Federal Advisory Committee **Breast Cancer in Young Women Sexual Health and Fertility** Working Group

Members of Working Group

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Statement of Problem

- Lack of consistent acknowledgement, assessment, and interventions offered for sexual health concerns among young women with breast cancer
- Lack of consistent acknowledgement, assessment, and interventions offered for fertility concerns among young women with breast cancer

Review of NCCN Current Guidelines

Sexual health

Fertility

Sexual Heath

NCCN Guidelines under Survivorship



NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®)

Survivorship

Version 2.2019 — June 05, 2019

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Comprehensive NCCN Guidelines Version 2.2019 Survivorship

NCCN Suprivership Danel Members	
NCCN Survivorship Panel Members	Clinica
NCCN Survivorship Sub-Committee Members	the bes
Summary of the Guidelines Updates	with ca
General Survivorship Principles	Particip
 Definition of Survivorship & Standards for Survivorship Care (SURV-1) 	especia
 General Principles of the Survivorship Guidelines (SURV-2) 	
 Screening for Subsequent New Primary Cancers (SURV-3) 	To find
 Assessment By Health Care Provider at Regular Intervals (SURV-4) 	Membe nccn.or
 <u>Survivorship Assessment (SURV-A)</u> 	
 Survivorship Resources For Health Care Professionals And Patients (SURV-B) 	NCCN
Preventive Health	Consei
Healthy Lifestyles (HL-1)	are cate
Physical Activity (SPA-1)	indicate
Nutrition and Weight Managment (SNWM-1)	See NC
Supplement Use (SSUP-1)	and Co
 Immunizations and Infections (SIMIN-1) 	
Late Effects/Long-Term Psychosocial and Physical Problems	
Anthracycline-Induced Cardiac Toxicity (SCARDIO-1)	
 Anxiety, Depression, Trauma, and Distress (SANXDE-1) 	
<u>Cognitive Function (SCF-1)</u>	
Fotions (CEAT 4)	

- Fatigue (SFAT-1)
- Lymphedema (SLYMPH-1)

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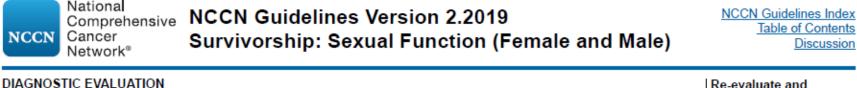
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NCCN Cancer

- Hormone-Related Symptoms (SMP-1)
- Pain (SPAIN-1)
- Sexual Function (SSF-1)

Family Tradition Onlines (OOF O)

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DIAGNOSTIC EVALUATION	Screening questions do not indicate an issue	•	•	Re-evaluate and discuss potential impact of treatment on sexual function at future visits
 Ask about sexual function at regular intervals (See screening questions on <u>SURV-A</u>) Discuss treatment-associated infertility if indicated, with appropriate referrals^a 	Screening questions indicate an issue, but survivor does not want to discuss at oncology visit • Screening questions indicate an issue and survivor wants to discuss further • Consider use of a screening tool ^b	 H&P Review oncologic history (ie, diagnosis/stage, surgeries, systemic treatment, local RT, endocrine therapy) Explore treatment-related impact on sexual function Assess for signs or symptoms of estrogen or androgen deprivation or refer to appropriate specialist Review medical history for conditions associated with sexual dysfunction (eg, depression [See SANXDE-1 and NCCN Guidelines for Distress Management], diabetes, hypertension) Assess total morning testosterone in males as indicated Review medication list for drugs that impact sexual function (eg, SSRIs, beta blockers) 		Refer to sexual health specialist, if survivor is interested ^c and Re-evaluate and discuss potential impact of treatment on sexual function at future visits See Treatment for <u>Females (SSF-2)</u> or for <u>Males (SSF-3)</u> Appropriate referrals for: • Psychotherapy • Sexual/couples counseling • Gynecologic care • Urology • Sexual health specialist, if available ^c

^aFor information regarding fertility preservation for patients with cancer, see Loren AW, Mangu PB, Beck LN, et al. Fertility preservation for patients with cancer: American Society of Clinical Oncology clinical practice guideline update. J Clin Oncol 2013;31:2500-2510. http://www.ncbi.nlm.nih.gov/pubmed/23715580 bSeveral Screening tools are available for both men and women. For women, options include the Brief Sexual Symptom Checklist for Women (SSF-A), Arizona Sexual Experience Scale (http://dx.doi.org/10.1080/009262300278623), and the Female Sexual Function Index (http://www.fsfiguestionnaire.com/). For men, the Sexual Health Inventory for Men (SHIM) (SSF-B), Sexual-Quality of Life-Men (http://dx.doi.org/10.1111/i.1743-6109.2007.00749.x), and the PROMIS Brief Function Profile-Male (http://www.assessmentcenter.net/) are examples.

Sexual health specialists may come from a range of backgrounds, including primary care, gynecology, urology, oncology, psychology, and/or rehabilitation medicine. Whenever possible, survivor should be referred to an appropriate local resource for further sexual health evaluation.

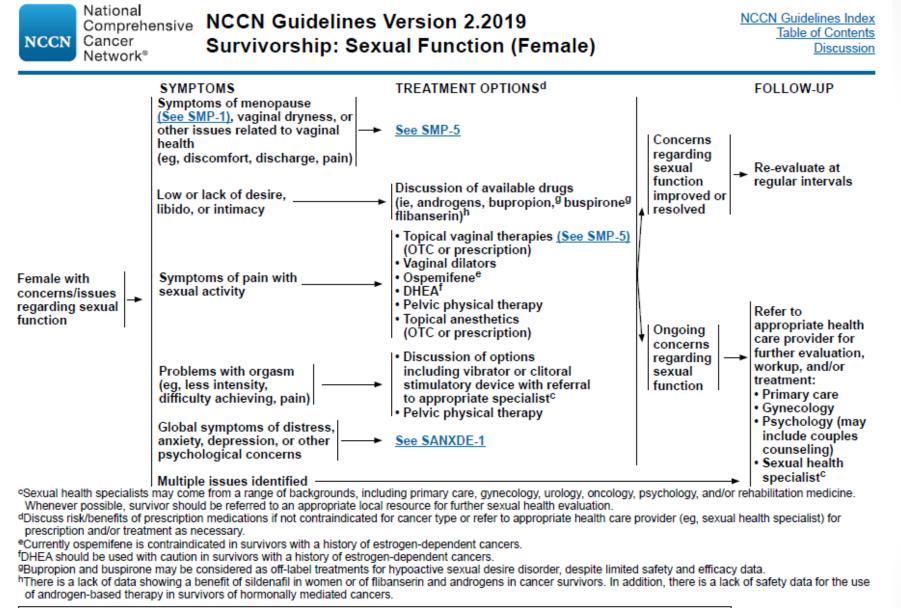
Note: All recommendations are category 2A unless otherwise indicated.

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.

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Discussion

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SSF-2

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Comprehensive NCCN Guidelines Version 2.2019 Survivorship: Sexual Function (Female)

NCCN Guidelines Inde Table of Content Discussio

BRIEF SEXUAL SYM	IPTOM CHECKLIST FOR WOMEN ¹
Please answer the following q 1. Are you satisfied with your s	uestions about your overall sexual function: sexual function?
YesNo If no, please continue.	
2. How long have you been dis	satisfied with your sexual function?
3a. The problem(s) with your s (mark one or more)	exual function is:
_1 Problem with little or no in	nterest in sex
2 Problem with decreased g	jenital sensation (feeling)
3 Problem with decreased v	aginal lubrication (dryness)
4 Problem reaching orgasm	1
_5 Problem with pain during	sex
6 Other:	
3b. Which problem is most bot 1 2 3 4 5 6	thersome? (circle)
4. Would you like to talk about YesNo	it with your doctor?

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

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NCCN Guidelines under Adolescent and Young Adult Oncology



NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®)

Adolescent and Young Adult (AYA) Oncology

Version 1.2020 — July 11, 2019

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



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Comprehensive NCCN Guidelines Version 1.2020 Adolescent and Young Adult (AYA) Oncology

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COMPREHENSIVE INITIAL ASSESSMENT

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NCCN Cancer

 Provide age-appropriate information related to cancer <u>See Online Resources for AYA Patients and Survivors (AYAO-E)</u> All female patients of child-bearing potential must receive a pregnancy test prior to initiating therapy Discuss contraception prior to initiating therapy for male and female patients Discuss risks of infertility due to cancer and its therapy, as well as fertility preservation <u>See Fertility and Reproductive Endocrine Considerations (AYAO-5)</u> Psychosocial assessment 	→ Fertility/endocrine → Fertility and <u>Reproductive</u> <u>Endocrine</u> <u>Considerations</u> (AYAO-5)
 See Psychosocial/Behavioral Considerations Individual (AYAO-6 and AYAO-7) Relationships (AYAO-8) Socioeconomic Issues (AYAO-9) See NCCN Guidelines for Distress Management Take a thorough family history, preferrably by a genetic counselor, and if appropriate recommend referral for genetic and familial risk assessment/counseling based on clinical/family history and histologic diagnosis. Approximately 8%–9% of all patients with cancer will have a germline mutation in a cancer-predisposing gene^f 	-►Treatment-related issues► <u>See AYAO-4</u>
 Risk factors for breast cancer <u>See NCCN Guidelines for Genetic/Familial High-Risk Assessment: Breast and Ovarian</u> Chest irradiation Risk factors for colon cancer <u>See NCCN Guidelines for Genetic/Familial High-Risk Assessment: Colorectal</u> Risk factors for sarcomas <u>See NCCN Guidelines for Soft Tissue Sarcoma</u> Risk Factors for Multiple Endocrine Neoplasia (MEN) See NCCN Guidelines for Neuroendocrine and Adrenal Tumors 	→Adherence to treatment → Adherence to treatm

^fZhang J, Walsh MF, Wu G, et al. Germline mutations in predisposition genes in pediatric cancer. N Engl J Med;2015;373:2236-2346.

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.

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AYAO-3

National NCCN Cancer Network[®]

Comprehensive NCCN Guidelines Version 1.2020 Adolescent and Young Adult (AYA) Oncology

 Addressing fertility and sexual health and function should be an essential part in the management of AYAs with cancer who are at any risk for infertility due to cancer treatments⁹ Discuss risks for infertility due to cancer and its therapy (especially for high-risk therapies such as alkylating agents or gonadal irradiation), fertility preservation, and contraception as early as possible prior to the start of therapy^h Men are at risk for azoospermia following therapy, which may or may not resolve over time Women are at risk for premature ovarian failure following therapy 	Males Discuss sperm banking Suggest a local sperm bank, or available online sperm banking kit Discuss testicular sperm extraction and electroejaculation as options if the patient has medical or religious issues that preclude traditional sperm banking Discuss fertility implications and sexuality during and after treatment and the option of testing for fertility with semen analysis. Consider referral to fertility specialist as appropriate. Discuss contraception during and after treatment. emales Discuss fertility implications and sexuality during and after treatment and the importance of follow-up with a gynecologist or fertility specialist to monitor ovarian function over time. Discuss contraception during and after treatment. Discuss embryo or oocyte cryopreservation or ovarian tissue cryopreservation (if available) Initiate if provider deems that therapy can be delayed long enough for a cycle of oocyte stimulation Menstrual suppression Medroxyprogesterone, oral contraceptives, or gonadotropin-releasing hormone (GnRH) agonists may be used in protocols that are predicted to cause prolonged thrombocytopenia and present a risk for menorrhagia It is controversial whether menstrual suppression would protect the ovaries, but some data suggest that menstrual suppression wit
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^h The impact of cancer therapy on fertility is related to the age of the patient at the time of treatment and is dependent on the duration, dose intensity, and type of treatment. See NCCN Guidelines for Breast Cancer for the management of women with breast cancer during pregnancy.

¹ Moore HC, Unger JM, Phillips KA, et al. Goserelin for ovarian protection during breast-cancer adjuvant chemotherapy. N Engl J Med 2015;372:923-932. Demeestere I, Brice P, Peccatori FA, et al. No evidence for the benefit of gonadotropin-releasing hormone agonist in preserving ovarian function and fertility in lymphoma survivors treated with chemotherapy; final long-term report of a prospective randomized trial. J Clin Oncol 2016;34:2568-2574.

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.

NCCN Guideline Issues:

Sexual Health

- Listed under "survivorship"
- Not specific to young women in breast cancer
- Treatment options not FDA Approved; Requires extensive counseling
- Not consistently used according to the literature/practice
- Sexual minorities not addressed

Fertility

- Listed under "adolescent and young adult"
- Not specific to young women and breast cancer
- Not consistently used according to the literature/practice
- Sexual minorities not addressed

The Literature

Sexual health

- 2.1 Million breast cancer diagnoses each year worldwide (WHO, 2018)
- 4-6% are women under age of 40
- 68% of women treated for BC experience sexual function issues, 45% still experience once treatment done
 - Most caused by premature ovarian failure as a result of treatment leading to GSM (genitourinary syndrome of menopause), vaginal dryness, pain with intercourse, decreased desire
 - Others self image related (weight gain, loss of breast(s), hair loss)
 - Fatigue, pain

The Literature...

Treatments for GSM

- Vaginal moisturizers (hyaluronic acid) and lubricants
- Local estrogen requires risk benefit discussion
- Local DHEA- requires discussion
- Vaginal dilators
- Vaginal stimulation
- CO2 vaginal laser therapy
- Local Lidocaine

*More detail available if needed

The Literature...

Treatments for decreased desire

- Sexual health counseling/therapy
- Flibanserin
- Bremelanotide

*More details available if needed

The Literature

Fertility

- Oncofertility- new branch of medicine
 - Embryo cryopreservation
 - Cryopreservation of ovarian tissue
 - Transplantation of ovarian tissue
 - Ovarian suppression
- Theresa Woodruff Northwestern University
- https://www.youtube.com/watch?v=4G4-38VxrBQ

Future Steps...Based on Feedback from Group

Sexual Health

• Fertility

Thank You