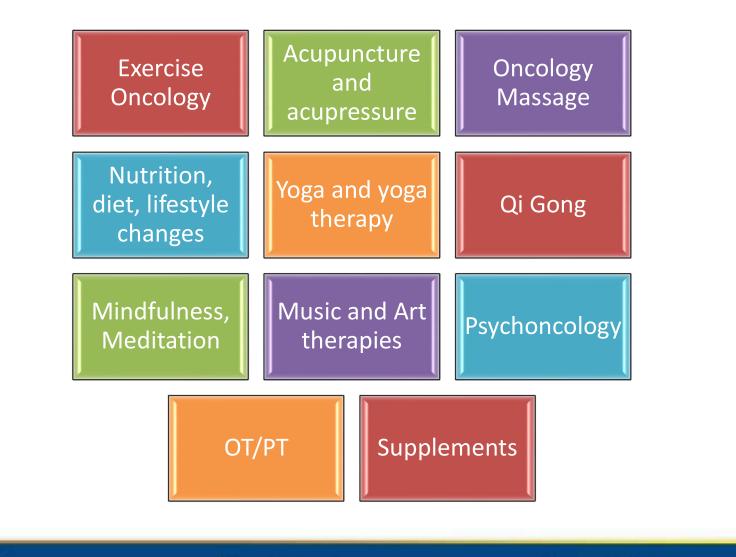
(Chemotherapy, immunotherapy, targeted therapy, hormonal therapy, surgery, radiation)

Gowan. The Rise of Integrative Oncology. ASCO Daily News 2021





Supportive Care and Integrative Oncology Tools







Movement



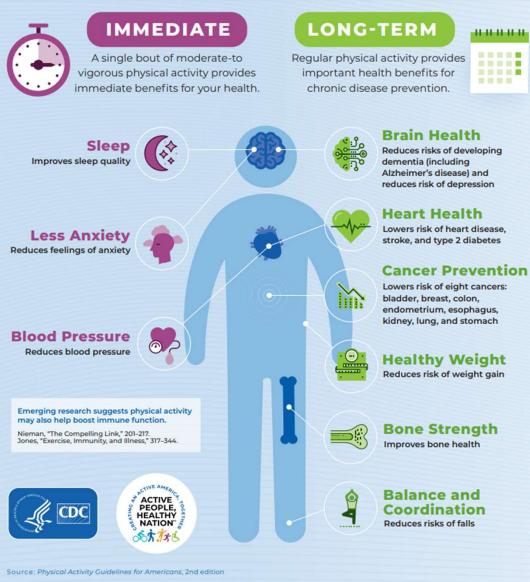








Benefits of Exercise



To learn more, visit: https://www.cdc.gov/physicalactivity/basics/adults/health-benefits-of-physical-activity-for-adults.html

August 2020

MEDICINE of https://www.cdc.gov/physicalactivity/basics THE HIGHEST ORDER





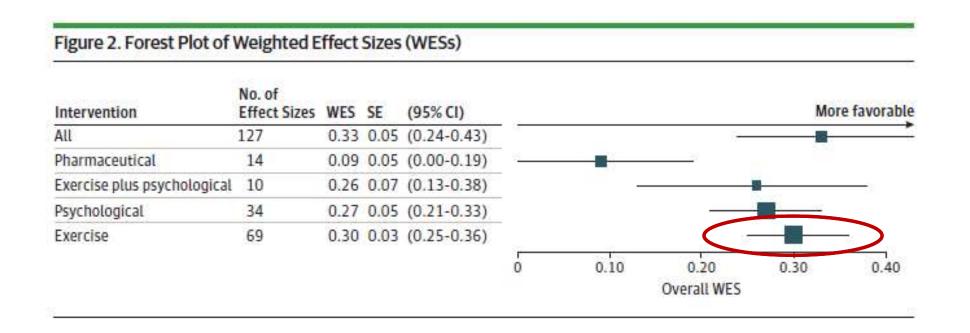
Cancer Related Fatigue

- Chronic problem in over 2/3 of cancer survivors
- 40% describe it as severe
- Moderate exercise during and following cancer treatment can result in a reduction in fatigue and improve quality of life





Comparison of Pharmaceutical, Psychological, and Exercise Treatments for Cancer-Related Fatigue









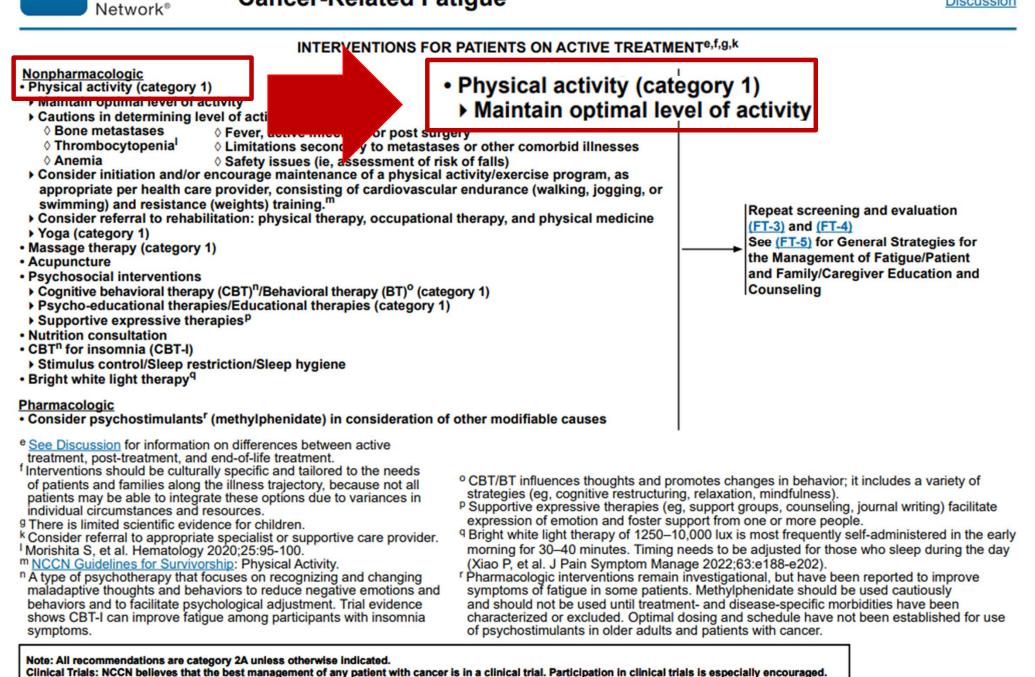
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National

Cancer

NCCN

NCCN Guidelines Version 2.2024 Comprehensive **Cancer-Related Fatigue**



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ACS Guidelines for Exercise

Achieve and maintain a healthy weight throughout life.

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

Be physically active.

- Adults: Get 150-300 minutes of moderate intensity or 75-150 minutes of vigorous intensity activity each week (or a combination of these). Getting to or exceeding the upper limit of 300 minutes is ideal.
- Children and teens: Get at least 1 hour of moderate or vigorous intensity activity each day.
- Limit sedentary behavior such as sitting, lying down, watching TV, and other forms of screen-based entertainment.





Effects of **Exercise** on Health-Related **Outcomes** in Those with **Cancer**

What can exercise do?

Prevention of 7 common cancers*

Dose: 2018 Physical Activity Guidelines for Americans: 150-300 min/week moderate or 75-150 min/week vigorous aerobic exercise

Survival of 3 common cancers**

Dose: Exact dose of physical activity needed to reduce cancer-specific or all-cause mortality is not yet known; Overall more activity appears to lead to better risk reduction

*bladder, breast, colon, endometrial, esophageal, kidney and stomach cancers **breast, colon and prostate cancers

Overall, avoid inactivity, and to improve general health, aim to achieve the current physical activity guidelines for health (150 min/week aerobic exercise and 2x/week strength training).

Outcome		Aerobic Only	Resistance Only	Combination (Aerobic + Resistance)	
Strong Evi	idence	Dose	Dose	Dose	
Canc fatigu	cer-related ue	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	
Healt quali	th-related ity 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 	
Physi	ical 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, p 2-3x/week of resistance training 2 sets of 8-12 reps for major muscle group at moderate to vigorous intensity	
Anxie	iety	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 	
Depre	ression	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 	
Uymp	phedema	Insufficient evidence	2-3x/week of progressive, supervised, program for major muscle groups does not exacerbate lymphedema	Insufficient evidence	
Moderate Ev	vidence				
Bone	e health	Insufficient evidence	2-3x/week of moderate to vigorous resistance training plus high impact training (sufficient to generate ground reaction force of 3-4 time body weight) for at least 12 months	Insufficient evidence	
Sleep	P	3-4x/week for 30-40 min per session of moderate intensity	Insufficient evidence	Insufficient evidence	

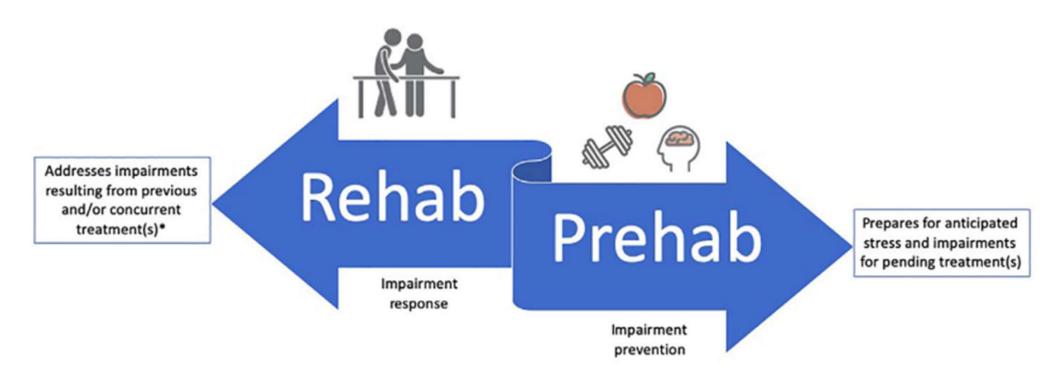
Citation: bit.ly/cancer exercise guidelines

Moderate intensity (40%-59% heart rate reserve or VO,R) to vigorous intensity (60%-89% heart rate reserve or VO,R) is recommended.

is Medicine

of SPORTS MEDICINE

Inclusion of Exercise throughout the Course of Cancer Treatment



Frontiers in Oncology 2021 Vol 10: 1-10.





Prehabilitation

Diagnosis – treatment plan defined

Intervention – multimodality focusing on exercise and nutrition

Treatment – chemotherapy, surgery

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Touch Modalities

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Acupuncture











Acupuncture

- Traditional Chinese Medicine (TCM)
- Thin sterile needs inserted into specific acupoints
- Animal models demonstrated release of endogenous opioids, serotonin, dopamine
- Functional brain imaging shows changes in areas of the brain involved in cognition and emotion

MEDICINE of Journal of Oncology Practice 2019 157-14. THE HIGHEST ORDER





Standardized Acupuncture Points

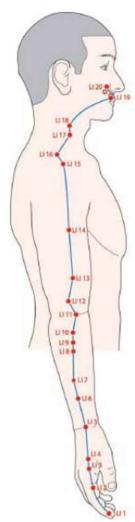
LARGE INTESTINE MERIDIAN

手陽(阳)明大腸(肠)經(经,経)





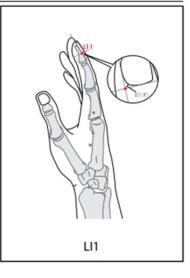




Large Intestine Meridian

LI1: Shangyang 商陽(阳)

On the index finger, radial to the distal phalanx, 0.1 F-cun proximal-lateral to the radial corner of the index fingernail, at the intersection of the vertical line of the radial border of the fingernail and the horizontal line of the base of the index fingernail.









Effect of Acupuncture vs Sham Procedure on Chemotherapy-Induced Peripheral Neuropathy Symptoms A Randomized Clinical Trial

Ting Bao, MD, DABMA, MS; Sujata Patil, PhD; Connie Chen, MD; Iris W. Zhi, MD, PhD; Qing S. Li, MS; Lauren Piulson, BS; Jun J. Mao, MD

Mean Change in Chemotherapy Induced Peripheral Neuropathy Symptom Score at Week 8

Symptom	Real Acupuncture (n=24)	Sham Acupuncture (n=23)	Usual Care (n=21)
Pain	-1.75 (p=0.05)	-0.91 (p=0.31)	-0.19
Tingling	-1.83 (p=0.02)	-1.22 (p=0.18)	-0.14
Numbness	-1.54 (p=0.005)	-1.52 (p=0.003)	0.57

JAMA Network Open 3:e200681, 2020.





Health-Related Quality of Life in Cancer Survivors with Chemotherapy-Induced Peripheral Neuropathy: A Randomized Clinical Trial

TING BAO ,^a RAYMOND BASER,^b CONNIE CHEN,^c MATTHEW WEITZMAN,^a YI LILY ZHANG,^a CHRISTINA SELUZICKI,^a QING SUSAN LI,^a LAUREN PIULSON,^a W. IRIS ZHI ^d

Outcome, week	RA-UC, mean (95% CI)	SA-UC, mean (95% CI)	RA-SA, mean (95% CI)
FACT/GOG-Ntx			
4	0.69 (-1.89 to 3.28)	0.80 (-1.77 to 3.38)	0.11 (-2.41 to 2.63)
8	4.17 (1.62 to 6.72) ^a	3.40 (0.81 to 5.98) ^b	-0.77 (-3.25 to 1.71)
12	1.86 (-0.68 to 4.41)	2.38 (-0.18 to 4.93) ^c	0.51 (-1.99 to 3.01)
HADS anxiety			
8	-1.23 (-2.61 to 0.16) ^c	-1.07 (-2.47 to 0.33)	0.15 (-1.20 to 1.50)
12	-0.78 (-2.18 to 0.62)	-0.62 (-2.02 to 0.78)	0.16 (-1.21 to 1.52)
HADS depression			
8	-0.49 (-1.81 to 0.83)	-1.70 (-3.04 to -0.37) ^b	-1.22 (-2.51 to 0.08) ^c
12	-0.42 (-1.75 to 0.92)	-0.46 (-1.80 to 0.87)	-0.05 (-1.35 to 1.25)

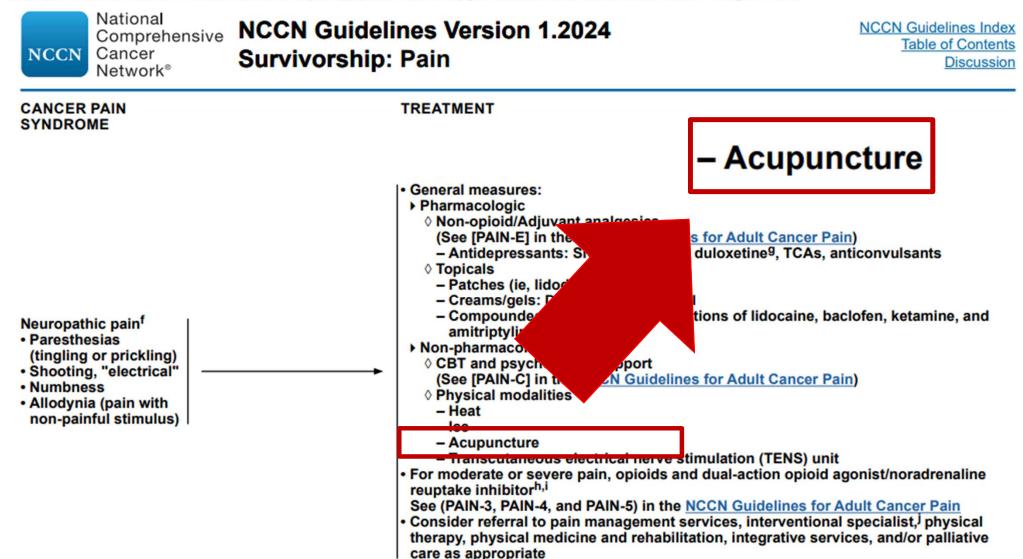
Table 3. Between-arm differences in changes from baseline



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The Oncologist 2021;26:e2070-e2078

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^fAlso see NCCN Guidelines for Adult Cancer Pain and Loprinzi CL, et al. J Clin Oncol 2020;38:3325-3348.

⁹ Duloxetine has the most evidence for treating neuropathic pain.

h Principles of Opioid Use in Long-Term Survivors (SPAIN-2).

Initiating opioids in cancer survivors should be carefully considered if other interventions are unsuccessful.

Scrambler therapy can be considered. Loprinzi C, et al. Support Care Cancer 2020;28:1183-1197.

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.

Acupressure

- Uses standard acupoints
- Can stimulate release of endorphins and neurotransmitters involved in pain modulation
- Promotes relaxation and reduces stress
- Reduces inflammation



Eur J Oncol Nurs. 2019;42:82-89. *Eur J Oncol Nurs.* 2018;32:12-19. MEDICINE of the Highest Order





Massage

 Involves applying pressure to muscle and connective tissue to reduce tension and pain

• Beneficial for pain, fatigue and anxiety

• Recommended for pain during palliative care



CA CANCER J CLIN 2022;72:144-164.







Asco special articles

Integrative Medicine for Pain Management in Oncology: Society for Integrative Oncology–ASCO Guideline

Jun J. Mao, MD, MSCE¹; Nofisat Ismaila, MD, MSc²; Ting Bao, MD¹; Debra Barton, PhD³; Eran Ben-Arye, MD⁴; Eric L. Garland, PhD⁵; Heather Greenlee, ND, PhD⁶; Thomas Leblanc, MD⁷; Richard T. Lee, MD⁸; Ana Maria Lopez, MD⁹; Charles Loprinzi, MD¹⁰; Gary H. Lyman, MD, MPH⁶; Jodi MacLeod, BA¹¹; Viraj A. Master, MD, PhD¹²; Kavitha Ramchandran, MD¹³; Lynne I. Wagner, PhD¹⁴; Eleanor M. Walker, MD¹⁵; Deborah Watkins Bruner, PhD¹²; Claudia M. Witt, MD, MBA¹⁶; and Eduardo Bruera, MD¹⁷





Chemotherapy Induced Peripheral Neuropathy

Summary of Recommendations

Chemotherapy-Induced Peripheral Neuropathy

Recommendation 1.8

 Acupuncture may be offered to patients experiencing chemotherapy-induced peripheral neuropathy from cancer treatment.

Recommendation 1.9

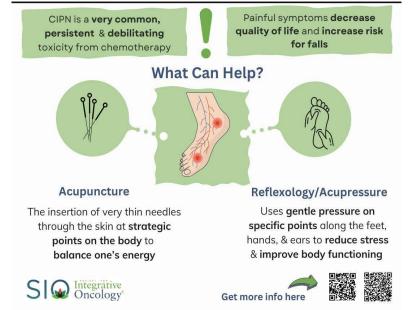
 Reflexology or acupressure may be offered to patients experiencing chemotherapy-induced peripheral neuropathy from cancer treatment.

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Evidence Quality	Strength of Recommendation
Low	Weak
benefits ou	tweigh harms
benefits ou	Strength of Recommendation

Evidence-based/Informal consensus





Integrative Therapies for Chemotherapy-Induced Peripheral Neuropathy (CIPN)

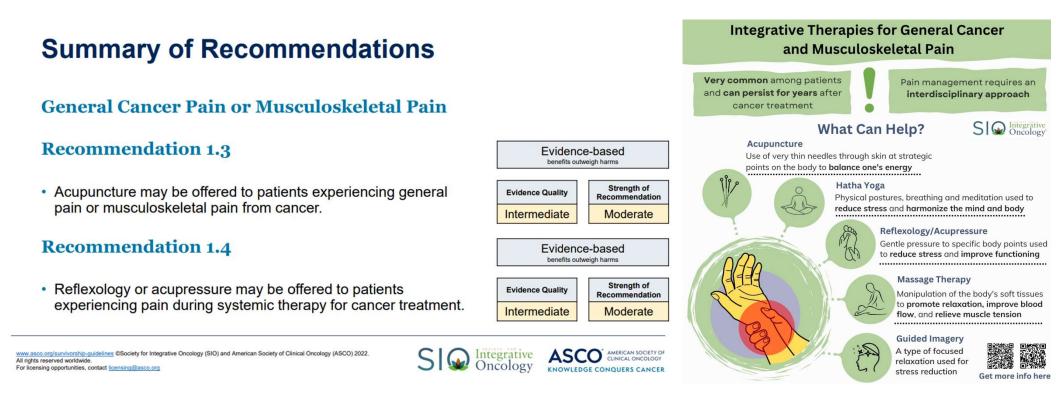
Key Messages 1. Acupuncture may be used to help patients with CIPN 2. Reflexology/Acupressure may be used to help patients with CIPN

JCO 2022(40)34: 3998-4024.





General Cancer and Musculoskeletal Pain





Procedural, Surgical or Palliative Pain

Summary of Recommendations

Procedural or Surgical Pain

Recommendation 1.10

 Hypnosis may be offered to patients experiencing procedural pain in cancer treatment or diagnostic workups.

Recommendation 1.11

 Acupuncture or acupressure may be offered to patients undergoing cancer surgery or other cancer-related procedures such as bone marrow biopsy.

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	e-based weigh harms
Evidence Quality	Strength of Recommendation
Intermediate	Moderate

Evidence-based/Informal consensus benefits outweigh harms

Evidence Quality	Strength of Recommendation
Low	Weak



Integrative Therapies for Procedural, Surgical, or Palliative Pain

Key Messages

1. Acupuncture or acupressure may be used for procedural cancer pain 2. Hypnosis may be used for procedural cancer pain 3. Music therapy may be used for surgical cancer pain 4. Massage may be used for palliative and hospice cancer-related pain

What Can Help?

Acupuncture

S Q Integrative Oncology

Use of very thin needles through skin at strategic points on the body to balance one's energy

Hypnosis

A changed state of awareness and increased relaxation used to create a state of focused attention and increased suggestibility

Music Therapy

Use of personalized music modalities to help improve quality of life and reduce stress

Massage Therapy

Manipulation of the body's soft tissues to promote relaxation. improve blood flow, and relieve muscle tension More info her





JCO 2022(40)34: 3998-4024.



S Concology ASCO Guidelines

INTEGRATIVE MEDICINE FOR PAIN MANAGEMENT IN ONCOLOGY

AT-A-GLANCE GUIDELINE RECOMMENDED INTERVENTIONS

Symptom Setting	Integrative Therapy	Type of Recommendation	Evidence Quality	Strength of Rec.
Aromatase inhibitor-related	Acupuncture	 Evidence-based 	 Intermediate 	 Moderate
joint pain	• Yoga	 Evidence-based 	• Low	 Weak
	Acupuncture	 Evidence-based 	 Intermediate 	 Moderate
General cancer pain	 Reflexology or acupressure 	 Evidence-based 	 Intermediate 	 Moderate
	 Massage 	 Evidence-based 	• Low	 Moderate
	 Hatha yoga 	 Evidence-based 	• Low	 Weak
	 Guided imagery with PMR 	Evidence-based	• Low	• Weak
OIDN	Acupuncture	 Evidence-based/Informal consensus 	• Low	• Weak
CIPN	 Reflexology or acupressure 	 Evidence-based 	• Low	• Weak
Procedural pain	 Hypnosis 	Evidence-based	 Intermediate 	 Moderate
Surgical pain	Acupuncture or acupressure	 Evidence-based/Informal consensus 	• Low	• Weak
	 Music therapy 	 Evidence-based 	• Low	• Weak
Pain during palliative care	 Massage 	 Evidence-based 	 Intermediate 	 Moderate

Mao et al J Clin Oncol 2022 asco.org/survivorship-guidelines

Abbreviations. CIPN, chemotherapy-induced peripheral neuropathy; PMR, progressive muscle relaxation; Rec, recommendation

JCO 2022(40)34: 3998-4024





Mind/Body Practices

- Meditation
- Yoga
- Tai Chi
- Qi Gong
- Art therapy
- Music therapy









Mindfulness

- Meditation (MBSR/MBCT)
 - Anxiety/depression (Grade A)
 - Mood disturbance/depressive symptoms (Grade A)
 - Improving QOL in breast cancer patients (Grade A)
- Music therapy
 - Reduce anxiety during cancer treatments/procedures (Grade B)
- Progressive Muscle Relaxation and Guided Imagery
 - Evidence for mood disturbance/depressive symptoms (Grade A)





Yoga

- Different types of yoga need to be tailored
 - Asanas (poses), exercises, stretches
 - Meditation, breathing exercises
- Grade B evidence for treating mood disturbance and depressive symptoms
- Grade B evidence for reducing anxiety
- Evidence to support benefit for neuropathy





UR Yoga for Cancer Survivors YOCAS^{©®}



Clinical Trial > Integr Cancer Ther. 2016 Sep;15(3):263-71. doi: 10.1177/1534735415617021. Epub 2015 Nov 29.

YOCAS[©][®] Yoga Reduces Self-reported Memory Difficulty in Cancer Survivors in a Nationwide Randomized Clinical Trial: Investigating Relationships Between Memory and Sleep

Michelle C Janelsins ¹, Luke J Peppone ², Charles E Heckler ², Shelli R Kesler ³, Lisa K Sprod ⁴, James Atkins ⁵, Marianne Melnik ⁶, Charles Kamen ², Jeffrey Giguere ⁷, Michael J Messino ⁵, Supriya G Mohile ², Karen M Mustian ²

<u>Integr Cancer Ther.</u> 2016 Sep; 15(3): 263–271. Published online 2015 Nov 29. doi: <u>10.1177/1534735415617021</u> PMCID: PMC4884662 NIHMSID: <u>NIHMS750546</u> PMID: <u>26621521</u>

YOCAS©® Yoga Reduces Self-reported Memory Difficulty in Cancer Survivors in a Nationwide Randomized Clinical Trial

Investigating Relationships Between Memory and Sleep

<u>Michelle C. Janelsins</u>, PhD, MPH,^{1,2} <u>Luke J. Peppone</u>, PhD, MPH,^{1,2} <u>Charles E. Heckler</u>, PhD, MS,^{1,2} <u>Shelli R. Kesler</u>, PhD,³ <u>Lisa K. Sprod</u>, PhD, MPH,⁴ <u>James Atkins</u>, MD,⁵ <u>Marianne Melnik</u>, MD,⁶ <u>Charles Kamen</u>, PhD,^{1,2} <u>Jeffrey Giguere</u>, MD,⁷ <u>Michael J. Messino</u>, MD,⁵ <u>Supriya G. Mohile</u>, MD,^{1,2} and <u>Karen M. Mustian</u>, PhD, MPH^{1,2}

Integr Cancer Ther2016 Sep;15(3):263-71. Breast Ca Res Treat 2015 Apr;150(3):597-604. JCO 38, no. 15_suppl (May 20, 2020) 12005-12005.







ASCO Special Articles

Integrative Oncology Care of Symptoms of Anxiety and Depression in Adults With Cancer: Society for Integrative Oncology-ASCO Guideline

Linda E. Carlson, RPsych, PhD¹ (b); Nofisat Ismaila, MD² (b); Elizabeth L. Addington, PhD³ (b); Gary N. Asher, MD, MPH⁴; Chloe Atreya, MD, PhD⁵; Lynda G. Balneaves, RN, PhD⁶ (b); Joke Bradt, MT-BC, PhD⁷; Nina Fuller-Shavel, MB BChir, MA⁸ (b); Joseph Goodman, MD⁹ (b); Caroline J. Hoffman, OAM, RN, BSW, PhD¹⁰; Alissa Huston, MD¹¹ (b); Ashwin Mehta, MD¹²; Channing J. Paller, MD¹³ (b); Kimberly Richardson, MA¹⁴; Dugald Seely, ND, MSc^{15,16} (b); Chelsea J. Siwik, PhD¹⁷ (b); Jennifer S. Temel, MD¹⁸ (b); and Julia H. Rowland, PhD¹⁹ (b)

DOI https://doi.org/10.1200/JC0.23.00857





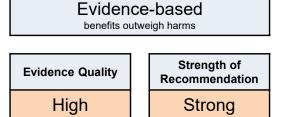
Summary of Anxiety Recommendations

Clinical Question 1

• What integrative therapies are recommended for managing symptoms of anxiety experienced after diagnosis or during active treatment in adults with cancer?

Recommendation 1.1

 Mindfulness-based interventions (MBIs) should be offered to people with cancer to improve anxiety symptoms during active treatment.





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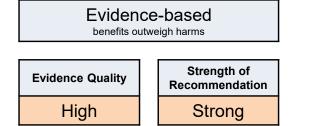
Summary of Depression Recommendations

Clinical Question 3

• What integrative therapies are recommended for managing symptoms of depression experienced after diagnosis or during active treatment in adults with cancer?

Recommendation 3.1

• Mindfulness-based interventions should be offered to people with cancer to improve depression symptoms during active treatment.





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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

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

Post-Treatment

- Mindfulness-based interventions
- Yoga
- Acupuncture
- Tai chi and/or qigong
- 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 qigong

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

MEDICINE of JCO Volume 41 (28) October 2023 4562-4586. THE HIGHEST ORDER





Nutrition









Nutrition Benefits

- Improve overall health
- Maintain a healthy body weight
- Decrease side effects during and after treatment
- Learn to cook/prepare meals using, plant-based, unprocessed foods







ACS Guidelines for Nutrition

Follow a healthy eating pattern at all ages.

- A healthy eating pattern includes:
 - Foods that are high in nutrients in amounts that help you get to and stay at a healthy body weight
 - A variety of vegetables dark green, red and orange, fiber-rich legumes (beans and peas), and others
 - Fruits, especially whole fruits in a variety of colors
 - Whole grains
- A healthy eating pattern limits or does not include:
 - Red and processed meats
 - Sugar-sweetened beverages
 - Highly processed foods and refined grain products

It is best not to drink alcohol.

• People who do choose to drink alcohol should have no more than 1 drink per day for women or 2 drinks per day for men.





Adherence to Mediterranean Diet and Risk of Cancer: An Updated Systematic Review and Meta-Analysis

	Risk Ratio	Risk Ratio
Study or Subgroup	IV, Random, 95% CI	IV, Random, 95% CI
Alcohol (in the range)	0.92 [0.87, 0.97]	_ +
Cereals	1.00 [0.95, 1.05]	
Dairy	0.95 [0.90, 1.00]	-+
Fish	0.98 [0.96, 1.00]	+
Fruit	0.94 [0.91, 0.97]	+-
Legumes	0.97 [0.93, 1.01]	-+-
Meat	1.02 [0.97, 1.07]	-
Nuts	0.97 [0.94, 1.00]	-+-
Olive oil	1.01 [0.97, 1.05]	
Vegetables	0.96 [0.94, 0.98]	+
Whole grains	0.93 [0.88, 0.98]	-+
		0.7 0.85 1 1.2 1.5

					N	RR	95% CI
All-cause mortality among survivors	-	-	_	-	8	0.75	0.66, 0.86

European Journal of Nutrition (2021) 60:1561–1586.

Medicine of the Highest Order







(B) < 1











Establishing an Integrative Oncology Service: Essential Aspects of Program Development A SIO Clinical Practice Committee Consensus Paper

Judith Lacey, Alissa Huston, Gabriel Lopez, Julia Ruiz Vozmediano, Chun Sing Lam, Santhosshi Narayanan, Weidong Lu, Ursula Wolf, Ishwaria M. Subbiah, Patrick Richard, Ana Maria Lopez, Santosh Rao, Moshe Frenkel

Table 2 Components of the IO				
initial consultation	 Patient history, current or recent treatment, goals: the integrative query must be structured in different items and reflects on patient concerns and patient-reported outcome measures (PROMs) 			
	(a) Personal and family history			
	(b) Oncology history: Detailed diagnosis, staging, prognosis, previous, current and planned treatments, side effects			
	(c) Carry out a comprehensive assessment within the sociocultural context of the patient			
	(d) Exploring the main concerns that patients have in coming to this consultation			
	Current and past use of complementary therapies or other therapies			
	Lifestyle approach/changes and overall health			
	4. Physical activity			
	5. Nutrition and diet			
	6. Medications			
	7. Natural products (herbs and dietary supplements) and complementary medication			
	Emotional health and well-being, mind-body-spirit			
	9. Sleep and other concerns			
S Q Integrative Oncology	10. Development of a multidisciplinary plan of care utilizing an integrative approach			

Establishing an Integrative Oncology Service: Essential Aspects of Program Development - PubMed (nih.gov)

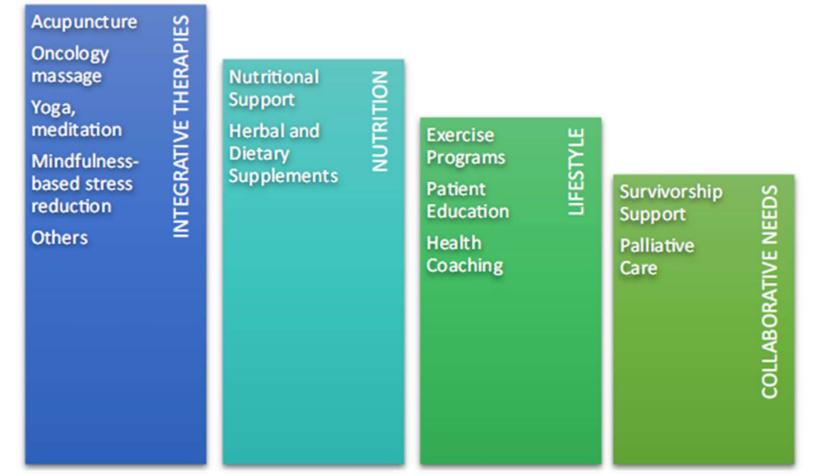
MEDICINE of THE HIGHEST ORDER

Curr Oncol Rep 2024 Mar;26(3)200-211.

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Establishing an Integrative Oncology Service: Essential Aspects of Program Development A SIO Clinical Practice Committee Consensus Paper

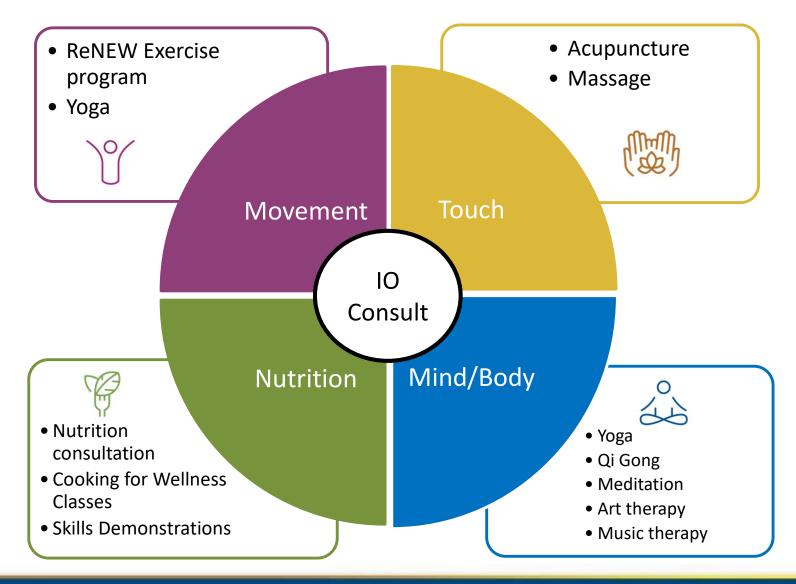




Curr Oncol Rep 2024 Mar;26(3)200-211.



Pluta Integrative Oncology and Wellness Center







IO Implementation

- Role of the IO Consultation
- Focus on core components
- Partner with local community resources
 Oncology trained providers
- Education and training







Who Will Benefit from IO?

- Patients with symptoms not optimally managed — fatigue, anxiety, sleep, hot flashes, neuropathy
- Patients looking to increase quality of life
- Patients newly diagnosed, on active treatment or those in long term survivorship
- Patients wishing to actively partner in their care





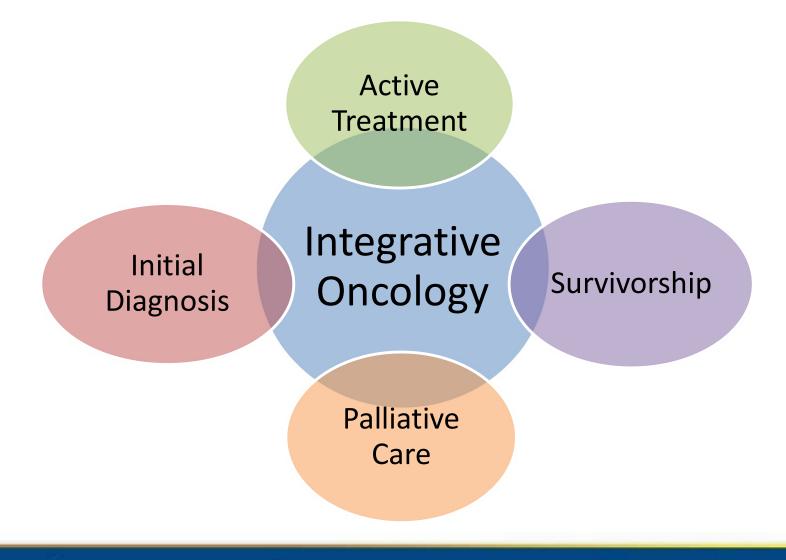
Indirect Benefits

- Engagement in IO modalities provide a sense of control at a time when most patients feel a distinct loss of control
- Therapies to reduce patients' stress and anxiety also improve physical and emotional well-being during and after treatment





Integrative Oncology throughout the Cancer Care Continuum







Conclusions

 Integrative Oncology plays an important role in supporting patients throughout their cancer treatment journey

 There remains a strong need for programs to provide evidence-based education and recommendations for the use of integrative oncology care for cancer patients







THANK YOU





