

Guidelines Breast Version 2024 1F

## Diagnosis and Treatment of Patients with early and advanced Breast Cancer

**Breast Cancer Risk, Genetics** and **Prevention** 





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### **Breast Cancer Risk and Prevention**

Versions 2003–2023:

Albert / Bischoff / Blohmer / Dall / Ditsch / Fasching / Fehm / Gerber / Kiechle / Maass / Müller-Schimpfle / Mundhenke / Park-Simon / Rhiem / Rody / Schmidt / Schmutzler / Schütz / Stickeler / Thomssen / Witzel

Version 2024:Gluz / Untch

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### gBRCA-Testing – Therapeutic Consequences

Oxford LoE: 1b GR: A AGO: ++

gBRCA-Testing should be performed irrespective of family history, if it has therapeutic consequences

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Germinie	Widtation-Associated
<b>Breast</b>	Cancer

LoE

2a

3a

2b

**1**b

1b

1b

2b

2b

GR

В

В

В

В

Α

Α

В

В

+/-

**AGO** 

Therapy of Germline Mutation-Associated **Oxford** 

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## Breast conserving surgery according common standard (adequate local tumor control in long time follow up, ~10 years observation) Systemic therapy according to common standard

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## cancer

#### PARP inhibitor (Her2-negative carcinoma): eBC high risk:

- MBC:

- Olaparib, Talazoparib in *qBRCA 1/2* mutation
- Olaparib (in case of gBRCA1/2 mutation)\*

gBRCA mutation status is predictive for neoadjuvant chemotherapy in early TNBC gBRCA mutation status is predictive for Carboplatin (vs. Docetaxel) in metastatic breast

Olaparib in sBRCA 1/2 mutation (somatic mutation)

EBC: Early Breast Cancer; MBC: Metastatic Breast Cancer; \* Use according to study inclusion criteria and approval

Olaparib in PALB2 germ line mutation



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## Indication for Genetic Testing of *BRCA1/2* Genes and Possibly Further Risk Genes?

(Part 1 of 2 – testing according to family history)

#### Oxford LoE: 2b GR: B AGO: ++

#### Families with (each from one family branch) at least\*

- three women with breast cancer independent of age
- two women with breast cancer, one diagnosed before the 51<sup>st</sup> birthday
- one woman affected by breast and one by ovarian cancer or
- one woman affected by breast and ovarian cancer or
- two women affected by ovarian cancer or
- one woman affected by bilateral breast cancer, first before 51<sup>st</sup> birthday
- one woman affected by breast cancer before the 36<sup>th</sup> birthday or
- one man affected by breast cancer

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Inclusion criteria of the German Consortium of Hereditary Breast and Ovarian Cancer (GCHBOC) based on a *BRCA1/2* mutation prevalence ≥ 10% tested in 21,401 families. All mutation carriers should be registered in scientific databases, to validate the inclusion and exclusion criteria (including population-based studies).



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## Indication for Genetic Testing of *BRCA1/2* Genes and Possibly Further Risk Genes?

(Part 2 of 2 - testing according to disease)

Oxford LoE: 2b GR: B AGO: ++

- Other recommended criteria:
  - own disease of triple negative breast cancer diagnosed before 60<sup>th</sup> birthday
  - own disease of ovarian cancer before 80<sup>th</sup> birthday
  - if therapeutically relevant (e.g. PARPi; gBRCA1 and gBRCA2 only; possibly gPALB2)

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## Extended Indication for Genetic Testing of the Genes BRCA1, BRCA2, TP53, PALB2, CDH1, PTEN, STK11 and Further Risk Genes

#### Genetic Testing can be performed in patients with

- Age at first diagnosis < 65 years, irrespective of family history</li>
- Triple-negative histology and age at first diagnosis > 60 years, especially in families with further breast cancer cases (irrespective of age at diagnosis)
- Invasive lobular histology and diffuse gastric cancer in the family history
- In families with pancreatic cancer history and high risk prostate cancer history
- Ashkenazi jews

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E. Summe aus A und D = Risiko-Score

## Checklist for Recording a Possible Hereditary Burden of Breast and / or Ovarian Cancer

Name Patientin/Patient:		Geburtsdatum:			
A. Patient/in und derei	n Geschwister / Kinder				
Auftreten bei Patientin/Patient			Anzahl	Gewichtung	Ergebnis
eines Mammakarzinoms bei der Patien	itin <b>vor</b> dem 36. Geburtstag			3	
eines triple-negativen Mammakarzinon	ns bei der Patientin vor dem 60. Geburtstag*			3	
eines unilateralen Mammakarzinoms b	ei der Patientin vor dem 50/51." Geburtstag			2	
eines bilateralen Mammakarzinoms bei	i der Patientin, das erste <b>vor</b> dem 50 <i>1</i> 51." Gebi	urtstag		3	
eines uni- oder bilateralen Mammakarz	inoms bei der Patientin <b>nach</b> dem 51. Geburt:	stag		1	
eines uni- oder bilateralen Mammakarz	inoms bei dem Patienten (männlich)			2	
eines Ovarialkarzinoms bei der Patienti	in vor dem 80. Geburtstag*			3	
eines Ovarial-/Tuben-/primären Periton	ealkarzinoms bei der Patientin			2	
Auftreten bei Kindern, Geschwis	tern und deren Kindern				
eines Mammakarzinoms bei Schwester	rn/Trichtern/Nichten VOF dem 36. Geburtstag			3	
eines unilateralen Mammakarzinoms b	ei Schwestern/Töchtern/Nichten vor dem 50.6	51." Geburtstag		2	
eines bilateralen Mammakarzinoms bei	Schwestern/Töchtern/Nichten, das erste <b>vor</b> (	dem 50/51." Geburtstag		3	
eines uni- oder bilateralen Mammakarz	inoms bei Schwestern/Trichtern/Nichten <b>nach</b>	dem 51. Geburtstag		1	
eines uni- oder bilateralen Mammakarz	inoms bei Brüdern/Söhnen/Neffen			2	
seines Ovarial / Tuben / primären Perito	nealkarzinoms bei Schwestern/Töchtern/Nicht	en		2	
				Α	
B. Mütterliche Linie (ir	ncl. Mutter)				
Auftreten			Anzahl	Gewichtung	Ergebnis
eines Mammakarzinoms bei einer Ang	ehörigen <b>vor</b> dem 36. Geburtstag			3	
eines unilateralen Mammakarzinoms b	ei einer Angehörigen vor dem 50,/51.º Geburts	slag		2	
eines bilateralen Mammakarzinoms bei	i einer Angehörigen, das erste <b>vor</b> dem 50./51.	" Geburtstag		3	
eines uni- oder bilateralen Mammakarz	inoms bei einer Angehörigen <b>nach</b> dem 51. G	ieburtstag		1	
sines Mammakarzinoms bei einem ang	gehörigen Mann			2	
eines Ovarial-/Tuben-/primären Periton	ealkarzinoms bei einer Angehörigen			2	
Summe weitere mütterlich	ne Linie				
				В	
C. Väterliche Linie	(incl. Vater)				
Auftreten			Anzahl	Gewichtung	Ergebni
eines Mammakarzinoms bei einer Ang	ehörigen <b>vor</b> dem 36. Geburtstag			3	
eines unilateralen Mammakarzinoms b	ei einer Angehörigen vor dem 50,/51.* Geburt	tstag		2	
sines bilateralen Mammakarzinoms bei	i einer Angehörigen, das erste vor dem 50./51	L* Geburtstag		3	
ines uni- oder bilateralen Mammakarz	inoms bei einer Angehörigen <b>nach</b> dem 51. G	Geburtstag		1	
ines Mammakarzinoms bei einem ang	gehörigen Mann			2	
eines Ovarial-/Tuben-/primären Periton	ealkarzinoms bei einer Angehörigen	·		2	
Summe väterliche Linie					
Summe väterliche Linie				С	
Summe väterliche Linie  D. Der höhere Wert au	s B und C			С	

DKG..... KREBSGESELLSCHAFT Zertifizierung

Ausfüllhinweis

Zunächst wird die Anzahl bekannter Erkrankungsfälle bei den Geschwistern und Kindern, einschließlich der aktuellen Erkrankung der Patientin sowie in der mitterlichen und väterlichen Linie erfragt.

Diese Zahlen werden mit den jeweiligen Gewichtungen multipliziert. Dann wird die Summe aus diesen Ergebnissen errechnet und in die Felder A und B und C eingetragen.

Der höhere der beiden Werte aus den Feldern B und C wird in Feld D eingetragen.

Der Gesamtscore errechnet sich dann aus der Summe der Felder A und D.

Eine Risikoberatung in den ausgewiesenen Zentren ist bei Scores ≥ 3 Punkten zu empfehlen \*Diese Einschlusskriterien gelten nur in

Kooperation mit den Zentren des Deutschen Konsortiums Familiere Brustund Eierstockkrebs bzw. mit den zertfizierten FBREK-Zentren , die diese im Rahmen der Wissen generierenden Versorgung validieren. Die anderen Einschlusskirteiren entsprechen den Vorgabe des EBM. Version 11 Jaruar 2022 (C) Ärztekarmer Westelsen-Lippe,

Vorsion: Ti Janus 2022 (C) Ärztekammer Wesfäder-Lippe, Deutsche Krebsgesellschaft, Deutsche Gesellschaft für Senologie, Deutsches Konsortium für Erblichen Brust- und Einschelschaft für Senologie,

A+D

### Online checklist for familial breast and ovarian cancer:



Source: Deutsche Krebsgesellschaft e.V.



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### Risk Estimation for Syndrome-Associated Breast Cancer (non-BRCA)

	O ATOTA			
	LoE	GR	AGO	
History and family history over at least three generation	2b	В	++	

Oxford

Characteristic disease

(including age of first disease)

- Breast and ovarian cancer
- Further disease
  - Pancreatic, thyroid, colorectal, stomache, hepatobilear, urogenital, lung cancer, melanoma, osteosarcoma, leukemia, lymphoma
  - Kidney cancer
  - Testinal cancer
  - **Endometrial cancer**
  - Prostate cancer



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### Non BRCA-Associated Hereditary Cancer Syndromes with Increased Risk for Breast Cancer

Syndrome	Gene	Risk for malignancy
Li Fraumeni	TP53	Breast, endometrium, colorectal, small intestine, stomach, hepato biliary, skin, osteosarcoma, soft tissue sarcoma, urogenital, CNS, ACC, leukemia, lymphoma, lung
Cowden	PTEN	Breast, endometrium, thyroid, colorectal, kidney, melanoma
Hereditary diffuse gastric cancer syndrome	CDH1	Hereditary diffuse gastric cancer, lobular invasive breast cancer
Peutz-Jeghers Syndrome	STK11/LKB1	Colorectal, small intestine, stomach, pancreas, testicle, endometrium
Lynch	MLH1, MSH2, MSH6, PMS2, EPCAM	Endometrium, ovary, colorectal, small intestine, stomach, hepato biliary, pancreas, kidney, urogenital, CNS
Ataxia telangiectasia (AT-Syndrome)	ATM	Breast cancer, leukemia, stomach, melanoma, sarcoma
Franconi Anämie	BRCA2, BRIP1, RAD51C, PALB2	AML, MDS, SCC, medulloblastoma, nephroblastoma, breast, pancreas, ovary



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## Non-Directive Counseling Regarding Preventive Measures

**AGO ++** 

#### **According to:**

- The Genetic Diagnostic Law
- The Medical Devices Act (e.g. risk assessment)
- Application of software for risk calculation requires professional training and experience

#### Communicate:

- Absolute cancer risks within a manageable timeframe
- Risk and benefit of a multimodal intensive surveillance program
- Risk and benefit of preventive clinical methods
- Competing risks, e.g. risk of disease progression in relation to risk of a secondary primary in case women already affected by primary breast cancer

Allow appropriate time for consideration



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### **Current Clinical Impact of Further Risk Genes**

- Further moderate and low-risk gene variants are most likely transmitted by an oligo- or polygenic trait.
- The penetrance of such genes depends on the own and family cancer history.
- Individual low-risk variants increase the risk of disease only insignificantly. They have a
  multiplicative effect, so that the analysis of multiple gene regions (polygenic risk score, PRS)
  will be of clinical relevance.

Ovford

		Oxford			
		LoE	GR	AGO	
•	Clinical genetic testing of moderate-risk genes, e.g. gene panels	1b	В	+	•
•	Clinical genetic testing for low-risk variants (polygenic risk score, PRS)	2b	В	+*	
٠	Referral to specialised centers	5	D	+	

\* Currently, moderately penetrant genes and low-risk variants should only be examined in the context of prospective cohort studies, such as that of the German consortium, in order to assess the clinical benefit.

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### Pathogenic Variants with Moderate to High Lifetime Risk for Breast Cancer

GR

Α

B

1h

3a

**3b** 

3a

**AGO** 

+/- °

	Oxford
	LoE
Age-related risks for breast cancer	

- high: BRCA1, BRCA2, PALB2
- high: CDH1, PTEN, TP53; STK11
- moderate: ATM, CHEK2
- moderate: BARD1, RAD51C, RAD51D

Clinical benefit\* of a genetic test

- BRCA1, BRCA2

- PALB2
- CDH1, PTEN, TP53, STK11
- - ATM, BARD1, CHEK2, RAD51C, RAD51D
- Take into account the effectiveness of preventive measures and competing risks when making clinical decisions. Participation in prospective registries or studies is highly recommended.

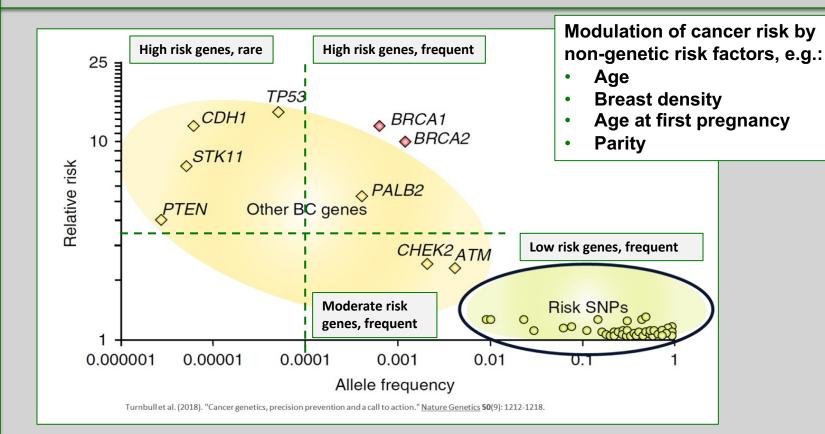


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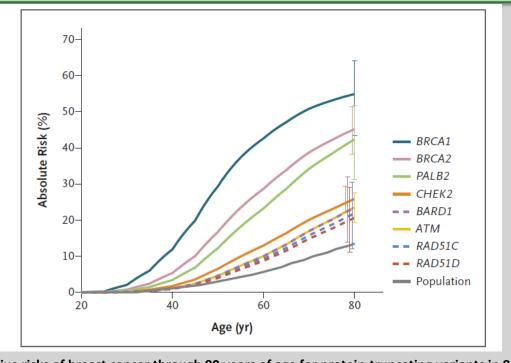
## State of research: Relevance of Genetic and non-Genetic Risk Factors





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Guidelines Breast Version 2024.1E Estimated Cumulative Risk of Breast Cancer with Protein-Truncating Variants in 8 Genes



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Dorling L, Carvalho S, Allen J et al. Breast-Cancer Risk Genes — Association Analysis in More than 113,000 Women. January 20, 2021 DOI: 10.1056/NEJMoa1913948



### **Breast Cancer Risk Category Definition of Moderate / High Risk for Breast Cancer**

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	Near population risk of breast cancer	Moderate risk of breast cancer	High risk of breast cancer
Lifetime risk from age 20	Less than 17%	Greater than 17% but less than 30%	30% or greater
Risk between ages 40 and 50	Less than 3%	3 to 8%	Greater than 8%

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NICE (National Institute for Health and Care Excellence) guidance: Familial breast cancer: classification, care and managing breast cancer and related risks in people with a family history of breast cancer Clinical guideline [CG164] Published: 25 June 2013 Last updated: 20 November 2019



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## IARC - Classification of Sequence Variants (Plon et al., Human Mutation, 2008)

	Proposed Classification System for Sequence  Variants Identified by Genetic Testing				
Class	Description	Probability of being pathogenic			
5	Definitely pathogenic	> 0,99			
4	Likely pathogenic	0,95-0,99			
3	Uncertain	0,05-0,949			
2	Likely not pathogenic or of little clinical significance	0,001-0,049			
1	Not pathogenic or no of clinical significance	< 0,001			

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Only class 4 and class 5 variants are considered clinically relevant. Class 3 are considered as Variants of Unknown Significance (VUS).



## Variant of Unknown Significance (VUS): Problems and Questions

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- "A Variant of Unknown Significance (VUS IARC class 3) is a genetic variant with unknown clinical relevance." (Plon et al. Hum Mutat 2008)
- Most VUS are <u>extremely rare</u> (≤ 3 variants in > 80 % of families)
- Classification of sequence variants should be performed according to the IARC classification system
- Frequency of VUS (IARC class 3) increases with numbers of tested genes
- Clinical interpretation and decision making depending on the IARC classification system is not standardized yet
- In silico prediction tools (PolyPhen2, SIFT) are not adequate or sufficient for clinical decision making
- Additional analyses are required, e.g. in vitro splicing assay, functional assay, segregation analysis, co-occurence analysis, large case / control studies

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## **Multimodal Intensive Surveillance Program\***

Oxford

			LoE	GR	AGO
•	Program for BRCA-mutation carriers w	ithout BC			
•	For the detection of early stage cancer	S	<b>2</b> b	В	++
	<ul><li>Clinical breast exam</li></ul>	≥ 25 years	Semi-an	nually	
	Sonography	≥ 25 years	Semi-an	nually	
	<ul><li>Mammogram</li></ul>	≥ 40 years	Every 1-2	2 years**	
	<ul><li>Breast MRI</li></ul>	≥ 25 years	Annually	1	
•	For improvement of metastasis-free in	terval	<b>2</b> b	В	+
	Radiotherapy of thoracic wall in the ch	ildhood (e.g. M. Hodgkin)	<b>2</b> a	В	++

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those with an increased calculated risk without a mutation within the framework of transparent quality assurance and

appropriate evaluation; \*\* According to the recommendation of the German Consortium 2022: Depending on the assessability of the breast, the glandular parenchyma density and the previous mammographic findings every 1-2 years from the 40th-45th Age, under 40 years only after strict individual indication.



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### **High-Risk Breast Cancer Surveillance with MRI**

	30-39 years		40-49 years		<u>&gt;</u> 50	years
	Detection rate (‰)	PPV (%)	Detection rate (‰)	PPV (%)	Detection rate (%)	PPV (%)
BRCA1	43.2	29.4	21.8	25.5	30.5	33.3
BRCA2	22.7	23.3	24.3	27.5	16.3	23.5
BRCA1/2-non carriers with high risk	2.9	2.8	7.4	6.8	10.9	13.8

PPV: Positive predictive value

Detection performance of annual multimodality screening rounds with MRI by risk group and age.

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Bick U, Engel C, Krug B, et al. High-risk breast cancer surveillance with MRI: 10-year experience from the German consortium for hereditary breast and ovarian cancer. *Breast Cancer Res Treat*. 2019;175(1):217–228. doi:10.1007/s10549-019-05152-9



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### Modified Surveillance Program for BRCA-neg. Women at Moderate to High Risk or Survivors of Hodgkin Disease

#### **Rationale:**

- Increased risk of breast cancer after chest irradiation because of Hodgkin lymphoma in childhood (9–18 years)
- Increased risk of breast or ovarian cancer in women from BRCA1/2 negative families at risk that is, however, lower than in women from BRCA1/2 positive families
- Referral to centres of the GC-HBOC or cooperating centres for the evaluation of structured surveillance and follow-up

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### **Multimodal Surveillance Program** for Female Carriers of Pathogenic BRCA Mutations after Unilateral Breast Cancer

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For detection of early stage breast cancers

**Oxford** 

Multimodal intensive surveillance program\*

Clinical breast exam

Sonography

Mammogram

individual indication.

**Breast MRI (until ACR1)** 

For mortality reduction (10-year survival)

GR

B

Semi-annually

Semi-annually

**Annually** 

Every 1-2 years\*\*

LoE

2a

**AGO** 

++

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Aftercare should be carried out within the framework of transparent quality assurance and corresponding evaluation. \*\* According to the recommendation of the German Consortium 2022: Depending on the assessability of the breast, the glandular parenchyma density and the previous mammographic findings every 1-2 years from the 40th-45th Age, under 40 years only after strict



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## Surveillance for Male Carriers of Pathogenic BRCA Mutations\*

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	LoE	GR	AGO
Currently, no specific surveillance is recommended → Early detection of cancer as part of standard care			
<ul> <li>BRCA1/2 mutation carrier: explanation of risks for cancer disease including male family members</li> </ul>	5	D	++
<ul><li>For breast cancer: self examination</li></ul>	5	D	+
For prostate cancer: Compare German Guideline program	5	D	+

The lifetime risk of breast cancer in the general male population is 0.1%. *BRCA1* mutation carriers have a risk of breast cancer of about 1% and an up to 1.8 to 3.75 times higher risk for prostatic cancer  $\leq$  65y. *BRCA 2* mutation carriers have an up to 5–7% lifetime risk for breast cancer and an up to 2.5 to 8.6 times higher risk for prostatic cancer  $\leq$  65y.

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Follow-up care / surveillance should be carried out as part of transparent quality assurance and appropriate evaluation.



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### **Surgical Prevention**

	Oxford		
	LoE	GR	AGO
<ul> <li>Risk-reducing unilateral or bilateral mastectomy (RRME) without the presence of clearly defined genetic risk factors</li> </ul>	<b>2</b> a	В	_*
<ul> <li>Axillary dissection or Sentinel lymph node excision during RRME</li> </ul>	<b>2</b> a	В	

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study participation recommended



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### **Surgical Prevention for Healthy** Female *BRCA1/2* Mutation Carriers

**Oxford** 

	LoE	GR	AGO
<ul> <li>Risk-reducing bilateral salpingo-oophorectomy (RR-BSO)**</li> </ul>	<b>2</b> a	В	
<ul> <li>Reduces OvCa incidence and mortality</li> </ul>			++*
<ul><li>Reduces overall mortality</li></ul>			++*
<ul><li>Risk-reducing bilateral mastectomy (RR-BM)</li></ul>			
<ul><li>Reduces BC incidence</li></ul>	<b>2</b> b	В	+*
Reduces BC mortality in BRCA1 mutation carriers***	<b>2</b> b	В	+*

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Study participation recommended

The RR-BSO is recommended from about 35 years for BRCA1 and from about 40 years for BRCA2 mutation carriers, taking into account the age of ovarian cancer diagnosis in the family and the family planning status.

No reduction in mortality could be shown for BRCA2 mutation carriers. RRBM counselling should be individualised.



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## Risk-reducing Interventions for BRCA1/2 Female Mutation Carriers <u>Affected</u> by Breast Cancer

Oxford

	O A I	CAIGIG		
	LoE	GR	AGO	
<ul> <li>Risk-reducing bilateral salpingo-oophorectomy (RR-BSO)</li> </ul>	2b	В	+*	
<ul> <li>Reduces OvCa incidence and mortality</li> </ul>				
<ul> <li>Reduces overall mortality (contradictory results for reduction of cl BC incidence)</li> </ul>				
<ul><li>Prophylactic contralateral mastectomy (RR-CM)*</li></ul>	2b	В	+*	
<ul> <li>Reduces BC incidence and mortality</li> </ul>				
<ul> <li>Tamoxifen (reduces contralateral BC incidence)</li> </ul>	<b>2</b> b	В	+/-*	
Indication for RR-CM should consider age at onset of first bre cancer in affected gene	east 2a	В	++*	
RR-BM after ovarian cancer	4	С	+/-**	

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Study participation recommended

<sup>\*\*</sup> Depends on tumor stage (FIGO I/II), recurrence free interval (≥ 5 yrs.), age



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# Improved Overall Survival After Contralateral Risk-reducing Mastectomy in *BRCA1/2* Mutation Carriers with a History of Unilateral Breast Cancer: A Prospective Analysis

Analysis <sup>a</sup>	Group	Person years of observation	Deaths	Mortality <sup>b</sup> (95% CI)	HR (95% CI)
(a)	Surveillance	3007	65	21.6 (16.9-27.6)	Ref
	CRRM	1975	19	9.6 (6.1-15.1)	0.43 (0.26-0.72) <sup>c</sup> 0.49 (0.29-0.82) <sup>d</sup>
(b)	Surveillance	2673	56	21.0 (16.1-27.2)	Ref.
	CRRM	1837	18	9.8 (6.2-15.5)	0.46 (0.27-0.79) <sup>c</sup> 0.55 (0.32-0.95) <sup>d</sup>

<sup>&</sup>lt;sup>a</sup> Analysis (a) is the main analysis with start of observation being either the date of primary breast cancer (PBC) diagnosis or the date of DNA diagnosis, whichever came first. In the additional analysis (b), the observation starts either 2 years after PBC or at the date of DNA diagnosis, whichever came first, to exclude patients who presented with distant metastases or died within 2 years after PBC diagnosis (n = 17).

We conclude that CRRM is associated with improved overall survival in BRCA1/2 mutation carriers with a history of PBC. Further research is warranted to develop a model based on age at diagnosis and tumour and treatment characteristics that can predict survival benefit for specific subgroups of patients, aiming at further personalized counselling and improved decision making.

<sup>&</sup>lt;sup>b</sup> Per 1000 person years of observation.

<sup>&</sup>lt;sup>c</sup> Univariate analysis.

<sup>&</sup>lt;sup>d</sup> Multivariate analysis, adjusted for risk-reducing salpingo-oophorectomy. The following variables did not meet the criteria for incorporation in the multivariate Cox model as described in the Methods section, and were therefore not included in the multivariate analysis: type of mutation, year of birth, age at DNA diagnosis, age at PBC diagnosis, T-status, presence of positive lymph nodes, differentiation grade, hormone receptor status, HER2 status and treatments administered for PBC.

Abbreviations: CRRM, contralateral risk-reducing mastectomy; HR, Hazard ratio; CI, confidence interval.



## Medical Prevention for Women at Increased Risk

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Guidelines Breast Version 2024.1E

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<ul> <li>Tamoxifen for women &gt; 35 years:</li> <li>Risk reduction of invasive BC, DCIS and LN</li> </ul>	<b>1</b> a	Α	+*
<ul> <li>Raloxifen for postmenopausal women:</li> <li>Risk reduction of invasive BC only</li> </ul>	1b	A	+*
<ul> <li>Al for postmenopausal women</li> </ul>	1b	A	+**

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<sup>\*</sup> Risk situation as defined in NSABP P1-trial (1.66% in 5 years) or according to #Tyrer-Cuzick model (IBIS-II)

<sup>\*\*</sup> Significant risk reduction was seen for anastrozole for ovarian and endometrial cancer, as well as skin, colorectal, hematologic, thyroid and urinary tract cancers. Chemopreventive regimes should only be offered after individual and comprehensive counseling. The net benefit strongly depends on risk status, age and pre-existing risk factors for side effects.