

Wednesday, March 17, 2021 4:10 PM – 4:55 PM EDT

Advancing Survivorship Care through Program Development

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Fred & Pamela Buffett Cancer Center

NCCN.org – For Clinicians

NCCN.org/patients - For Patients

Objectives

- Describe several different survivorship care models for the long-term follow-up of cancer survivors.
- Discuss ideas to address special areas of survivorship care including fertility, post allogeneic stem cell transplant care, and the transition of survivors of childhood cancer from pediatric to adult survivorship programs.
- Explain how educational programs for survivors and providers can help promote optimal survivorship care.





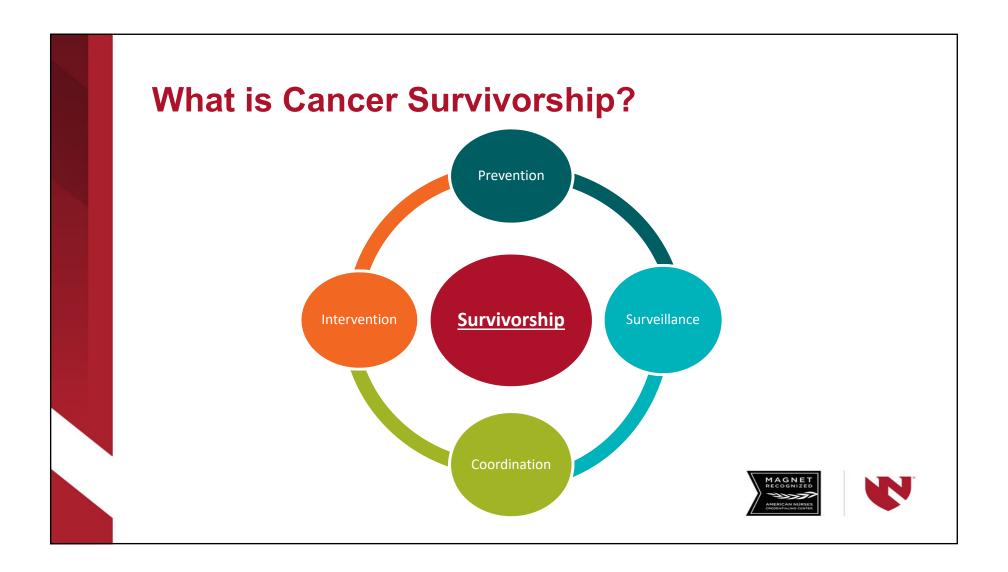
Who is a Cancer Survivor?

A *survivor* is anyone living with a history of cancer – from the moment of diagnosis through the remainder of life.

American Cancer Society (2019)







Why is Survivorship Important?





American Cancer Society (2019)

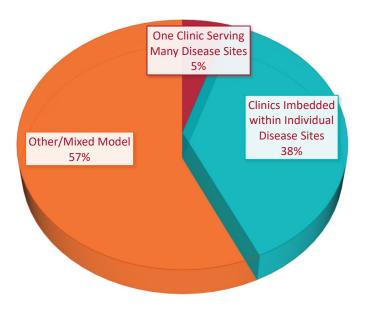


Survivorship Models

Oncology Specialist Care	+ Continuity of care
•	- Not focused on late/long term effects or wellness; lack of time
Multidisciplinary Clinic	+ Expertise in late/long term effects; multiple services in one location
	- Resource and time intensive; not needed by all survivors
Disease Specific Survivorship Clinic	+ Expertise in one particular area; simple to pilot service and apply guidelines
	- Limited to survivor populations with large numbers
General Survivorship Clinic	+ Provides survivorship services for all groups; financially more efficient
	- Difficult to have expertise in one clinic across all survivor groups
Consultative Survivorship	+ Continuity oncologist, fewer resources, provides post treatment plan
Clinic	- One time visit with no follow up; limited time; requires a billing provider
Community / Shared care with Primary Care	+ Focus is on wellness and co-morbid conditions; promotes independence
	- Limited knowledge on late/long term effects; roles not clearly delineated



NCCN Member Institutions Survivorship Programs (n=21)







Mixed Model Example

Nebraska Medicine Survivorship Program

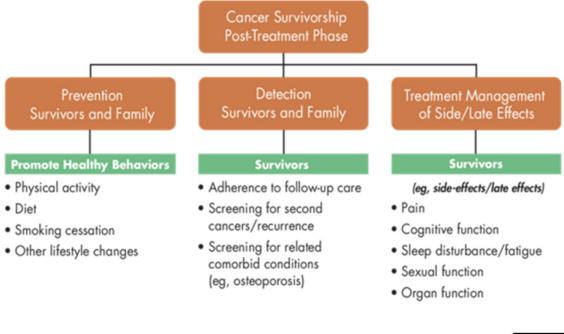
General Survivorship Clinic Disease Based (Thyroid and Gyn Onc) Allogeneic PSCT Long Term Follow Up Clinic Adult Survivors of Childhood Cancer Clinic





PSCT, peripheral stem cell transplantation

Survivorship Visit Components







Survivorship Care Plan

- Key survivorship component
- Road map for post-treatment care
- Tool for care coordination and communication

Treatment Summary Follow-up Plan Survivorship Care Plan





Survivorship Care Plan

Cancer Treatment Team Members				
Pediatric Oncologist:	Bruce G Gordon, MD			

Cancer and Pathology Information				
Diagnosis	Hodgkin disease			
Diagnosis Date:	April 2012 (age 16)			
Staging Information:	Staging form: Hodgkin Lymphoma (Pediatrics), COG - Clinical: IIA			

Treatment Summary:		
Smam.	Mono	

Surgery:	None
Chemotherapy:	ABVE-PC x 4 cycles per COG AHOD0031 completed 7/2012 A = Doxorubicin B = Bleomycin V = Vincristine E = Etoposide P = Prednisone
	C = Cyclophosphamide
Radiation:	bilateral neck and mediastinum 8/2012 - 9/2012, total 2100cGy





Survivorship = Supportive Care Services

Physical / Psychiatry / Support **Nutrition** Occupational **Psychology** Groups Therapy **Smoking** Genetic Social Work Oncofertility Cessation **Testing** Mindfulness Massage Acupuncture Yoga





Survivorship Research

Assessment and management of symptoms and toxicities

Psychosocial behavioral interventions designed to promote quality of life and reduce symptom burden

Associations between stress, psychosocial factors and symptom burden

Disease activity and survival

Caregiving

Adaptations of survivorship interventions

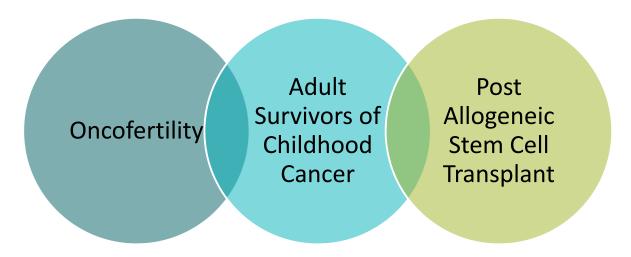
eHealth programs that target symptom management, healthy lifestyle, and care delivery in cancer survivors





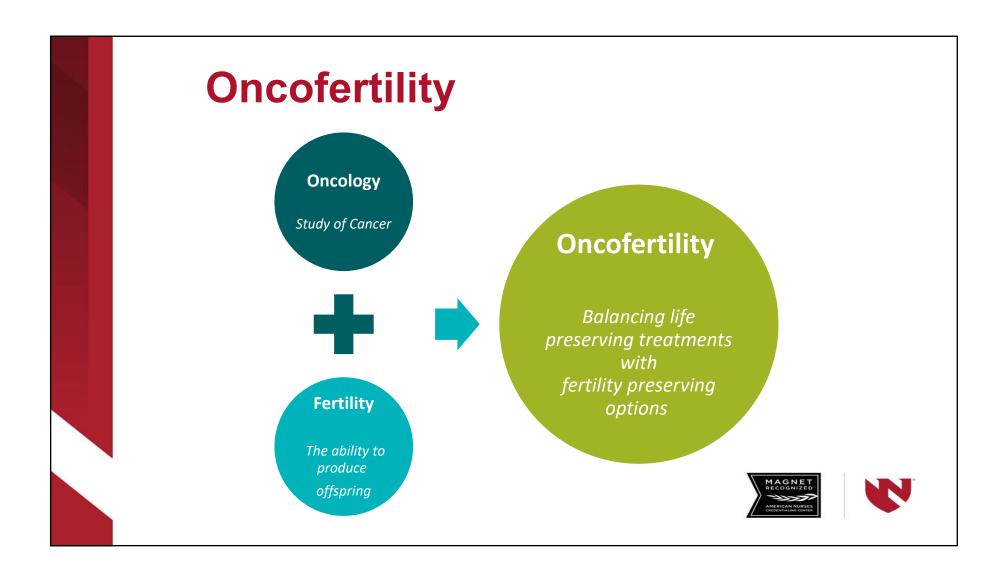


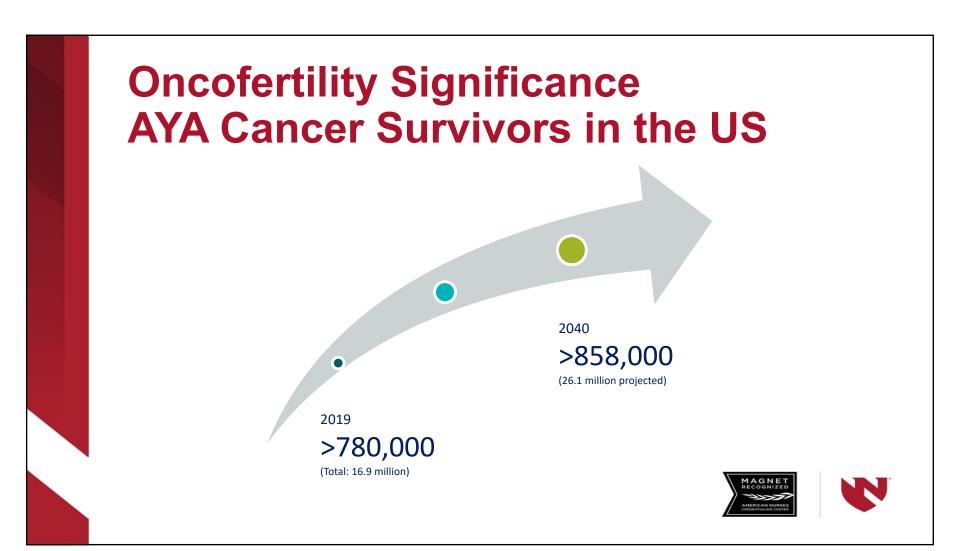
Special Areas of Survivorship

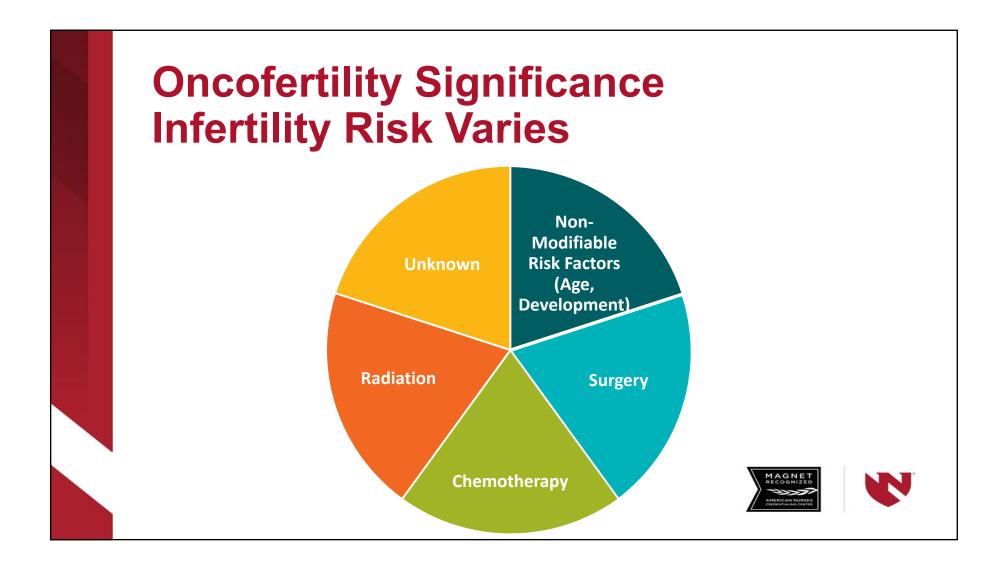












Oncofertility Significance

Distress regarding infertility risk

Adverse Health Outcomes

Reduced QOL





Oncofertility Significance – Areas to Improve

Documentation

Provider Knowledge

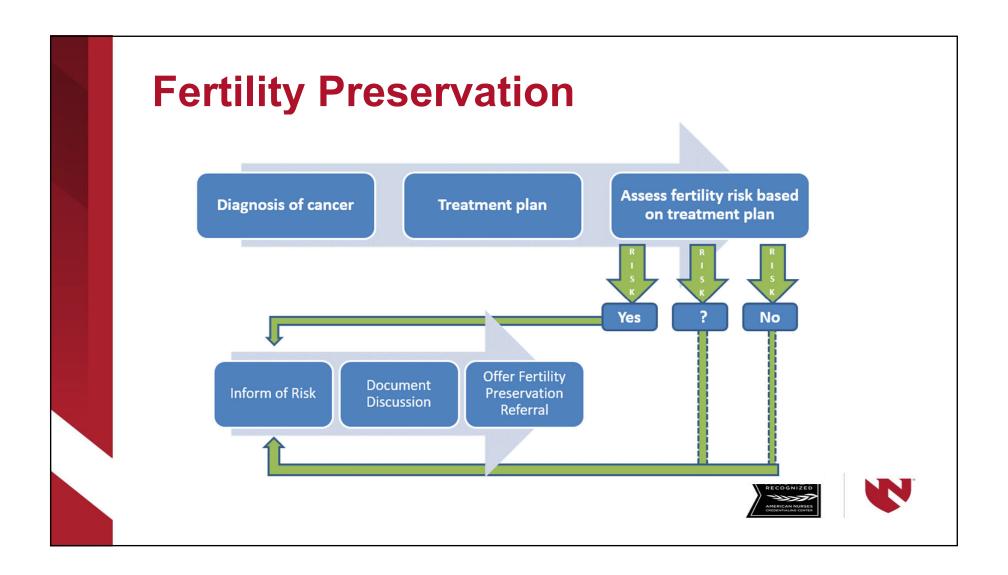
- Infertility
Risk/Options for
Fertility preservation

Patient/Provider Education materials

Coordination of Referrals/Financial assistance







Best Practices to Implement

Discuss infertility risk and fertility preservation with all pts ages 15-45, Parent/Guardian if younger

Refer all interested and ambivalent patients

Address fertility preservation before treatment starts

Document discussion

Answer basic questions about impact on cancer treatment

Refer to psychosocial providers if they experience distress

Encourage registries and clinical trials





Key Points:

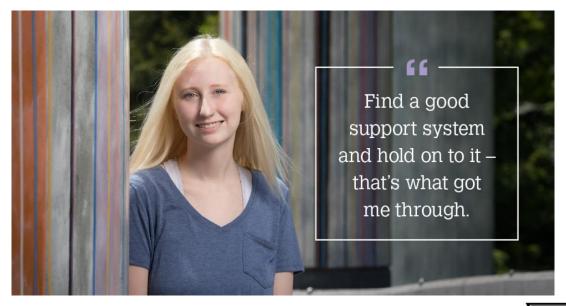
- Don't ask: Do you want a family later on?
- Instead ask: Do you want the choice to have a family later on?
- Document your conversation







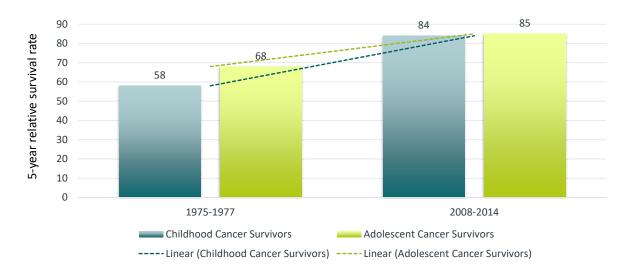
Adult Survivors of Childhood Cancer







~400,000 Adult Survivors of Childhood Cancer



American Cancer Society (2019); Sayed (2020)





Two Types of Transition:

Acute Care to Long Term Follow Up

- Varies between institutions
- Focus on late effect screenings and health promotion
- May cause mixed emotions (not seeing staff as frequently)

Pediatric Care to Adult Care

- Occurs as adolescents and young adults "age out" of pediatric healthcare system
- Focus on preparation of survivor and family to assist in successful transition
- May cause mixed emotions while transitioning from familiar to unfamiliar setting with new providers





Areas for Improvement

Adolescent and young adult (AYA) childhood cancer survivors (CCS) should be empowered to continue their survivor-focused care as they transition into adult medicine.

However, the majority of AYA-aged survivors (~60%):

- Have deficient health-related knowledge
- Not engaged in recommended health promotion and screening practices that could improve their long-term outcomes
- Become lost to follow up around the age of typical transition to adulthood





Transition Process

Pediatric Oncology Team

- Followed by pediatric oncology team for ideally 5 years following treatment (varies depending on age)
- Surveillance for disease

Childhood Survivorship Clinic

- Transitions to survivorship when 2-5 years off therapy
- Focuses on late effects
- Prepares patients and families for adult transition starting at age 16-18

Adult Survivors of Childhood Cancer Clinic

- Transitions to adult survivorship between ages 19-25 (2 years off therapy)
- Demonstrates readiness
- Focuses on late effects, refers to adult specialty services as indicated





Adult Survivors of Childhood Cancer Clinic Nebraska Medicine SERIOUS MEDICINE. EXTRAORDINARY CARE.* Nebraska Children's Self Referral Medicine Hospital Pediatric BMT

Unique Needs for Young Adult Transition

Knowledge Deficit	Psychological	Healthcare System
of Survivor	Factors	Issues
Knowledge Deficit of Provider	Financial Issues	Insurance Issues

Freyer (2010); Mouw (2017)





Themes of Transition Clinic

Emphasize risk-based screening and health promotion

Bridge the knowledge deficit of primary care providers on screening guidelines and health risks

Reinforce the importance of ongoing follow up for asymptomatic survivors

Create a plan and provides ongoing education

Provide up-to-date resources for survivors as they mature

Discussion of infertility risk, assessment, and available options after treatment

Facilitate survivorship research





Key Points:

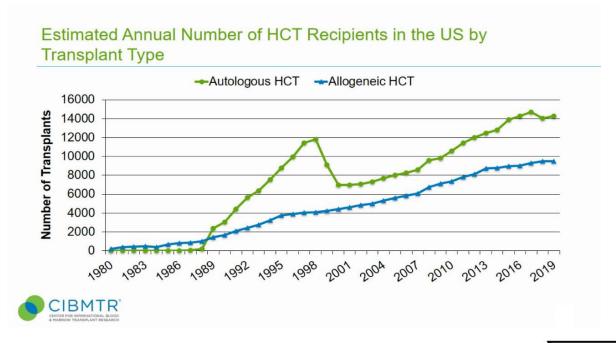
For the adult survivors of childhood cancer, how can we:

- Lower attrition rates
- Improve adherence to care
- Improve relationships (continuity, longitudinal follow-up)





Allogeneic Transplant Survivors



Phelan, R., Arora, M., Chen, M. Current use and outcome of hematopoietic stem cell transplantation: CIBMTR US summary slides, 2020.





Allogeneic Transplant Survivors

- Patients disease-free at 2 or 5 years have > 80% 10-year survival rate
- Late effects have adverse effects on
 - Morbidity
 - Mortality
 - Working status
 - Quality of life





Allogeneic Transplant Survivors

- Retrospective study (n=1087)
- Cumulative incidence at 5 years post SCT
 - Any non-malignant late effect at 5 years 79%
 - 3 or more late effects 26%
- Life expectancy among 5 year survivors remains 30% lower than general population



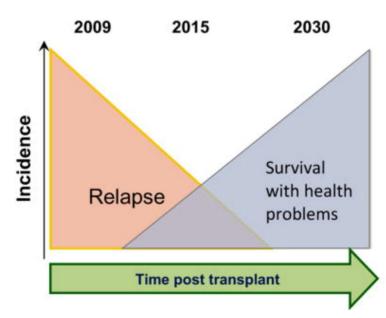


Khera et al. J Clin Oncol. 2012; Martin et al. J Clin Oncol. 2010

Transplant Survivor Continuum

Early Concerns:

- Graft Failure
- Relapse
- Transplant-related complications
- Immunodeficiency



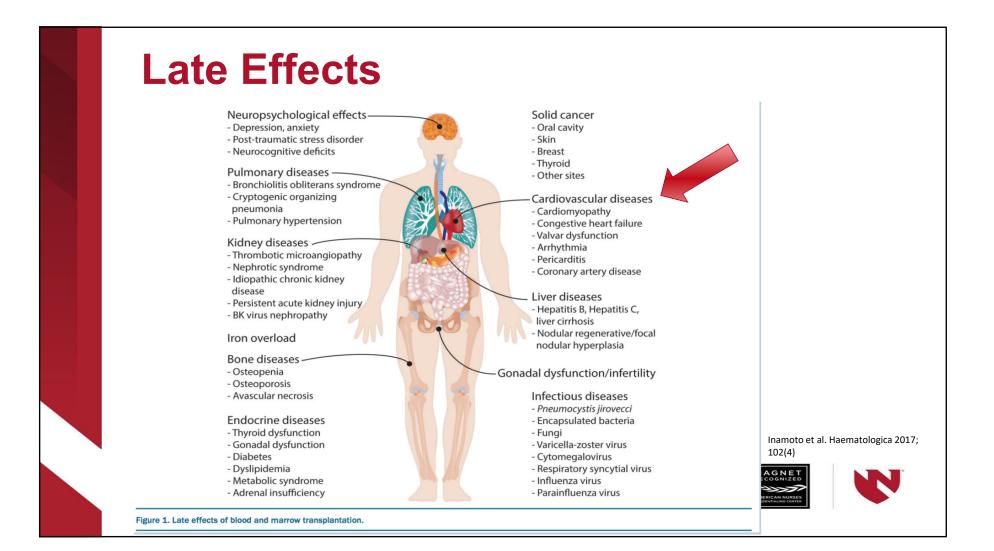
of potential problems increase with time from transplant:

- Metabolic
- Pulmonary
- Bone loss
- Delayed immune reconstitutions
- Renal complications
- Cognitive problems
- Second malignancies





(Battiwalla, M., Tichelli, A., & Majhail, N. S., 2017)



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Long Term Follow Up

Specialized Long Term Follow Up Clinic

• Coordinate long-term management of BMT survivors, offering risk-based screening for early detection of long-term complications.

Dedicated Primary Care Providers

• Special interest in cancer survivorship issues to take on the responsibility of managing such a patient.

Hybrid Approach

• Specialized clinics partner with PCPs in the community to optimize the long-term care of the transplant survivors.









NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®)

Survivorship

Version 1.2021 — February 24, 2021

NCCN.org

NCCN Guidelines for Patients® available at www.nccn.org/patients

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NCCN Guidelines Version 1.2021 Survivorship

NCCN Survivorship Panel Members

NCCN Survivorship Sub-Committee Members

Summary of the Guidelines Updates

General Survivorship Principles

- Definition of Survivorship & Standards for Survivorship Care (SURV-1)
- General Principles of the Survivorship Guidelines (SURV-2)
- Screening for Subsequent New Primary Cancers (SURV-3)
- Familial/Genetic Risk Assessment Considerations For Subsequent Primary Cancers (SURV-4)
- Assessment By Health Care Provider at Regular Intervals (SURV-5)
- Survivorship Assessment (SURV-A)
- Survivorship Resources For Health Care Professionals And Patients (SURV-B)
- Principles of Screening for Treatment-Related Subsequent Primary Cancers (See SURV-C)

Preventive Health

- Healthy Lifestyles (HL-1)
- ▶ Physical Activity (SPA-1)
- ▶ Nutrition and Weight Managment (SNWM-1)
- ▶ Supplement Use (SSUP-1)
- Immunizations and Infections (SIMIN-1)

Late Effects/Long-Term Psychosocial and Physical Problems

- Cardiovascular Disease Risk Assessment (SCVD-1)
- Anthracycline-Induced Cardiac Toxicity (SCARDIO-1)
- Anxiety, Depression, Trauma, and Distress (SANXDE-1)
- Cognitive Function (SCF-1)
- Fatigue (SFAT-1)
- Lymphedema (SLYMPH-1)
- Hormone-Related Symptoms (SMP-1)
- Pain (SPAIN-1)
- Sexual Function (SSF-1)
- ▶ Female Treatment Options (SSF-2)
- ▶ Male Treatment Options (SSF-3)
- Sleep Disorders (SSD-1)
- Employment and Return to Work (SWORK-1)

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

To find clinical trials online at NCCN Member Institutions, click here: nccn.org/clinical_trials/member institutions.aspx.

NCCN Categories of Evidence and Consensus: All recommendations are category 2A unless otherwise indicated.

See NCCN Categories of Evidence and Consensus.

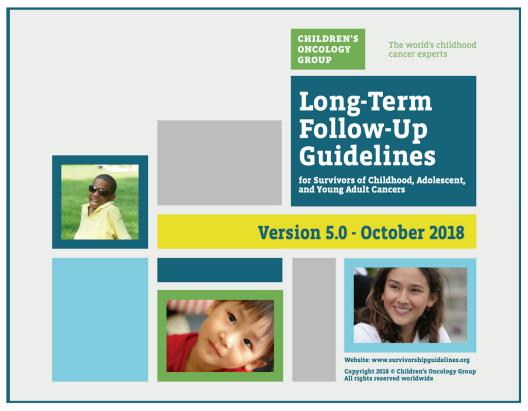
Nearly 300 pages

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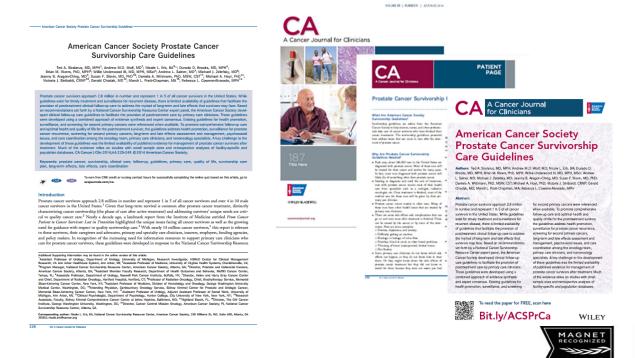
Children's Oncology Group

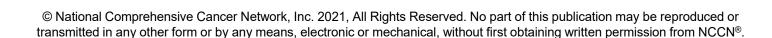






American Cancer Society Survivorship Care Guidelines







CANCER SURVIVORSHIP E-LEARNING SERIES FOR PRIMARY CARE PROVIDERS

Module 1: The Current State of Survivorship Care and the Role of Primary Care Providers

Module 2: Late Effects of Cancer and its Treatments: Managing Comorbidities and Coordinating with Specialty Providers

Module 3: Late Effects of Cancer and its Treatments: Meeting the Psychosocial Health Care Needs of Survivors

Module 4: The Importance of Prevention in Cancer Survivorship: Empowering Survivors to Live Well

Module 5: A Team Approach: Survivorship Care Coordination Module 6: Cancer Recovery and Rehabilitation

Module 7: Spotlight on Prostate Cancer Survivorship: Clinical Follow-Up Care Guideline for Primary Care Providers

Module 8: Spotlight on Colorectal Cancer Survivorship: Clinical Follow-Up Care Guideline for Primary Care Providers

Module 9: Spotlight on Breast Cancer Survivorship: Clinical Follow-Up Care Guideline for Primary Care Providers

Module 10: Spotlight on Head and Neck Cancer Survivorship: Clinical Follow-Up Care Guideline for Primary Care Providers







National Cancer Survivorship Resource Center Toolkit

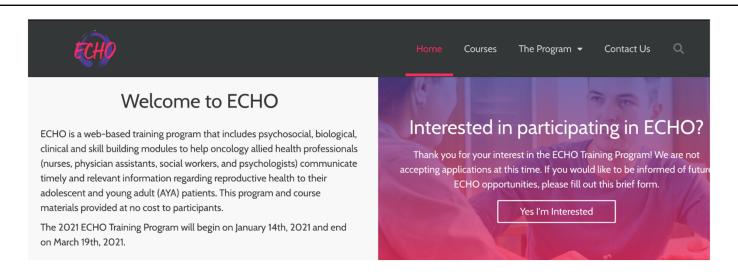


- Implementing Clinical Practice Guidelines for Cancer Survivorship Care
- Cancer Specific Checklists
- Provider Tools
- Patient Tools









Enriching Communication Skills for Health Professionals in Oncofertility (ECHO)

Virtual Course

Topics focused on:

- Risk of infertility
- Fertility preservation
- Sexual functioning
- Body image
- Ethical, social, cultural considerations









Get Started

This free and easy to use program provides cancer survivors with information regarding the health risks they face as a result of cancer therapies.

Develop My Cancer Survivorship Care Plan





Programs for Survivors

How are you celebrating your survivors?

Despite the challenges of short-term and long-term effects of treatments, cancer survivors are resilient.

Cancer Survivors' Month is celebrated in June. This is a time to celebrate milestones and serves as a reminder of our mission.

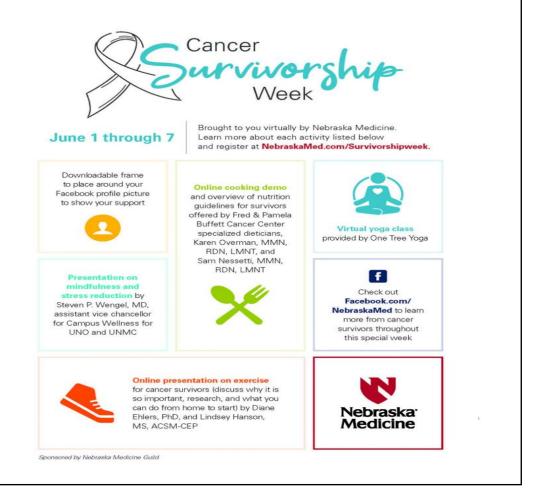






Virtual Events

- Virtual events offered June 1- 7th
- Online cooking demo
- Virtual Yoga Mindfulness and stress reduction
- Exercise at home













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Questions?

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 An alliance of leading cancer
 centers devoted to patient
 - centers devoted to patient care, research, and education
- Our Mission

To improve and facilitate quality, effective, efficient, and accessible cancer care so patients can live better lives

Our Vision

To define and advance highquality, high-value, patientcentered cancer care globally

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