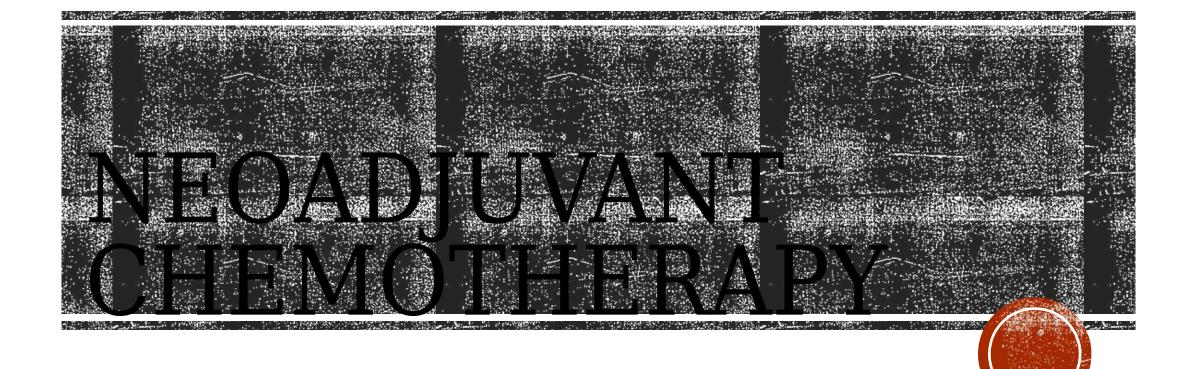


# UPDATES FROM THE ST. GALLEN B.C.C. 2019



Andrea Villasco, Lorenzo Novara, Nicoletta Biglia



# NEOADJUVANT CHEMOTHERAPY: RATIONALE

- pCR: strong and independent
   prognostic factor
- non-pCR: higher risk population who can benefit from additional treatment strategies
- Mammary and axillary downstaging: rise in BCS and ALND avoidance



## NEOADJUVANT CHEMOTHERAPY: BACK FROM THE... END



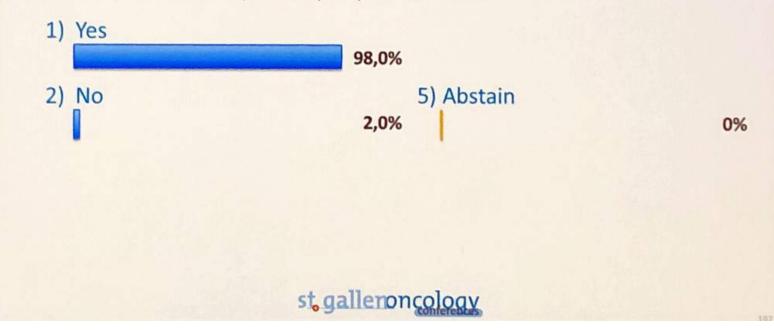
16<sup>th</sup> St.Gallen International Breast Cancer Conference 2019 Primary Therapy of Early Breast Cancer Evidence, Controversies, Consensus

19 20-23 March 2019, Vienna/Austria

## **Neo-adjuvant systemic therapy**

183.

Neoadjuvant systemic therapy is the preferred initial treatment for women with stage II and III TNBC and HER2+ breast cancer regardless of suitability for lumpectomy at presentation:





## WHY SHOULD WE CHOOSE NEOADJUVANT CHEMOTHERAPY?

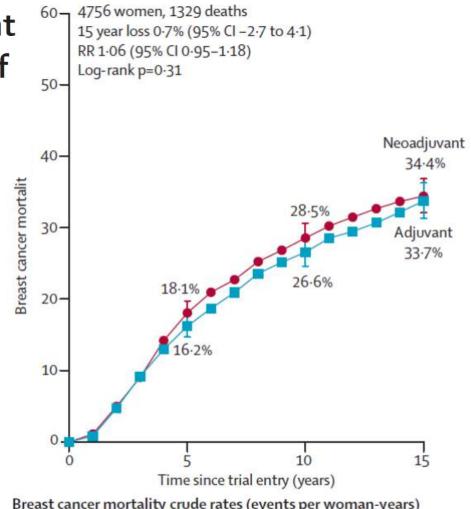
Long-term outcomes for neoadjuvant versus adjuvant chemotherapy in early breast cancer: meta-analysis of individual patient data from ten randomised trials

Early Breast Cancer Trialists' Collaborative Group (EBCTCG)\*

 $\geq$ 

THE LANCET Oncology Volume 19, Issue 1, January 2018, Pages 27-39

No significant difference between NACT and adjuvant chemotherapy was noted for distant recurrence (RR 1.02 [95% CI 0.92-1.14]; p=0.66), breast cancer mortality (RR 1.06 [0.95-1.18]; p=0.31), or death from any cause (RR 1.04 [0.94-1.15]; p=0.45).



Breast cancer mortality crude rates (events per woman-years) and log-rank analyses



#### WHY SHOULD WE CHOOSE NEOADJUVANT CHEMOTHERAPY? Long-term outcomes for neoadjuvant versus adjuvant Early Breast Cancer Trialists' Collaborative Group (EBCTCG)\* THE LANCET chemotherapy in early breast cancer: meta-analysis of Oncology individual patient data from ten randomised trials Volume 19, Issue 1, January 2018, Pages 27-39

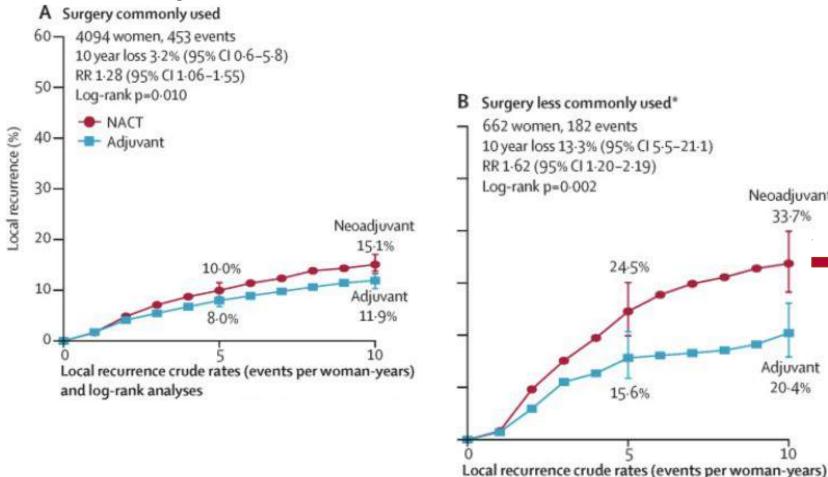
and log-rank analyses

Neoadjuvant

33.7%

Adjuvant

20-4%

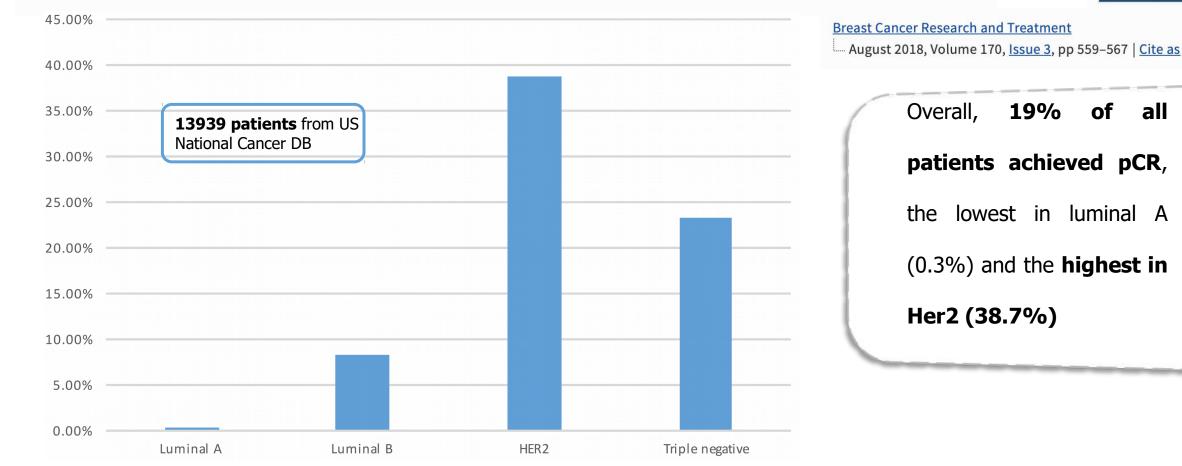


The absolute increase in 10year local recurrence with NACT was largest in the two trials, in which, after NACT, many did not have women breast surgery



## EFFECTIVENESS OF NACHT BASED ON MOLECULAR SUBTYPE Response rates and pathologic complete response by Breast Cancer breast cancer molecular subtype following neoadjuvant chemotherapy

all



# EFFECTIVENESS OF NACHT BASED ON

### 

JAMA Oncology | Review

Melissa Pilewskie, MD; Monica Morrow, MD

## Axillary Nodal Management Following Neoadjuvant Chemotherapy

A Review JAMA Oncol. 2017;3(4):549-555. doi:10.1001/jamaoncol.2016.4163



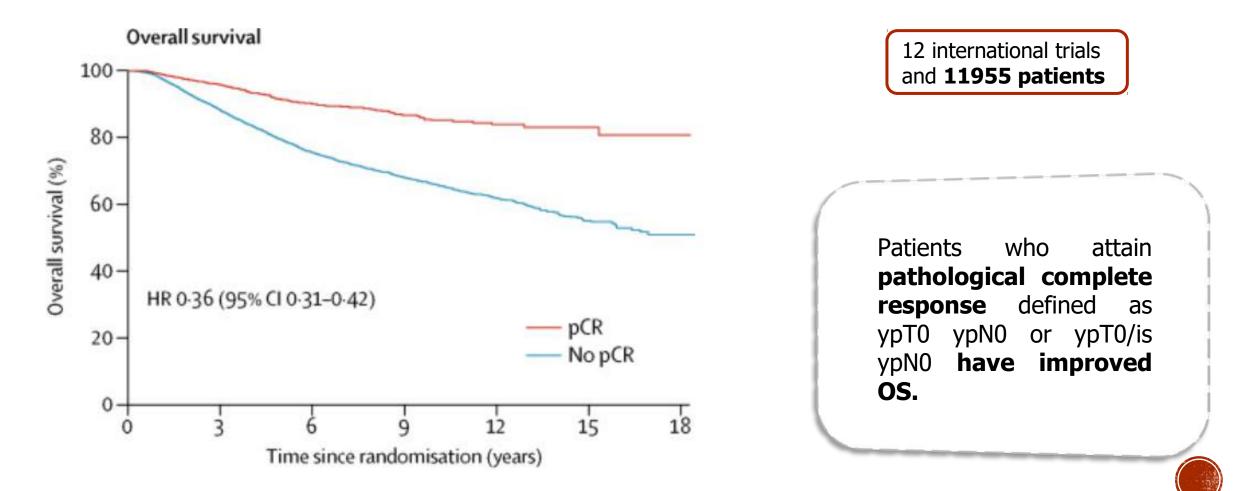
Table 5. Rates of Axillary Nodal Pathologic Complete Response (ypNO) by Tumor Subtype

Source		Pathologic Complete Response, %		e		/			
	No./Stage	HR+/ HER2-	HER2+	Triple Negative	Chemotherapy Regimen	Rates	of	axillary	
Zhang et al, <sup>53</sup> 2013	301/Stage	46	72	69	51% Taxane based; 95% HER2+ received trastuzumab	pathologica	h	complete	
Boughey et al, <sup>25</sup> 2014	756/pN+	21	65	49	75% Anthracycline and taxane; 89% HER2+ received trastuzumab	response	after	r NACHT	
Kim et al, <sup>27</sup> 2015	415/pN+	29	49	54	86% Anthracycline and taxane; 10% HER2+ received trastuzumab	according	to	molecular	
Mamtani et al, <sup>28</sup> 2016	195/pN+	21	82	47	97% Dose-dense doxorubicin, cyclophosphamide, and paclitaxel, 9% carboplatin; 100% HER2+ received trastuzumab plus pertuzumab	subtypes.			
A L-Tweigeri et al, <sup>48</sup> 2016	80/Stage II-III	50	79	73	Fluorouracil, epirubicin, and cyclophosphamide, cisplatin/docetaxel; 100% HER2+ received trastuzumab				
Diego et al, <sup>29</sup> 2016	30/pN+	0	69	67	Chemotherapy regimen unknown; 100% HER2+ received trastuzumab				

## WHY SHOULD WE CHOOSE NEOADJUVANT CHEMOTHERAPY?

Pathological complete response and long-term clinical benefit in breast cancer: the CTNeoBC pooled analysis

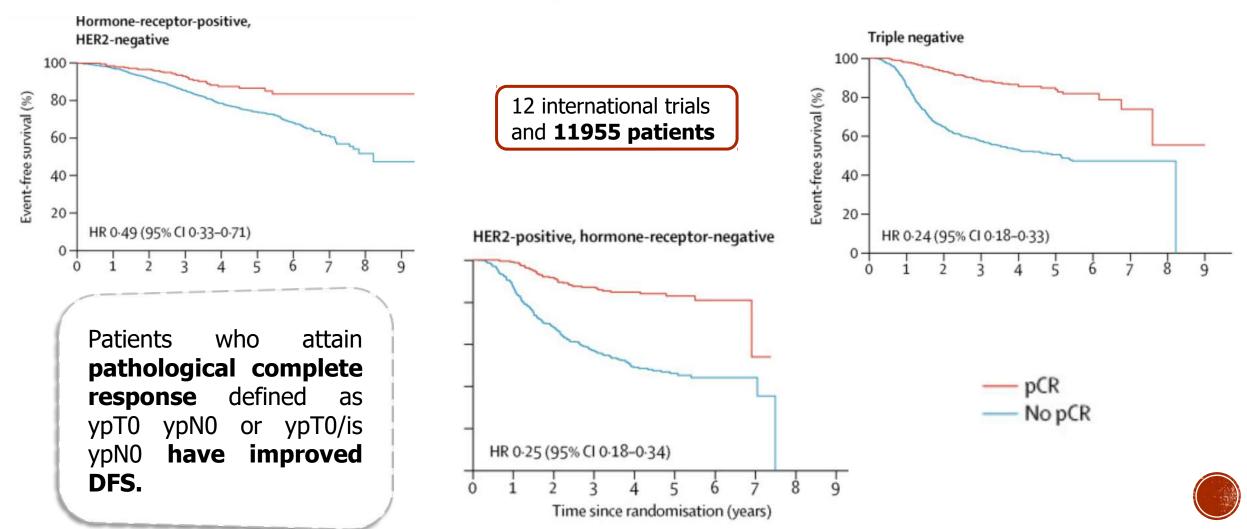
THE LANCET Volume 384, Issue 9938, 12–18 July 2014, Pages 164-172



## WHY SHOULD WE CHOOSE NEOADJUVANT CHEMOTHERAPY?

Pathological complete response and long-term clinical THE LANCET benefit in breast cancer: the CTNeoBC pooled analysis

Volume 384, Issue 9938, 12–18 July 2014, Pages 164-172

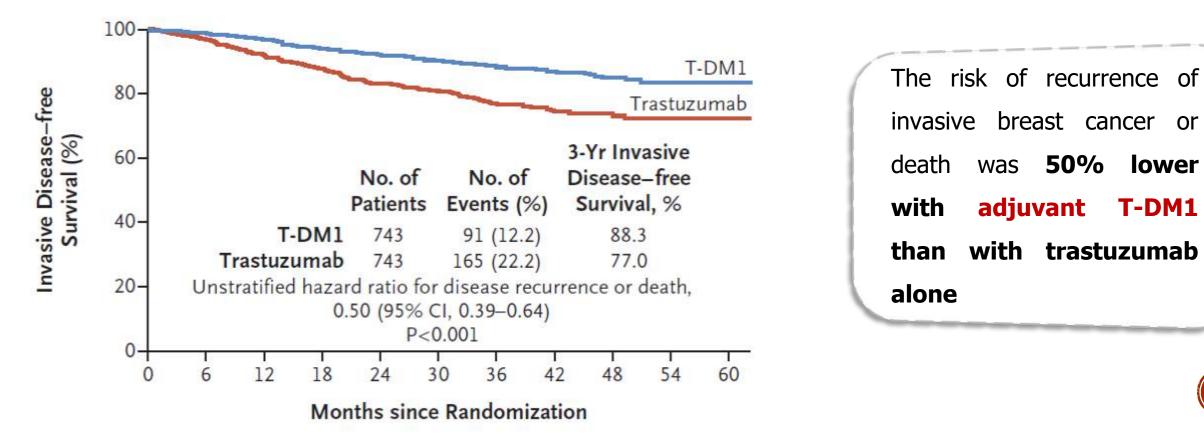


# NON-PCR: **OPTIONS**

### The NEW ENGLAND JOURNAL of MEDICINE February 14, 2019

## Trastuzumab Emtansine for Residual **Invasive HER2-Positive Breast Cancer**

1486 patients with HER2-positive early breast cancer who were found to have residual invasive disease in the breast or axilla at surgery after receiving neoadjuvant therapy containing a taxane (with or without anthracycline) and trastuzumab. Patients were randomly assigned to receive adjuvant T-DM1 (743 pt) or trastuzumab (743) for 14 cycles.





lower

T-DM1

# NON-PCR: OPTIONS FOR HER2 + BC

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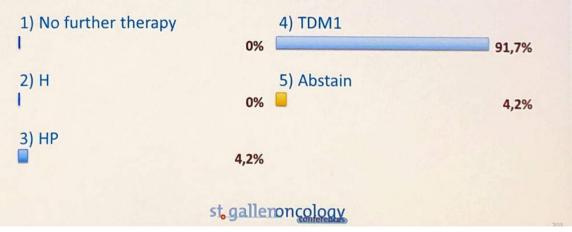
16<sup>th</sup> St.Gallen International Breast Cancer Conference 2019 Primary Therapy of Early Breast Cancer Evidence, Controversies, Consensus

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## Management of residual disease after neoadjuvant therapy: HER2+

189.

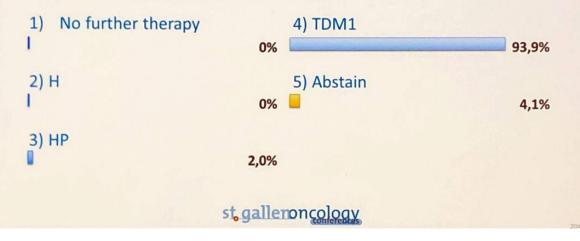
If there is residual cancer in breast and/or axillary LN (no pCR/near pCR) following neoadjuvant TCH or AC/EC -> TH (without P), in HER2+ breast cancer, your preferred systemic therapy is:



16<sup>th</sup> St.Gallen International Breast Cancer Conference 2019 Primary Therapy of Early Breast Cancer Evidence, Controversies, Consensus 20-23 March 2019, Vienna/Austria

## Management of residual disease after neoadjuvant therapy: HER2+

If there is residual cancer in breast and/or axillary LN (≥ 1 cm residual cancer) following neoadjuvant TCHP or AC/EC -> THP, in HER2+ breast cancer, the preferred systemic therapy is:



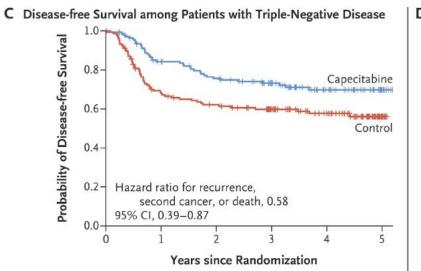


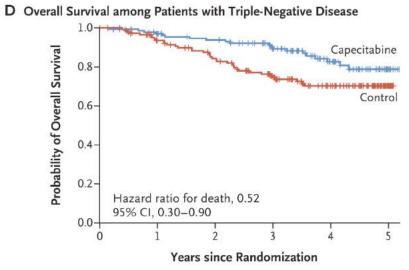
# NON-PCR: OPTIONS

### The NEW ENGLAND JOURNAL of MEDICINE June 1, 2017 Adjuvant Capecitabine for Breast Cancer after Preoperative Chemotherapy

**910 patients with HER2-negative residual invasive breast cancer after neoadjuvant chemotherapy** (containing anthracycline, taxane, or both) to receive standard postsurgical treatment either with **capecitabine or without** (control).

After neoadjuvant standard chemotherapy, addition the of adjuvant capecitabine therapy is safe and effective in prolonging disease-free survival and overall survival among patients with HER2negative breast cancer who had residual invasive disease on pathological testing.







# NON-PCR: OPTIONS FOR TNBC



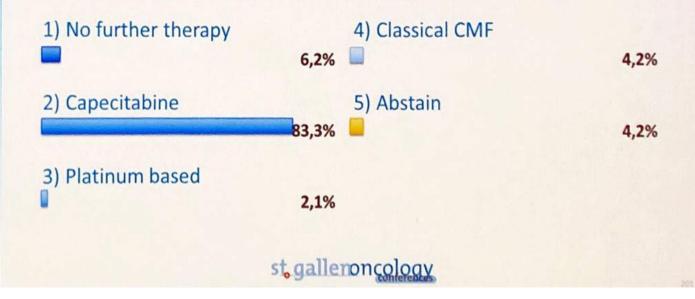
16<sup>th</sup> St.Gallen International Breast Cancer Conference 2019 Primary Therapy of Early Breast Cancer Evidence, Controversies, Consensus

20-23 March 2019, Vienna/Austria

## Management of residual disease after neoadjuvant therapy: TNBC

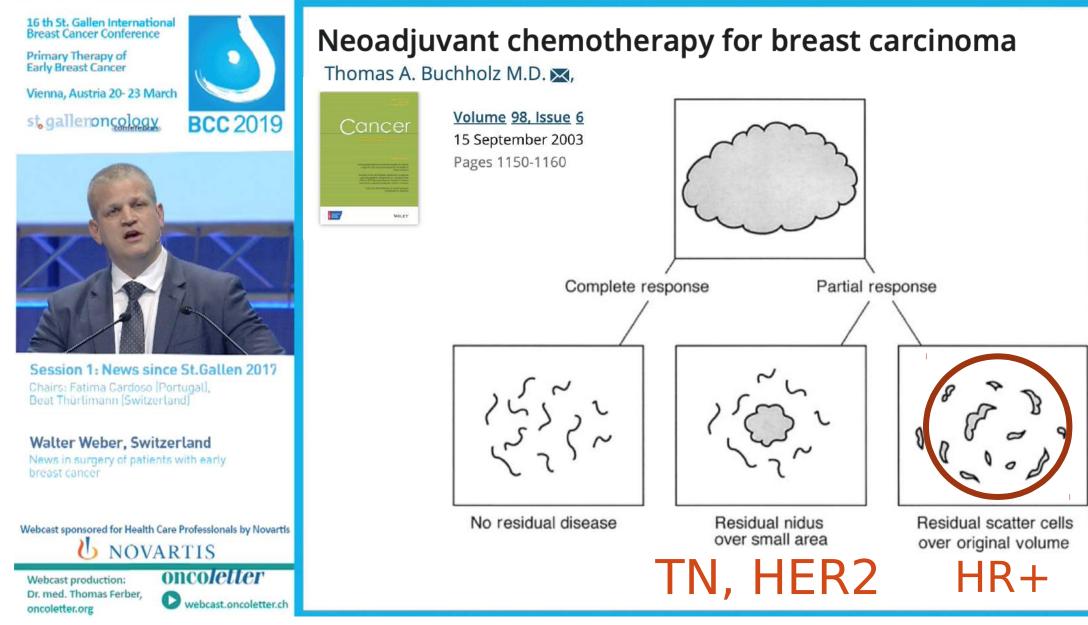
187.

If there is residual cancer in axillary LN or breast (≥ 1 cm residual cancer and/or LN+) following neoadjuvant sequential AC -> T chemotherapy for TNBC, your preferred systemic therapy is:



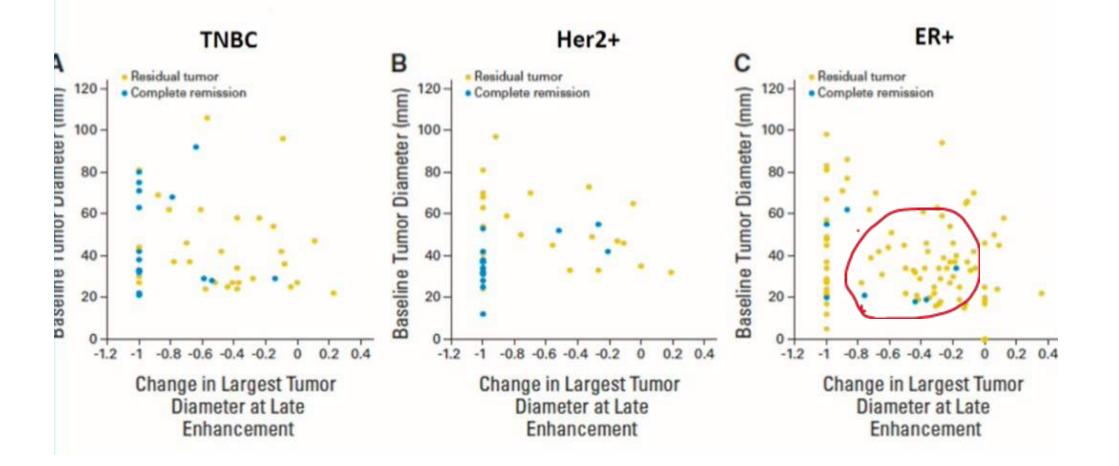






## Extent of residual burden?

MR correlates with residual burden in non luminal breast cancer



Loo, JCO, 2011

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Walter Weber, Switzerland News in surgery of patients with early breast cancer

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Webcast production: Dr. med. Thomas Ferber, oncoletter.org Oncoletter webcast.oncoletter.ch

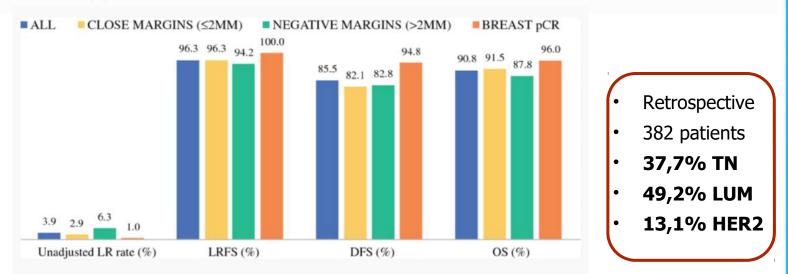
#### Annals of Surgical Oncology

November 2018, Volume 25, <u>Issue 12</u>, pp 3541–3547 | <u>Cite as</u>



### Margins in Breast-Conserving Surgery After Neoadjuvant

Therapy Jungeun Choi, Alison Laws, Jiani Hu, William Barry, Mehra Golshan, Tari King 🖂



#### Fig. 1

Five-year local recurrence and survival outcomes by margin width using Kaplan–Meier methods. *LRR* local recurrence rate; *LRFS* local recurrence-free survival; *DFS* disease-free survival; *OS* overall survival

LR occurred in 3 of 103 (2.9%) patients with 1.1 to 2 mm margins, 11 of 174 (6.3%) patients with > 2 mm margins, and 1 of 105 (1.0%) patients with a breast pCR. On multivariate analysis, margin width (pCR, >2mm vs < 2mm) was not associated with LRFS, DFS or OS.



16<sup>th</sup> St.Gallen International Breast Cancer Conference 2019

Primary Therapy of Early Breast Cancer Evidence, Controversies, Consensus

20-23 March 2019, Vienna/Austria

## **Estimated clinical benefit of margins**

Residual invasive breast cancer after Primary Systemic Therapy (PST) In 2017 the panel suggested that the "no tumour on ink" was applicable to unifocal residual.

1.

Which margin in multifocal residual disease, provides adequate clinical benefit (low LRR and lower 2nd surgeries) in patients that in addition receive radiotherapy.





June 2017, Volume 24, Issue 6, pp 1492–1498 | Cite as

Annals of Surgical Oncology

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Session 7: Surgery of early breast cancer

Zhiming Shao (China)

Webcast production:

oncoletter.org

Dr. med. Thomas Ferber.

Florian Fitzal, Austria

Estimating the extent of surgery

Chairs: Emiel J.T. Rutgers (The Netherlands),

Extent of surgery post neoadjuvant - setting:

Webcast sponsored for Health Care Professionals by Novartis

**U**NOVARTIS



Do Calcifications Seen on Mammography After Neoadjuvant Chemotherapy for Breast Cancer Always Need to Be Excised?

Yara Feliciano, Anita Mamtani, Monica Morrow, Michelle M. Stempel, Sujata Patil, Maxine S. Jochelson 🖂

Mammog	Iramm	MRI	n = 90	рC	R (%)
Microcalc	∧→	Enhancement V	40 (44%)	3	(7%)
Microcalc	∧→	Enhancement 0	32 (35%)	19	(60%)
Microcalc	<b>↓</b> 0	Enhancement $\Psi$	10 (11%)	3	(30%)
Microcalc	<b>↓</b> 0	Enhancement 0	8 (9%)	4	(50%)

Many of the **tumor bed calcifications seen on post-NAC mammography** are associated with **benign disease**, but **MRI does not predict the absence of residual tumor with sufficient accuracy** to allow calcifications to be left in place. **Complete excision of all indeterminate or malignant-appearing calcifications remains standard practice.** 

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CAL UNIVERSITY

ENNA

Professor Florian Fitzal, MD FEBS MBA Head Breast Surgery, Department of Surgery Breast Health Center, Vienna Medical University



# MANAGEMENT OF THE AXILLA

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Session 1: News since St.Gallen 2017 Chairs: Fatima Cardoso (Portugal), Beat Thürlimann (Switzerland)

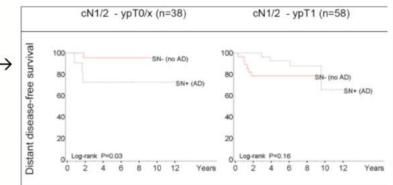
Walter Weber, Switzerland News in surgery of patients with early breast cancer

Webcast sponsored for Health Care Professionals by Novartis NOVARTIS Webcast production: Dr. med. Thomas Ferber, oncoletter.org webcast.oncoletter.ch European Journal of Surgical Oncology (EJSO) Volume 42, Issue 3, March 2016, Pages 361-368

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

- Single institution retrospective analysis of prospective database<sup>1</sup>
  - 70 patients, cN1/2 → NACT → cN0 → neg. SLN→ no ALND
  - Single tracer (<sup>99</sup>Tc)
  - Isolated tumor cells considered SLN negative
  - Median follow-up 61 months
  - → No axillary recurrence





**SNB** is acceptable in **cN1/2 patients who become cN0 after neoadjuvant** therapy: particularly in those with no residual disease in the breast, because SN

V. Galimberti<sup>a</sup> <sup>∧</sup> ⊠.

status maintains its expected prognostic role, but also in cases with residual disease, because **AD has no influence on outcomes**.



# MANAGEMENT OF THE AXILLA

16 th St. Gallen International Breast Cancer Conference

**Primary Therapy of Early Breast Cancer** 

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Meta-analysis of sentinel lymph node biopsy after neoadjuvant chemotherapy in patients with initial biopsy-proven node-positive breast cancer

S. R. Tee<sup>®</sup>, L. A. Devane, D. Evoy, J. Rothwell, J. Geraghty, R. S. Prichard and E. W. McDermott

Volume 105, Issue 12 November 2018 Pages 1541-1552

- Node-positive disease at presentation with pathological confirmation who underwent NAC
- SLNB after NAC;
- Followed by ALND as part of management.

Reference	SLN identification rate (%)	False-negative rate (%)
Zetterlund et al.14	77.9	14
Enokido et al.15	90.9	16
Carrera et al.16	91	10
Boileau et al. <sup>17</sup>	87.6	8
Ge et al. <sup>18</sup>	88	25
Yagata et al. <sup>19</sup>	85	16
Boughey et al. <sup>10</sup>	92.7	12.6*
Park et al.20	94.9	22.0
Rebollo-Aguirre et al.21	85	8
Alvarado et al.22	93.0	21
Thomas et al.23	87	20
Ozmen et al.24	92	14
Newman et al.25	98	8

FNR	Meta-analyse Tee	
In all	14%	
Dual tracer	11%	
>2 SLN identified	4%	



# MANAGEMENT OF THE AXILLA

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**Cancer** A Systematic Review and Meta-analysis Annals of Surgery: March 2019 - Volume 269 - Issue 3 - p 432-442





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Walter Weber, Switzerland News in surgery of patients with early

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onco*letter* webcast.oncoletter.ch Meta-analysis of 20 studies (2217 patients)<sup>1</sup>

	n (studies)	n (patients)	Identification rate	False-negative rate
01.11				Overall: 17%
SLN only	17	2002	89%	<3 SLNs: 22%
Only				≥3 SLNs: 8%
MARI	1	95	97%	7%
TAD	2	120	100%	2-4%



# WHEN TO PERFORM ALND AFTER NACHT

16 th St. Gallen International **Breast Cancer Conference** 

Primary Therapy of Early Breast Cancer

Vienna, Austria 20-23 March

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Session 7: Surgery of early breast cancer

Chairs: Emiel J.T. Rutgers (The Netherlands), Zhiming Shao (China)

#### Florian Fitzal, Austria

Extent of surgery post neoadjuvant - setting: Estimating the extent of surgery

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**BCC** 2019

#### Annals of

**OF VIENNA** 

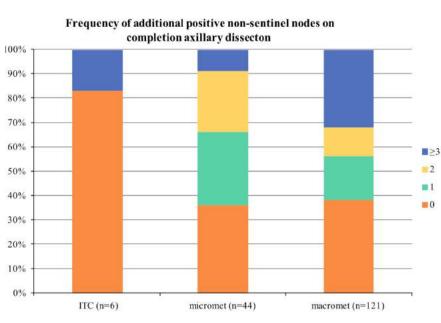
### SURGICALONCOLOGY

OFFICIAL JOURNAL OF THE SOCIETY OF SURGICAL ONCOLOGY

### Is Low-Volume Disease in the Sentinel Node After Neoadjuvant **Chemotherapy an Indication for Axillary Dissection?**

Ann Surg Oncol (2018) 25:1488-1494

Tracy-Ann Moo, MD<sup>1</sup>, Marcia Edelweiss, MD<sup>2</sup>, Sabina Hajiyeva, MD<sup>2</sup>, Michelle Stempel, MPH<sup>1</sup>, Monica Raiss, BA<sup>1</sup>, Emily C. Zabor, MS<sup>3</sup>, Andrea Barrio, MD<sup>1</sup>, and Monica Morrow, MD<sup>1</sup>





### **Perform ALND if:**

cN2 before NACT (or > 2 nodes radiological susp)

- ypN1 (non SN pos in **50-60%**)
- (non SN pos in **30-40%**) vpN1mic
- ypN0(is+) (non SN pos in **30-60%**)

Professor Florian Fitzal, MD FEBS MBA Head Breast Surgery, Department of Surgery Breast Health Center, Vienna Medical Universit



# PANEL DECISIONS

Primary Therapy of Early Breast Cancer Conference 2019 2019 20-23 March 2019, Vienna/Austria

### Use of SLND in cN1 undergoing PST

In a patient who is clinically node positive (cN1) at presentation and downstages to cN0 after neoadjuvant therapy, SLN can substitute for ALND if:

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#### 23.

#### 3 or more neg SLNs obtained

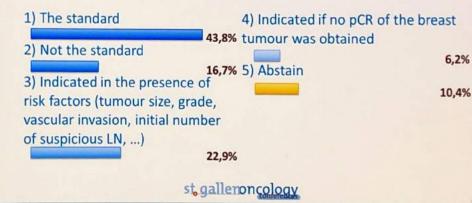


4,2%

### Regional lymph node irradiation following PST

#### 32.

In initially cN+ patients who have a negative SLN procedure after PST, lymph node irradiation is:



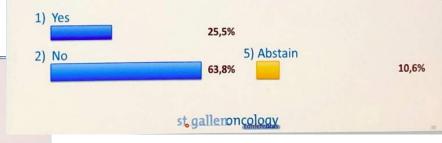
16<sup>th</sup> St.Gallen International Breast Cancer Conference 2019 Primary Therapy of Early Breast Cancer Evidence, Controversies, Consensus 20-23 March 2019, Vienna/Austria

# ALND after PST when there is residual axillary disease

In a patient who is cN1 at presentation and has a good clinical response; SLN mapping identifies 3 SLN:

25.

ALND may be avoided if there is limited involvement with micrometastasis in one positive node only (no radiotherapy planned)







# ALND AFTER SLNB: TRENDS

16 th St. Gallen International Breast Cancer Conference Primary Therapy of Early Breast Cancer Vienna, Austria 20- 23 March

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Session 7: Surgery of early breast cancer

Chairs: Emiel J.T. Rutgers (The Netherlands), Zhiming Shao (China)

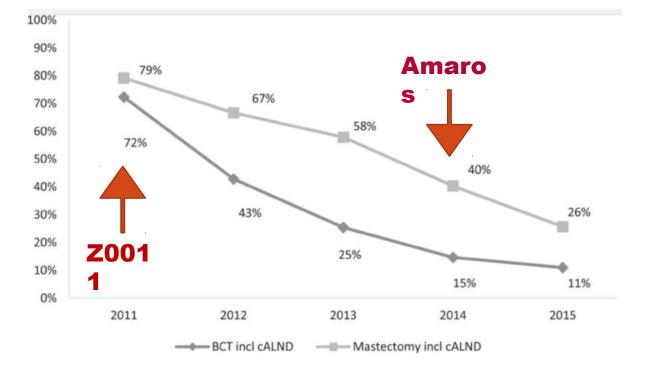
Paolo Veronesi, Italy Standards and controversies in sentinel node

Webcast sponsored for Health Care Professionals by Novartis NOVARTIS Webcast production: ONCOLETTER

Webcast production: Dr. med. Thomas Ferber, oncoletter.org

webcast.oncoletter.ch

Trends on Axillary Surgery in Nondistant Metastatic Breast Cancer Patients Treated Between 2011 and 2015: A Dutch Population-based Study in the ACOSOG-Z0011 and AMAROS Era Annals of Surgery. 268(6):1084–1090, DEC 2018 Ingrid G. Poodt



Between 2011 and 2015 the use of **ALND** decreased from **75% to 17%** in **cT1-2N0 sentinel node-positive patients** (*P* < 0.001).



ANNALS OF

# ALND AFTER SLNB: ATTITUDE-CHANGING TRIALS





#### Session 7: Surgery of early breast cancer

Chairs: Emiel J.T. Rutgers (The Netherlands), Zhiming Shao (China)

Paolo Veronesi, Italy Standards and controversies in sentinel node

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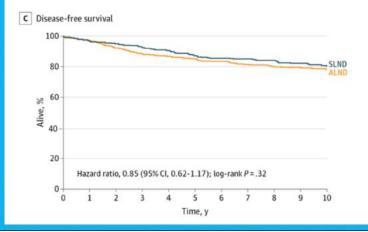
JAMA | Original Investigation September 12, 2017

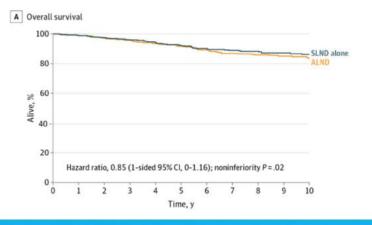
Effect of Axillary Dissection vs No Axillary Dissection on 10-Year Overall Survival Among Women With Invasive Breast Cancer and Sentinel Node Metastasis The ACOSOG ZOO11 (Alliance) Randomized Clinical Trial

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

	EGIONAL RENCES		DAL RENCES		AST RENCES
SLN	ALND	SLN	ALND	SLN	ALND
5.6%	6.2%	1.5%	0.5%	4.1%	4.7%
P=	0.36	P=	0.28		

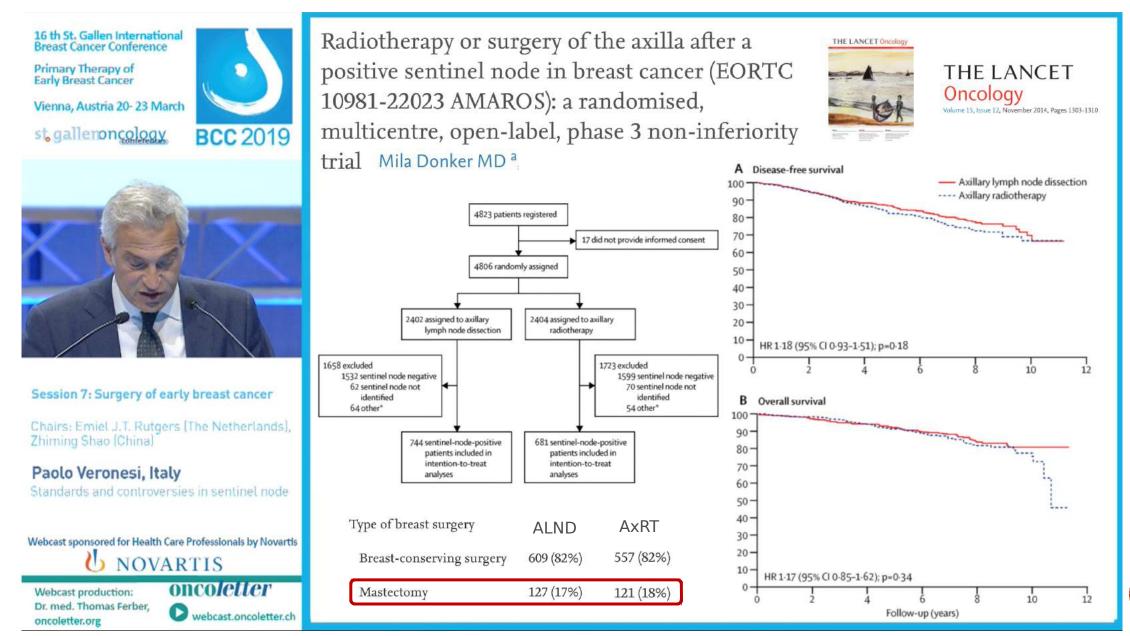
DISEASE FRE	E SURVIVAL	OVERALL	SURVIVAL
SLN	ALND	SLN	ALND
80.2%	78.2%	86.3%	83.6%
P=(	0.44	P=0.	.72





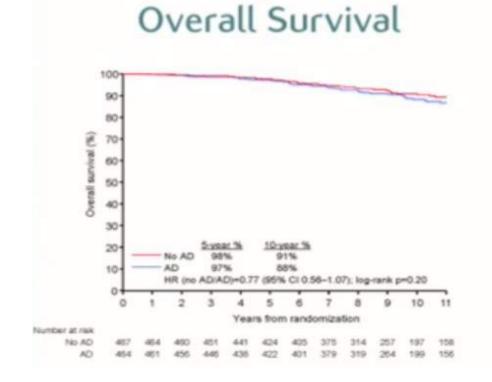


# ALND AFTER SLNB: ATTITUDE-CHANGING TRIALS

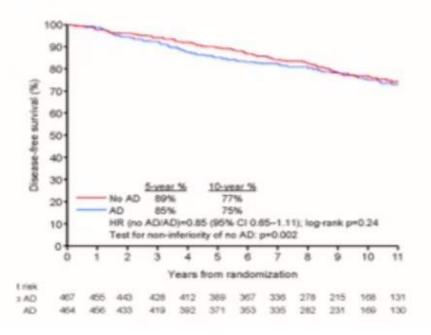


Axillary dissection versus no axillary dissection in patients with breast cancer and sentinel-node micrometastases (IBCSG 23-01): 10-year follow-up of a randomised, controlled, phase 3 trial ℈ℸ℗

Viviana Galimberti, Bernard F Cole, Giuseppe Viale, Paolo Veronesi, Elisa Vicini, Mattia Intra, Giovanni Mazzarol, Samuele Massarut, Janez Zgajnar, Mario Taffurelli, David Littlejohn, Michael Knauer, Carlo Tondini, Angelo Di Leo, Marco Colleoni, Meredith M Regan, Alan S Coates, Richard D Gelber, Aron Goldhirsch, for the International Breast Cancer Study Group Trial 23-01\*

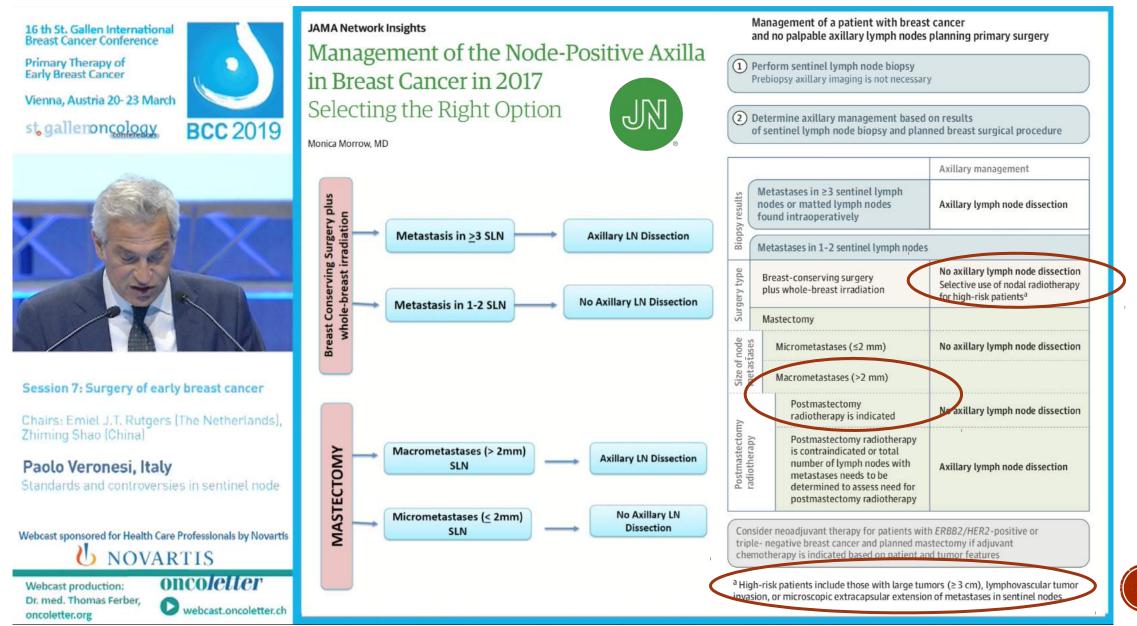






934 pazienti; follow up 9.7 anni

# ALND AFTER SLNB: NEW STANDARDS



## ALND OMISSION AFTER SLNB: NEIGHBOURS STANDARDS

### Radiotherapy and Conservative Surgery

Primary Therapy of Early Breast Cancer

Vienna, Austria 20-23 March

16 th St. Gallen International Breast Cancer Conference

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Session 7: Surgery of early breast cancer

Chairs: Emiel J.T. Rutgers (The Netherlands), Zhiming Shao (China)

Paolo Veronesi, Italy Standards and controversies in sentinel node

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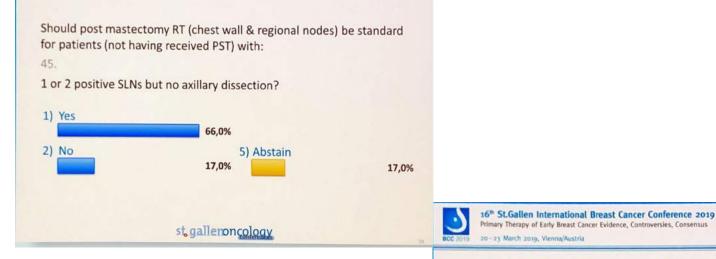
## EIO guidelines for 1-2 macrometastatic lymph nodes without axillary dissection

	MOLECULAR SUBTYPE	RT
Luminal A	ER+ and/or PR+, HER2-, and low Ki67 (<20%)	ONLY BREAST
Luminal B	<ul> <li>ER+ and/or PR+ and HER2+ (luminal-HER2 group)</li> <li>ER+ and/or PR+, HER2-, Ki67 (≥20%)</li> </ul>	BREAST + I-II level
HER2+	ER-, PR-, and HER2+	BREAST + I-III level
Basal-like o triple negative	ER-, PR-, HER2-, and CK5/6 and/or EGFR+	BREAST + I-III level

# PANEL DECISIONS

16<sup>th</sup> St.Gallen International Breast Cancer Conference 2019 Primary Therapy of Early Breast Cancer Evidence, Controversies, Consensus 20–23 March 2019, Vienna/Austria

#### **Radiation therapy: after mastectomy**



#### **Radiation therapy: after mastectomy**

Should post mastectomy RT (chest wall & regional nodes) be standard for patients with: 43. N+ 1 to 3, with adverse features (TN)? 1) Yes 2) No 5) Abstain 8,3% 5) Abstain 6,2% <sup>h</sup> St.Gallen International Breast Cancer Conference 2019 vary Therapy of Early Breast Cancer Evidence, Controversies, Consensus

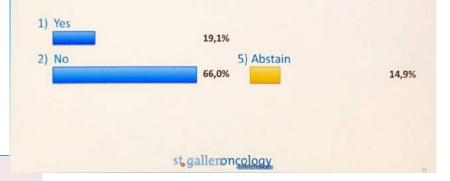
019 20-23 March 2019, Vienna/Austria

### **ALND** in patients with macrometastatic SLN

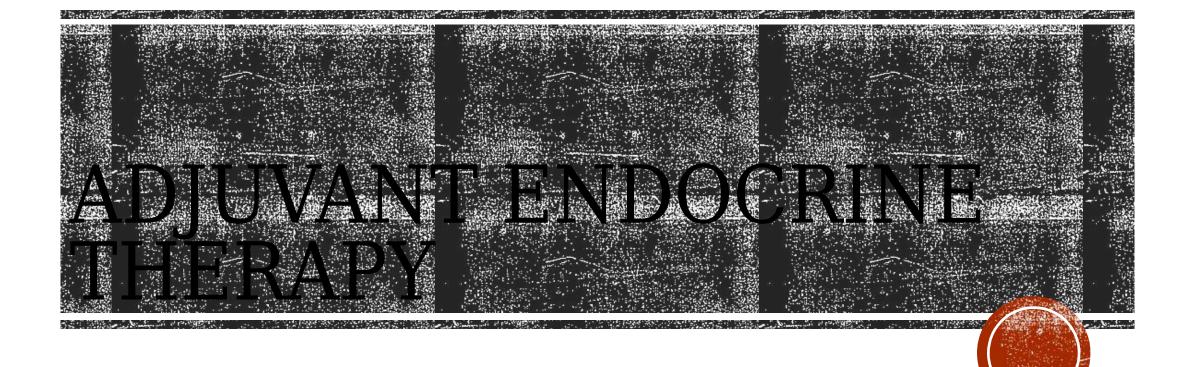
ALND can be omitted in:

18.

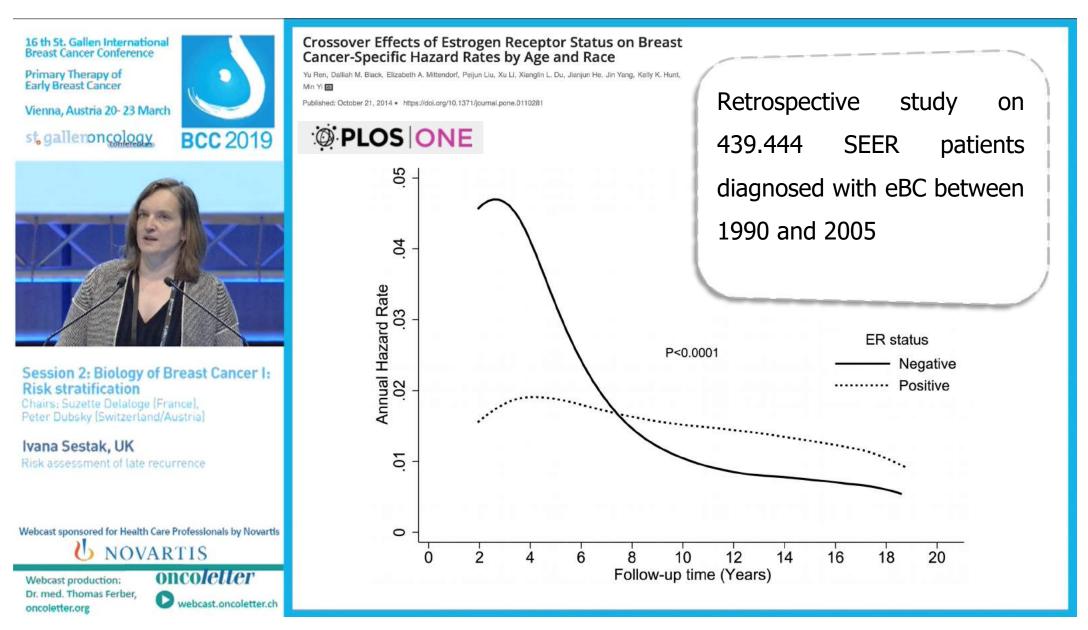
mastectomy with 1-2 positive SNs and CW\* but not RNI\* planned







# ADJUVANT ENDOCRINE THERAPY: PREMISES

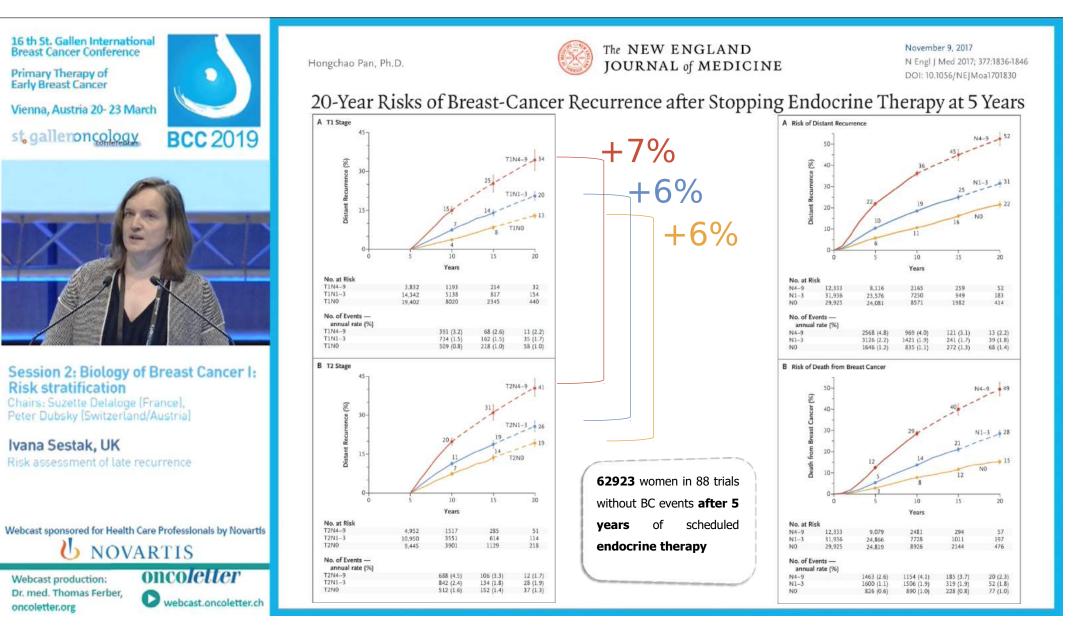


## EXTENDED ADJUVANT ENDOCRINE THERAPY: STUDIES

	Y	bars	Population	Median FU	Time to recurrence	Time to recurrence, second primary malignancy or death	Time to death
	0 1 2 3 4 5	5 8 7 8 9 1	0				
SABP 8-14	Tam	Tam Plac	n = 1,152 ER+ LN- Postmenopausal	6.8 yrs	NA	7-yrs: RR = 1.30 (1.00-1.70) P = 0.03	7-yrs: RR = 1.50 (1.00-2.20) P = 0.07
ATLAS			n = 6.846	7.0 yrs	5-9 yrs: RR = 0.90 (0.79-1.02)	NA	5-9 yns: RR = 0.97 (0.79-1.18)
0.240	Tam	Tam None	ER+ LN+ and LN- Pre- and postmenopausal	1.10.210	210 yrs: RR = 0.75 (0.62-0.90) P = 0.002	NOT.	≥10 yrs: RR = 0.71 (0.58-0.88) P = 0.01
TTom	Tan	Tam None	n = 6,953 ER+ and ER- LN+ and LN- Pre- and postmenopausal	NA.	5-6 yrs: RR = 0.99 (0.86-1.15) 7-9 yrs: RR = 0.84 (0.73-0.95) ≿10 yrs: RR = 0.75 (0.66-0.86) P = 0.003	NA	5-6 yrs: RR = 1.05 (0.90-2.20) ≥10 yrs: RR = 0.77 (0.75-0.97) P = 0.05
AL17			n = 6,187	2.5 yrs	HR = 0.58 (0.45-0.76)	NA	HR = 0.82 (0.57-1.19)
	Tam	Let Plac	Hormone receptor-positive LN+ and LN- Postmenopausal		P < 0.001		P=0.30
SABP B-33	Tam	Exe	n = 1,508 Hormone receptor-positive LN+ and LN-	2.5 yrs	HR = 0.44 (NA) P = 0.004	HR = 0.68 (MA) P = 0.07	NA
			Postmenopausal				
ABCSO-6a	Tam	Ana None	n = 856 Hormone receptor-positive LN+ and LN- Postmenopausal	5.2 ym	HR = 0.62 (0.40-0.96) P = 0.031	NA.	HR = 0.89 (0.59-1.34) P = 0.57
WA.17R	Let	Lat Plac	n = 1,918 Hormone receptor-positive LN+ and LN- Postmenopausal	6.3 ym	HR = 0.66 (0.48-0.91) P = 0.01	NA	HR = 0.97 (0.73-1.28) P = 0.83
NSABP B-42			n = 3.966	6.9 yrs	HR = 0.71 (0.56-0.89)	HR = 0.85 (0.73-0.99)	HR = 1.15 (0.92-1.44)
ADADL DAY	Al or Tam $\rightarrow$ Al	Let Plac	Hormone receptor-positive LN+ and LN- Postmenopausal	0.9 918	P=0.003	P=0.048	P=0.22
ATA	Tam Ana	Ann	n = 1,912 Hormone receptor-positive LN+ and LN- Postmenopausal	4.2 yrs"	NA	HR = 0.79 (0.62-1.02) P = 0.07	HR = 0.91 (0.65-1.29) P = 0.60
DEAL	Any endoprine therapy	Let	n = 1,824 Hormone receptor-positive LN+ and LN-	6.6 yrs	NA	HR = 0.92 (0.74-1.16) P = 0.49 <sup>m</sup>	HR = 1.04 (0.78-1.38) P = 0.79
	()	Let	Postmenopausel				
ABCSG-16	Any endocrine therapy	Aca Ata	n = 3,469 Hormone receptor-positive LN+ and LN- Postmenopausal	8.9 yrs	NA .	HR = 1.01 (0.87-1.16) P = 0.93	HR =1.01 (0.82-1.23) P=0.95
BOLE	Any endoorine therapy	Let	n = 4,884 Hormone receptor-positive LN+	5 ym	NA	HR = 1.08 (0.93-1.26) P = 0.31	HR = 0.85 (0.88-1.07) P = 0.16



# ADJUVANT ENDOCRINE THERAPY: PREMISES



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# EXTENDED ADJUVANT ENDOCRINE THERAPY: CTS5

16 th St. Gallen International<br/>Breast Cancer ConferencePrimary Therapy of<br/>Early Breast CancerVienna, Austria 20- 23 Marchst. gallenoncologyBCC 2019



Session 2: Biology of Breast Cancer I: Risk stratification Chairs: Suzette Delaloge (France), Peter Dubsky (Switzerland/Austria)

Ivana Sestak, UK Risk assessment of late recurrence

Webcast sponsored for Health Care Professionals by Novartis

Webcast production: Dr. med. Thomas Ferber, oncoletter.org Oncoletter webcast.oncoletter.ch VOLUME 36 · NUMBER 19 · JULY 1, 2018

### JOURNAL OF CLINICAL ONCOLOGY

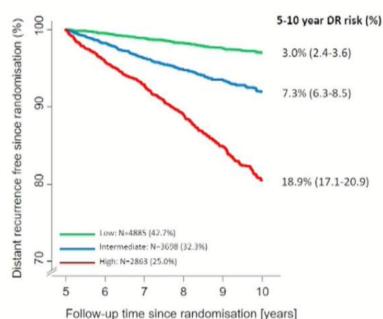
Integration of Clinical Variables for the Prediction of Late Distant Recurrence in Patients With Estrogen Receptor–Positive Breast Cancer Treated With 5 Years of Endocrine Therapy: CTS5

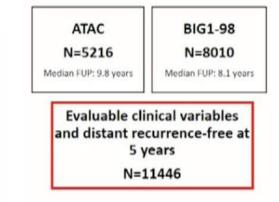
Mitch Dowsett, Ivana Sestak, Meredith M. Regan, Andrew Dodson, Giuseppe Viale, Beat Thürlimann, Marco Colleoni, and Jack Cuzick

**CTS5** (ATAC) was **significantly prognostic for late DR** in the ATAC cohort (hazard ratio, 2.47; 95% CI, 2.24 to 2.73; P , .001) and BIG 1-98 validation cohort (hazard ratio, 2.07; 95% CI, 1.88 to 2.28; P

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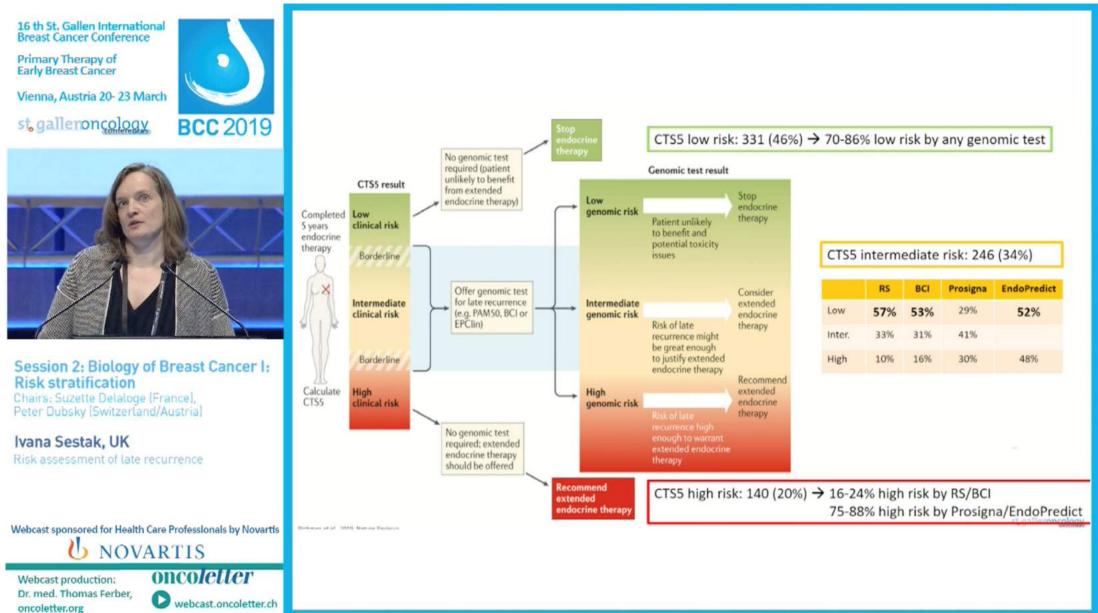
Clinical vQ Qble)	HR (95% CI)	P-value <0.0001	
Number of positive nodes	1.14 (1.12-1.15)		
Tumor size (mm)	1.10 (1.08-1.12)	<0.0001	
Grade (1 vs. 2, 1 vs. 3)	2.26 (1.58-3.22) 3.37 (2.33-4.86)	<0.0001 <0.0001	
Age (years)	1.04 (1.02-1.05)	<0.0001	
Endocrine therapy (T vs. A)	0.84 (0.67-1.04)	0.108	







## EXTENDED ADJUVANT ENDOCRINE THERAPY: CTS5



# EXTENDED ADJUVANT ENDOCRINE THERAPY: CTS5

### **REMIND!**

 - CTS5 was validated on a population including HER2 + patients when trastuzumab therapy was not yet a standard of care

## **NOT APPLICABLE TO ER+/HER2+ PATIENTS**

### **TREATED WITH TRASTUZUMAB!**

- CTS5 was validated on a population of **postmenopausal** patients

NOT APPLICABLE TO PREMENOPAUSAL PATIENTS



## PANEL DECISION ON A-ET IN POSTMENOPAUSAL WOMEN



**Endocrine therapy** 

Postmenopausal

If an AI is used, should it be started upfront:

81.

In all patients?





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### **Endocrine therapy**

### Postmenopausal

If an AI is used, should it be started upfront:

82.

In patients at higher risk by stage?

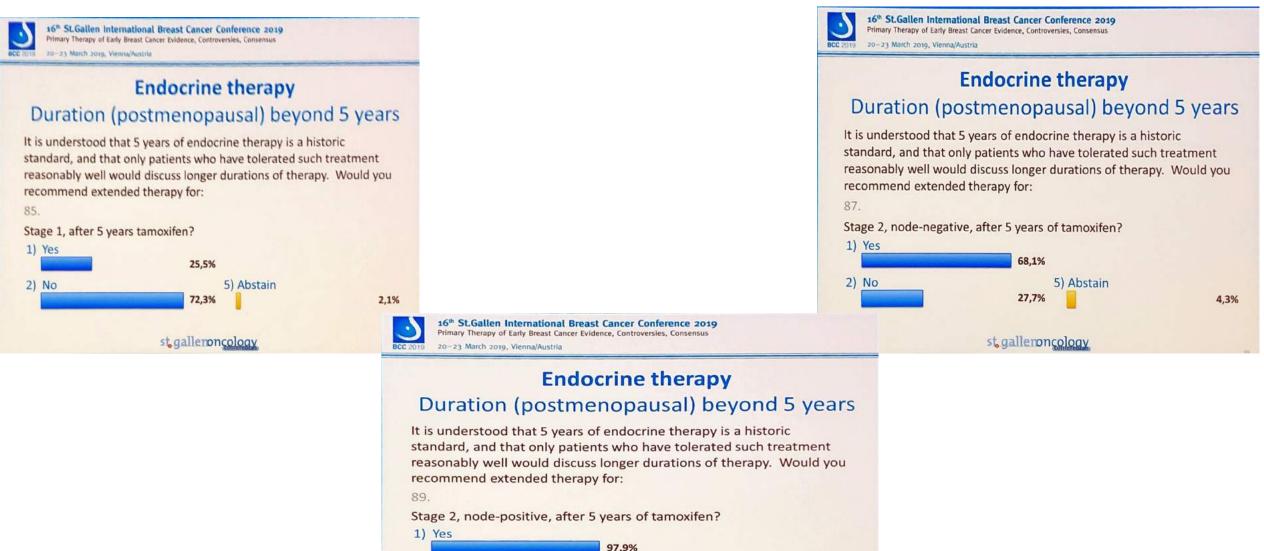


0%

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## PANEL DECISION ON EA-ET IN POSTMENOPAUSAL WOMEN





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2.1%

5) Abstain

0%

2) No

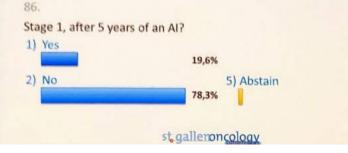
## PANEL DECISION ON EA-ET IN POSTMENOPAUSAL WOMEN



#### **Endocrine therapy**

#### Duration (postmenopausal) beyond 5 years

It is understood that 5 years of endocrine therapy is a historic standard, and that only patients who have tolerated such treatment reasonably well would discuss longer durations of therapy. Would you recommend extended therapy for:





#### **Endocrine therapy**

#### Duration (postmenopausal) beyond 5 years

It is understood that 5 years of endocrine therapy is a historic standard, and that only patients who have tolerated such treatment reasonably well would discuss longer durations of therapy. Would you recommend extended therapy for:

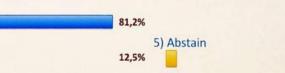
90.

2) No

2.2%

Stage 2, node-positive, after 5 years of an AI?





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### Endocrine therapy

#### Duration (postmenopausal) beyond 5 years

It is understood that 5 years of endocrine therapy is a historic standard, and that only patients who have tolerated such treatment reasonably well would discuss longer durations of therapy. Would you recommend extended therapy for:

88.

6.2%

Stage 2, node-negative, after 5 years of an AI?



