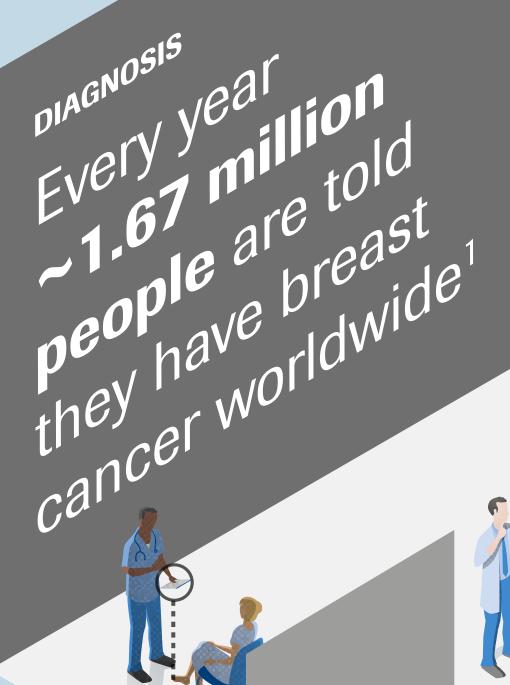


From diagnosis to treatment: Understanding breast cancer



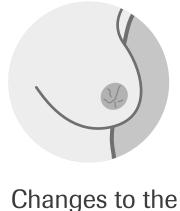
SIGNS INCLUDE²



swelling in the breast or armpit



shape or skin texture of the breast



nipple, e.g. retraction, rash or discharge

Breast Cancer (eBC)

Early

(aBC)

Breast Cancer

Advanced

TYPES OF BREAST CANCER Breast cancer can be categorised into three

types based on the presence of abnormal amounts of specific receptors (proteins) on the surface of cancer cells.5 **Hormone receptor** (HR)-positive

Too many oestrogen receptors (ER) and/or progesterone receptors (PR) **Human epidermal growth**

Too many HER2 receptors

breast cancer (TNBC)

factor receptor 2

(HER2)-positive

Triple negative

No abnormal amounts of ER,

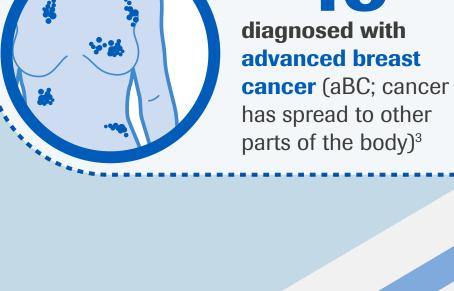
~60%

diagnosed with

PR or HER2 receptors

~40% diagnosed with

aBC



DIAGNOSIS

and prognosis:

Stage

Type

It is important to identify the type

determine treatment decisions

and stage of breast cancer. This will

Prognosis becomes worse as breast

important to diagnose and treat early!3

Various tumor types have different

e.g. HER2-positive breast cancer is

associated with poorer chances of

than other types of breast cancer.4

survival and faster disease worsening

aggressive. If left untreated, it is

biological behaviours and prognoses;

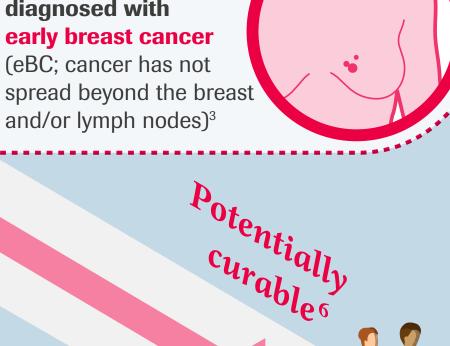
cancer advances (spreads). It is

has spread to other parts of the body)³

early breast cancer (eBC; cancer has not

eBC

and/or lymph nodes)3



eBC TREATMENT

Goal: to cure

EXIT

Shrinks tumours • Makes it is easier or possible to operate May allow for breast conserving surgery

eBC TREATMENT

Goal: to cure



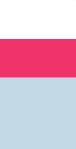
Surgery⁸ Main eBC treatment Possible procedures:

Treatment before surgery (neoadjuvant)⁷

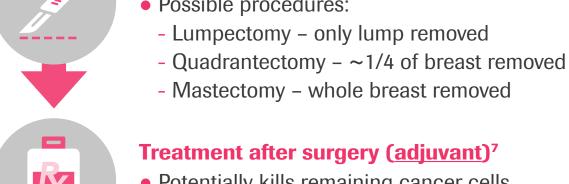
Treatment after surgery (adjuvant)⁷ Potentially kills remaining cancer cells • Reduces chances of cancer returning



HORMONAL RADIOTHERAPY THERAPY



CHEMOTHERAPY









After treatment, most

patients will receive regular

mammograms (breast

x-rays) to check for any

signs of the cancer

returning

abc TREATMENT patients live

Goal: to hilo processions

Goal: to hilo processions Jonger, Flife Preserving quality ...

ABDOMINAL PAIN

AND LOSS OF



• Fight disease Manage symptoms • Balance side-effects

Even after treatment

diagnosed with eBC go

on to develop aBC9

of patients first

SEVERE, **PROGRESSIVE**

BONE PAINS APPETITE

SYMPTOMS¹⁰

aBC symptoms may vary depending on where the cancer has spread to. Some symptoms commonly associated with aBC may include:



as possible

CHEST PAIN, **COUGH AND BREATHLESSNESS**

TREATMENT DECISIONS ARE BASED ON:

DISEASE AND PATIENT CHARACTERISTICS PRIOR TREATMENT HISTORY

PATIENT AND PHYSICIAN'S PREFERENCE

- First treatment in aBC is known as 'first-line treatment'
- When initial treatment stops working and the cancer gets worse, patients are given a new
- treatment regimen ('second-line treatment') • Patients may receive further lines of treatment as their cancer worsens

3. SEER: http://seer.cancer.gov/statfacts/html/breast.html [Accessed October 2015]

4. Dawood S, et al. J Clin Oncol 2010;28,1:92-98

2. Breast Cancer Now: http://breastcancernow.org/about-breast-cancer/what-are-the-signs-and-symptoms-of-breast-cancer [Accessed October 2015]

^{1.} World Health Organization: http://publications.cancerresearchuk.org/downloads/product/CS_REPORT_WORLD.pdf [Accessed October 2015]

^{5.} WebMD: http://www.webmd.com/breast-cancer/breast-cancer-types-er-positive-her2-positive [Accessed October 2015] **6.** Wolff AC and Davidson NE. Curr Treat Options Oncol 2000; Aug;1(3):210-20 Jon Hopkins: http://www.hopkinsmedicine.org/breast_center/treatments_services/medical_oncology/neoadjuvant_adjuvant_chemotherapy.html [Accessed October 2015] CRUK: http://www.cancerresearchuk.org/about-cancer/type/breast-cancer/treatment/surgery/types-of-breast-cancer-surgery [Accessed October 2015] O'Shaughnessy. Oncologist 2005; 10 (suppl 3): 20-29