



# Hereditary Ovarian cancer- Summary

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# Key points

- 1 in 5 women with ovarian cancer have Hereditary Ovarian Cancer caused by inherited mutations in various genes



# Key points



- In addition to BRCA1 or BRCA2 mutations, there are other hereditary ovarian cancer conditions such as Lynch Syndrome and inherited mutations in the genes: BRIP1, RAD51C and RAD51D
- We have not yet identified the hereditary cause of ovarian cancer in over 20% of all families with a suspected inherited risk.

# Hereditary Syndromes with **Epithelial** Ovarian Cancer

SYNDROME	GENE(S)	OVARIAN CANCER RISK	OVARIAN CA SUB-TYPE	OTHER CANCERS
HBOC	BRCA1, BRCA2	20-50%	Mostly Serous	Breast, prostate, pancreatic
LYNCH	MLH1, MSH2, MSH6, PMS2, EPCAM	10-20%	Often endometrioid	Colon, uterine, other GI, urinary tract
	BRIP1	6%	epithelial	
	RAD51C	↑	epithelial	
	RAD51D	↑	epithelial	

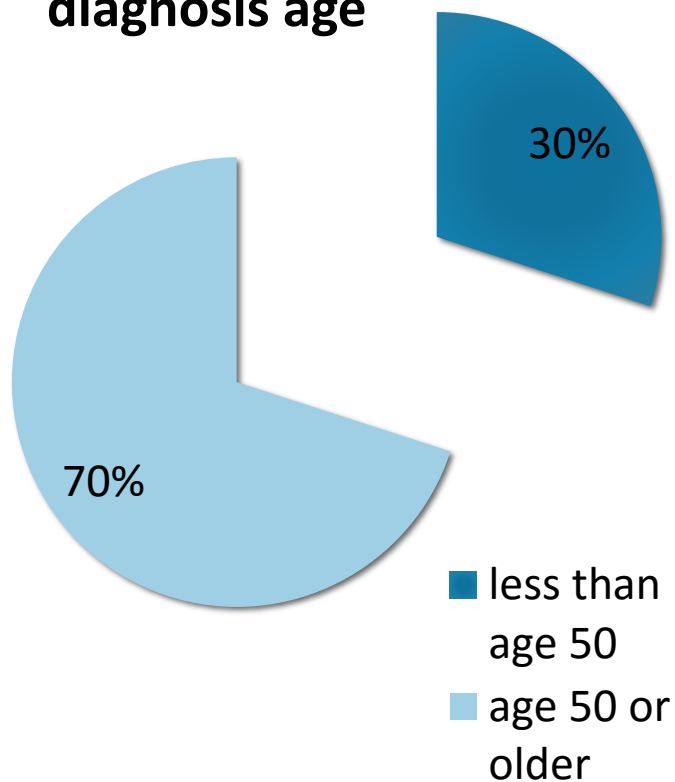
# Key points



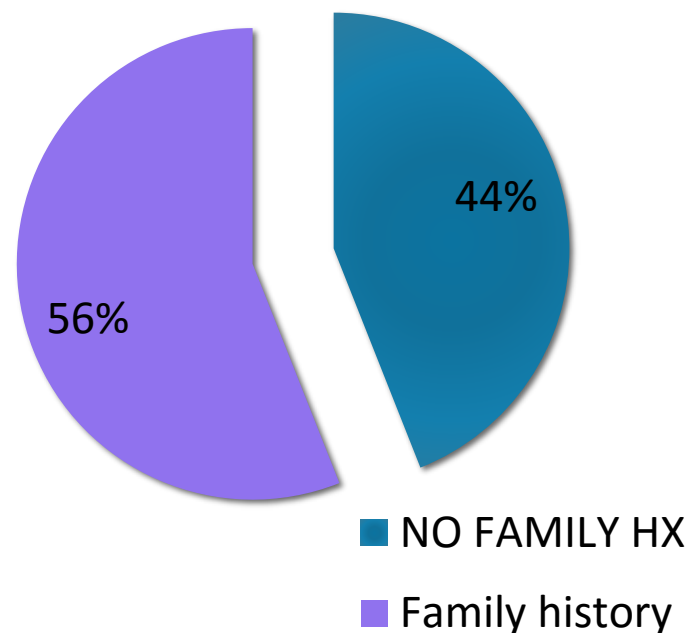
- Almost half of women with ovarian cancer found to have a BRCA mutation do not have a family history of related cancers
- 70% of women with ovarian cancer that have tested positive for a mutation in BRCA gene mutation were **at or OVER AGE 50 at diagnosis**

# Hereditary ovarian cancer

**Diagnosed with Ovarian Cancer and BRCA positive diagnosis age**



**Diagnosed with Ovarian Cancer, BRCA positive and Family history status**



# Key points



- Society guidelines recommend that all women with ovarian cancer /their close relatives should undergo genetic counseling and consider genetic testing.
- Genetic testing for hereditary ovarian cancer may influence ovarian cancer treatment and help family members reduce their chances of getting ovarian cancer by undergoing risk reducing measures. This leads to a decreased number of women diagnosed with ovarian cancer
- Genetic testing cost is decreasing, and time to receive results is faster.