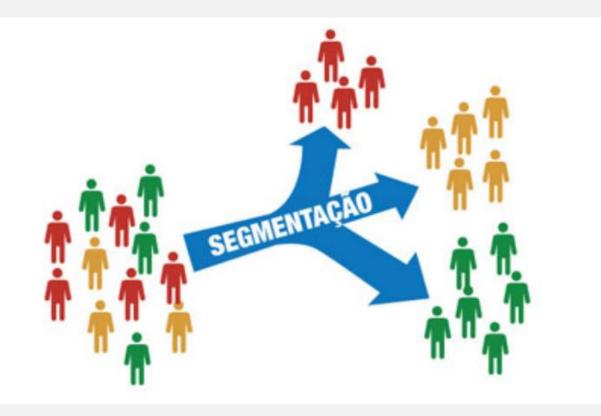
MASTECTOMIA CONTRALATERAL EM PACIENTES BRCA MUTADAS - IMPACTO NA SOBREVIDA -

Rodrigo Gregório Brandão

2019

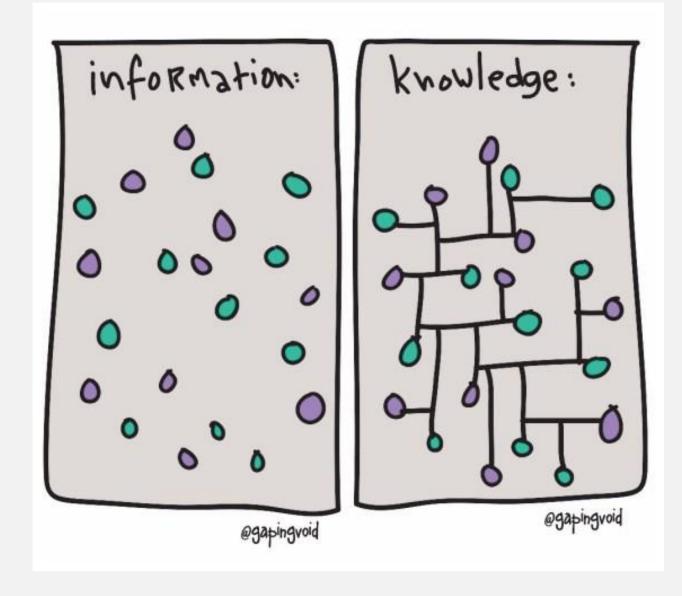
MASTECTOMIA PROFILÁTICA CONTRALATERAL

- Testes genéticos
- Medo de morrer pelo câncer
- Medo de ter de lidar novamente!
- Simetrização
- Elevada Eficácia



MASTECTOMIA PROFILÁTICA CONTRALATERAL

- Diagn CA (BRCA+) CURA ter novo CA contralateral – morte (LEVA TEMPO)
- Risco de recorrência (frente a outras terapias)
- Risco de câncer contralateral (frente a outras terapias)
- Ponderação dos prejuízos
- Impacto da informação



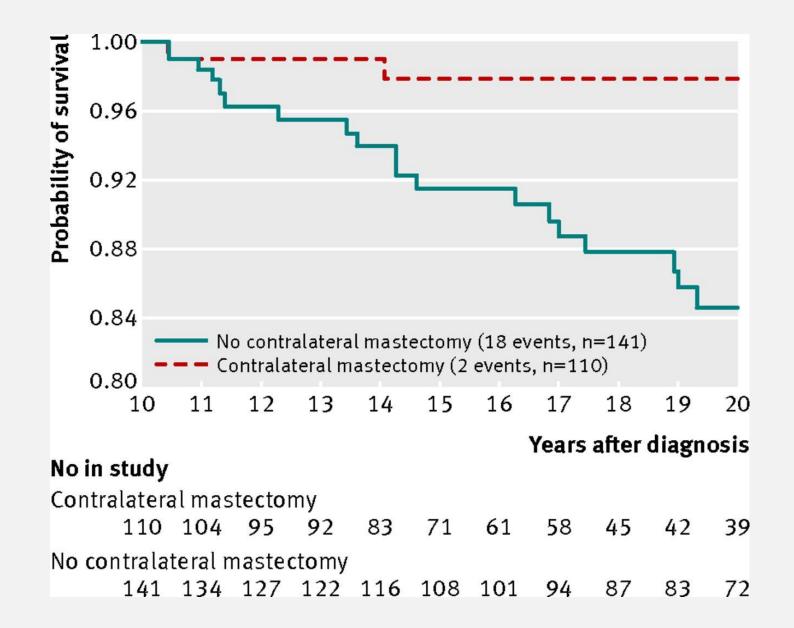
Multi-gene testing is a new and rapidly growing field, but there is currently a **lack of evidence** regarding proper procedures and risk management strategies that should follow testing, especially when pathogenic or likely pathogenic variants are found for moderate-penetrance genes and when a VUS is found

Research Contralateral mastectomy and survival after breast cancer in carriers of BRCA1 and BRCA2 mutations: retrospective analysis

BMJ 2014; 348 doi: <u>https://doi.org/10.1136/bmj.g226</u> (Published 11 February 2014)Cite this as: *BMJ* 2014;348:g226

Kelly Metcalfe, professor1, adjunct scientist2,
Shelley Gershman, registered nurse12,
Parviz Ghadirian, professor3,
Henry T Lynch, professor4,
Carrie Snyder, registered nurse4,
Nadine Tung, associate professor5,

Characteristics	Unilateral mastectomy (n=209)	Bilateral mastectomy (n=181)	P value
Age at diagnosis (years)	43.6	41.3	0.01
Year of diagnosis	1987	1994	<10 to 4
Size of tumour (cm):			
0-2	114 (55.9)	114 (65.1)	0.07
2.1-5	90 (44.1)	61 (34.9)	
Mean (range) size	2.3 (0.2-5.0)	1.9 (0.1-5.0)	0.006
Positive lymph nodes	89 (43.0)	70 (38.7)	0.39
Chemotherapy	115 (57 5)	121 (68 4)	0.03
o T Contralateral b C Died from brea	l (0.6) <l0 4<br="" to="">l8 (9.9)<l0 4<="" th="" to=""></l0></l0>		
Died from breast cancer	61 (29.2)	18 (9.9)	<10 to 4
Radiotherapy	41 (20.5)	30 (16.6)	0.33
BRCA1	123 (60.0)	103 (57.5)	0.63
BRCA2	82 (40.0)	76 (42.5)	



Contralateral mastectomy was associated with a **48%** reduction in death from breast cancer (hazard ratio 0.52, 95% confidence interval 0.29 to 0.93; P=0.03).

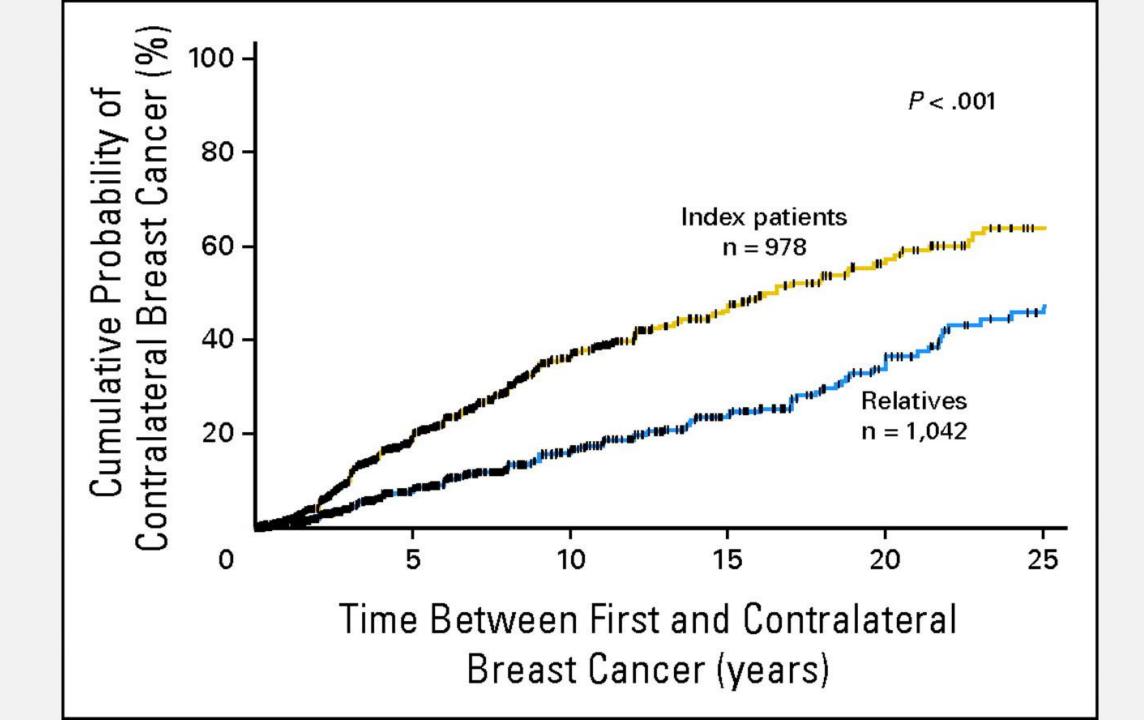
In a propensity score adjusted analysis of 79 matched pairs, the association **Was not significant** (0.60, 0.34 to 1.06; P=0.08)

Clin Oncol. 2009 Dec 10;27(35):5887-

92. doi: 10.1200/JCO.2008.19.9430. Epub 2009 Oct 26. Contralateral breast cancer risk in BRCA1 and BRCA2 mutation carriers.

<u>Graeser MK^I, Engel C, Rhiem K, Gadzicki D, Bick U, Kast</u> <u>K, Froster UG, Schlehe B, Bechtold A, Arnold N, Preisler-Adams</u> <u>S, Nestle-Kraemling C, Zaino M, Loeffler M, Kiechle M, Meindl</u> <u>A, Varga D, Schmutzler RK</u>.

A retrospective, multicenter, cohort study was performed from 1996 until 2008 and comprised 2,020 women with unilateral breast cancer (index patients, n = 978; relatives, n = 1.42) from 978 families who had a BRCA1 or BRCA2 mutation.



Pacientes BRCA 1,2 mutadas com câncer de mama

- 10y risk 31% (<40y) - 10y risk 8% (>50y)

Pacientes BRCA 1,2 mutadas com câncer de mama

- 25y risk 63% (<40y) - 25y risk 9,6% (>50y)



MASTECTOMIA PROFILÁTICA CONTRALATERAL

Improved overall survival after contralateral risk-reducing mastectomy in BRCA1/2 mutation carriers with a history of unilateral breast cancer: A prospective analysis

Bernadette A.M. Heemskerk-Gerritsen Matti A. Rookus Cora M. Aalfs ... See all authors

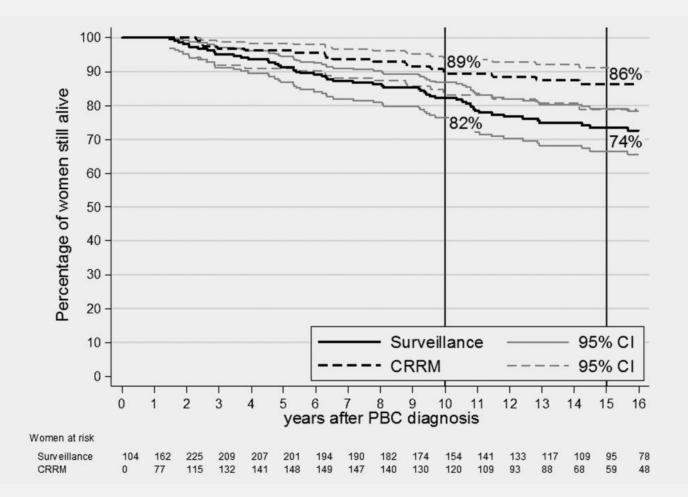
<u>Int J Cancer.</u> 2015

https://doi.org/10.1002/ijc.29032

Table 3. Efficacy of contralateral risk-reducingmastectomy on overall survival

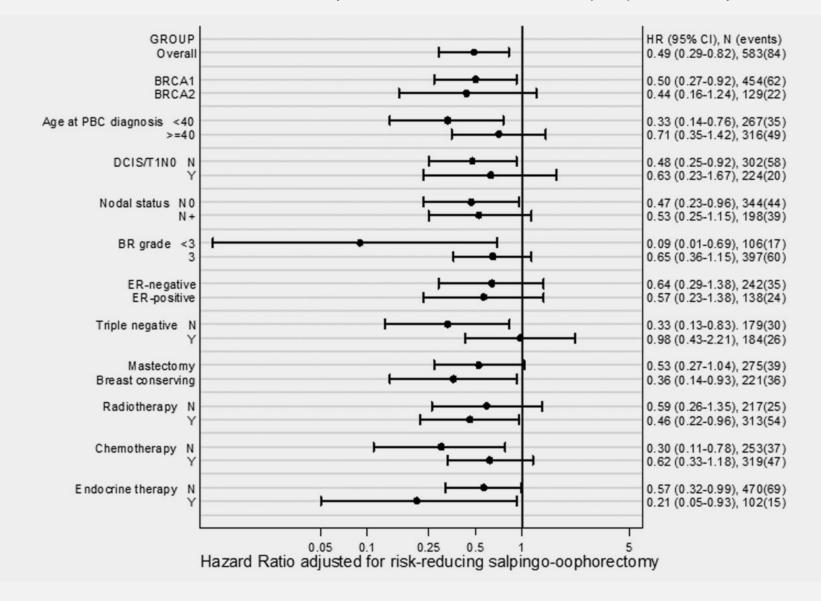
Analysis <u>a</u>	Group	Person years of observation	Deaths	Mortality <mark>b</mark> (95 % CI)	HR (95% CI)
(a)	Surveillance	3007	65	21.6 (16.9– 27.6)	Ref.
	CRRM	1975	19	9.6 (6.1–15.1)	0.43 (0.26– 0.72) <u>c</u>
					0.49 (0.29– 0.82) <u>d</u>
(b)	Surveillance	2673	56	21.0 (16.1–27.2)	Ref.
	CRRM	1837	18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

Improved overall survival after contralateral risk-reducing mastectomy in BRCA1/2 mutation carriers with a history of unilateral breast cancer: A prospective analysis



International Journal of Cancer, Volume: 136, Issue: 3, Pages: 668-677, First published: 20 June 2014, DOI: (10.1002/ijc.29032)

Improved overall survival after contralateral risk-reducing mastectomy in BRCA1/2 mutation carriers with a history of unilateral breast cancer: A prospective analysis



Of note, the risk of developing CBC is not the same for all

PBC patients, and may depend on **age** at PBC

diagnosis, **ER-status**, and given adjuvant systemic therapy

Greatest survival benefits after CRRM are expected in subgroups of patients at **high risk of CBC** and low risk of primary BC-specific **mortality**.

PBC patients (<40 years), in patients having a PBC with differentiation grade 1/2 and/or no triple-negative phenotype, and in patients not treated with adjuvant chemotherapy.

Ideally, one should offer CRRM to PBC patients with a high CBC risk and a low risk of dying from PBC

Breast Cancer Res Treat. 2011

The impact of contralateral mastectomy on mortality in BRCA1 and BRCA2 mutation carriers with breast cancer. Narod SA¹.

Author information:

1. Womens College Research Institute and Dalla Lana School of Public Health, University of Toronto The cumulative mortality from the first breast cancer will be 9.6% at 5 years, 18.3% at 10 years, and 33.3% at 20 years.

The cumulative mortality from new contralateral breast cancers will be 0.4% at 5 years, 1.7% at 10 years, and 6.8% at 20 years.

At 20 years, the probability of dying of

contralateral breast cancer is 6.8%

Am J Surg. 2016 Oct;212(4):660-669. doi: 10.1016/j.amjsurg.2016.06.010. Epub 2016 Jul 18. Risk reduction and survival benefit of prophylactic surgery in BRCA mutation carriers, a systematic review.

Ludwig KK¹, Neuner J², Butler A³, Geurts JL⁴, Kong AL⁵. Author information

1Department of Surgery, Indiana University School of Medicine, Carmel, IN, USA.2Division of General Internal Medicine, Department of Medicine, Medical College of Wisconsin, Milwaukee, WI, USA.3Division of Surgical Oncology, Results Bilateral risk-reducing mastectomy provides a 90% to 95% risk reduction in BRCA mutation carriers, although the data do not demonstrate improved mortality.



Breast Surgeons - Official Statement -

Consensus Guideline on Genetic Testing for Hereditary Breast Cancer

1.Breast surgeons, genetic counselors, and other medical

professionals knowledgeable in genetic testing can provide patient

education and counseling and make recommendations to their

patients regarding genetic testing and arrange testing

2. Genetic testing should be made available to all patients with a personal history of breast cancer.

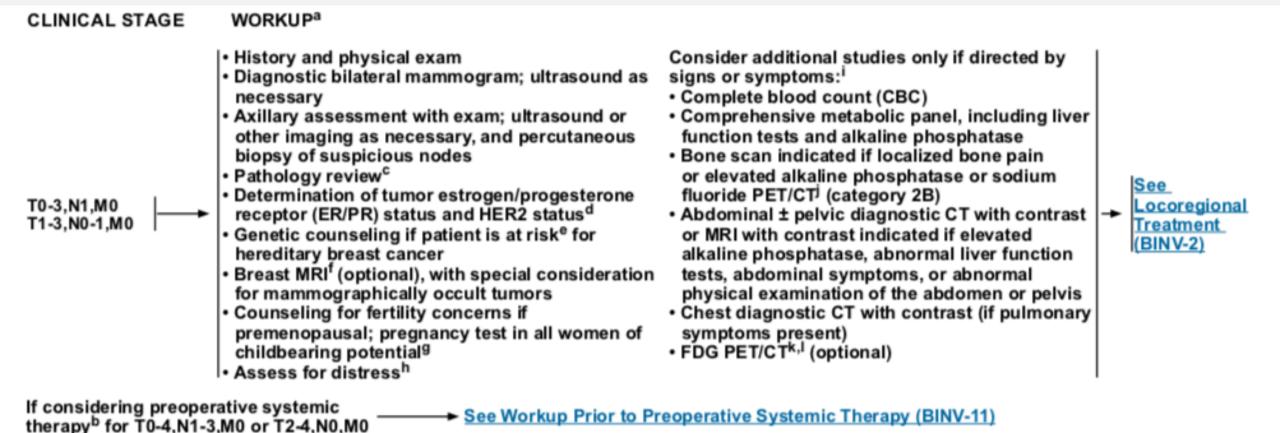
3.Patients who had genetic testing previously may benefit from updated testing.

NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines[®])

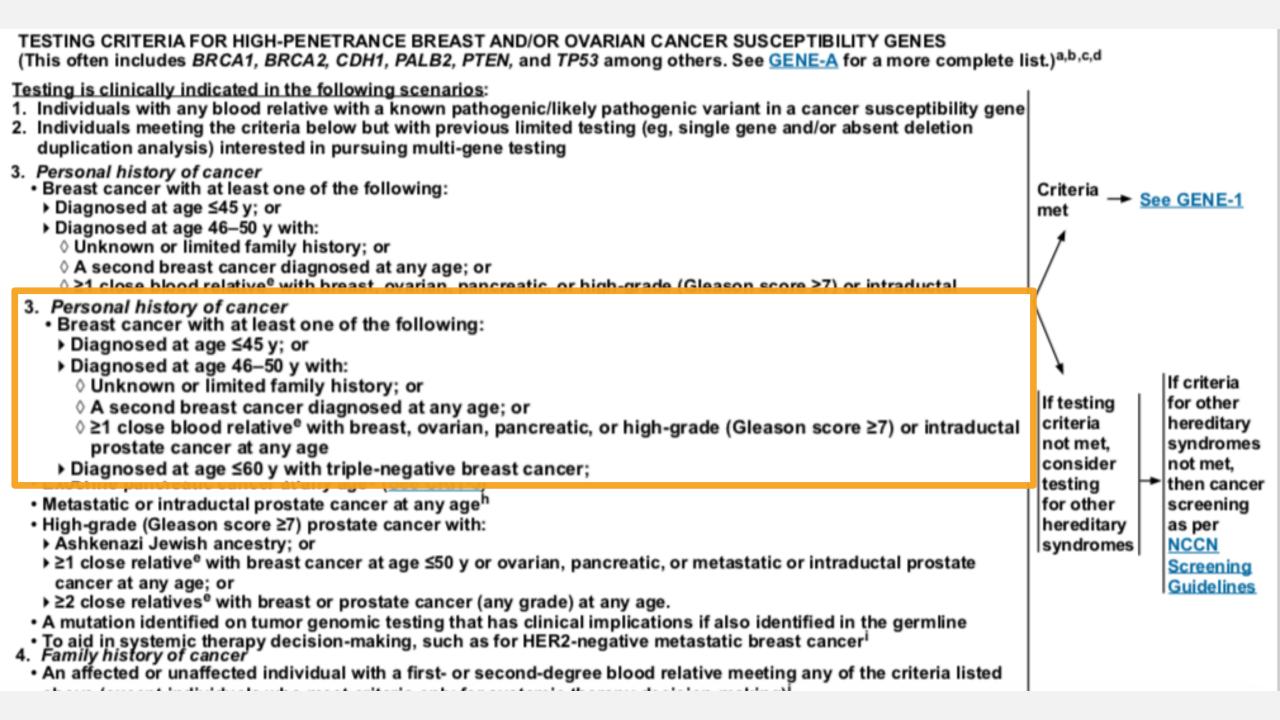
Breast Cancer

Version 3.2019 — September 6, 2019

NCCN.org



Recurrent or Stage IV (M1) ______ See Workup for Recurrent or Stage IV (M1) Disease (BINV-18)



Studies have reported *BRCA1* mutations in 7% to

28% of patients with triple-negative breast cancer.75,113,146-153

triple-negative disease, *BRCA* mutation carriers were diagnosed at a younger age compared with non-carriers,

39 years



60a TINOMO TNBC BRCA I

> MASTECTOMIA CONTRALATERAL?