

Incontri di aggiornamento del Dipartimento Oncologico

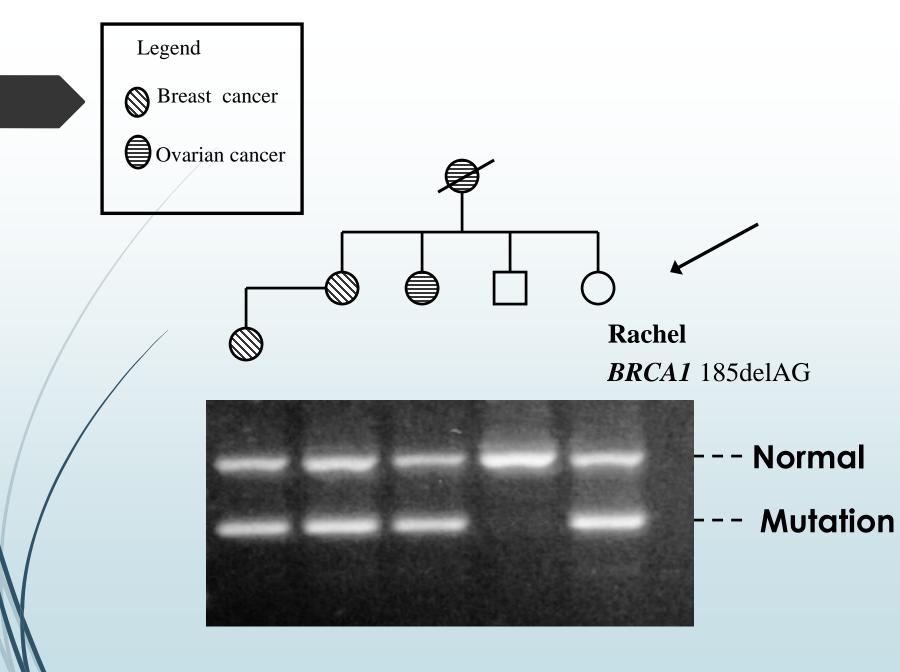
DONNE SANE CON MUTAZIONE BRCA 1-2: COSA FARE? CHIRURGIA: MASTECTOMIA PROFILATTICA

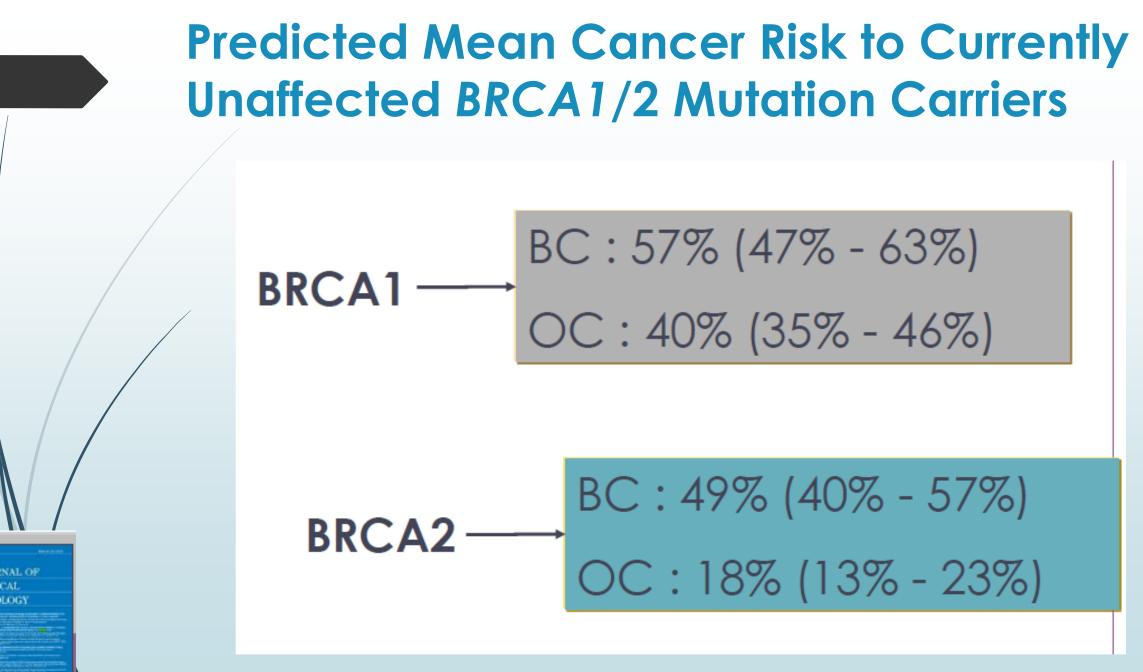
Dott.ssa Chiara Boccardo

Unità di Chirurgia Senologica Ospedale Sacro Cuore – Don Calabria

Sacro Cuore Don Calabria

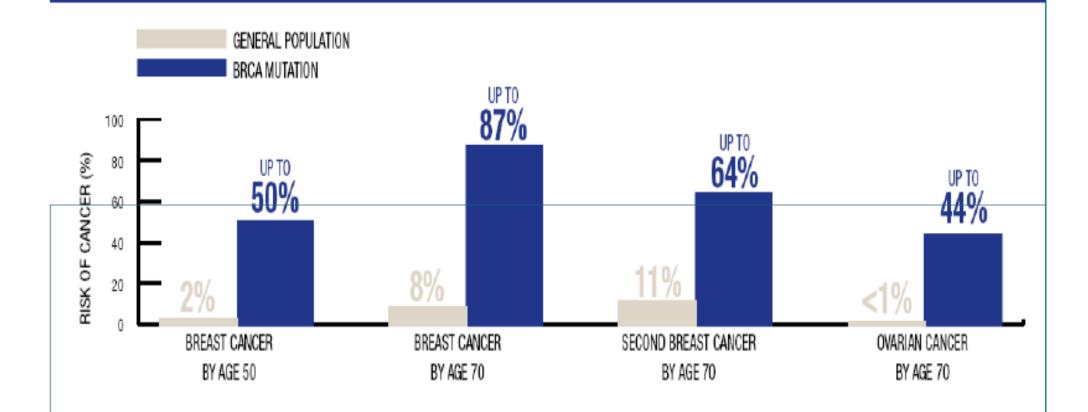
Cancer Care Center Negrar - Verona





Chen et al JCO 2007

MUTATIONS DRAMATICALLY INCREASE THE RISK OF DEVELOPING CANCER



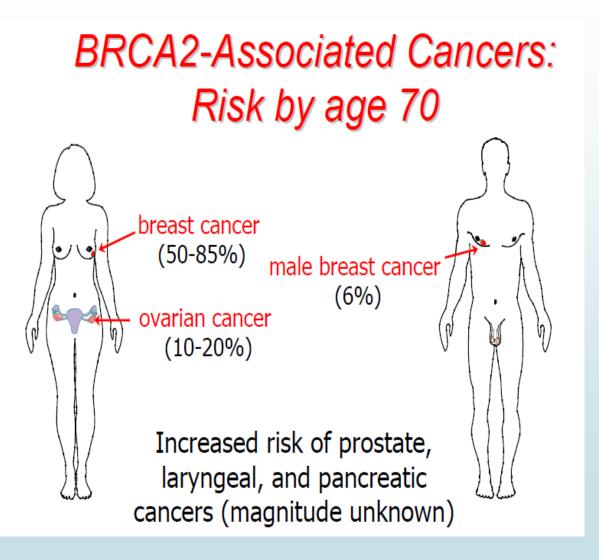
REDUCE RISK OF HEREDITARY CANCER WITH PROVEN MEDICAL MANAGEMENT

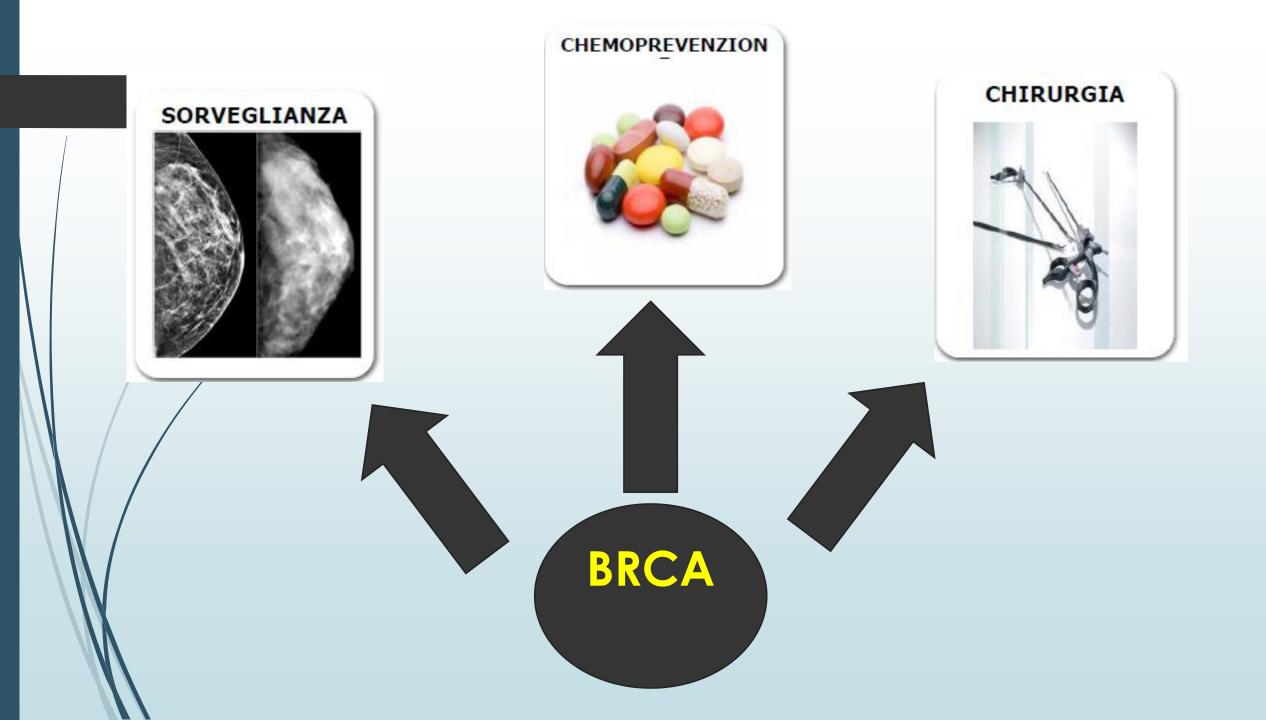
BRCA1-Associated Cancers: Risk by age 70

Breast cancer 50-85% (often early age at onset) Second primary breast cancer 20%-60%

Varian cancer 15-45%

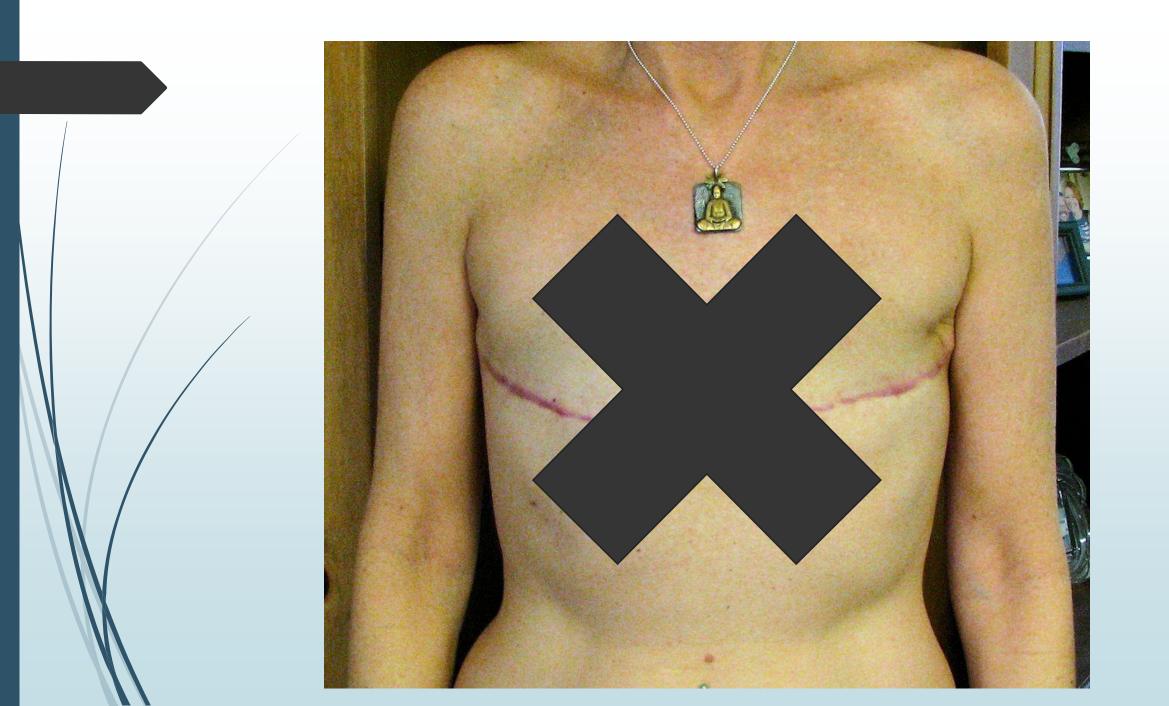
Possible increased risk of other cancers (e.g., prostate)





WHICH SURGERY?

 TOTAL BILATERAL MASTECTOMY
 SKIN SPARING MASTECTOMY: Removal 95-99% of breast tissue
 NIPPLE SPARING MASTECTOMY : Removal 95% of breast tissue

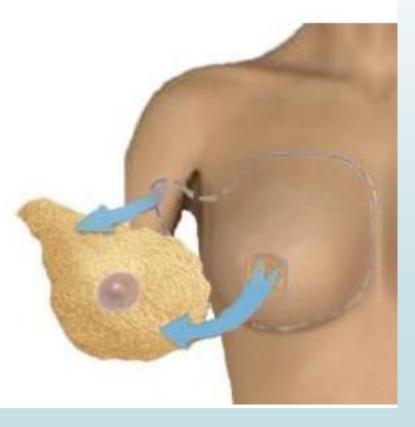


WHICH SURGERY?

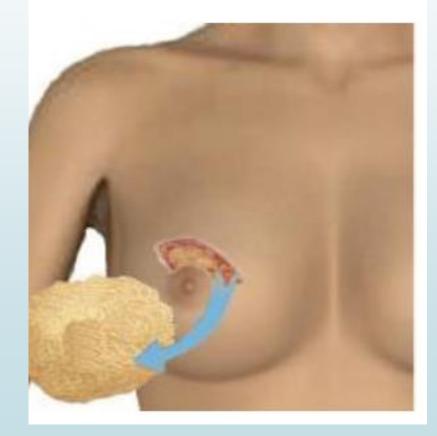
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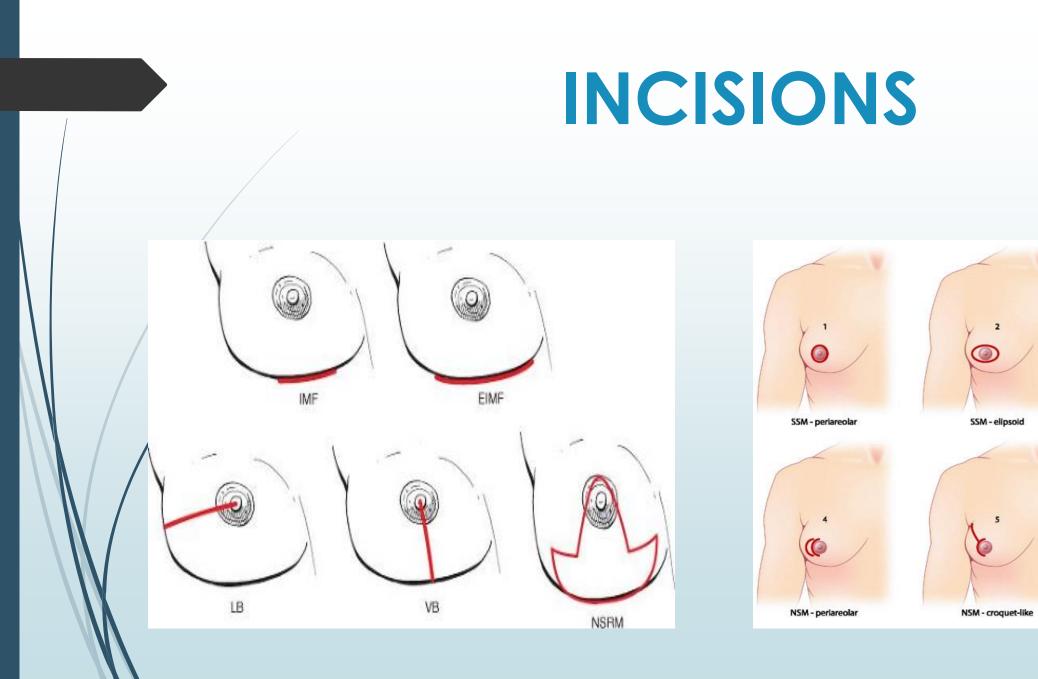
WHICH SURGERY?

"skin sparing mastectomy"

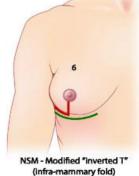


"nipple sparing mastectomy"

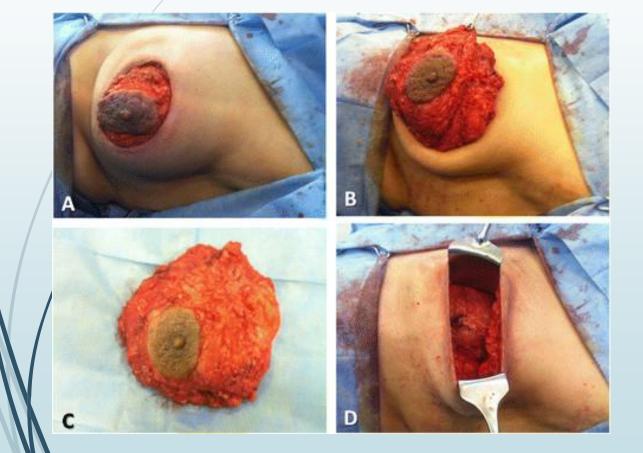




3 SSM- tennis racquet



SKIN SPARING MASTECTOMY





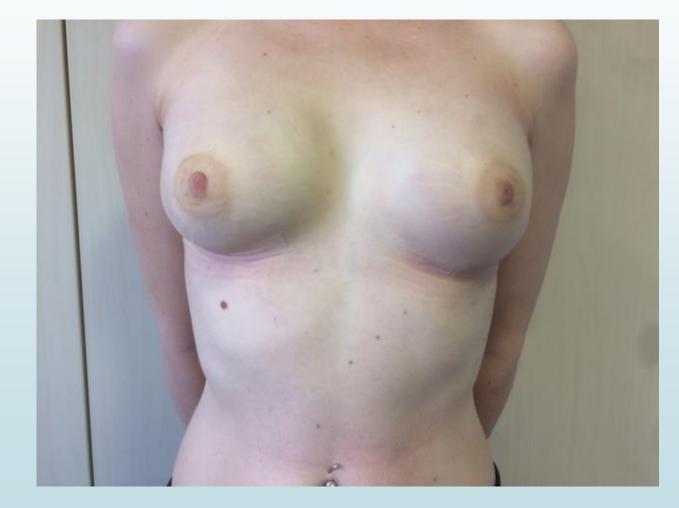
NIPPLE SPARING MASTECTOMY







NIPPLE SPARING MASTECTOMY



Courtesy of Chirurgia Plastica Negrar

Prophylactic Mastectomy in Patients at High Risk: Is There a Role for Sentinel Lymph Node Biopsy?

Vijayashree Murthy,¹ Ronald S. Chamberlain^{1,2,3}



Argumente Supporting the Adeption of SLND in DM	Arguments Against the Adeption of SLNP in DM
Arguments Supporting the Adoption of SLNB in PM	Arguments Against the Adoption of SLNB in PM
 SLNB is associated with low morbidity and cannot be reliably performed after mastectomy (due to disrupted lymphatics) should an occult malignancy be detected. 	1. The true positive nodal yield of SLNB in CPM and pure bilateral PM is unknown.
2. Incidence of occult malignancy in CPM is up to 5%-15%, therefore, SLNB will stage the axilla adequately and avoid the need for ALND in these patients.	Despite a 5%-15% occult malignancy in PM specimens, these are typically early lesions (T1mic or T1) and the yield of SLNB in this setting is almost zero.
3. Incidence of contralateral axillary metastases in locally advanced and recurrent breast cancer is 3.5%-5%.	CPM has been proven to increase DFS and OS in patients with ipsilateral breast cancer; however, the utility of SLNB to further improve the results on the PM side is unproven.
 SLNB performed at the time of PM results in decreased surgical procedures and anesthesia risk and provide significant patient advantages. 	Increased operative time and cost (operating room time, frozen section, and immunohistochemistry) are not justified for a procedure with such a low yield.
SLNB may be performed through a single incision if done at the time of mastectomy.	No defined or standard operative technique or intraoperative assessment of SLN has been established in the PM setting.
Concurrent SLNB decreases treatment delays in case an occult malignancy is found in the prophylactic breast specimen.	6. ACSOG-Z0011 trial concluded that observation of the axilla in a SLNB positive patient with known breast malignancy does not yield inferior result, if this is true then SLNB in a prophylactic setting would be overtreatment.
	Complications of SLNB include limb paresthesias, lymphedema, anaphylaxis to patent blue dye and failure to map the SLN.
	The role of MRI to predict disease in the contralateral breast and axilla needs more investigation and may avoid unnecessary axillary procedures and morbidity.

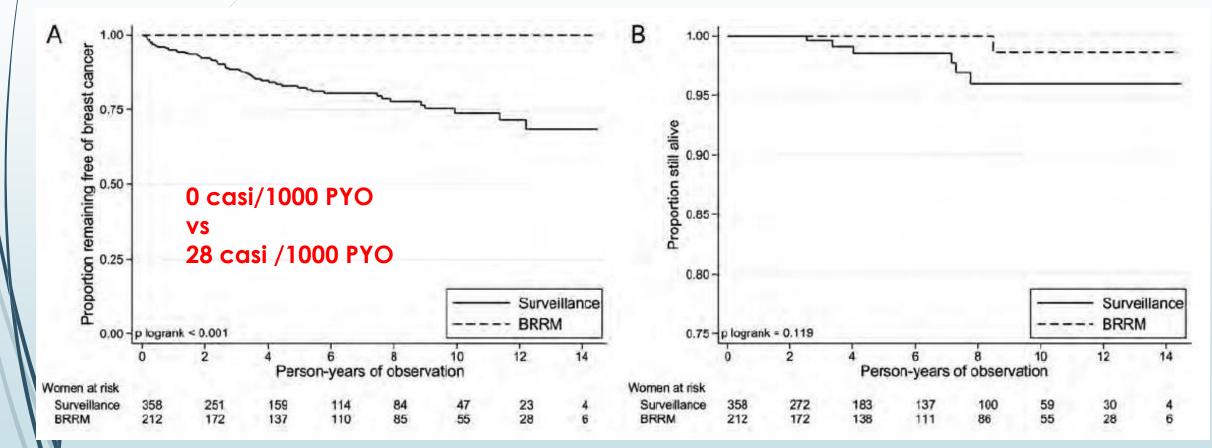
BILATERAL PROPHYLACTIC MASTECTOMY: OUTCOMES

Strategia	Relative reduction in the risk of developing BC
Risk-reducing bilateral mastectomy	>90%
Risk-reducing bilateral salpingo – oophorectomy (premenopausal)	Up to 50%
Risk reducinc medication SERMS Aromatase inhibitors	38% >50%
Screening (MX and MRI)	NA

Domcheck Sm JAMA 2010; Cuzick J, Lancet 2013; Cardoso F Eur J Cancer 2012

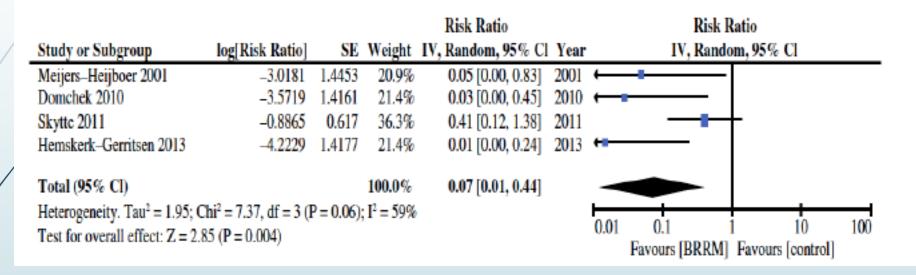
BILATERAL PROPHYLACTIC MASTECTOMY





Heemskerk-Gerritsen, Ann Oncol 2013

BILATERAL PROPHYLACTIC MASTECTOMY



Meta-analysis of four prospective studies, including 2635 patients, demonstrated a significant risk reduction of breast cancer incidence in BRCA1 and BRCA2 mutation carriers receiving BRRM (HR 0.07; 95 % CI 0.01-0.44; p = 0.004).

De Felice et al, Ann Surg Oncol. 2015

DRAWBACKS PROPHYLACTIC MASTECTOMY

Irreversible
 Risk reduced but not cancelled
 Post operative complications
 Psychological impact

Table 1 Complications of mastectomy.

Seroma formations (25-60%)

Wound infections (2.8–15%) Skin flap necrosis (1–22%) Hematoma (2%)

Complications of implants

Prosthesis infection (0.5–2%)
Capsular contraction (3–5% up to 30% depending on type of implants)
Device failure and rupture (10%)

Complications of autologous tissue reconstruction

Flap necrosis (1-3%) Wound infection (4-8%) Functional impairment (variable) Abdominal hernias (20%)





COMPLICATIONS



ANY DOUBTS?

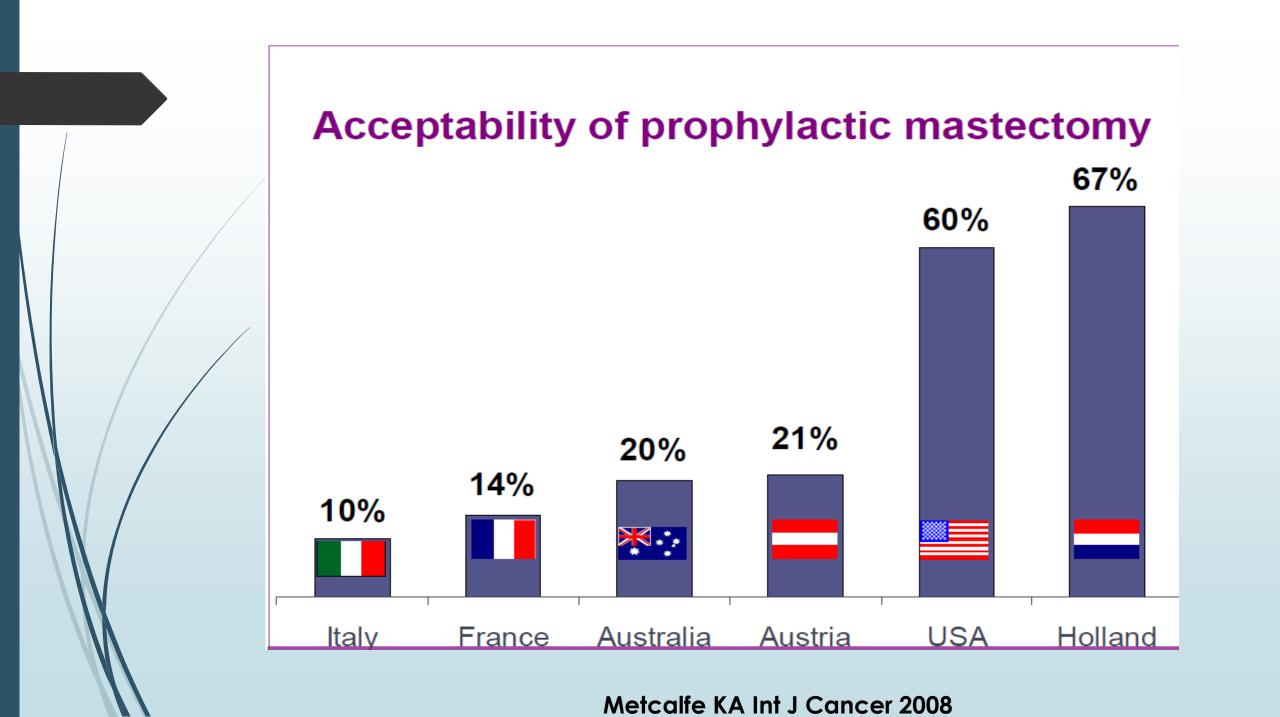
Cosa vi spinge a fare test genetico brca1 e 2

da:brioches1

Ciao meravigliose, ho una domandina da porvi: cosa vi spinge a fare il test genetico BRCA1e2 ?.nel senso che io vorrei farlo ma ho paura della risposta e nel caso di positività? ok è vero meglio togliersi le tette piuttosto che riaffrontare operazione, chemio, radio e tutto ci che ne comporta.ma alla fine siamo donne perbaccoinsomma sono molto combattuta.. Qualcuna può aiutarmi????

> per me la voglia di crescere la bambina è stata determinante nell'aver scelto di fare il test genetico...positivo al brca1 dopo un ca al seno a soli 27 anni, poi ho fatto la mastectomia bilaterale profilattica e non sono pentita per nulla, il 21maggioi è nato Francesco Gabriele. adesso faccio molti controlli alle ovaie che prima o poi asporterò'. sai secondo me il test genetico serve per anticipare la bestiaccia per arrivare prima noi di lei un abbraccio

Mary 7720



PSYCHO-ONCOLOGY Psycho-Oncology 9: 462–472 (2000)

CLINICAL FOLLOW-UP AFTER BILATERAL RISK REDUCING ('PROPHYLACTIC') MASTECTOMY: MENTAL HEALTH AND BODY IMAGE OUTCOMES

PENELOPE HOPWOOD^{a,*}, ANDREW LEE^a, ANDREW SHENTON^b, ANDREW BAILDAM^c, ANNE BRAIN^d, FIONA LALLOO^c, GARETH EVANS^c and ANTHONY HOWELL^d ^a The CRC Psychological Medicine Group, Christie Hospital NHS Trust, Manchester, UK ^b Family History Clinic, Kinnaird Road, Withington, Manchester, UK ^c Withington Hospital, Nell Lane, Manchester, UK ^d Christie Hospital NHS Trust, Manchester, UK ^c St Mary's Hospital, Manchester, UK

For the majority of women there is no evidence of significant mental health or body image problems in the first 3 years following Bilateral Prophylactic Mastectomy (BPM), but women who have complications warrant additional psychological help. Careful pre-operative preparation and long-term monitoring are advocated in this new field of cancer prevention

PSYCHOLOGICAL IMPACT OF BILATERAL PROPHYLACTIC MASTECTOMY

The literature strongly suggests women want more information surrounding BPM, particularly related to the after effects of the surgery, and the impact on their psychological wellbeing

Glassey et al The Breast 2016

JOURNAL OF CLINICAL INCOLOGY

BREAST

No negative effects on anxiety, depression, and quality of life were found. Anxiety and social activities improved. Negative impact on sexuality and body image was reported.

Brandberg et al JCO 2008

IN CONCLUSIONE

Mastectomia profilattica bilaterale

