A STEP AHEAD WITH KNOWLEDGE

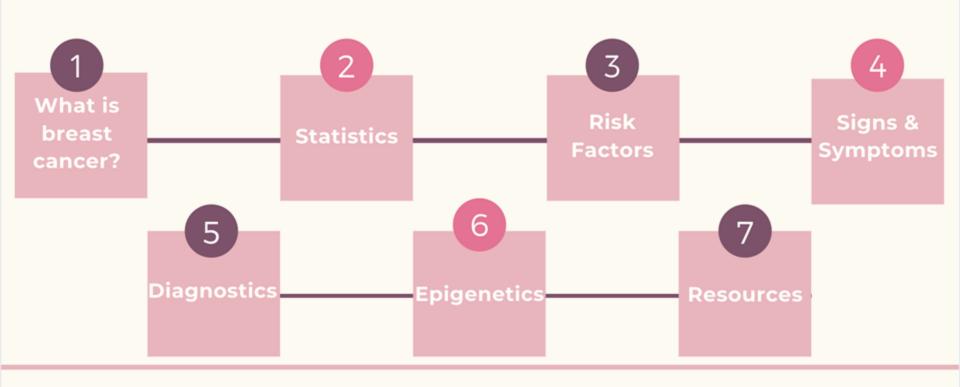
Breast Cancer

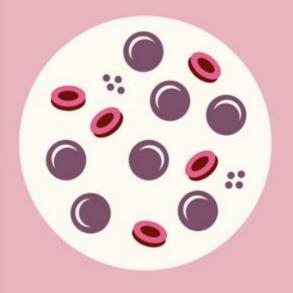
UCR Future Physicians Leaders Students



Presentation Summary

OUTLINE OF TOPICS





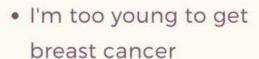
What is Breast Cancer?

Breast cancer is a type of cancer that begins in the breast. Cancer begins when cells begin to **grow out of**control. Although breast cancer is **most**common among women, it can also occur in men.

Why is this Important? COMMON MISCONCEPTIONS

Myths

 Men don't get breast cancer



 If I don't have family history I wont get it







Facts

• 1 in 1,249 men have a lifetime risk of breast cancer

 Many women under 40 are diagnosed with breast cancer

 Most people diagnosed with breast cancer don't have a family history

Breast Cancer in the Inland Empire



1 IN 8 WOMEN WILL
DEVELOP BREAST CANCER



DEATH RATES

INLAND EMPIRI

CALIFORNIA



99.3% SURVIVAL RATE

EARLY DETECTION
SAVES LIVES



BREAST CANCER

PROGRAMS IN THE IE



Risk Factors



ALCOHOL

Consuming alcohol, especially in excess of two drinks a day



OBESITY

Obesity is commonly tied to a poor diet and a lifestyle that lacks excersice



ESTROGEN

Menstruating before age 11. Menopause after age 55. Birth of first child after 30



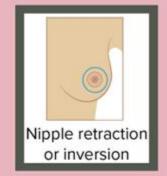
GENETICS

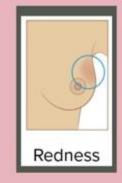
Family history and the genetics passed down can play a role in breast cancer

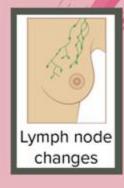
Signs and Symptoms







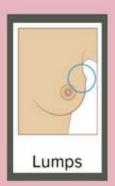












How is it Diagnosed?

MAMMOGRAM

- X-Ray; Best way to find breast cancer early.
- Regularly can lower risk of dying from breast cancer.

MRI

- Magnet and radio waves to take pictures
- Used w/ mammogram for high-risk patients.

ULTRASOUND

- A machine that uses sound waves.
- Makes detailed pictures (sonograms) of areas inside the breast.

BIOPSY

 Removes tissue or fluid from the breast looked at under a microscope to determine more testing.

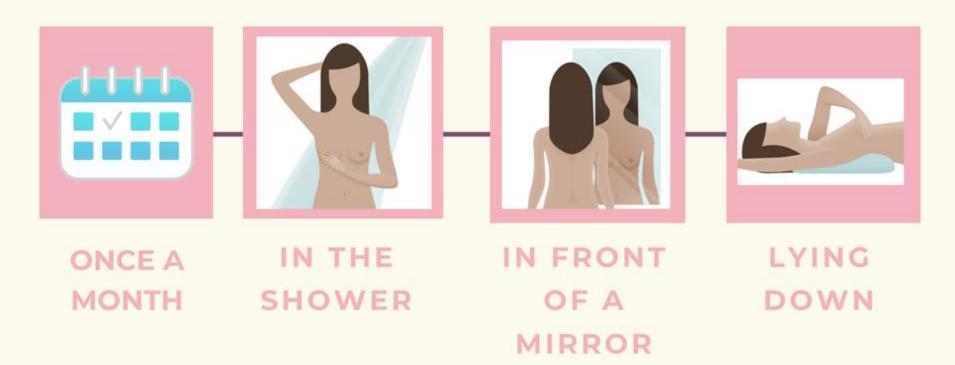








Self-Breast Exam



Epigenetics and Cancer

What is a gene?

• The instructions that make up you!

What are Epigenetics?

- The process of controlling genes
- Influenced by the environment
- Reversible



Reversing Bad Epigenetics

AVOID

- Blocks gene expression
- Interfere with estrogen pathways
- · Interfere's with "folate" levels
- Cause "oxidative stress"

HODIAT, M. RAHMANI, S. KHAN, F. ET AL ENVIRONMENTAL TOXICANTS. INCIDENCE OF DEGENERATIVE DISEASES, AND THERAPIES FROM THE EPICENETIC PICINT OF VIEW ARCH TOXICOL 91, 2577-2597 (2017). HTTPS://DOI-ORG.LIBPROXY.CALBAPTIST

EXERCISE

- Exercise can improve your body's machinery
 - Your body produces "metabolites"

MCGEE, S. L., & HARGREAVES, M. (2019). EPIGENETICS AND EXERCISE TRENDS IN ENDOCRINOLOGY & METABOLISM, 30(9), 636-645. HTTPS://DOI-ORG.LIBPROXY.CALBAPTIST.EDU/10.1016/J.TEM.2019.06.002

NUTRITION

Macronutrients





- Micronutrients
 - Sulfur-based foods
 - Antioxidants
 - Foods with "folate"



VARELA-REY, M., WOODHOO, A., MARTINEZ-CHANTAR, M. L., MATO,
J. M. & LU. S. C. (2013). ALCOHOL, DNA METHYLATION, AND
CANCER, ALCOHOL RESEARCH: CURRENT REVIEWS, 35(1), 25–35.

Nutrition Care

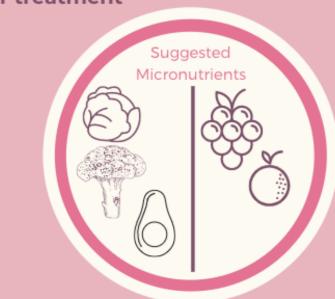
Healthy eating habits are essential during and after treatment

ANTIOXIDANTS

Antioxidants such as vitamin C, E, and carotenoids help protect cells from damage



"My Plate"- Suggested Servings



- Other helpful foods
- Soy foods
- Fresh foods

Department of Health & Human Services. (2012, September 30). Antioxidants. Retrieved July 02, 2020, from https://www.betterhealth.vic.gov.au/health/living/antioxidants

Possible Health Outcomes for Epigenetics

Positives

- Improved Quality of life
- Improved health
- Improved Health for your childern

Negative

- Shorten life cycle
- Increased risk of cancer
- Increased medical expenses





Resources

*ALL SITES IN RIVERSIDE & SAN BERNARDINO

AMERICAN
CANCER SOCITEY
Offers FREE rides to
and from treatment

THE NATIONAL BREAST AND CERVICAL CANCER EARLY DETECTION PROGRAM

Breast Screening for uninsured women

GOODRX

Online low-cost prescription source

Resources

*ALL SITES IN RIVERSIDE & SAN BERNARDINO

ABCD BREAST
CANCER SUPPORT

families, and friends.

BREAST & CERVICAL
CANCER TREATMENT
PROGRAM

Breast cancer treatment - income based CANCER SUPPORT
COMMUNITY

Information, support, online chat



Questions?