

types of breast cancer

HER2 positive ↴

what is HER2 positive cancer?

overexpression of human epidermal growth factor receptor 2 (HER2) on the surface of cancer cells

in normal cells, HER2 receptors **control growth and repair.**

when the HER2 gene is amplified, the cell makes **too many HER2 receptors**, leading to **excessive growth signals.**

this causes the cell to grow and **divide uncontrollably, forming a tumour.**

✨ ✨ use the **top** mnemonic for treatments

t

trastuzumab

attaches to HER2 receptor on cancer cells and **stops them from growing**

o

trastuzumab
omtasine
(T-DM1)

combines trastuzumab with a chemo drug called **mertansine** to deliver the chemo directly to the cancer cells, **making treatment more effective with fewer side effects.**

p

pertuzumab

binds to HER2 and prevents it from pairing with another receptor called **HER3** - stopping cancer growth

TYPES OF BREAST CANCER
ONCOLOGY

'mAb' means 'trastuzum**ab**' and 'pertuzum**ab**' are monoclonal antibodies!

