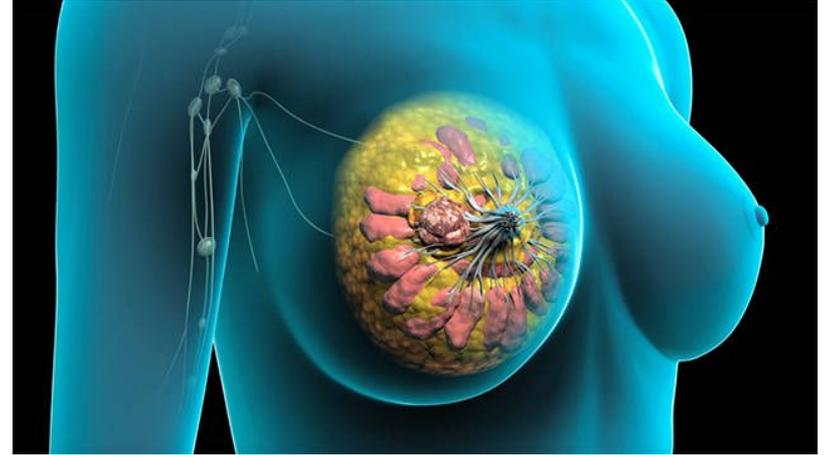


Breast Cancer (Ductal Carcinoma In Situ)

By: Jenna J. & Alina F.



STAMFORD HEALTH

HEALING. REIMAGINED.

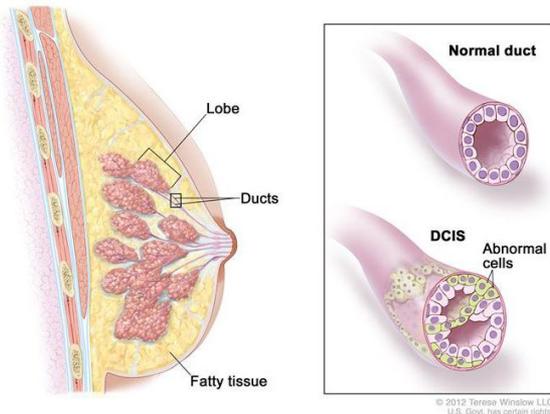
Cellular Hierarchy



- Starts to develop in the glandular tissue

- The cells that line up the milk ducts of the breast tissue have become cancerous however the cancer can't spread outside the breast tissue. If DCIS isn't treated it can develop invasive breast cancer which can spread throughout the body.

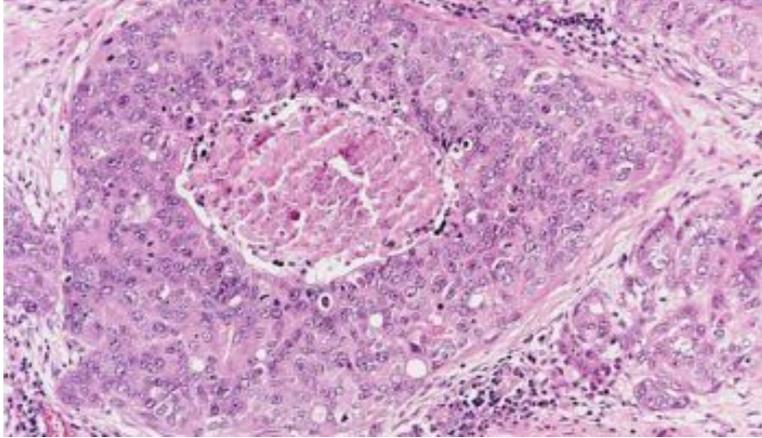
Ductal Carcinoma In Situ (DCIS)





Cellular Hierarchy

Cancerous Breast Tissue Cells:

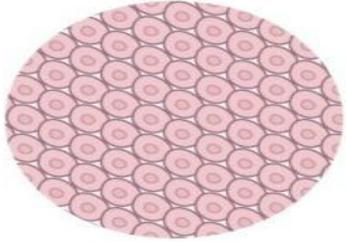


Healthy Breast Tissue Cells:

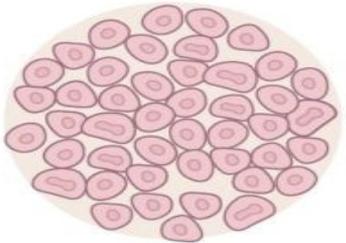


- Ductal Carcinoma In Situ is a non-invasive cancer, meaning that the cancerous cells do not spread out of the wall ducts to other tissues surrounding the breasts.

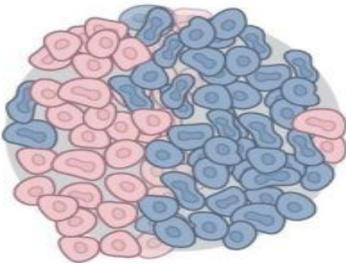
Mitosis and Cell Division Process



Grade 1



Grade 2



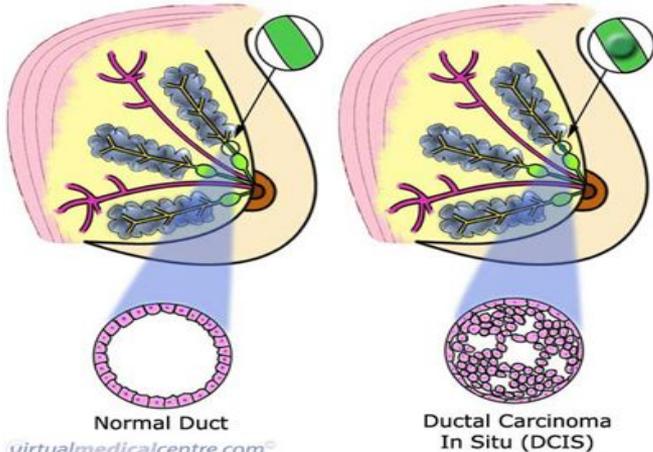
Grade 3

- ❑ Cancer cells cause mitosis to disregard the regulating 'checkpoints'. (Considered 'disease of mitosis')
- ❑ Mitotic Index: 2 to 6 replicate sets of 10 high power fields (HPF's) from 328 cases of breast carcinomas.
- ❑ Cancerous tissue has a higher mitotic index, the mitotic cell are cells that are currently undergoing division.
- ❑ Cancer can formed a result of genetic mutations.
- ❑ Mutations genes: accelerate cell division rate
Ex: cell cycle arrest or cell death
- ❑ Cancerous cells grow: develops into a tumor.



Treatments for Breast Cancer (Ductal Carcinoma In Situ)

- Common treatments vary from radiation to surgery (lumpectomy). Chemotherapy can be an option as well.
- Survival rate for stages:



virtualmedicalcentre.com

Stage 1: 100%
Stage 2: 98%
Stage 3: 93%
Stage 4: 72%
Stage 5: 28%



Continue to next slide:

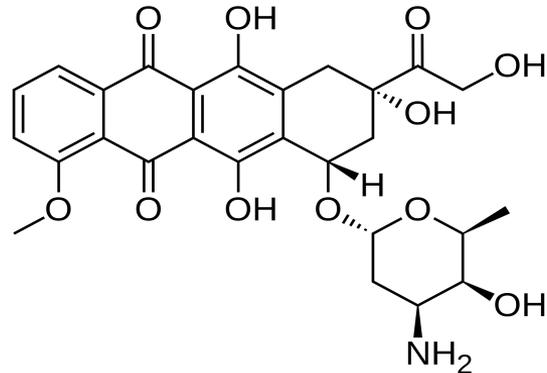
● Chemotherapy: Doxorubicin (Adriamycin)

Side effects: severe nausea and vomiting
diarrhea, loss of appetite, missed menstrual
periods, darkening of your skin or nails

Success Rate:
20% to 35%

High doses:

Damage to liver or lungs



- Kill cells that are in the process of splitting into 2 new cells.
- Some drugs kill dividing cells by damaging the part of the cell's control center causing the excessive dividing.



● Radiation/Lumpectomy

Short term effects:

Pain and color of skin changes, change in breast, fatigue and loss of hair

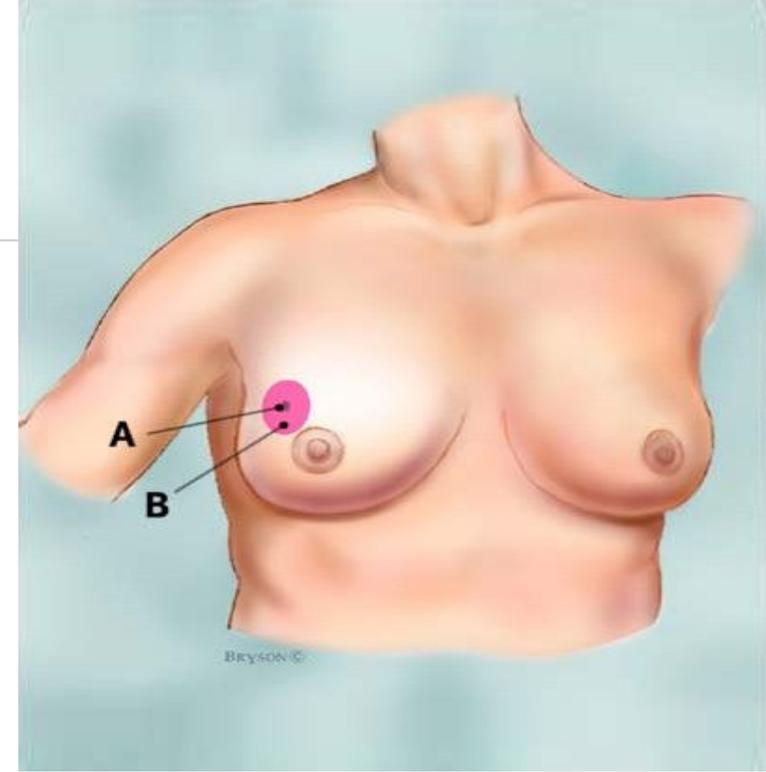
Long term effects:

Heart and Lung issues

Success rate:

90%

Lumpectomy is removing the tumor and preserving the woman's breast. It removes cancerous tissue + some normal. It damages the DNA to stop it from dividing. It doesn't kill cancer cells right away. When they die, they're broken down and removed from body.



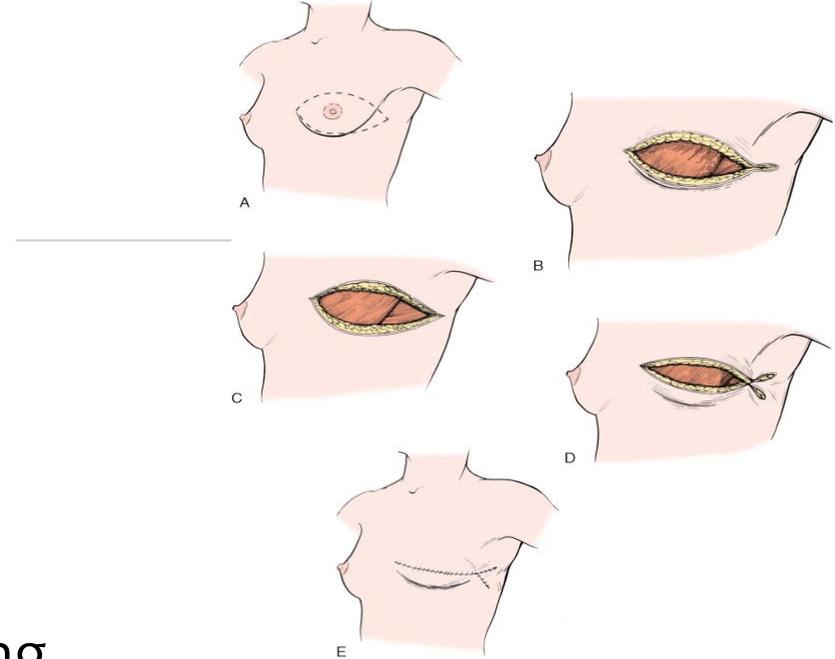


Mastectomy

- Removal of one or two breast.
- Partial mastectomy: removal of cancerous breast tissue + normal tissue.

Side effects: Pain or tenderness, swelling, buildup of blood or clear fluid in the wound (hematoma/seroma)

Psychological effect: Women struggle with self confidence after losing a “femane” part of themselves.



Success rate: 83.2%
Only 5% of women get cancer again. It's removing cancerous breast tissue.

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