



Evidence Based Nutrition for Cancer Patients & Survivors

Today's Chat Agenda

- Updates: Community Oncology Alliance (COA) and COA's Patient Advocacy Network (CPAN)
- Jenn Lafferty Intro
 - Nutrition challenges for people with cancer along the care continuum
 - Managing nutrition impact symptoms
 - Advocating for Medical Nutrition Therapy (MNT) for all people with cancer
 - Resources



Jennifer M. Lafferty, MS, RD, CSO, LD, FAND
Clinical Oncology Nutritionist Supervisor
Care Management
American Oncology Network, LLC



Rose Gerber, MS

Director of Patient Advocacy & Education
Community Oncology Alliance

The Role of Nutrition Before, During and After Cancer

Jennifer Lafferty, MS, RD, CSO, LD, FAND Clinical Oncology Nutritionist Supervisor



Discussion Outline

- Potential Nutrition Concerns and Outcomes Across the Cancer Continuum
- Diet Recommendations
- Nutrition Impact Symptoms and Other Nutrition Challenges Facing People During Treatment
- Malnutrition and Cancer
- Cancer and Nutrition Advocacy
- Resources



Potential Nutrition-Related Concerns and Outcomes Across the Cancer Continuum

		Diagnosis		≥5 years after diagnosis
State in continuum	Cancer prevention	Initial treatment	Early posttreatment	Long-term cancer survivorship
Potential nutrition concerns	 Obesity, loss of muscle mass Energy-dense food intake Excessive dietary supplement usage Food contamination 	 Nutrition impact symptoms Immunosuppression Drug-nutrient interactions Weight and body composition changes 	FatigueEndocrine disordersWeight and body composition	 Weight loss or gain Decreased bone density Endocrine disorders Cardiovascular complications
Potential nutrition outcomes	 Improved weight and body composition Improved blood glucose control Improved immune function 	 Tolerance/adherence to treatment Fewer infectious complications Improve weight and body composition Delay or prevent disease progression Improved quality of life Improved survival 	 Decreased fatigue Improved functional status Faster recovery Improved weight and body composition Decreased risk for recurrence and subsequent cancer Improved survival Improved quality of life 	 Fewer late effects of treatment Improved functional status Improved weight and body composition Decreased risk for recurrence and subsequent cancer Improved survival Improved quality of life

Robien K Denmark-Wahnefried W, Rock CL. Evidence-based nutrition guidelines for cancer and survivors: current guidelines, knowledge gaps, and future research directions. J AM Diet Assoc. 2011;111(3):368-375.



Diet Recommendations



Drink Mostly Water and Unsweetened Drinks

- Drinking a lot of sodas or sugary drinks can contribute to weight gain that increases your risk for cancer
- One 12-ounce can of soda contains 9 teaspoons of sugar or high fructose syrup, 150 calories, and zero nutrients
- Bottled teas, lemonades, "energy" drinks, and many "juice drinks" also add ample amounts of extra sugar
- Choose still or sparkling water
- Drink unsweetened tea and coffee
- Infuse tea with lemon or cucumber





Limit Processed Foods to Help Control Calorie Intake

- Fast and convenience foods can be tempting, but over time, eating that way can have negative impacts on your health and lead to weight gain, which can increase your risk for cancer
- High in fat and sugar, but low in fiber and nutrients
- Fast and convenience foods are often served in large portions
- Fuel up on foods that are minimally processed and include fruit and vegetable ingredients
- Keep healthy snacks on hand for when cravings strike
- Read nutrition facts labels when shopping and compare calories per serving, fat and sodium, and select foods that are minimally processed





Take Action to Manage Body Fat

Types of Cancer

- Breast Cancer
- Colorectal Cancer
- Endometrial Cancer
- · Esophageal Cancer
- Gallbladder Cancer
- Kidney Cancer
- Liver Cancer
- Mouth, Pharynx, and Larynx Cancer
- Ovarian Cancer
- Pancreatic Cancer
- Prostate Cancer
- Stomach Cancer

- Too much body fat can produce proteins called cytokines which trigger inflammation
- Having excessive body fat can cause your body to produce too much estrogen, insulin and other hormones
- Risk for cancer increases with having excess visceral fat and significant excess body fat
- Eat nutritious foods, in healthy portions
- Avoid sugary drinks and alcohol
- Be physically active; move more, sit less



Limit Consumption of Red and Processed Meat

- You don't have to eat red meat to get the nutrients you need, but eating moderate amounts provides a good source of protein, iron, zinc, and vitamin B12
- Eating more than 18 oz. of red meat weekly can increase your cancer risk (colorectal cancer)
- Eat little, if any, processed meat
- Think of lean meat as a side dish
- Eat meatless a few times a week





It's Best Not to Drink Alcohol



- Be mindful and conscious of your alcohol intake in social situations
- Order smaller sizes and avoid doubles
- Sip slowly
- Alternate alcoholic and non-alcoholic drinks
- Try alcohol free beer, wine and spirits
- Try Kombucha, seltzer, club soda



Enhance Your Diet with More Plant Foods

- Vegetables and fruits may help to protect you from a host of cancers – such as colorectal, esophageal, mouth, pharynx, larynx, and stomach
- Phytochemicals can protect cells from the damage that may lead to cancer
- Make whole grains, vegetables, fruits, beans and lentils a major part of your normal diet
- Strive for at least 30g of fiber from food sources
- Include a minimum of 3.5 cups to 5 cups of vegetables and fruits





- 2/3 or more plant foods
- 1/3 or less animal foods



How do Plant Foods Fight Cancer?

Biological process protecting the cell, preventing initiation and progression	Examples of nutrients shown to support the process	
Detoxification of carcinogens	Isothiocyanates, flavonoids	
Protection of DNA from oxidation	Vitamins A, C, D, E and selenium	
DNA repair	Folate, selenium, lycopene, retinoids	
Cell cycle regulation	Polyphenols, retinoids, folate, selenium	
Promotion of cell differentiation	Long-chain-omega-3 fatty acids, vitamin D, retinoic acid	
Induction of apoptosis in initiated cells	Curcumin, polyphenols, sulforaphane, isothiocyanates, quercetin, lycopene	
Prevention of angioneogenesis	Indol-3-carbinol, curcumin	
Suppression of inflammation	Omega-3 fatty acids, indol-3-carbinol	
Regulation of hormonal signals	Soy isoflavones, vitamin D, carotenoids	





Popular Diets that Fit the Recommendations



FLEXITARIAN DIET



LACTO-OVO VEGETARIAN DIET



MEDITERRANEAN DIET



PESCOVEGETARIAN
DIET (OR
PESCATARIAN)



VEGAN DIET



Managing Nutrition Impact Symptoms



Common Nutrition Impact Symptoms During Cancer Treatment

Poor Appetite and Fullness

Constipation

Diarrhea

Nausea/Vomiting

Poor Taste, Taste
Alterations

Fatigue

Malabsorption

Dry Mouth and Thick Saliva

Difficult and Painful Swallowing



Malnutrition and Cancer



Malnutrition – Looks Can Be Deceiving





© Copyright 2021 ASPEN | American Society for Parenteral and Enteral Nutrition



What does Malnutrition look like?





Slow-healing wounds



Loss of appetite



Feeling tired or fatigued



Muscle weakness



Swelling in your ankles, legs, or belly



Frequent nausea, vomiting, or diarrhea



Getting sick often





Food Insecurity and People with Cancer

Cancer can be a financially devastating diagnosis. Food insecurity is associated with adverse mental and physical outcomes

- Discuss ability to purchase and access food
- Educate about nutritious, cost-effective food options
- Direct to food assistance resources
- Referral for assistance with applying for supplemental nutrition programs





Nutrition Advocacy



Every Patient with Cancer Needs Access to a Qualified RD

Hindawi Journal of Oncology Volume 2019, Article ID 7462940, 8 pages https://doi.org/10.1155/2019/7462940



Research Article

Inadequate Nutrition Coverage in Outpatient Cancer Centers: Results of a National Survey

Elaine B. Trujillo, ¹ Katrina Claghorn, ² Suzanne W. Dixon, ³ Emily B. Hill, ⁴ Ashlea Braun, ⁴ Elizabeth Lipinski, ⁴ Mary E. Platek, ⁵ Maxwell T. Vergo (1), ⁶ and Colleen Spees (1), ⁴⁷

¹Division of Cancer Prevention, National Cancer Institute, National Institutes of Health, Rockville, MD 20850, USA

²Abramson Cancer Center, University of Pennsylvania, Philadelphia, PA 19104, USA

3Cambia Health Solutions, Portland, OR, USA

⁴School of Health and Rehabilitation Sciences, The Ohio State University, Columbus, OH 43210, USA

⁵Department of Cancer Prevention and Control and Radiation Medicine,

Roswell Park Comprehensive Cancer Center and School of Health Related Professions, D'Youville College, Buffalo, NY 14263, USA

⁶Geisel School of Medicine at Dartmouth, Hanover, NH 03755, USA

Comprehensive Cancer Center, The Ohio State University, Columbus, OH 43210, USA

Correspondence should be addressed to Maxwell T. Vergo; maxwell.t.vergo@hitchcock.org

Received 20 June 2019; Revised 12 September 2019; Accepted 3 October 2019; Published 22 November 2019

Guest Editor: Philippe-Richard J. Domeyer

Copyright © 2019 Elaine B. Trujillo et al. This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Cancer-related malnutrition is associated with poor health outcomes, including decreased tolerance to cancer therapy, greater treatment roxicities, and increased mortality. Medical nutrition therapy (MNT) optimizes clinical outcomes, yet registered dietitian nutritionists (RDNs), the healthcare professionals specifically trained in MNT, are not routinely employed in outpatient cancer centers where over 90% of all cancer patients are treated. The objective of this study was to evaluate RDN staffing patterns, nutrition services provided in ambulatory oncology settings, malnutrition services provided in ambulatory oncology settings, malnutrition services provided on the centers. An online questionnaire was developed by the Oncology Nutrition Dietetic Practice Group (ON DPG) of the Academy of Nutrition and Detectics and distributed via the ON DPG electronic mailing list. Compelete data were summarized for 21 cancer centers. The mean RDN full-time equivalent (FTE) for all centers was 1.7 ± 2.0. After stratifying by type of center, National Cancer Institute Designated Cancer Centers (NCI CCs) employed a mean of 3.1 ± 3.0 RDN FTEs compared to 1.3 ± 1.4 amongst non-NCI CCs. The RDN-to-patient ratio, based on reported analytic cases, was 1.2,208. Per day, RDNs evaluated and courseled an average of 7.4 ± 4.3 oncology patients. Approximately half (53.1%) of the centers screened for malnutrition, and 64.9% of these facilities used a validated malnutrition screening tool. The majority (7.68%) of centers do not bill for nutrition services. This is the first national study to evaluate RDN staffing patterns, provider-to-patient ratios, and reimbursement practices in outpatient cancer centers. These data indicate there is a significant gap in RDN access for oncology patients in need of nutritional cancer

1. Introduction

The connection of poor and deteriorating nutritional status with adverse clinical outcomes during cancer treatment is well documented. Malnutrition is estimated to occur in up to 80% of cancer patients at some point during or after treatment [1, 2]. Unlike nonwasting malnutrition, cancer-related malnutrition results in accelerated weight loss

provoked by systemic inflammation and catabolic factors [3]. This concomitant negative energy balance and skeletal muscle loss is further driven by suboptimal dietary intake and metabolic alterations, including elevated resting energy expenditure, insulin resistance, lipolysis, and proteolysis

A landmark study in 1980 introduced the concept that significant weight loss may compromise cancer patient survival, independent of conventional prognostic indicators



Study: More Dietitians Needed in Cancer Centers to Help Patients Stay Well-Nourished Throughout Treatment and Beyond

Nutritional counseling optimizes cancer care, yet there's an average of about one dietitian for every 2,300 patients nationally



Multimedia Downloads

Documents

Press Release

(click here for preview) Microsoft Word Document PDF

TV Script

(click here for preview)
Microsoft Word Document

Advocacy: Medical Nutrition Therapy Act of 2021

- S. 1536 Introduced and referred to the Senate Committee on Finance
- H.R 3108 Introduced and referred to the House Subcommittee on Health

This bill expands Medicare coverage of **medical nutrition therapy (MNT)** services.

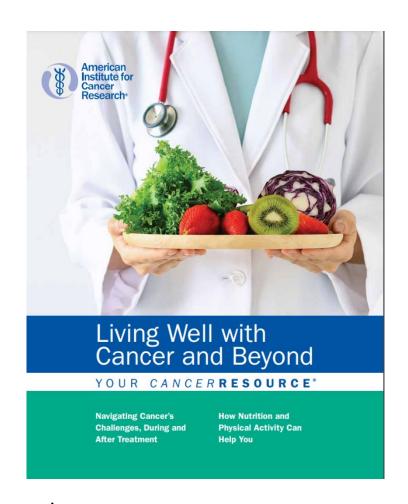
Currently, Medicare covers such services for individuals with diabetes or kidney disease under certain circumstances; such services must also be provided by a registered dietitian pursuant to a physician referral.

This bill extends coverage to individuals with other diseases and conditions, including obesity, eating disorders, **cancer**, HIV/AIDS, prediabetes, malnutrition, gastrointestinal diseases, cardiovascular disease, and hypertension; such services may also be referred by a physician assistant, nurse practitioner, clinical nurse specialist, or (for eating disorders) a clinical psychologist.

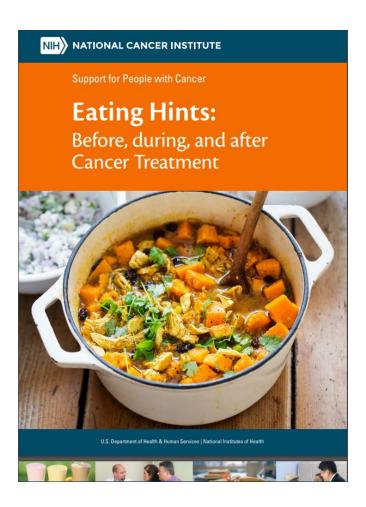
congress.gov eatrightpro.org/advocacy



Resources







cancer.gov



Diet and Activity Guidelines to Reduce Cancer Risk

Staying at a healthy weight, being physically active throughout life, following a healthy eating pattern, and avoiding or limiting alcohol may greatly reduce your risk of developing or dying from cancer.



OVERWEIGHT OR OBESITY RAISES A PERSON'S RISK OF GETTING ONE OR MORE OF



The American Cancer Society Diet and Physical Activity Guidelines for Cancer Prevention provide recommendations for weight control, physical activity, diet, and alcohol consumption to reduce cancer risk.

The American Cancer Society recommends the following:



BE PHYSICALLY ACTIVE.

EXERCISE

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

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

- · Sitting around





cancer.org





Thank You to Jennifer Lafferty & Our Listeners! Don't miss our next advocacy chat

Wednesday, April 12th at 12:00 pm ET

The Impact of Health Equity on Cancer Care



Audrey Davis, LPC, PM-LPC
Director of Health Equity
Cancer Support Community