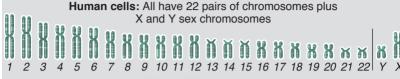
Inherited risk of breast cancer

Hereditary breast ovarian cancer (HBOC) syndrome is caused by a mutation of either of two genes - BRCA1 and BRCA2. An inherited mutation increases the risk of developing breast and/or ovarian cancer



contains 924 genes including BRCA2. Both BRCA1 and BRCA2 are tumour suppressor genes - they produce proteins which prevent uncontrolled cell growth

Chromosome 13



Chromosome 17 contains 1.672 genes including BRCA1. Everyone has two BRCA1 and two BRCA2 genes. Both copies of each gene must be mutated to knock out its function

BRCA1 mutation - lifetime HBOC risks for women



Breast cancer Average 45% Ovarian cancer Average 11%

Males

Source: Stanford Cancer Centre

*not reappearance of first tumour

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