Cancer Education Day December 13, 2019

Shared Care: Breast Cancer

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Disclosures

- Dr. Dema Kadri: None to declare
- Dr. John Mathews: Participated in Advisory Boards
 - Novartis
 - Bayer





Objectives

- Define role of Primary Care Physician and Oncologist in the Cancer Journey in Early Breast Cancer
- Familiarize the new tools in decision making for adjuvant chemotherapy
- Monitoring patients on Endocrine therapy
- Early discharge with follow-up care by Primary Care team

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Expectations in Shared Care Model

- Cornerstone of shared care: Good communication and information transfer
- Specialist → Written information about roles and what to expect
- Primary Care Physician → Easy access to specialist to discuss concerns

Breast Cancer Types

- Invasive: Cancer has left ducts or lobules and has invaded surrounding tissue
- Non-invasive: Cancer not spread beyond the ducts or lobules





Breast Cancer Signs and Symptoms

- Early Stages: None
- **Ductal carcinoma:** Most commonly a palpable mass.
- Lobular carcinoma: Often does not form a lump. Tissue in the breast is getting thicker or harder.
- A mass in the axilla
- Changes shape and size of breasts
- Changes to the nipple
- Nipple discharge



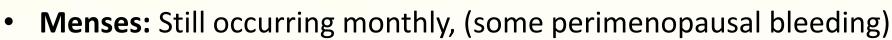


Case

- A 50 year old female presents to your office, for an Annual Health Exam
- She has no concerns, she does not report noticing any lumps in her breasts, she denies any skin changes or nipple discharge.

Case

- Past Med Hx: Hypothyroidism
- Medications: Synthroid
- Menarche: Age 11/12



- No pregnancies **G0P0**
- No breastfeeding
- Healthy and active
- Rare ETOH
 - Family Hx: 2 maternal great aunts breast CA, cousin breast CA, Father Type II DM
- You order a screening mammogram-her first ever.







Case: Timeline of Diagnosis

• 1 week later:

 Mammogram results: Area of architectural distortion/ spiculated mass-mag views and ultrasound recommended

• 13 days later:

- Mammogram with mag views-> lesion is still present
- Ultrasound: Right breast –several oval shaped lesions likely cysts, At 11:00 o'clock there is a lesion 1.4 x 1 x 1.1 cm with spiculated margins. Biopsy recommended.
- 10 days later: Ultrasound guided biopsy
- 14 days later: Pathology shows Invasive Ductal Carcinoma
 - ER + , PgR+, Her2 -
- Patient is contacted by Breast Assessment Program and offered an appointment in the same week.

Case: Breast Cancer Diagnosis

- You call her back into your office to discuss the results with her
- She has some questions for you:
 - What does this mean?
 - What caused this?
 - What are the next steps?
 - What are my options for treatment?





Risk Factors for Breast Cancer

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- Personal Hx of Breast Ca
- Family Hx of Breast Ca
- BRCA gene mutation
- Genetics (some genetic conditions)
- Ancestry (i.e. Ashkenazi Jewish)
- Nulliparity or late pregnancy
- Hormone Replacement Therapy
- Oral Contraceptive Pills
- Exposure to ionizing radiation
- Obesity
- Physical Inactivity
- Dense breast tissue
- Early Menarche



Breast Cancer Treatment Options

Treatment options presented to the patient depend on:

- The tumor subtype and hormone status, ER, PR and HER2
- The tumor stage
- The age of the patient
- General health of the patient
- Menopausal status
- The patient preferences and values
- The presence of known mutations (BRCA1 or BRCA2)





Breast Cancer Treatment Options

- For Ductal Carcinoma In Situ and early stage Invasive
 Carcinomas → Surgery usually recommended
- Surgery types: Lumpectomy, Mastectomy, Mastectomy with reconstruction

The following are types of neoadjuvant therapies that may be offered:

- Radiation
- Systemic Chemotherapy

Hormonal therapy

Do I Need Chemotherapy?

Previously looked at high risk features:

- Lymph node involvement
- Size of tumor
- Grade
- Lymphovascular invasion
- Online Calculators:
 - Predict (created by NHS): <u>https://breast.predict.nhs.uk/</u>
 - Based on database observations risk factors entered into online tool. Did not take into consideration Her-2neu and other tumor specific factors





Do I Need Chemotherapy?

- Triple Negative: High risk
- HER2/neu Positive: Benefit from chemo and Herceptin
- ER/PR Positive ; HER2/neu Negative:
 - Role of molecular profiling (Oncotype DX / EndoPredict)
 - Check tumor biology
 - Tumor sample sent out for testing. No additional biopsies.
 - Covered by OHIP out-of-country
 - 2 to 3 week delay
 - Recurrence score provided





How to Interpret Recurrence Scores

- Prognostic and predictive score: Based on NSABP B-14 study
- Values 0 to 100
- Higher the score, higher the risk
- TAILORx Study in mid range scores (11-25 score): Endocrine therapy not inferior to Chemo + Endocrine therapy in some people:
 - 85% of women > 50 years can be spared adjuvant chemo
 - Some benefit in women < 50 years</p>
 - Adjuvant chemotherapy recommended if score > 25





Case: Treatment

- She has been seen by the Breast Assessment Program and opted for a bilateral mastectomy with reconstruction
- She has been started on chemotherapy

"What are the side effects?" "Is there anything we should be looking out for?" "Do I need to change my diet?"





Role of Diet

- No evidence that specific diet or certain foods reduce risk
- Well balanced, plenty of fruits and veg., limit meat and fat
- Limit alcohol intake
- *Underweight:* increased risk of complications of chemotherapy
- Overweight: less positive prognosis
- Large doses of vitamins and herbal supplements do not decrease risk of recurrence
- Soy products contain phytoestrogens. Unlikely to be harmful. Can have 3 servings/day.
- Antioxidants Vitamin C & E: Best to supplement with diet rather than medications.





Side Effects During Chemotherapy

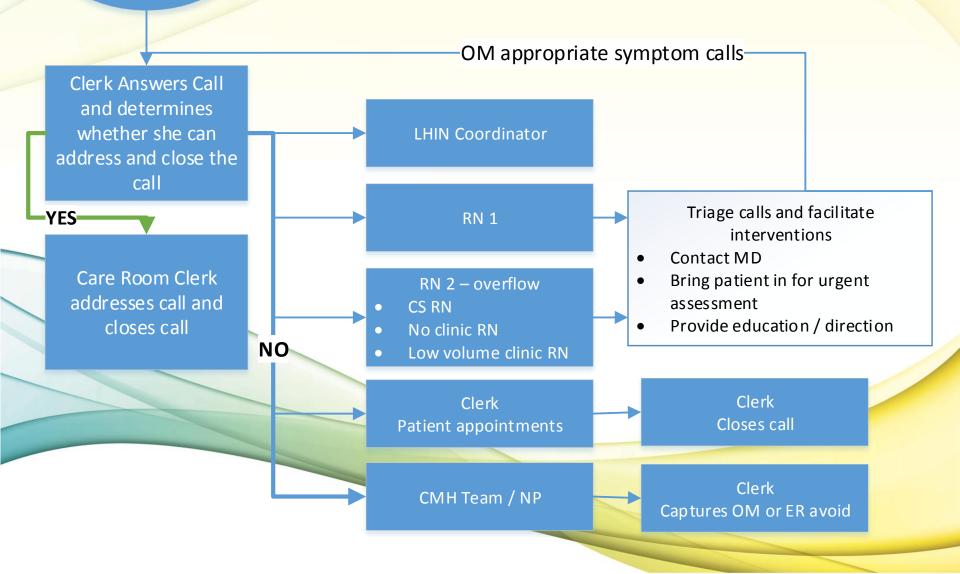
- Patients are told to call Cancer Program during working hours for severe or unexpected side effects (519-253-5253)
- Calls directed to Care Room during the day:
 - Clerk
 - Registered Nurse
 - CCAC Coordinator
 - Input from NP/Oncologist
 - Urgent clinic assessment, if indicated (ER avoidance)
 - After hours, patients given number for CAREpath





Patient Calls Cancer Program

Care Room Flow



Side Effect Management

By Oncology team:

- Nausea, vomiting, dehydration
- Mucositis
- Fever neutropenia

• By Primary Care:

- Diabetes/hyperglycemia
- Cardiotoxicity, agents to optimize cardiac function
- Bone health
- Lipids
- By both:
 - Sexual health
 - Psychosocial issues





Case: Follow-up Chronic Disease

- You are now seeing her for an Annual Health Exam
- Labs: HgA1c- 6.8
- She took steroids for a short period of time while on chemotherapy to help with nausea - no longer on this since 6 months
- You diagnose her with Type II Diabetes, but she is still under the care of Medical Oncology at the WRCC. She wonders: "Who will follow me for the new diagnosis of diabetes?"

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Are there any implications?



Case

- You advise her to change her diet and discuss lifestyle modifications, no need for antihyperglycemics at this time
- You refer her to weCHC Diabetes Wellness Site (Lauzon location)
 - Referral form can be found at <u>https://wechc.org/medical-nutrition/client-referral-form/</u>
- You assure her that you will continue to monitor her for Type II Diabetes





Case: Breast Cancer Treatments and Side Effects

- She has completed chemotherapy and has been started on Tamoxifen
- She wonders: "Is there anything I should be on the look out for while on this medication? What are the side effects?"





Monitoring During Tamoxifen Use

- Common side-effects: Menopausal symptoms, nausea, mood-swings, weight gain.
- *Risk of DVT:* 2.5 times as high as normal controls. 1.5-2% risk of event.
- Risk of Endometrial Cancer: 2-3 times risk of agematched controls. 1.5% risk @ 5 years. Mainly in postmenopausal. Told to report risks of vaginal symptoms: spotting/bleeding.
 - PCP to refer to Gynaecology

Monitoring Patients on Aromatase Inhibitors

- Menopausal symptoms
- Bone/joint ache
- Risk of osteopenia: Patients asked to take Calcium and Vitamin D.
- Check BMD every 1-2 years and watch for osteopenia.
- Osteoporosis or worsening osteopenia treat with bisphosphonates.

Discharge/Transfer of Care

- Advise patients that care is being transferred
- Patient to call PCP to make follow-up appointment
- Discuss standard recommendations
- Watch for complications of therapy
- Discharge package given
- More to be discussed during presentation this afternoon





Is it Easy to Contact Specific Oncologists?

- Main number for Cancer Program (patients): 519-253-5253
- **Dedicated line for providers:** 519-255-6757 (please do not share widely)
- Active patients in Cancer Program patient at home: Speak to Oncologist
- Active patients admitted to hospital: Oncologist on call
- New referral: Can speak to Oncologist on call/fax referral
- Discharged patient/same diagnosis: Send re-referral



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References

- Cancer Care Ontario-Breast Cancer: <u>https://www.cancercareontario.ca/en/types-of-cancer/breast-cancer</u>
- Canadian Cancer Sociey-Breast Cancer: <u>http://www.cancer.ca/en/cancer-information/cancer-type/breast/treatment/?region=on</u>
- Erie St. Clair Regional Cancer Program: <u>https://www.wrh.on.ca/Site_Published/wrh_internet/Wrcc_RichText.aspx?Body.QueryId.Id=91253&LeftNav.QueryId.Ca_tegories=843</u>
- American Society of Clinical Oncologists: <u>https://www.cancer.net/cancer-types/breast-cancer/types-</u> <u>treatment</u>