



XXXIV

Reunion de la Sociedad de Obstetricia y Ginecología de Castilla y León

25 y 26 de octubre de 2019

Zamora

MENOS ES MAS EN AXILA

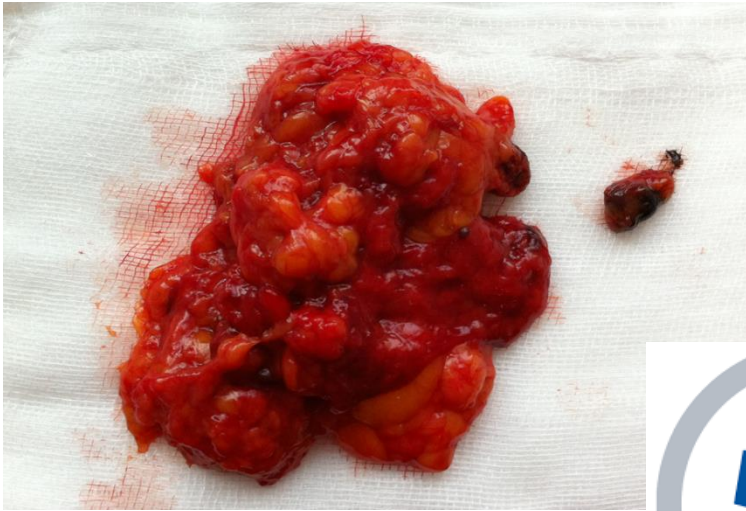
DRA. GÓMEZ CALVO

SERVICIO DE GINECOLOGIA

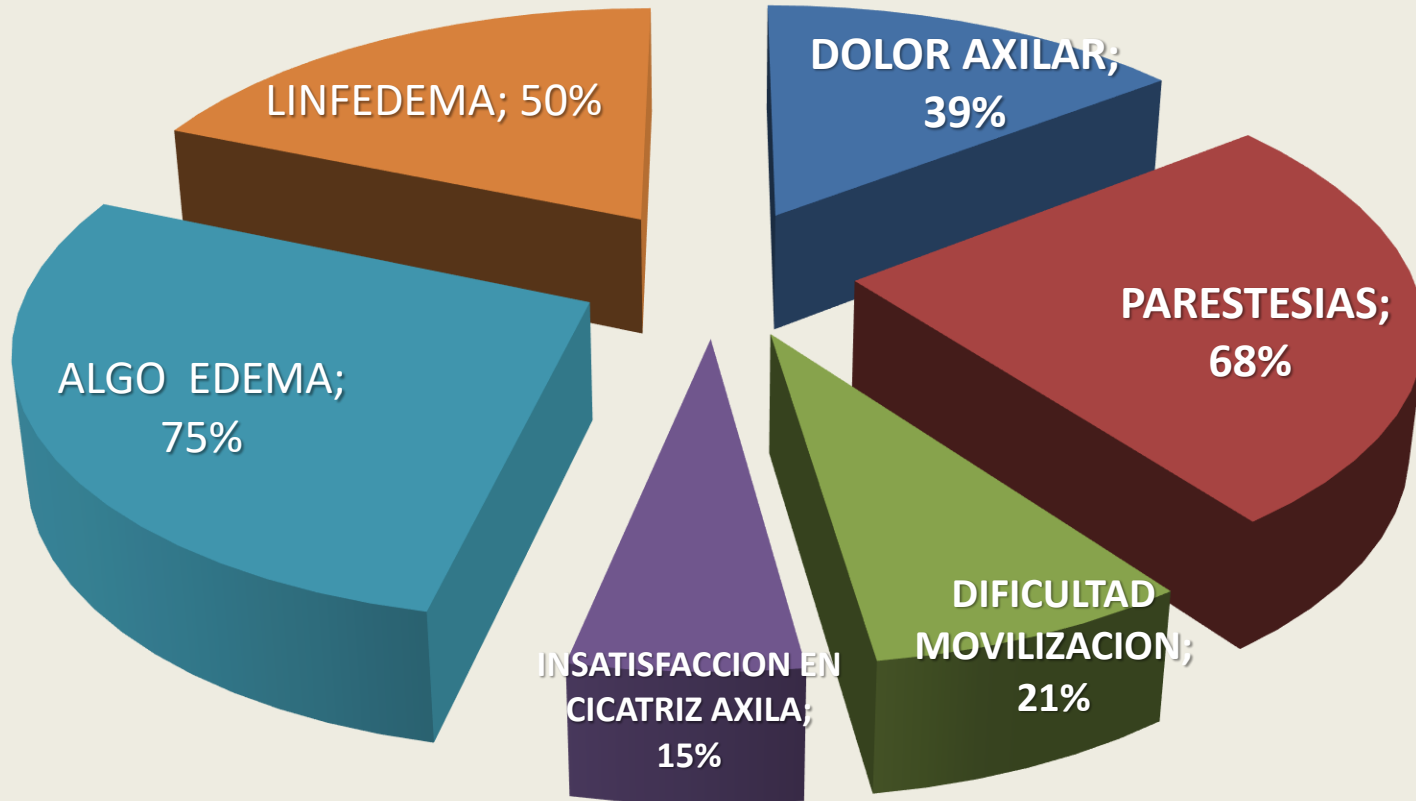


Hospital General de Segovia

LINFADENECTOMIA AXILAR



LINFADENECTOMÍA AXILAR: MORBILIDADES



■ DOLOR AXILAR

■ DIFICULTAD MOVILIZACION

■ ALGO EDEMA

■ PARESTESIAS

■ INSATISFACCION EN CICATRIZ AXILA

■ LINFEDEMA

LINFOANGIOSARCOMA



MENOS ES MÁS



EVOLUCION AXILA

ESTADIFICACION TUMOR Y AXILA-> DECISION DE TRATAMIENTO

ESTATUS AXILAR-> **FACTOR PRONOSTICO**



Halsted

Tumorectomía

ACOSOG Z0011

Biología tumoral

Cirugía radical

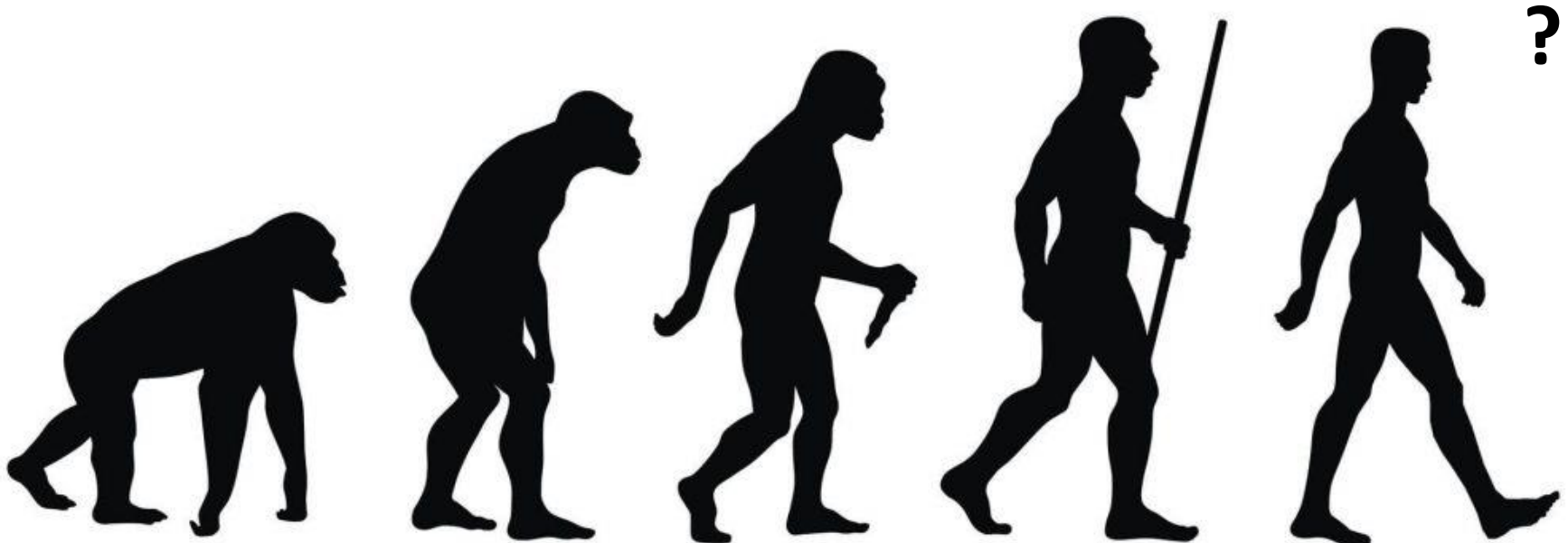
BSGC(+)

LINFADENECTOMIA

LINFADENECTOMIA

Amaros (2013)

Neoadyuvancia



MENOS ES MAS: LINFADENECTOMIA AXILAR

4

3

QUIMIOTERAPIA SISTEMICA EN NEOADYUVANCIA
N1 (+) BSGC
BIOMARCADORES

2

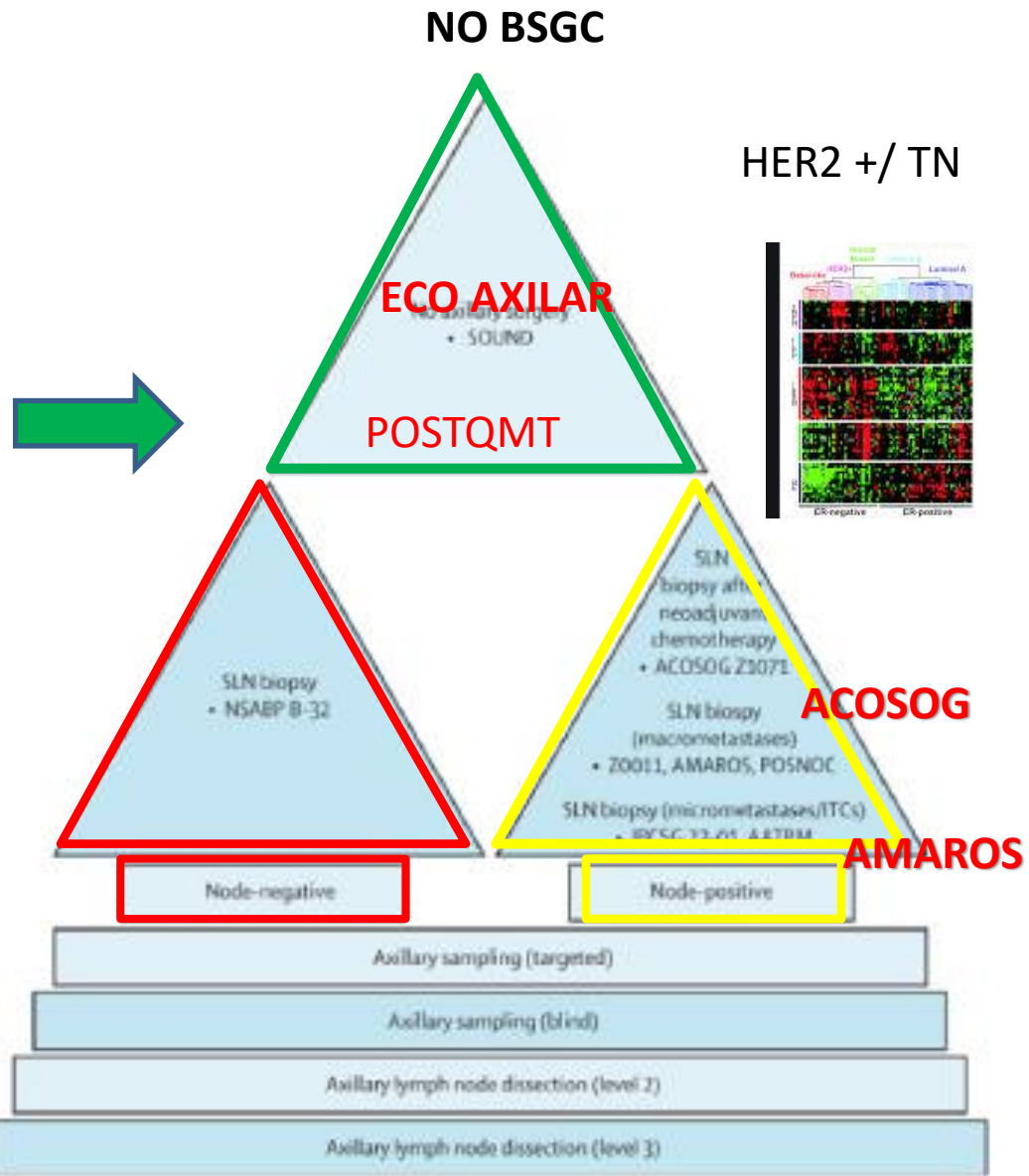


2000 BSGC

1

CDIS NO CIRUGIA AXILAR

1990 MAMOGRAFIA



2



[Annals of Surgical Oncology](#)

February 2009, Volume 16, [Issue 2](#), pp 266-275 | [Cite as](#)

Sentinel-Lymph-Node-Based Management or Routine Axillary Clearance? One-Year Outcomes of Sentinel Node Biopsy Versus Axillary Clearance (SNAC): A Randomized Controlled Surgical Trial



VOLUME 23 · NUMBER 19 · JULY 1 2005

JOURNAL OF CLINICAL ONCOLOGY ORIGINAL REPORT

Morbidity After Sentinel Lymph Node Biopsy in Primary Breast Cancer: Results From a Randomized Controlled Trial

Anand David Parushotham, Sara Upponi, Manfred Borislav Klevesath, Lynda Bobrow, Keith Millar, Jonathan Peter Myles, and Stephen William Duffy

Lancet Oncol. 2010;11(10):927-933.

Sentinel-lymph-node resection compared with conventional axillary-lymph-node dissection in clinically node-negative patients with breast cancer: overall survival findings from the NSABP B-32 randomised phase 3 trial

David N Krag, Stewart J Anderson, Thomas R Julian, Ann M Bruner, Seth P Harlow, Joseph P Costantino, Takamasa Aritaaga, Donald J Wenzel, Eleftherios P Mamounas, Lynne M Jakavec, Theresa G Francis, R Dick Noyes, Andre Robideaux, Hugh M C South, Norman Wolmark



Randomized Multicenter Trial of Sentinel Node Biopsy Versus Standard Axillary Treatment in Operable Breast Cancer: The ALMANAC Trial Journal of the National Cancer Institute, Vol. 98, No. 9, May 3, 2006



DISMINUCION LINFADENECTOMIA AXILAR 60%

ACOSOG Z011

Published in final edited form as:

Ann Surg. 2010 September ; 252(3): 426–433. doi:10.1097/SLA.0b013e3181f08f32.

Locoregional Recurrence after Sentinel Lymph Node Dissection with or without Axillary Dissection in Patients with Sentinel Lymph Node Metastases: The American College of Surgeons Oncology Group Z0011 Randomized Trial

Armando E Giuliano, MD¹, Linda McCall, MS², Peter Beitsch, MD³, Pat W Whitworth, MD⁴, Peter Blumencranz, MD⁵, A. Marilyn Leitch, MD⁶, Sukamal Saha, MD⁷, Kelly K Hunt, MD⁸, Monica Morrow, MD⁹, and Karla Ballman, PhD¹⁰

ACOSOG Z0011 (59)

- Tumores T1-T2
- ≤ 2 ganglios centinela metastásicos
- No invasión de la grasa periganglionar
- Cirugía conservadora de la mama
- Radioterapia (RDT) convencional adyuvante sobre mama (Irradiación de la mama con campos tangenciales optimizados a la axila)
- Tratamiento sistémico adyuvante

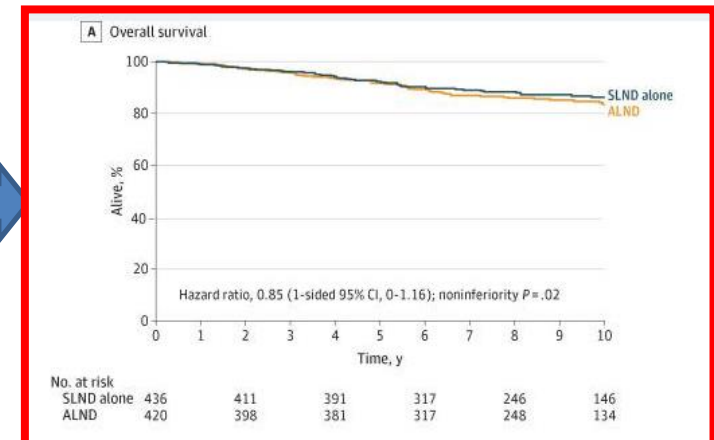
NO
LINFADENECTOMIA
AXILAR

Research

JAMA | Original Investigation

Effect of Axillary Dissection vs No Axillary Dissection on 10-Year Overall Survival Among Women With Invasive Breast Cancer and Sentinel Node Metastasis The ACOSOG Z0011 (Alliance) Randomized Clinical Trial

Armando E. Giuliano, MD; Karla V. Ballman, PhD; Linda McCall, MS; Peter D. Beitsch, MD; Meghan B. Brennan, RN, ONP, PhD; Pond R. Kelemen, MD; David W. Ollila, MD; Nora M. Hansen, MD; Pat W. Whitworth, MD; Peter W. Blumencranz, MD; A. Marilyn Leitch, MD; Sukamal Saha, MD; Kelly K. Hunt, MD; Monica Morrow, MD



EVITAR LINFADENECTOMIAS AXILARES

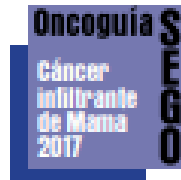


Tabla 11

EVITAR LINFADENECTOMÍA AXILAR EN GANGLIO CENTINELA METASTÁSICO
Valoración con OSNA: Baja carga tumoral total*: < 15.000 copias ARN m CK19
Valoración histopatológica: Células aisladas o micrometástasis Macrometástasis, si cumplen todo los criterios ACOSOG Z0011 (59) <ul style="list-style-type: none">• Tumores T1-T2• ≤ 2 ganglios centinela metastásicos• No invasión de la grasa periganglionar• Cirugía conservadora de la mama• Radioterapia (RDT) convencional adyuvante sobre mama (Irradiación de la mama con campos tangenciales optimizados a la axila)• Tratamiento sistémico adyuvante

*Se define la carga tumoral total, como la suma de las cargas tum OSNA (65-66)

** De acuerdo con el estudio Amaros (67), en algunos casos y o considerarse la realización de Radioterapia axilar.

DESCENSO EXPONENCIAL

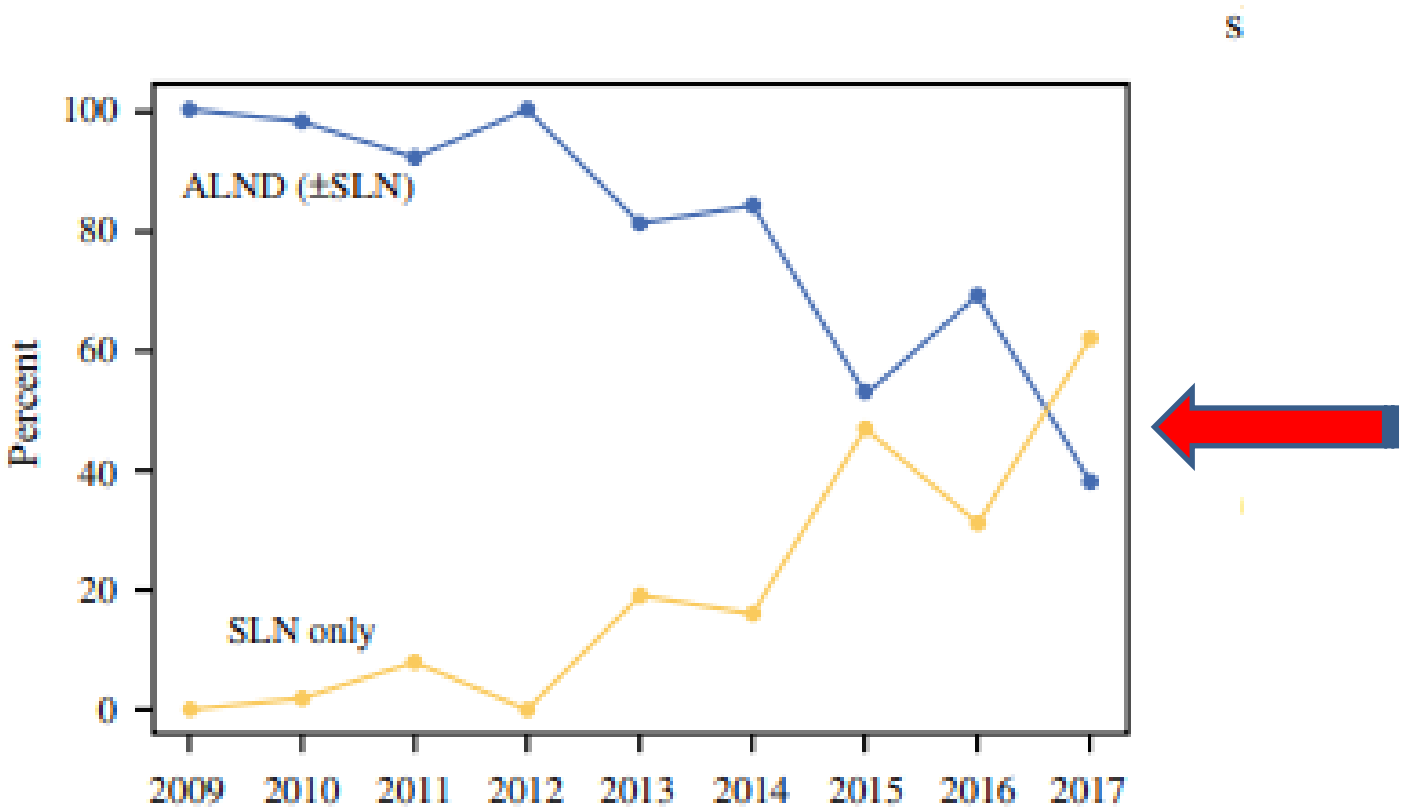
Ann Surg Oncol (2018) 25:2596–2602
<https://doi.org/10.1245/s10434-018-6637-9>

Annals of
SURGICAL ONCOLOGY
OFFICIAL JOURNAL OF THE SOCIETY OF SURGICAL ONCOLOGY

CrossMark

ORIGINAL ARTICLE – BREAST ONCOLOGY

Decreasing Use of Axillary Dissection in Node-Positive Breast Cancer Patients Treated with Neoadjuvant Chemotherapy



Ann Surg Oncol (2018) 25:2596–2602

3



**TERAPIA
SISTEMICA PRIMARIA**

BSGC PREQMT

BSGC POSTQMT



BSGC postQMT



A FAVOR BSGC postQMT?

Permite ahorrar 1 cirugía

Permite empezar antes QMT

Informa eficacia QMT

Reduce tasa LINFADENECTOMIA AXILARES

Oncoguía **SEGO**
Cáncer
infiltrante
de Mama
2017

Sociedad Española
de Senología y Patología Mamaria

Printed by Ana Gomez calvo on 4/9/2018 7:33:43 PM

NCCN
National
Comprehensive
Cancer
Network®

UpToDate®

BSGC (G-) POST NEOADYUVANCIA

PREOPERATIVE THERAPY IN INVASIVE BREAST CANCER

Reviewing the State of the Science and Exploring New Research Directions

Sentinel Node Biopsy After Neoadjuvant Chemotherapy: The Pros

Terry Mamounas, M.D., M.P.H

J Clin Oncol. 2005 Jul 20;23(21

PLOS ONE | DOI:10.1371/journal.pone.0162605 September 8, 2016

RESEARCH ARTICLE

The Feasibility and Accuracy of Sentinel Lymph Node Biopsy in Initially Clinically Node-Negative Breast Cancer after Neoadjuvant Chemotherapy: A Systematic Review and Meta-Analysis

Chong Geng, Xiao Chen, Xiaohua Pan, Jiyu Li*

FN del 6%.

Department of Breast and Thyroid Surgery, Shandong Provincial Hospital Affiliated to Shandong University, Jinan, Shandong Province, China

Sentinel Lymph Node Biopsy Before or After Neoadjuvant Chemotherapy: Pros and Cons

Surg Oncol Clin N Am
19 (2010) 519–538

Michael S. Sabel, MD

CLINICAL BREAST CANCER SEPTIEMBRE, 2017

The Shift From Sentinel Lymph Node Biopsy Performed Either Before or After Neoadjuvant Systemic Therapy in **the Clinical Negative Nodes of Breast Cancer Patients**. Results, and the Advantages and Disadvantages of Both Procedures

Autor: Fernandez-Gonzalez, Sergi 1 ; Falo, Catalina 2 ; Pla, Maria Jesus 3 ; Pemas, Sonia 2 ; Bajen, Maite 4 ; Soler, Teresa 5 ; Ortega, Raul 6 ; Quetglas, Cecilia 3 ; Perez-Martin, Xavier 7 ; Fernandez Montoli, Maria Eulalia 3 ; Campos, Miriam 3 ; Varela-Rodriguez, Mar 5 ; Ponce, Jordi 3 ; Garcia-Tejedor, Amparo 3

BSGC postQMT



N1 (clínica y radiológicamente)

**NO (clínica y
radiológicamente)**

N1 (clínica y radiológicamente)

EN CONTRA BSGC postQMT?

No se conoce estado axilar de inicio:
Factor pronóstico?

Alta tasa de falsos negativos

Menos tasa de identificación



EN CONTRA

NO SE CONOCE ESTADO AXILAR DE INICIO

ESTADO AXILAR FACTOR PRONOSTICO???

Axillary Nodal Management Following Neoadjuvant Chemotherapy

A Review

JAMA Oncol. doi:10.1001/jamaoncol.2016.4163

Published online December 1, 2016.

NSABP B-18
B-24

ENFERMEDAD RESIDUAL EN LA AXILA TRAS
QUIMIOTERAPIA ES UN **FACTOR PREDICTOR DE
RECIDIVA LOCORREGIONAL MAS QUE EL ESTADIAJE
PREVIO AL TTO**

ESTADO GANGLIONAR	RECURRENCIA LOCOREGIONAL
c N1 -> ypN0	<2%
Cn1-> ypN1	9%

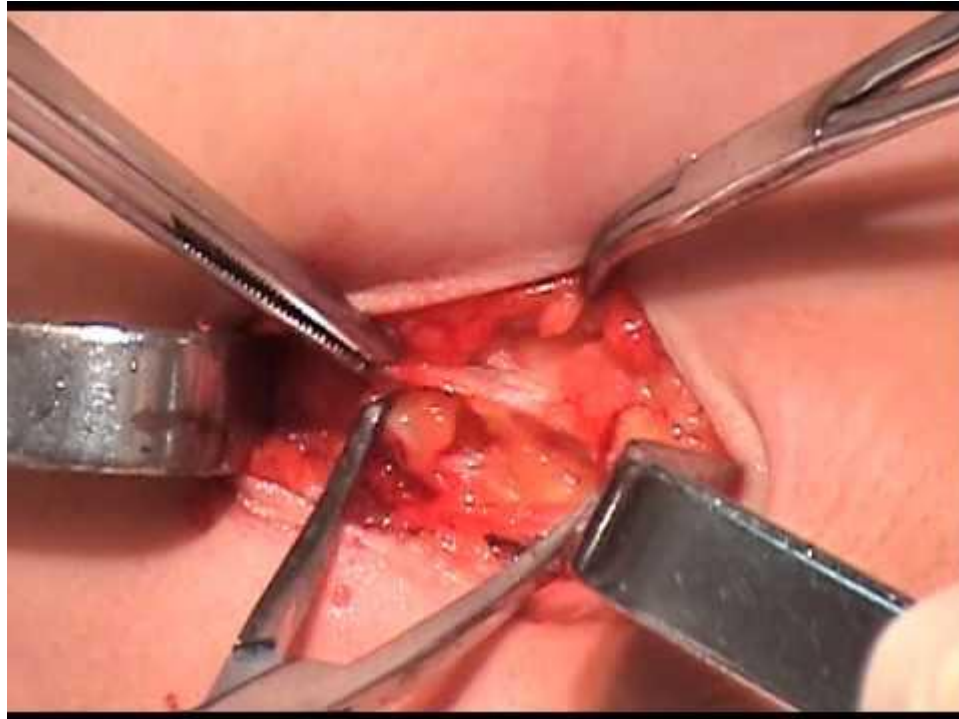
El riesgo de **recidiva locorregional** te lo marcara la **enfermedad residual** tras la qmt



LO IMPORTANTE
NO ES SABER
COMO ERA
LA AXILA DE
INICIO,

SINO AL
FINALIZAR

¿QUE HACEMOS CON LA ENFERMEDAD RESIDUAL ?



PERSISTENCIA DE N+: ENF RESIDUAL

Ann Surg Oncol
<https://doi.org/10.1245/s10434-018-6537-z>

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SURGICAL ONCOLOGY
OFFICIAL JOURNAL OF THE SOCIETY OF SURGICAL ONCOLOGY



EDITORIAL – BREAST ONCOLOGY

9-year period (2008–2017),
BSGC POST QMT

Optimizing Surgical Management of the Axilla After Neoadjuvant Chemotherapy: An Evolving Story

BSGC	G(+) NO CENTINELAS
CELS AISLADAS	17%
MICROMTS	64%
MACROMTS	62%

LINFADENECTOMIA AXILAR SIEMPRE QUE QUEDE TUMOR RESIDUAL



ALTA TASA DE FN

BAJA TASA DE DETECCION

Sentinel-lymph-node biopsy in patients with breast cancer before and after neoadjuvant chemotherapy (SENTINA): a prospective, multicentre cohort study



Thorsten Kuehn, Ingo Bauerfeind, Tanja Fehm, Barbara Fleige, Maik Hausschild, Gisela Helms, Annette Lebeau, Cornelia Liedtke, Gunter von Minckwitz, Valentina Nekliudova, Sabine Schmatloch, Peter Schrenk, Annette Staehler, Michael Untch

Lancet Oncol 2013; 14: 609–18

1113 - JANUARY 20 2015

CLINICAL ONCOLOGY

ORIGINAL REPORT

Clin Oncol Of J Am Soc Clin Oncol. 2015;33:258–264.

Sentinel Node Biopsy After Neoadjuvant Chemotherapy in Biopsy-Proven Node-Positive Breast Cancer: The SN FNAC Study

Jean-François Bejani, Brigitte Poirier, Marl Basfi, Claire M.M. Holloway, Lucas Gaboury, Lucas Sideris, Sarah Matarjian, Angel Armasu, Marjol Bouckenoire, David B. McCreedy, Stephen E. Krop, Isabelle Truj, Andre Liberman, Francis C. Wright, Rami J. Younes, Louise Provencier, Irina Fumoleau, Arilla Ceneroga, and Andre Robitoux

See ascopubs.org/doi/10.1200/JCO.2013.278932

Original Investigation

Sentinel Lymph Node Surgery After Neoadjuvant Chemotherapy in Patients With Node-Positive Breast Cancer: The ACOSOG Z1071 (Alliance) Clinical Trial

JAMA. 2013;310(14):1455-1461. doi:10.1001/jama.2013.278932

Published online October 7, 2013.

Current Management of the Axilla

TABLE 2. Randomized Trials of Sentinel Lymph Node Biopsy After Neoadjuvant Systemic Therapy in Patients With Biopsy-Proven Axillary Lymph Node Metastases at Presentation

Study and Year	No. of Patients	SLNB Identified (%)	Average SLN Removed	Patients With ≥ 3 SLNs Removed (%)	Overall (%)	False-Negative Rate (%)			
						1 SLN	2 SLN	≥ 3 SLN	Dual Mapping
Z1071 (2013)	689	93	3.1	56	13	—	21	0	11
SENTINA Arm C (2013)	592	80	2.5	34	15	24	19	5	9
SN-FNAC (2014)	145	88	2.7	—	8	18	5*	—	5
Total [n/N (%)]	1426	1240/1426 (87)	2.8	589/1281 (46)	78/619 (13)	21/92 (23)	46/270 (17)	40/490 (8)	65/645 (10)

BSGC POST QMT en g(+) -> g(-) post Qmt , FN < 5 si doble marcaje y 3 GC

MARCAJE DE ganglio axilar + pre QMT y cirugía posterior ↓ FN 4%

N1 TRATADO CON QMT NEOADYUVANTE

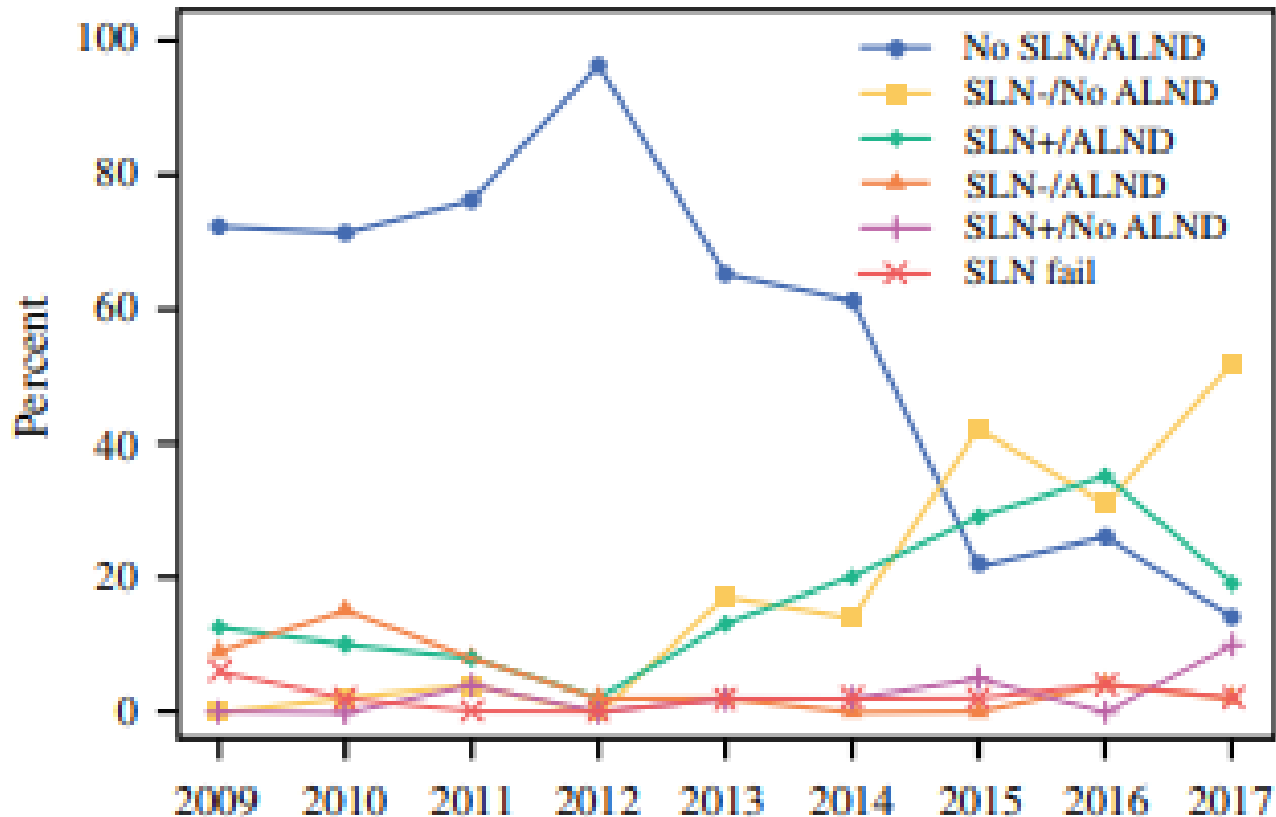
Ann Surg Oncol (2018) 25:2596–2602
<https://doi.org/10.1245/s10434-018-6637-9>

Annals of
SURGICAL ONCOLOGY
OFFICIAL JOURNAL OF THE SOCIETY OF SURGICAL ONCOLOGY



ORIGINAL ARTICLE – BREAST ONCOLOGY

Decreasing Use of Axillary Dissection in Node-Positive Breast Cancer Patients Treated with Neoadjuvant Chemotherapy



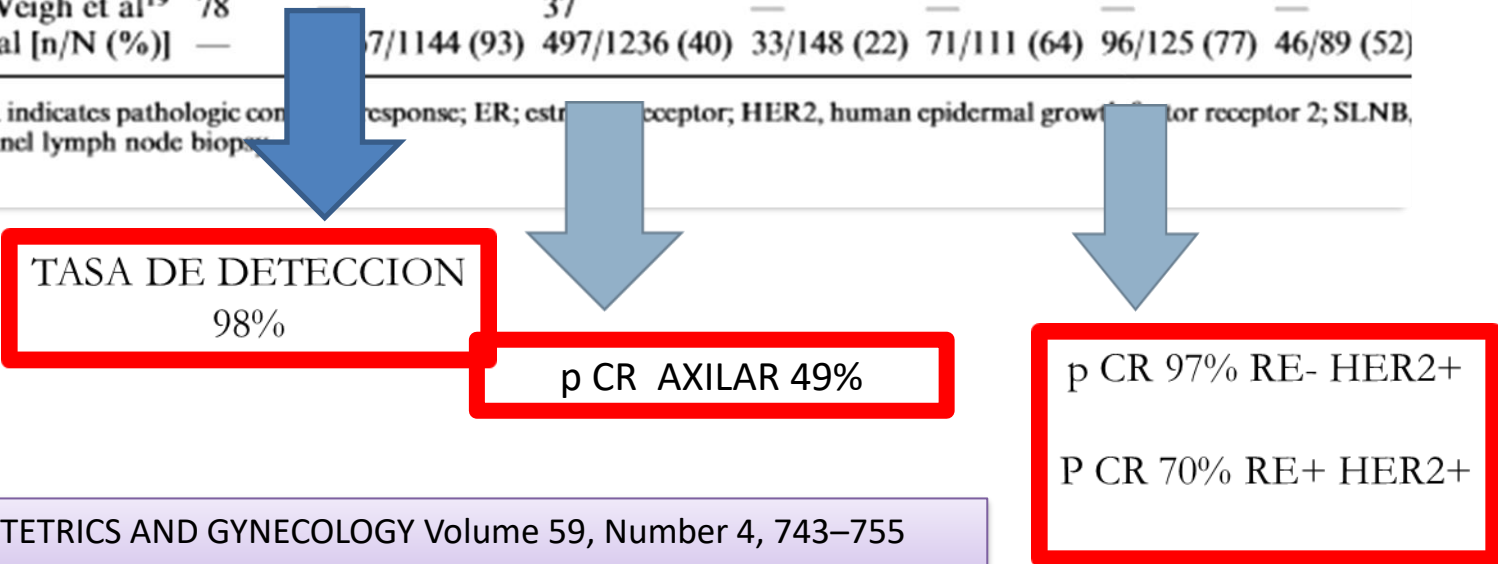
Ann Surg Oncol (2018) 25:2596–2602

Current Management of the Axilla

TABLE 1. Axillary Pathologic Complete Response Rates in Patients With Biopsy-Proven Axillary Lymph Node Metastases After Neoadjuvant Systemic Therapy

References	No. of Patients	SLNB Success Rate (%)	Axillary pCR (%)	Molecular Subtype (%)			
				ER+ HER2-	ER+ HER2+	ER- HER2+	ER- HER2-
Mamtami et al ¹³	195	98	49	21	70	97	47
Park et al ¹⁴	178	95	41	24	52	52	59
Dominici et al ¹⁵	109	—	—	—	67	79	—
Boughey et al ¹⁶	689	93	40	—	—	—	—
Yagata et al ¹⁷	95	85	33	—	—	—	—
Newman et al ¹⁸	54	98	32	—	—	—	—
McVeigh et al ¹⁹	78	—	37	—	—	—	—
Total [n/N (%)]	—	7/1144 (93)	497/1236 (40)	33/148 (22)	71/111 (64)	96/125 (77)	46/89 (52)

pCR indicates pathologic complete response; ER, estrogen receptor; HER2, human epidermal growth factor receptor 2; SLNB, sentinel lymph node biopsy.



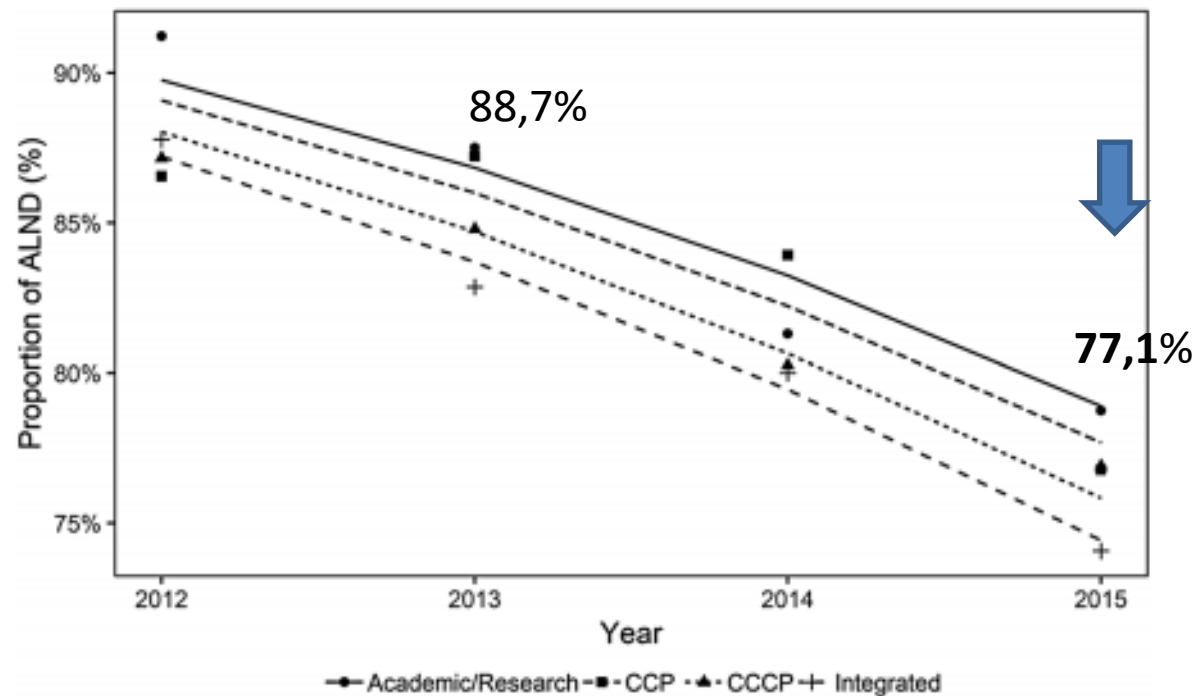
How Often Does Neoadjuvant Chemotherapy Avoid Axillary Dissection in Patients With Histologically Confirmed Nodal Metastases? Results of a Prospective Study

- BSGC tras neoadyuvancia en pacientes cN1 evita linfadenectomías en hasta 48% de los casos
- Particularmente en TN y HER2+



ORIGINAL ARTICLE – BREAST ONCOLOGY

Patterns in the Use of Axillary Operations for Patients with Node-Positive Breast Cancer After Neoadjuvant Chemotherapy: A National Cancer Database (NCDB) Analysis



EN CONTRA BSGC postQMT?

ENFERMEDAD RESIDUAL EN LA AXILA TR
QUIMIOTERAPIA ES UN **FACTOR**
PREDICTOR DE RECIDIVA
LOCORREGIONAL MAS QUE EL ESTADIA
PREVIO AL TTO

No se conoce estado axilar de inicio:
Factor pronostico?

X

Alta tasa de falsos negativos

FN 4%

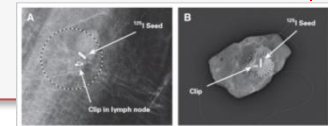


-Isótopo y/o Colorante
-Clipado del ganglio patológico
-¹²⁵I

TD: 100%

X

Menos tasa de identificación



X

GUIAS



National
Comprehensive
Cancer
Network®

NCCN Guidelines Version 3.2019
Invasive Breast Cancer

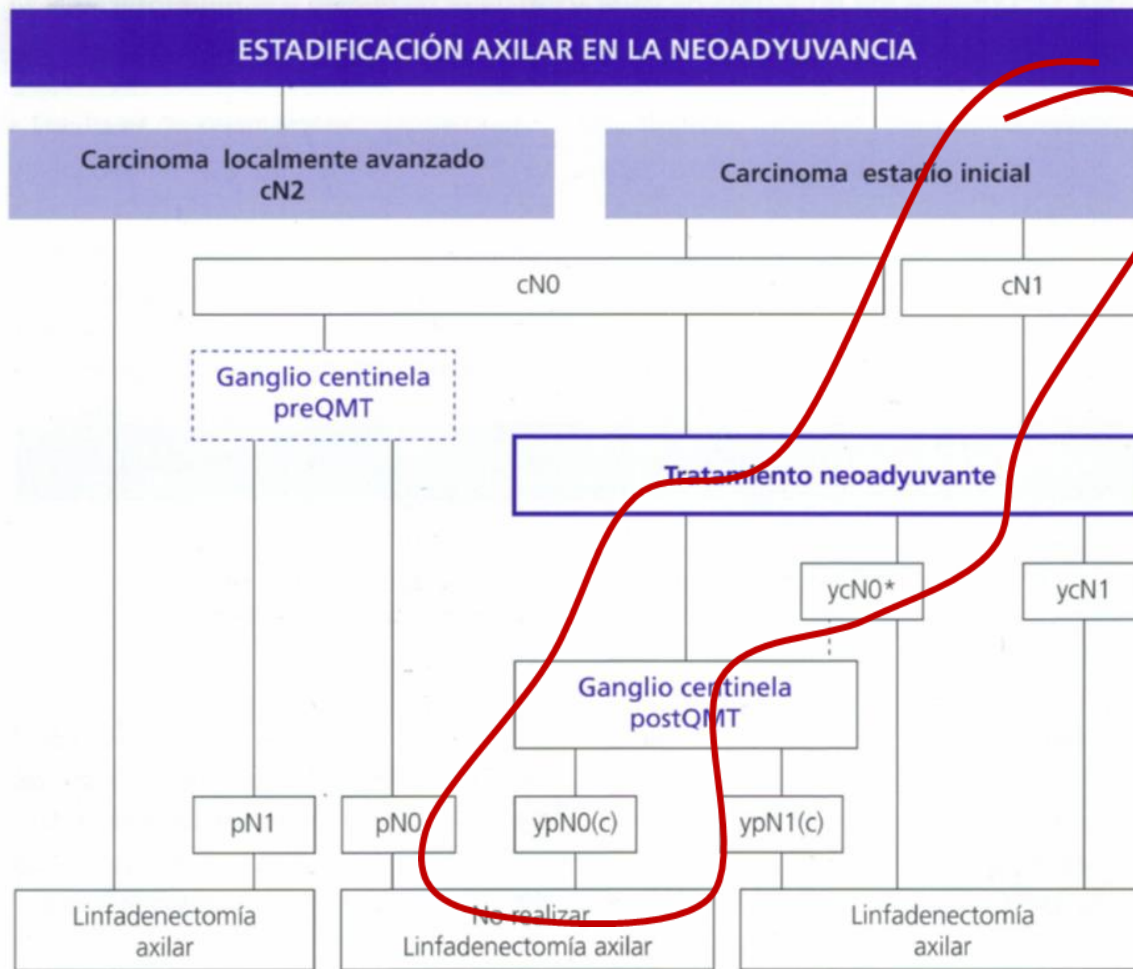


**Sociedad Española
de Senología y Patología Mamaria**

Oncoguía
**Cáncer
infiltrante
de Mama
2017**
SEGO



Algoritmo 9



* Recomendación: Optimizar la técnica mediante localización prequirúrgica de los ganglios y disección axilar dirigida (Exéresis de ganglios centinela + ganglios marcados) o ganglio centinela con doble método (colorante y tecnecio) o intentar exéresis de al menos 2 ganglios. (53,74,75)

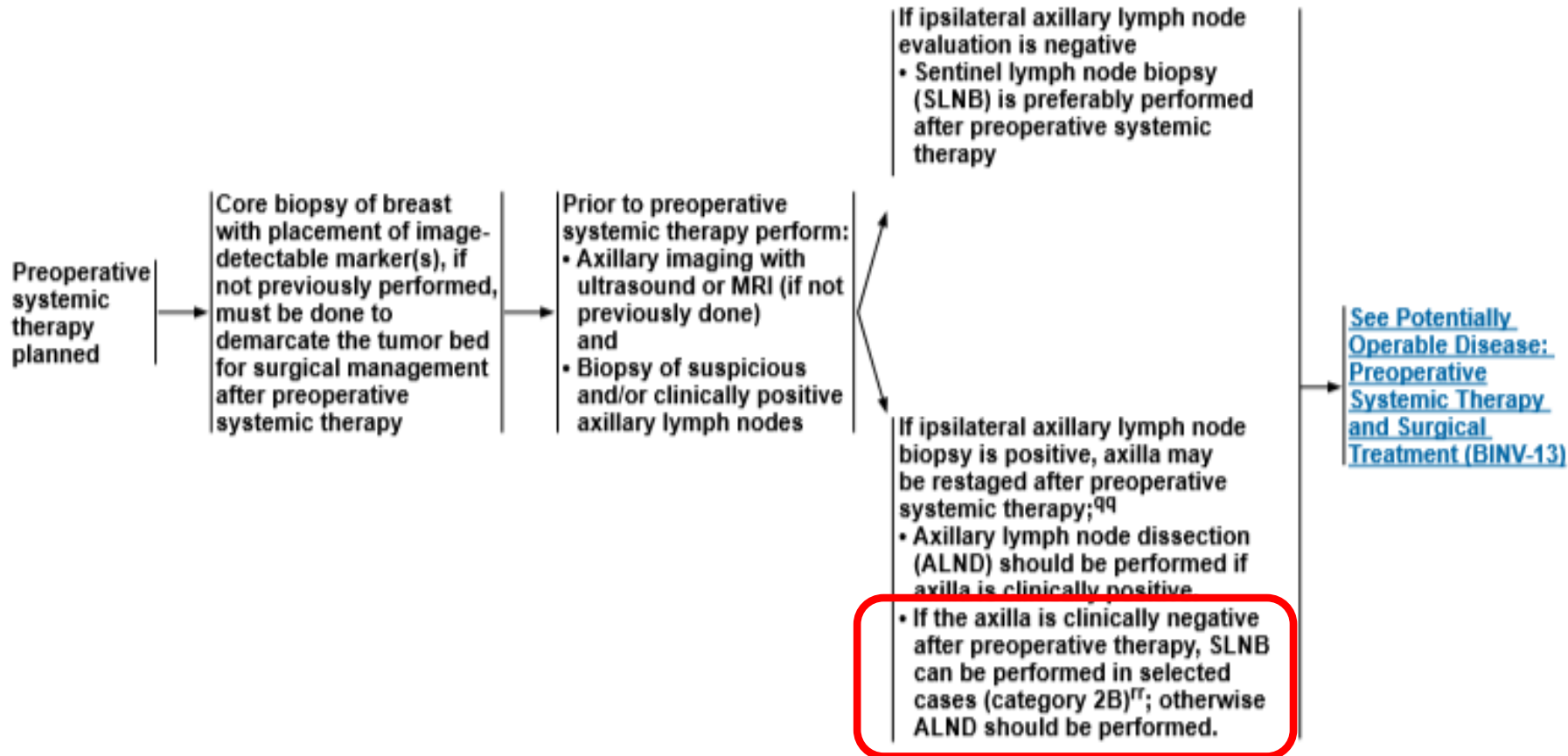
REVISIÓN

Consenso sobre la biopsia selectiva del ganglio centinela en el cáncer de mama. Revisión 2013 de la Sociedad Española de Senología y Patología Mamaria[☆]

D. Consideraciones especiales

1. En pacientes con axila clínica / ecográficamente negativa de inicio (cN0), puede realizarse la BSGC tanto previo al tratamiento sistémico primario como posterior al mismo²⁵⁻³² (evidencia 1+).
2. En pacientes cN1/N2 de inicio con negativización clínica y ecográfica de la axila tras la neoadyuvancia (cyN0), puede realizarse la BSGC después del tratamiento sistémico primario y evitar la linfadenectomía axilar cuando el GC sea negativo (evidencia 1-). No obstante, series recientes aportan resultados controvertidos al respecto por la alta tasa de falsos negativos secundarios a la terapia sistémica primaria²⁶⁻³⁵.

POTENTIALLY OPERABLE DISEASE: BREAST AND AXILLARY EVALUATION PRIOR TO PREOPERATIVE SYSTEMIC THERAPY



⁹⁹ Marking of sampled axillary nodes with a tattoo or clip should be considered to permit verification that the biopsy-positive lymph node has been removed at the time of definitive surgery.

^{††} Among patients shown to be node positive prior to preoperative systemic therapy, SLNB has a >10% false-negative rate when performed after preoperative systemic therapy. This rate can be improved by marking biopsied lymph nodes to document their removal, using dual tracer, and by removing more than 2 sentinel nodes.



des

If ipsilateral axillary lymph node biopsy is positive, axilla may be restaged after preoperative systemic therapy;⁹⁹

- Axillary lymph node dissection (ALND) should be performed if axilla is clinically positive.

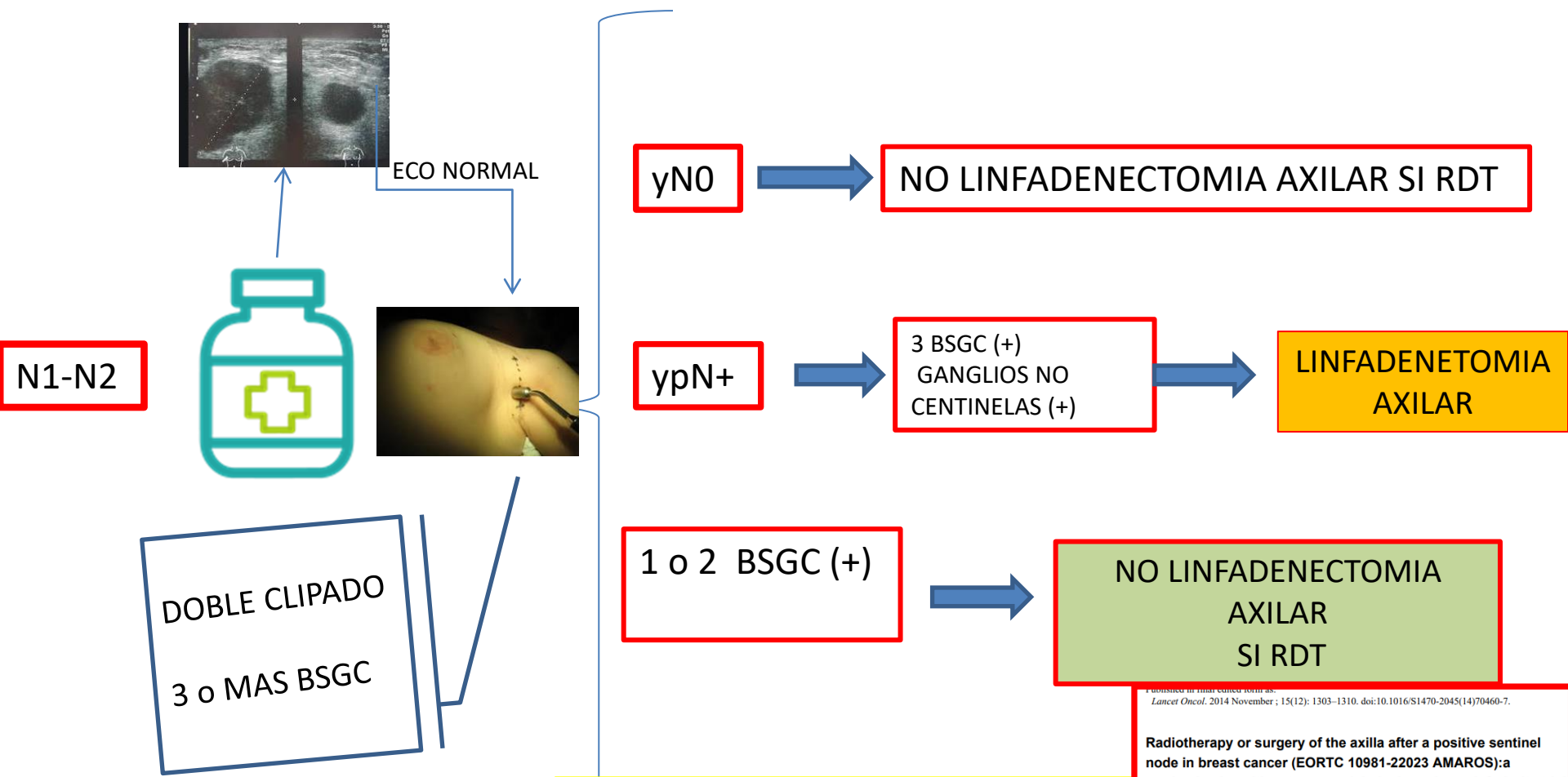
- If the axilla is clinically negative after preoperative therapy, SLNB can be performed in selected cases (category 2B)^{††}; otherwise ALND should be performed.

and Surgical Treatment (BINV-13)

**DOBLE MARCADO
>2 GC**

^{††} Among patients shown to be node positive prior to preoperative systemic therapy, SLNB has a >10% false-negative rate when performed after preoperative systemic therapy. This rate can be improved by marking biopsied lymph nodes to document their removal, using dual tracer, and by removing more than 2 sentinel nodes.

GANGLIOS (+) QMT NEOAD BSGC



Sentinel-lymph-node biopsy in patients with breast cancer before and after neoadjuvant chemotherapy (SENTINA): a prospective, multicentre cohort study

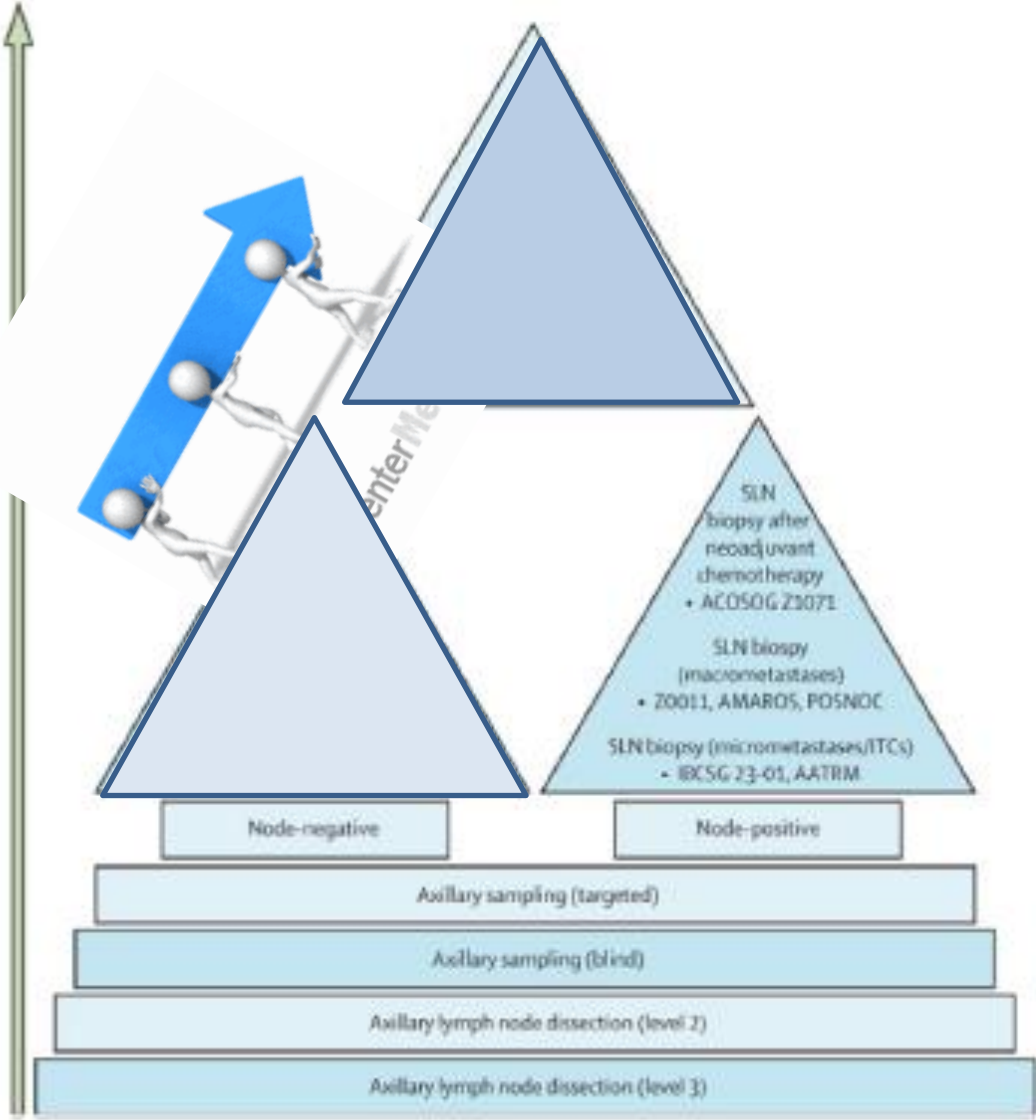
Original Investigation

Sentinel Lymph Node Surgery After Neoadjuvant Chemotherapy in Patients With Node-Positive Breast Cancer: The ACOSOG Z1071 (Alliance) Clinical Trial

Published in *Lancet Oncol.* 2014 November ; 15(12): 1303–1310. doi:10.1016/S1470-2045(14)70460-7.

Radiotherapy or surgery of the axilla after a positive sentinel node in breast cancer (EORTC 10981-22023 AMAROS): a randomised, multicentre, open-label, phase 3 non-inferiority trial

NO BSGC



CANDIDATA A CIRUGIA PRIMARIA

CANDIDATA A QMT /HTP neoadyuvante

Inserción de marcador en el ganglio/s (2 o 3)

Ecografía post neoadyuvancia

Persisten ganglios
Sospechosos
No respuesta clínica

Ecografía Normal
RC o >50%

TAD
BSGC+exeresis de
ganglios
marcado
Doble método
Exeresis >_3 ganglios

pN1 mi
pN1

pN0
pN0(+)

Linfadenectomía axilar

No Linfadenectomía axilar

RDT mama, pared torácica y cadenas ganglionares según protocolo+Tratamiento sistémico



**¿QUIENES DE LA SALA NO
REALIZAN LINFADENECTOMIA
AXILAR
TRAS BSGC POSTQMT CON
GANGLIOS NEGATIVOS?**



Viewpoints and debate

Abandoning sentinel lymph node biopsy in early breast cancer? A new trial in progress at the European Institute of Oncology of Milan (SOUND: Sentinel node vs Observation after axillary UltraSouND)

Oreste Gentilini*, Umberto Veronesi

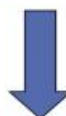
680

O. Gentilini, U. Veronesi / The Breast 21 (2012) 678–681

Trial SOUND

Sentinel node vs Observation after axillary Ultra-souND

- Patients with breast cancer ≤ 2.0 cm
 - Any age
- Candidates to Breast Conserving Surgery
- Negative preoperative axillary assessment (negative ultra-sound of the axilla or negative FNAC of a single doubtful axillary lymph node)



Randomization



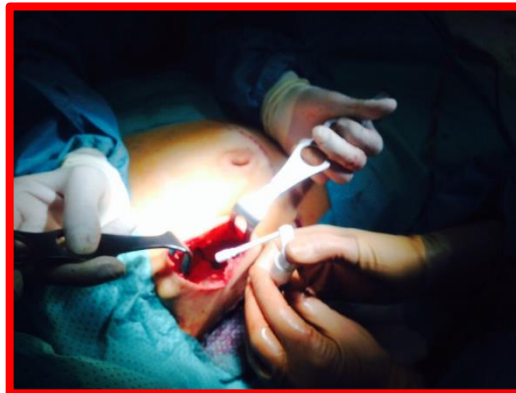
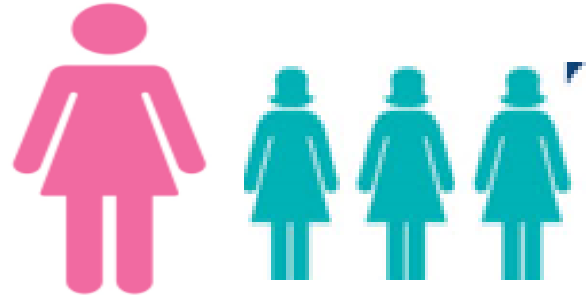
SNB policy No axillary surgery

Fig. 1. SOUND trial: study design.

NO BSGC



NUESTRA EXPERIENCIA: MANEJO AXILA



DIFICULTAD DE BSGC EN HOSPITAL NIVEL 2



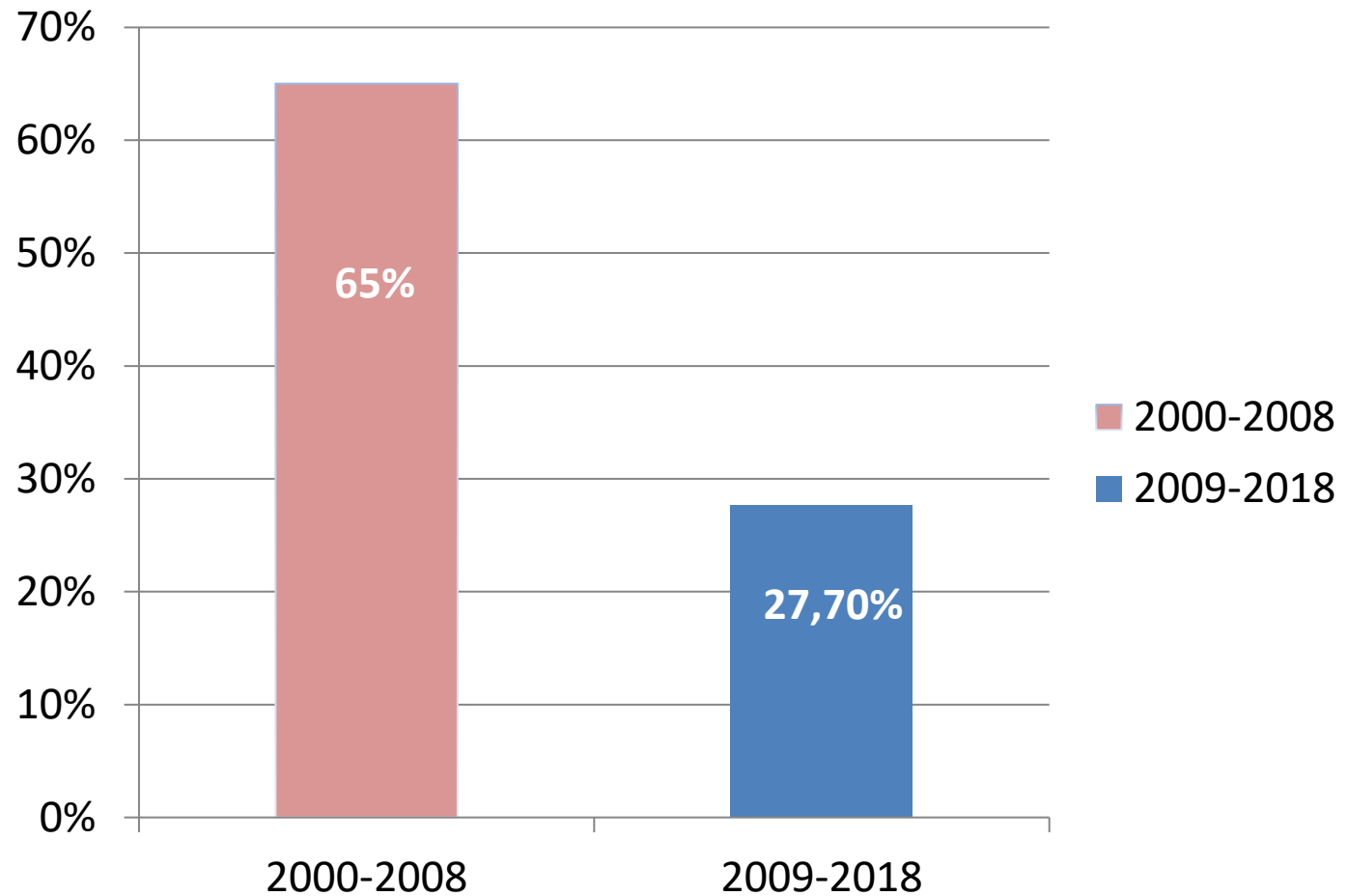
- REMISION A OTRO CENTRO
- TRASLADO DE LA PACIENTE
- TIEMPO DESDE LA INYECCION DEL TECNECIO Y CIRUGIA
- MIGRACION DE BSGC

EVOLUCION DEL MANEJO DE AXILA

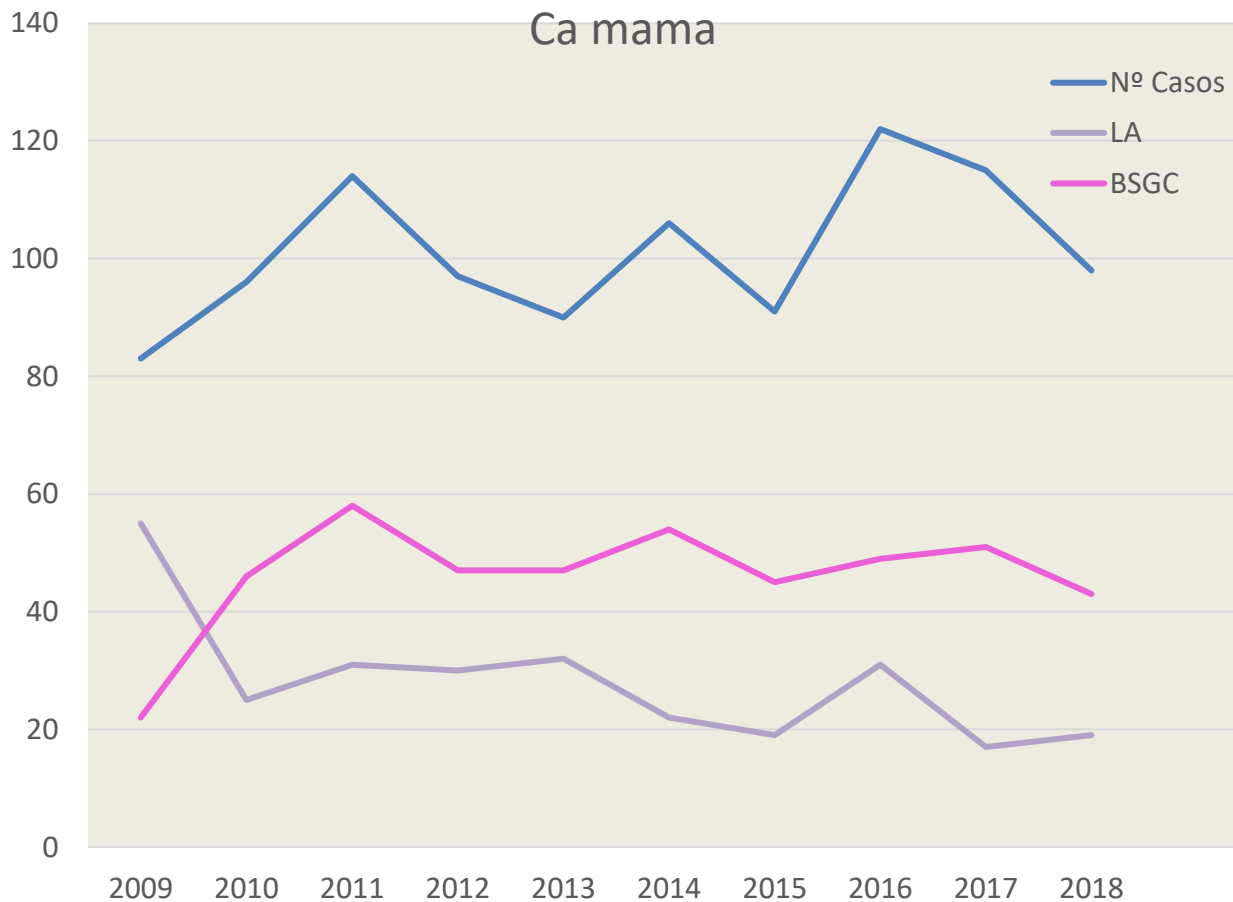
	2000-2008	2009-2018
Nº TOTAL	650	1012
LINFADENECTOMIAS AXILARES	423 (65%)	281 (27,7%)
BSGC	6	462

EVOLUCION DEL MANEJO DE AXILA

LINFADENECTOMIAS AXILARES



EVOLUCION AXILA



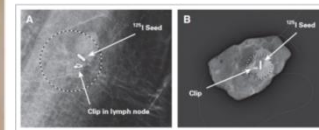
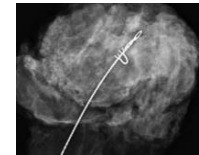
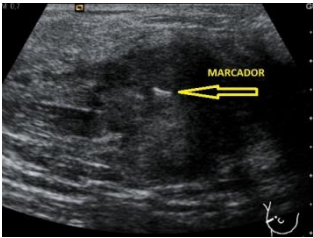
↑
↑
Introd. BSGC

↑
↑
No LA si BSGC(-)

↑
ACOSOG






↑
BSGC postQMT

N1 PREQMT



PACIENTE	TIPO TUMOR	ESTADIAJE PREQMT	RESPUESTA Grado Myller	GANGLIOS	ESTADIAJE POSQMT pyTNM
1	TN	T2N2M0	3	BSGC:MICROMTS RESTO G(-)	T1cN1mic
2	LUMINAL B	T2N1M0	4	NEGATIVOS	T1a
3	HER2 PURO	T2N1M0	5	BSGC('') LA: 2 MICROMTS	T0N1mic
4	HER2 PURO	T3N1M0	5	NEGATIVOS	T0N0M0
5	HER2 LUMINAL	T2N3M0	5	NEGATIVOS	T1SN0M0

Clasificación miller y payne: respuesta patológica local

	G1 Sin cambios en celularidad tumoral invasiva
	G2 Reducción < 30%
	G3 Reducción entre 30% - 90%
	G4 Reducción > 90%
	G5 Ausencia de células tumorales infiltrantes

**N1 +CLIPADO+ QMT+BSGC+ARPN
+LINFADENECTOMIA AXILAR**

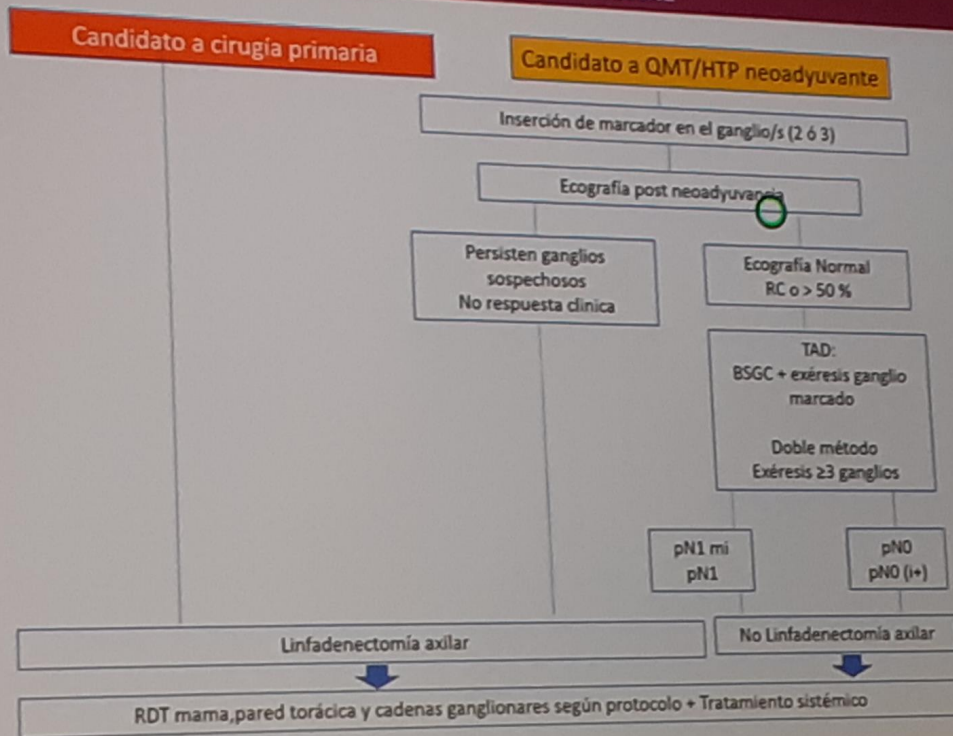


agomezca@saludcastillayleon.es

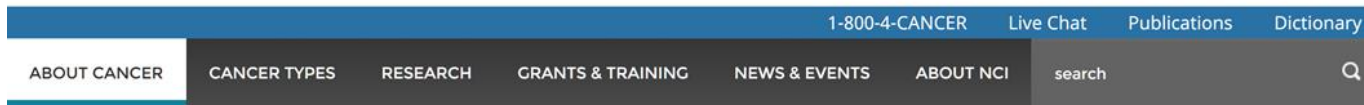
Dra. Gómez Calvo
SERVICIO DE GINECOLOGIA
Hospital General de Segovia



MANEJO AXILAR EN CÁNCER DE MAMA cN1



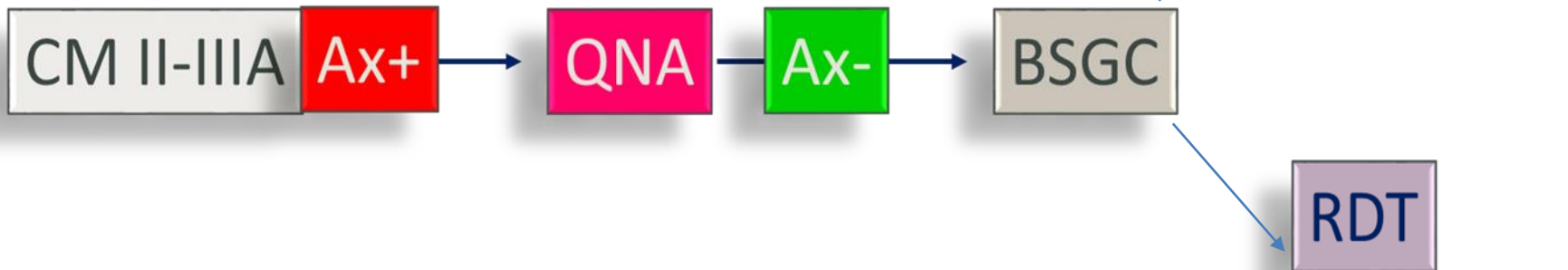
Alliance A011202



Home > About Cancer > Cancer Treatment > Clinical Trials Information > Find NCI-Supported Clinical Trials



Lymph Node Dissection and Radiation Therapy in Treating Patients with Breast Cancer Previously Treated with Chemotherapy and Surgery



NSABP CLINICAL TRIALS OVERVIEW

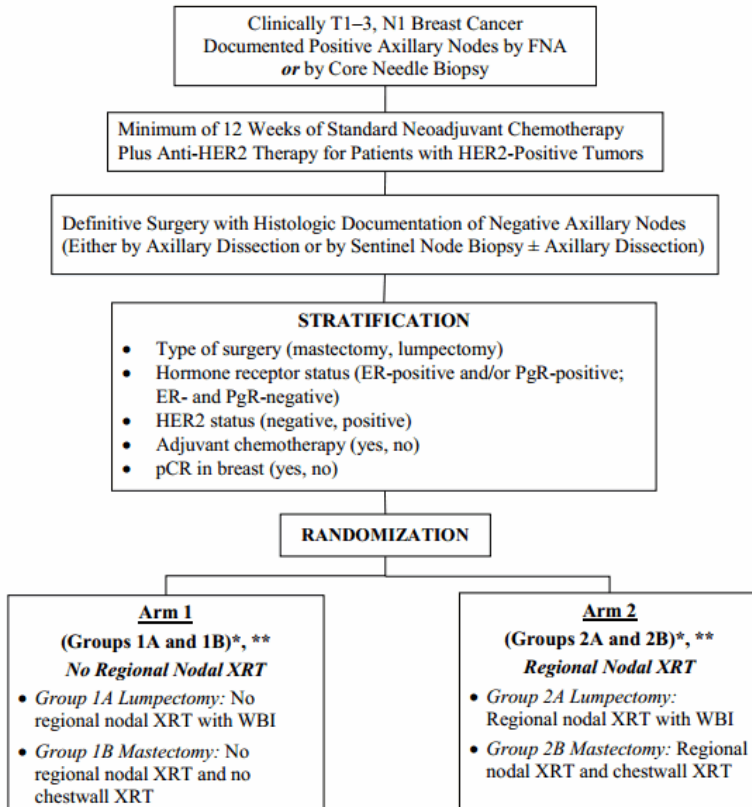
PROTOCOL B-51

A Randomized Phase III Clinical Trial Evaluating Post-Mastectomy Chestwall and Regional Nodal XRT and Post-Lumpectomy Regional Nodal XRT in Patients with Positive Axillary Nodes Before Neoadjuvant Chemotherapy Who Convert to Pathologically Negative Axillary Nodes After Neoadjuvant Chemotherapy

Primary Aim

To evaluate whether the addition of chestwall + regional nodal XRT after mastectomy or breast + regional nodal XRT after breast conserving surgery will significantly reduce the rate of events for invasive breast cancer recurrence-free interval (IBC-RFI) in patients who present with histologically positive axillary nodes but convert to histologically negative axillary nodes following neoadjuvant chemotherapy.

NSABP B-51/RTOG 1304 Schema



* Patients will be randomized to one of the following:

- Arm 1

GICOR

OPTIMAL IIa Study

PROTOCOLO DEL ESTUDIO

Promotor	Grupo de Investigación Clínica en Oncología Radioterápica (GICOR)
Protocolo	GIC – RAD – 2016 - 01
Producto	No aplicable
Título	Optimización de la radiación a través de la Evaluación Molecular de ganglios linfáticos después del tratamiento sistémico primario (OPTIMAL IIa)
Versión	1.1
Fecha	21/6/2016

FINALIZADO 2028



Revista de Senología y Patología Mamaria

www.elsevier.es/senologia



EDITORIAL

Manejo de la axila en el cáncer de mama: menos es más, más es menos o todo lo contrario



Management of the axilla in breast cancer: Less is more, more is less or the other way around

MANEJO AXILAR EN CÁNCER DE MAMA cN1

Candidato a cirugía primaria

Candidato a QMT/HTP neoadyuvante

Inserción de marcador en el ganglio/s (2 ó 3)

Ecografía post neoadyuvancia

Persisten ganglios sospechosos
No respuesta clínica

Ecografía Normal
RC \geq 50 %

TAD:
BSGC + exéresis ganglio marcado

Doble método
Exéresis \geq 3 ganglios

pN1 mi
pN1

pN0
pN0 (+)

Linfadenectomía axilar

No Linfadenectomía axilar

RDT mama, pared torácica y cadenas ganglionares según protocolo + Tratamiento sistémico

GUIAS

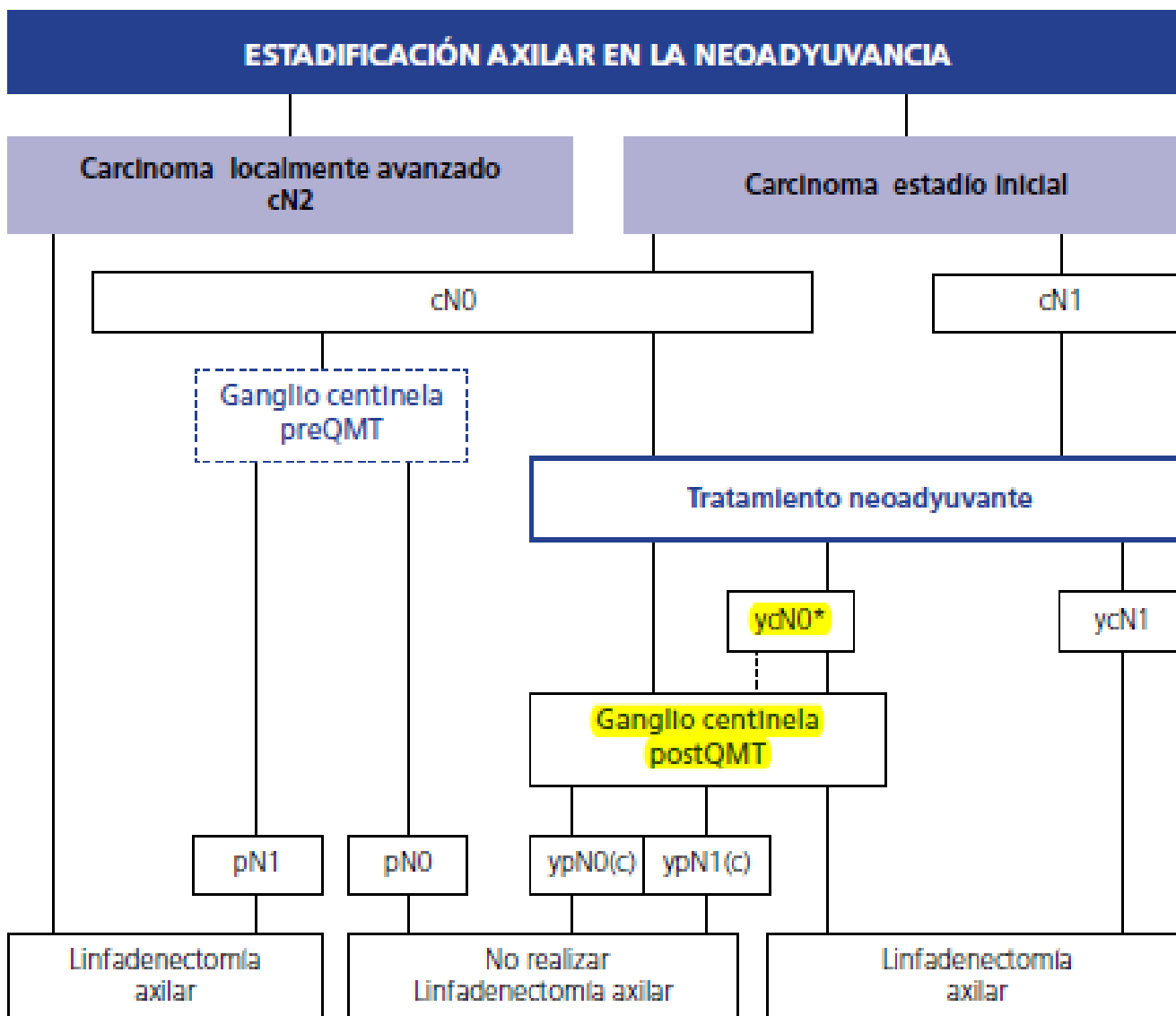
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National
Comprehensive
Cancer
Network®

NCCN Guidelines Version 1.2018
Invasive Breast Cancer

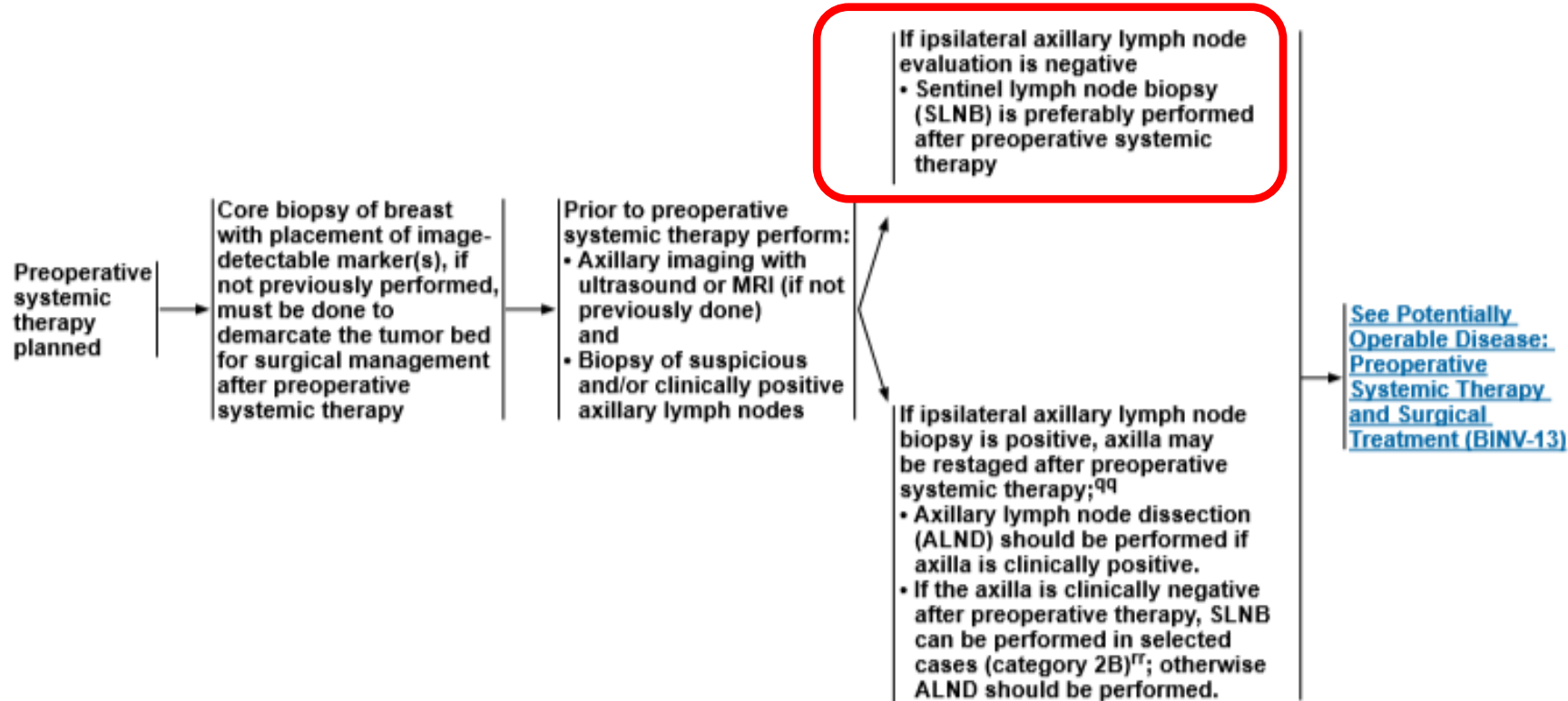




* Recomendación: Optimizar la técnica mediante localización prequirúrgica de los ganglios y disección axilar dirigida (Exéresis de ganglios centinela + ganglios marcados) o ganglio centinela con doble método (colorante y tecnecio) o intentar exéresis de al menos 2 ganglios. (53,74,75)



POTENTIALLY OPERABLE DISEASE: BREAST AND AXILLARY EVALUATION PRIOR TO PREOPERATIVE SYSTEMIC THERAPY



⁹⁹ Marking of sampled axillary nodes with a tattoo or clip should be considered to permit verification that the biopsy-positive lymph node has been removed at the time of definitive surgery.

¹⁷ Among patients shown to be node positive prior to preoperative systemic therapy, SLNB has a >10% false-negative rate when performed after preoperative systemic therapy. This rate can be improved by marking biopsied lymph nodes to document their removal, using dual tracer, and by removing more than 2 sentinel nodes.



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ScienceDirect

EJSO 42 (2016) 361–368

EJSO

the Journal of Cancer Surgery

www.ejsso.com

Sentinel node biopsy after neoadjuvant treatment in breast cancer: Five-year follow-up of patients with clinically node-negative or node-positive disease before treatment



- ✘ SLE a 5 años >90% (93.3% en cN0 de inicio y 86.3% en las que eran cN1/2)
- ✘ La negatividad del ganglio centinela es un factor predictivo de buen pronostico

Original Investigation

Sentinel Lymph Node Surgery After Neoadjuvant Chemotherapy in Patients With Node-Positive Breast Cancer The ACOSOG Z1071 (Alliance) Clinical Trial

JAMA. 2013;310(14):1455-1461. doi:10.1001/jama.2013.278932

Published online October 7, 2013.

DUDAS DE PONER AQUÍ??



HHS Public Access

Author manuscript

Ann Surg. Author manuscript; available in PMC 2017 April 01.

Published in final edited form as:

Ann Surg. 2016 April ; 263(4): 802–807. doi:10.1097/SLA.0000000000001375.

Identification and resection of the clipped node decreases the false negative rate of sentinel lymph node surgery in patients presenting with node positive breast cancer (T0-T4, N1-2) who receive neoadjuvant chemotherapy – results from ACOSOG Z1071 (Alliance)

false-negative rate decreased to 6.8%

QUITAR?

Improved Axillary Evaluation Following Neoadjuvant Therapy for Patients With Node-Positive Breast Cancer Using Selective Evaluation of Clipped Nodes: Implementation of Targeted Axillary Dissection

Abigail S. Caudle, Wei T. Yang, Savitri Krishnamurthy, Elizabeth A. Mittendorf, Dalliah M. Black, Michael Z. Gilcrease, Isabelle Bedrosian, Brian P. Hobbs, Sarah M. DeSnyder, Rosa F. Hwang, Beatriz E. Adrada, Simona F. Shaitelman, Mariana Chavez-MacGregor, Benjamin D. Smith, Rosalind P. Candelaria, Gildy V. Babiera, Basak E. Dogan, Lumarie Santiago, Kelly K. Hunt, and Henry M. Kuerer

ABSTRACT

Purpose

Placing clips in nodes with biopsy-confirmed metastasis before initiating neoadjuvant therapy allows for evaluation of response in breast cancer. Our goal was to determine if pathologic changes in clipped nodes reflect the status of the nodal basin and if targeted axillary dissection (TAD), which includes sentinel lymph node dissection (SLND) and selective localization and removal of clipped nodes, improves the false-negative rate (FNR) compared with SLND alone.

Methods

A prospective study of patients with biopsy-confirmed nodal metastases with a clip placed in the sampled node was performed. After neoadjuvant therapy, patients underwent axillary surgery and the pathology of the clipped node was compared with other nodes. Patients undergoing TAD had SLND and selective removal of the clipped node using iodine-125 seed localization. The FNR was determined in patients undergoing complete axillary lymphadenectomy (ALND).

Results

Of 208 patients enrolled in this study, 191 underwent ALND, with residual disease identified in 120 (63%). The clipped node revealed metastases in 115 patients, resulting in an FNR of 4.2% (95% CI, 1.4 to 9.5) for the clipped node. In patients undergoing SLND and ALND ($n = 118$), the FNR was 10.1% (95% CI, 4.2 to 19.8), which included seven false-negative events in 69 patients with residual disease. Adding evaluation of the clipped node reduced the FNR to 1.4% (95% CI, 0.03 to 7.3; $P = .03$). The clipped node was not retrieved as an SLN in 23% (31 of 134) of patients, including six with negative SLNs but metastasis in the clipped node. TAD followed by ALND was performed in 85 patients, with an FNR of 2.0% (1 of 50; 95% CI, 0.05 to 10.7).

Conclusion

Marking nodes with biopsy-confirmed metastatic disease allows for selective removal and improves pathologic evaluation for residual nodal disease after chemotherapy.

J Clin Oncol 34. © 2016 by American Society of Clinical Oncology

All authors: The University of Texas MD Anderson Cancer Center, Houston, TX.

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Terms in [blue](#) are defined in the glossary, found at the end of this article and online at www.jco.org.

Presented at the 68th Society of Surgical Oncology Annual Cancer Symposium, Houston, TX, March 25-28, 2015.

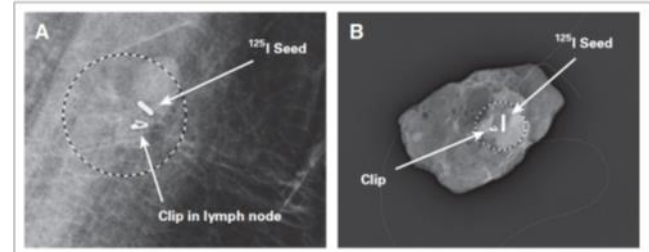
Authors' disclosures of potential conflicts of interest are found in the article online at www.jco.org. Author contributions are found at the end of this article.

Corresponding author: Henry M. Kuerer, MD, PhD, MD Anderson Cancer Network, Department of Breast Surgical Oncology, The University of Texas MD Anderson Cancer Center, 1400 Pressler St, Unit 1434, Houston, TX 77030; e-mail: hkuerer@mdanderson.org.

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-Isótopo y/o Colorante
-Clipado del ganglio patológico
-¹²⁵I

TD: 100%



Introducción

ESTATUS AXILAR → Factor pronóstico importante

ESTADIFICACIÓN TUMOR Y AXILA → Decisión tratamiento

Halsted
Cirugía radical
LINFADENECTOMIA

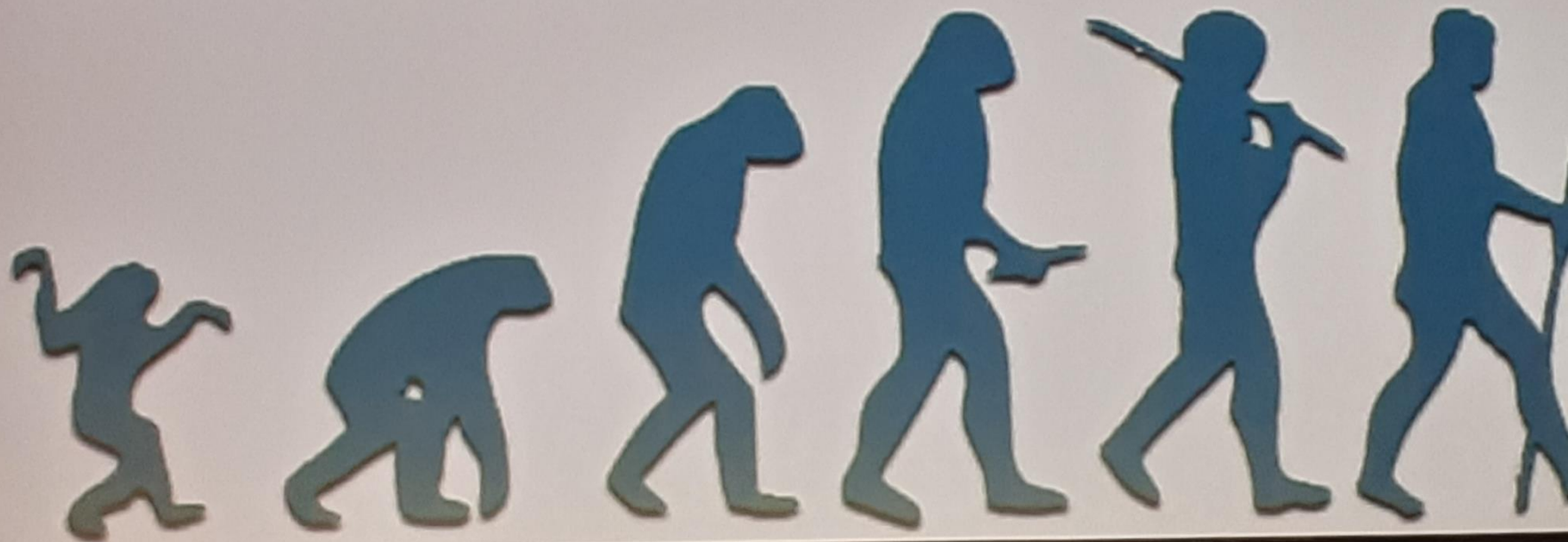
D.Krag 1993
BSGC+
LINFADENECTOMIA

ACOSOG 20011
AMAROS (2013)

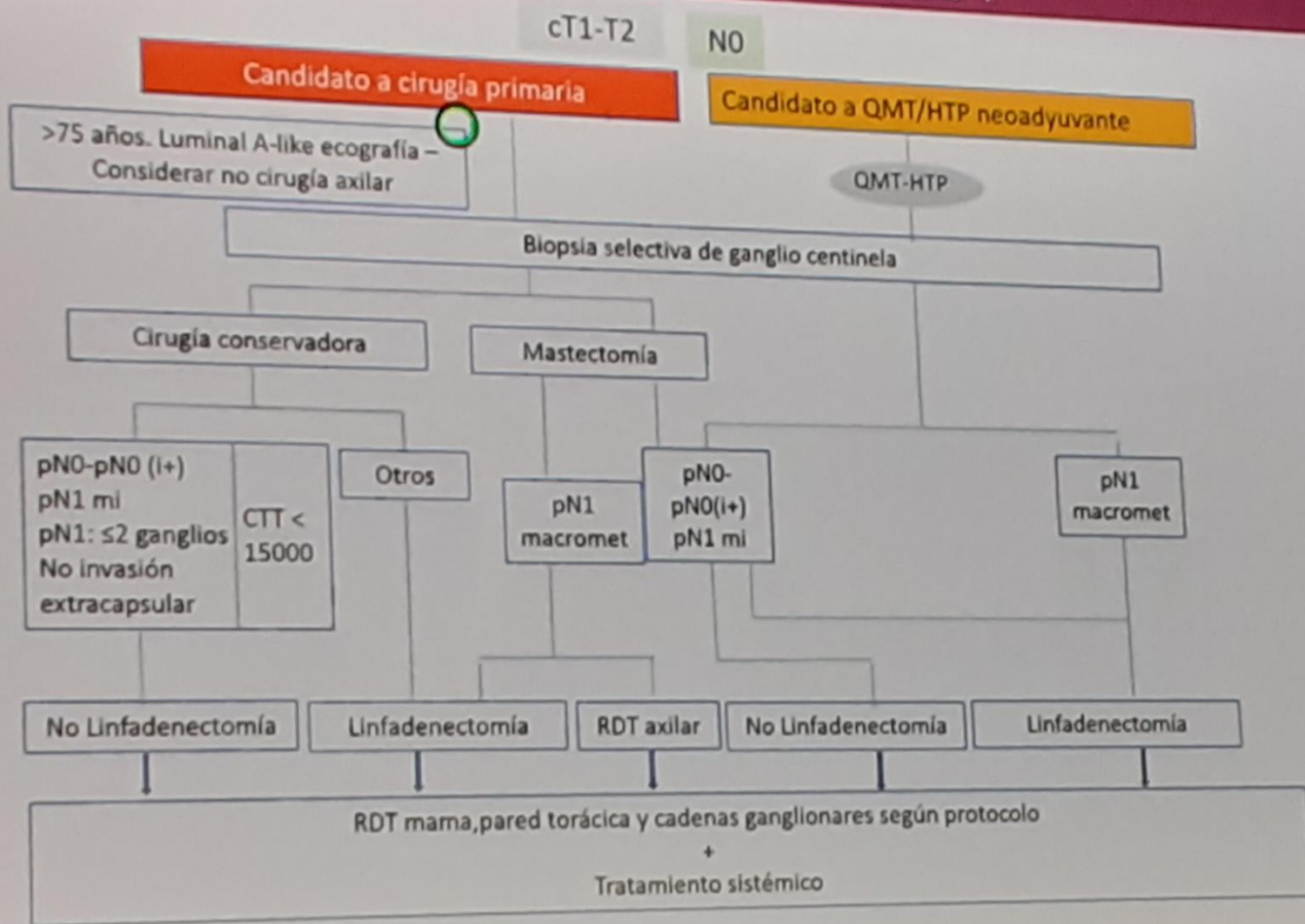
Biología tumoral
Neoadyuvancia

?

?



MANEJO AXILAR EN CÁNCER DE MAMA INICIAL - I



MANEJO AXILAR EN CÁNCER DE MAMA INICIAL - II

cT3

NO

Candidato a cirugía primaria

Candidato a QMT/HTP neoadyuvante

Biopsia selectiva del ganglio centinela

pN0-pN0(i+)
pN1 mi

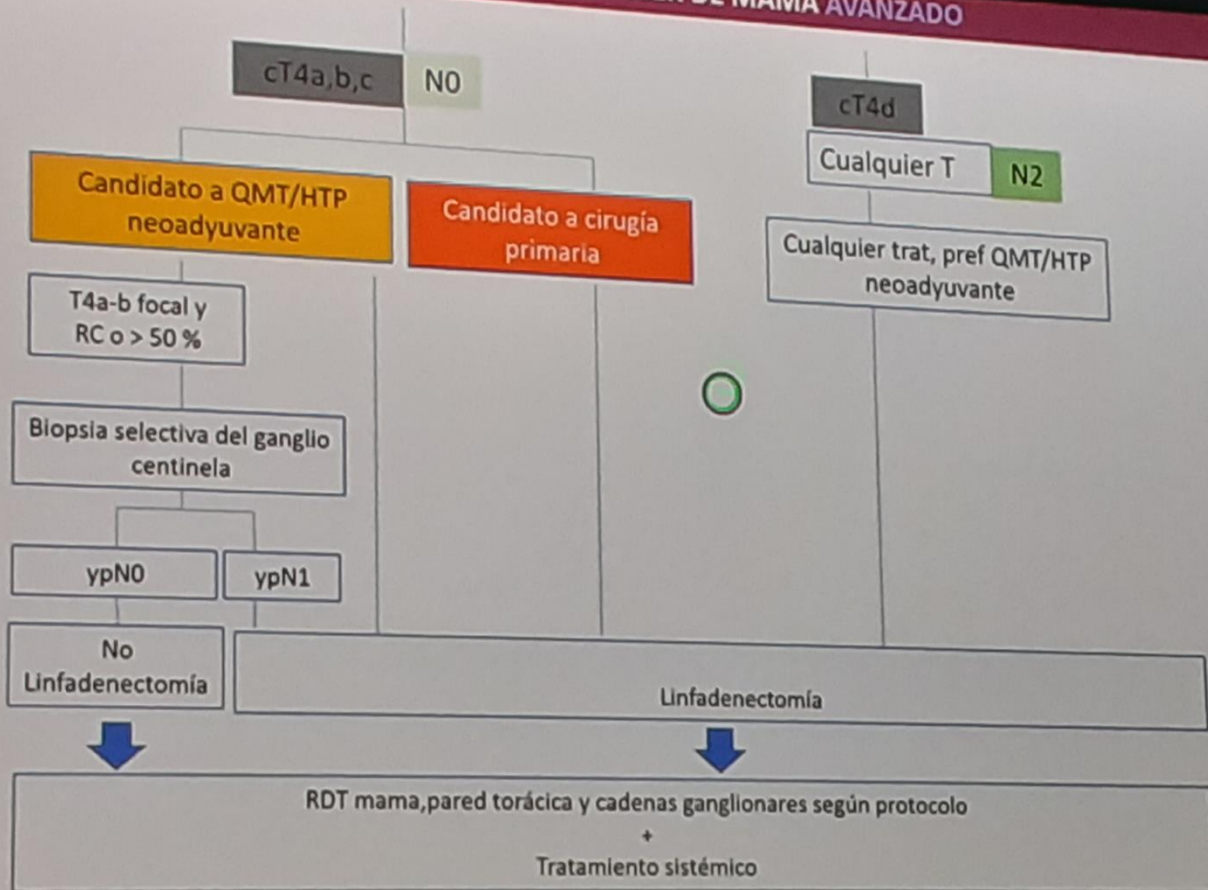
No
Linfadenectomía

pN1

Linfadenectomía

RDT mama, pared torácica y cadenas ganglionares según protocolo
+
Tratamiento sistémico

MANEJO AXILAR EN CÁNCER DE MAMA AVANZADO



PERSISTENCIA DE N+: FACTOR PCO

The Breast Journal

ORIGINAL ARTICLE

Are the ACOSOG Z0011 Trial Findings Being Applied to Breast Cancer Patients Undergoing Neoadjuvant Chemotherapy?

Olga Kantor, MD, MS,* Catherine Pesce, MD,^{†,‡} Erik Liederbach, BS,[†] Chi-Hsiung Wang, PhD,[§] David J. Winchester, MD, FACS,^{†,‡} and Katharine Yao, MD, FACS^{†,‡}

**Department of Surgery, University of Chicago Medicine, Chicago, Illinois; †Department of Surgery, NorthShore University HealthSystem, Evanston, Illinois; ‡Pritzker School of Medicine, University of Chicago, Chicago, Illinois; §Center for Biomedical Research Informatics, NorthShore University HealthSystem, Evanston, Illinois*

■ **Abstract:** In 2010, the ACOSOG Z0011 trial showed equivalent survival and recurrence between sentinel lymph node biopsy (SLNB) alone versus axillary lymph node dissection (ALND) for those with a tumor positive sentinel node (SN). We examined national trends in axillary surgery following neoadjuvant chemotherapy (NAC) for clinically node positive disease in the years prior to and after the Z0011 trial publication. 12,063 women with cT1-4N1M0 invasive breast cancer who underwent NAC from 2006 to 2013 and had 1-3 positive nodes on pathology were selected from the National Cancer Data Base. We defined SLNB as 1-4 nodes and ALND as ≥ 10 nodes examined. 2,704 women (22.4%) underwent SLNB alone and 9,359 (77.6%) underwent ALND. The rate of SLNB increased from 25.6% in 2006 to 33.3% in 2012 in patients that underwent lumpectomy ($p < 0.01$) and increased from 20.6% to 22.8% in patients that underwent mastectomy ($p = 0.25$). Patients treated at Community centers (30.4% versus 19.2% at Academic centers) and those with less positive nodes (32.2% for 1 positive node versus 10.1% for 3 positive nodes, $p < 0.01$) were more likely to have SLNB alone compared to ALND. On multivariate analysis, treatment with lumpectomy (OR 1.46, CI 1.28-1.67), lower number of positive nodes (OR 3.98, CI 3.29-4.82) and lobular subtype (OR 1.82, CI 1.42-2.34) were independent predictors of receiving SLNB alone after NAC. Approximately 22% of patients with cN1 breast cancer underwent SLNB alone for pN1 disease after NAC. Ongoing clinical trials will determine if recurrence and survival rates are equivalent between SLNB and ALND groups. ■

Key Words: clinically node positive, neoadjuvant chemotherapy, sentinel node biopsy

Completar la
linfadenectomía , ante
cualquier grado de
afectación GC

Tasa de recidiva locorregional

15%-20%

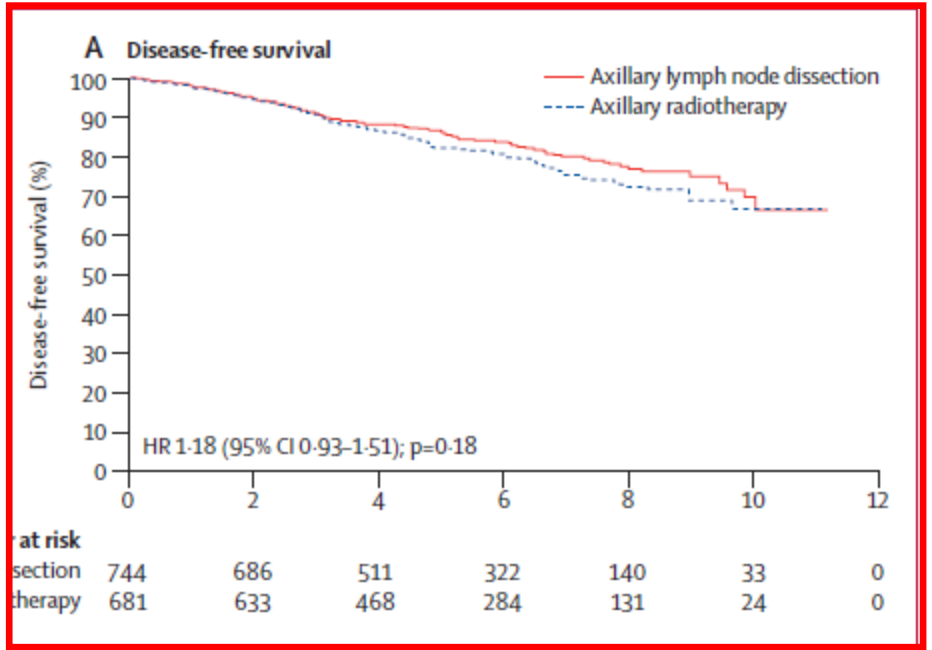
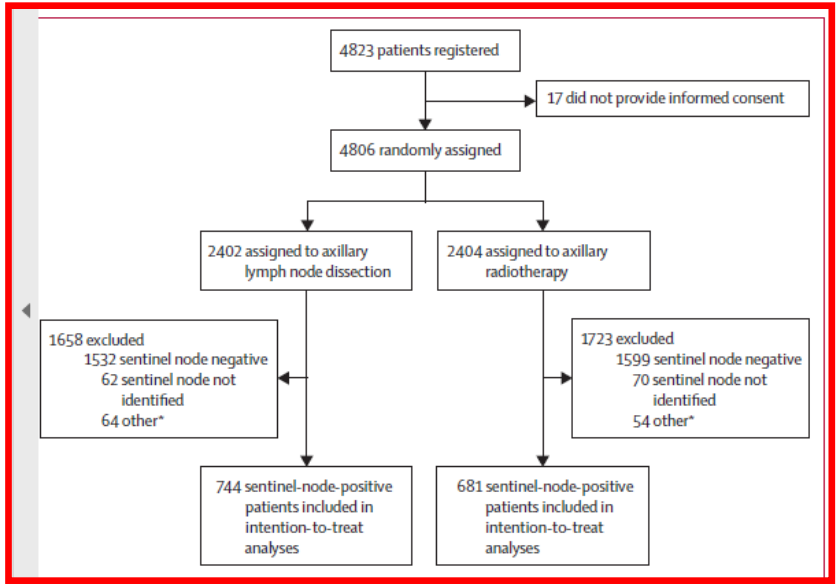
Beneficio de RDT

SELECCIÓN DE
TERAPIA
ADYUVANTE

ESTUDIO AMAROS

1 o 2 BSGC (+)

NO LINFADENECTOMIA
AXILAR
SI RDT



MENOS ES MAS EN EL MANEJO AXILA

- If the SLNB post-treatment is negative (ypN0), no further axillary evaluation is required. We treat such patients with axillary radiation.
- If the SLNB post-treatment is positive (ypN+), we proceed with ALND for those who have involvement of three or more sentinel nodes or involvement of a nonsentinel node. For those who have one to two positive sentinel nodes, we favor axillary radiation. Our rationale is that axillary radiation is likely to be as effective as ALND but less morbid in cN0 patients with limited sentinel nodal involvement (N1mic/N1a), based on results of the After Mapping of the Axilla: Radiotherapy or Surgery (AMAROS) trial [65]. (See "[Overview of sentinel lymph node biopsy in breast cancer](#)", section on 'Role of radiotherapy')

NO LINFADENECTOMIA AXILAR SI 1 0 2 GANGLIOS POSTIVOS-> SOLO RDT



NIH Public Access

Author Manuscript

Lancet Oncol. Author manuscript; available in PMC 2015 January 12.

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Lancet Oncol. 2014 November ; 15(12): 1303–1310. doi:10.1016/S1470-2045(14)70460-7.

Radiotherapy or surgery of the axilla after a positive sentinel node in breast cancer (EORTC 10981-22023 AMAROS): a randomised, multicentre, open-label, phase 3 non-inferiority trial

Positive axilla prior to treatment — For patients with evidence of involvement of the axilla from an FNA or CNB prior to treatment, or for those in whom clinical suspicion was high (cN2-N3) but biopsy was not obtained, management of the axilla includes ALND or axillary radiation. A choice between them depends on the extent of nodal involvement prior to NACT and, for those with limited involvement, the response to treatment:

- For those with clinical evidence of advanced nodal involvement (cN2 or cN3 (table 1)) prior to treatment, an ALND should be pursued following NACT, independent of the clinical response to treatment.
- For those with clinical N1 or N0 disease with a positive axillary FNA or CNB (table 1) prior to treatment, management depends on the response to NACT:
 - Patients who remain clinically node positive (ycN1) after NACT should undergo an ALND
 - Patients who are clinically node negative after NACT (ycN0) should undergo axillary US after NACT.

Axillary Ultrasound After Neoadjuvant Chemotherapy and Its Impact on Sentinel Lymph Node Surgery: Results From the American College of Surgeons Oncology Group Z1071 Trial (Alliance)



G(+)-> QMT

- For those with abnormal post-treatment axillary US, ALND should be performed, which may be done at the time of breast surgery.
- For those with negative or uncertain axillary US results, post-treatment SLNB as well as removal of any clipped or other marked nodes should be planned. This may be performed at the time of breast surgery, with intraoperative assessment of the sampled nodes, if possible.

If one or more of the sentinel lymph nodes is pathologically involved (ypN+), if a nonsentinel lymph node is involved, or if no sentinel lymph nodes are identified, ALND is the standard approach. In patients with a negative SLNB post-NACT (ypN0), an ALND can usually be avoided [68], particularly if at least two sentinel nodes are sampled, and the patient will be treated with axillary radiation therapy (RT). For those patients who have only one sentinel lymph node identified, the optimal management is unclear because of the higher likelihood of a false-negative SLNB in such settings [69,70]. As an example, in the SENTinel NeoAdjuvant (SENTINA) study, the FNRs with one, two, or three negative sentinel lymph nodes were 24, 18, and 5 percent, respectively. In such situations, the risks and benefits of an ALND versus axillary RT must be discussed with the patient.