

types of breast cancer

oestrogen positive (ER +)

the subtype **ERalpha** is primarily involved in breast cancer



types of anti-hormonal therapy:

'Old Tigers **A**void **F**lames'

 **oestrogen**

 **tamoxifen**

selective estrogen receptor modulator (SERM)

 **anastrozole / letrozole**

aromatase inhibitors

 **fulvestrant**


oestrogen receptor downregulator/antagonist

what is oestrogen positive cancer?

when cells with oestrogen receptors grow uncontrollably due to oestrogen binding to these receptors, stimulating their excessive growth.

how does pre/post-menopausal status influence treatment profile for oestrogen-dependent breast cancer?

pre-menopause: higher ovarian oestrogen production fuels breast cancer growth.

 tamoxifen is the main treatment, despite causing hot flashes, irregular periods, and a small risk of blood clots and uterine cancer.

post-menopause: ovaries produce less oestrogen, but it's still made in fat tissue.

anastrozole, an aromatase inhibitor, is commonly used, causing side effects like joint pain and bone thinning (osteoporosis risk).

fulvestrant is reserved for advanced cases.

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ONCOLOGY

