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Making Cancer History®

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RISK ASSESSMENT TREATMENT AND RECOMMENDATION **Risk Categories** Tamoxifen Lifestyle risk assessment Pre-menopausal Women¹ ages ≥ 35 years old, and one of the following: • History of lobular carcinoma in situ (LCIS)² Recommend one of the following: • History of atypical ductal hyperplasia (ADH)² High risk lesions: • Tamoxifen⁶ • History of atypical lobular hyperplasia (ALH)² • LCIS Yes • Raloxifene^{6,7} • History of estrogen receptor positive ductal carcinoma in situ • ADH/ALH • Aromatase inhibitors (AI)^{8,9} (ER+ DCIS) patient (exemestane <u>or</u> anastrozole) • Gail model 5 year breast cancer risk > 1.7% meet • Tyrer-Cuzick model 10 year breast cancer risk ≥ 5% criteria? Recommend one of the following: • Prior thoracic radiation therapy (XRT) at age 10-30 years old³ Post-menopausal • Aromatase inhibitors (AI)¹⁰ and **ER+ DCIS** No (exemestane or anastrozole)¹¹ • Life expectancy ≥ 10 years • Patient not a candidate • Tamoxifen^{6,12} <u>and</u> for risk reduction • No contraindications⁴ to risk reduction therapy treatment Recommend one of the following: • Lifetime risk > 20%Patients without breast prophylactic mastectomy (BPM) • Lifestyle risk by Gail or Tyrer-• Tamoxifen⁶ ² Primary benefit is seen in patients up to age 70 years old and may not be as great for those who are older assessment⁵ ³ Limited data regarding risk reduction therapies in women with prior thoracic XRT • Raloxifene^{6,7} Cuzick models ⁴ If prior history of a thromboembolic event, tamoxifen and raloxifene are contraindicated as an option due to increased risk. • Prior thoracic XRT at • Aromatase inhibitors (AI) Adequately treated endometrial hyperplasia or early-stage endometrial cancer is not a contraindication to the use of tamoxifen. age 10-30 years old³ (exemestane **or** anastrozole) ⁵ See Physical Activity, Nutrition, Obesity Screening and Management, and Tobacco Cessation Treatment algorithms. No alcohol is best. Women who choose to drink should have no more than one drink a day. Ongoing reassessment of lifestyle risks should be a part of routine Assess balance of benefits and clinical practice. ⁶ Standard dose of tamoxifen (20 mg daily) or raloxifene is recommended. If there are concerns about side effects, discuss low dose of harms¹³ and recommend one of the tamoxifen (10 mg every other day) as initial treatment option. Standard dose of tamoxifen is preferred based on more robust data. Lifetime risk < 20% following: ⁷ Lower risk of uterine cancer but less long-term benefit by Gail or Tyrer-• Tamoxifen⁶ ⁸ Limited data regarding AIs in women with proliferative breast lesions • Raloxifene^{6,7} Cuzick models ⁹ Off-label (Not FDA approved) but evidence-based if tamoxifen is contraindicated or not tolerated ¹⁰ Recommend anastrozole as first choice. If there are concerns about side effects or contraindications, patients can be offered standard • Aromatase inhibitors (AI) dose of tamoxifen (20 mg daily) or low dose of tamoxifen (10 mg every other day). (exemestane **or** anastrozole) ¹¹ If patient is intolerant of tamoxifen, anastrozole, and exemestane, the use of letrozole may be considered

Note: Recommended duration of treatment for a total of 5 years

- In cases where patient prefers decreased duration or cannot tolerate for the recommended duration of 5 years, it can be discussed with the patient that there is data for taking it for 3 years based on the low dose tamoxifen study
- Provider may consider continuing raloxifene beyond the 5 years

Department of Clinical Effectiveness V6 Approved by the Executive Committee of the Medical Staff on 08/19/2025

of uterine cancers

¹² In patients with an intact uterus, it may be preferred to use low dose of tamoxifen (10 mg every other day) due to decrease incidence

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¹³ Tables that can be used to determine women for whom the benefits outweigh the risks can be found at Freedman, A. N., Yu, B.,

chemoprevention with raloxifene or tamoxifen for women age 50 years or older. Journal of Clinical Oncology, 29(17), 2327.



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DEVELOPMENT CREDITS

This risk reduction algorithm is based on majority expert opinion of the Breast Cancer Risk Reduction Therapy workgroup at the University of Texas MD Anderson Cancer Center. It was developed using a multidisciplinary approach that included input from the following:

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