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137-968-042

Wi-Fi: @Hyatt_WiFi

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Questions



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Evaluation form



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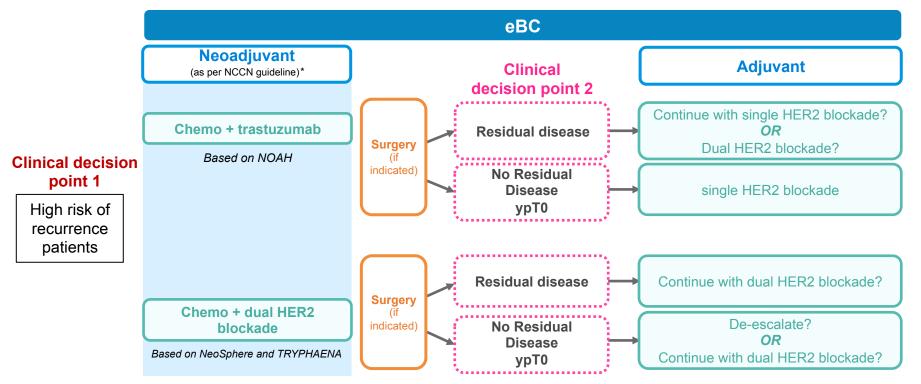


Please note, this meeting is being recorded for the purpose of developing a meeting report



Systemic treatment algorithm and clinical decision point for patients with HER2+/HR- early breast cancer at high risk of recurrence





^{*}National Comprehensive Cancer Network. Breast Cancer (version 1.2018)). https://www.nccn.org/professionals/physician_gls/default.aspx. Accessed 20/06/2018.

Take part in the polling on Meetoo: 137-968-042

For patients with high-risk of relapse, who achieve pathological complete response (pCR) following dual anti-HER2 in the neoadjuvant setting, would you continue with the same treatment regimen?

- 1. Yes
- 2. No, I will de-escalate
- 3. I do not give neoadjuvant treatment

Navigating systemic therapy for patients with HER2+ eBC at high risk of recurrence

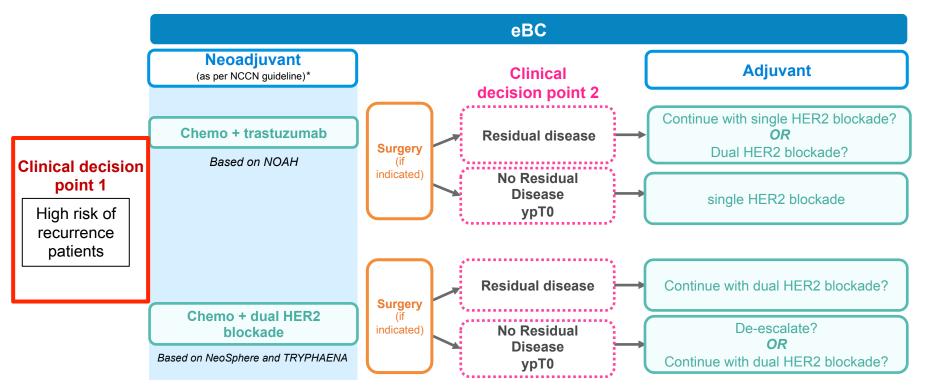
What can we learn from clinical practice and trial data?







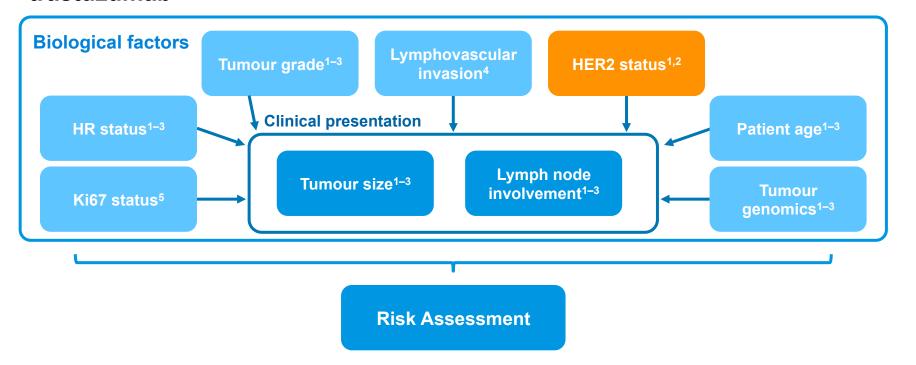
Systemic treatment algorithm and clinical decision point for patients with HER2+/HR- early breast cancer at high risk of recurrence







Various risk factors including tumour biology determine the prognosis of patients with HER2+ eBC who are treated with trastuzumab



- 1. Martei YM & Matro JM. Breast Cancer (Dove Med Press) 2015; 7:337–343;
- 2. Sparano JA, et al. N Engl J Med 2015; 373:2005-2014; 3. Drukker CA, et al. Int J Cancer 2013; 133:929-936;
- 4. Zhang S, et al. BMC Cancer 2017; 17:335; 5. Inwald EC, et al. Breast Cancer Res Treat 2013; 139:539-552.

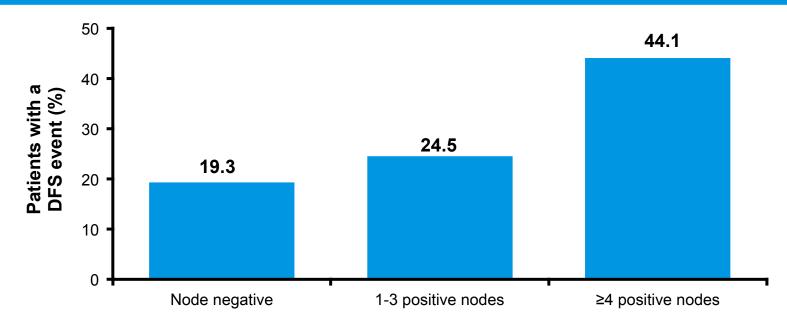


Lymph node involvement



HERA: DFS event rate increases with increasing numbers of positive nodes

HERA 11-year FU: DFS events by nodal status with 1 year of adjuvant trastuzumab



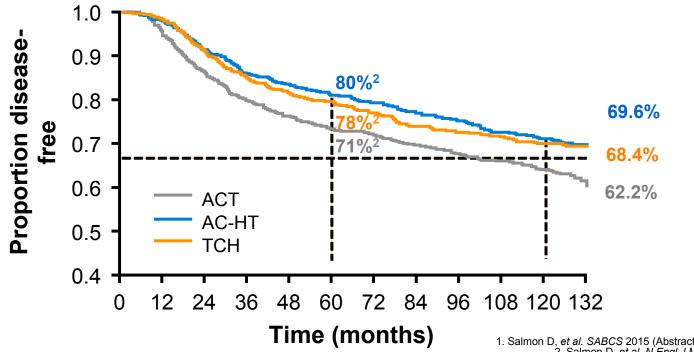


Lymph node involvement



BCIRG 006: Regardless of chemotherapy partner, after 1 year of adjuvant trastuzumab, ~30% of node-positive patients still relapse

BCIRG 006: DFS in node-positive disease after 10 year follow-up¹



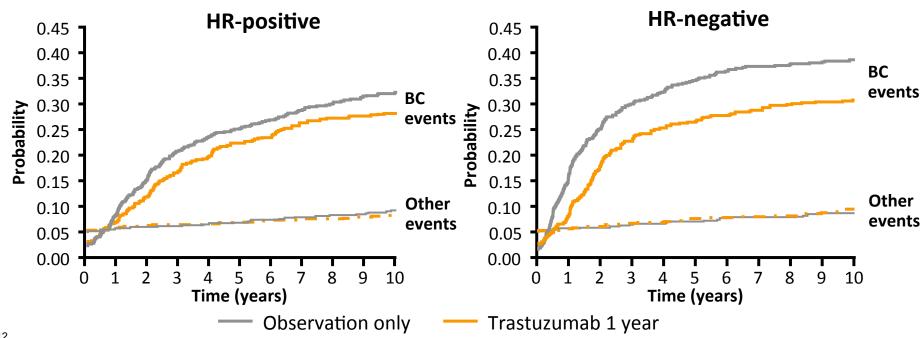


HR status



HERA: HR- status confers a higher risk of early relapse within a shorter timeframe

HERA 11-year FU: Cumulative incidence of type DFS event with 1 year of adjuvant trastuzumab

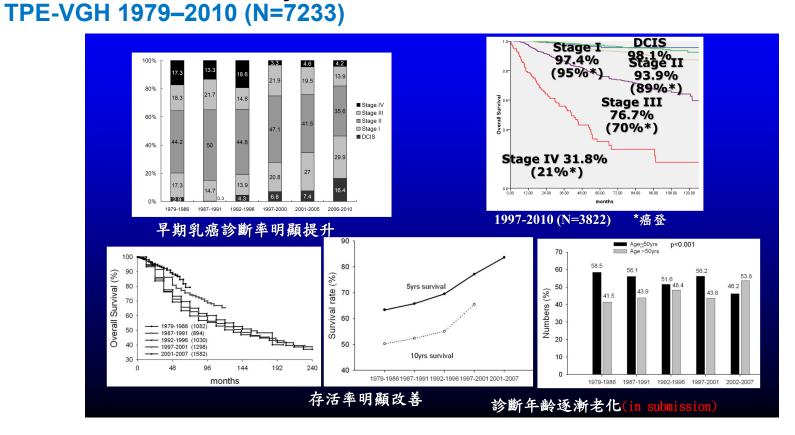




<u>Age</u>



Trend of age shift and decreasing mortality of breast cancer in Taiwanese women: a 30 years cohort observation





Subtype Multiple Cox Regression for breast cancer overall survival



TPE-VGH 2000-2016/08 (N=6922)

	Co-efficient	S.E.	р	HR	95% C	.I. for HR
Age ≤ 35yrs	ref	-	-	-	-	-
36 - 50yrs	332	.209	.113	.718	.476	1.081
51 - 65yrs	131	.207	.527	.877	.585	1.316
> 65yrs	.424	.209	.043	1.528	1.014	2.301
LN +/-	.603	.095	<0.0001	1.828	1.517	2.202
ER +/-	487	.123	<0.0001	.615	.483	.782
PR +/-	247	.118	.037	.781	.619	.985
HER2 +/-	357	.101	<0.0001	.700	.574	.853
T size < 2cm	ref	-	-	-	-	-
2 - 5cm	.487	.088	<0.0001	1.627	1.368	1.934
> 5cm	1.027	.146	<0.0001	2.792	2.097	3.717
LV Inva +/-	.423	.097	<0.0001	1.527	1.262	1.847



Can multiple biomarkers predict treatment outcomes for patients with HER2+ expression?



TPE-VGH breast cancer database 2010–2016/08 (N=1417)

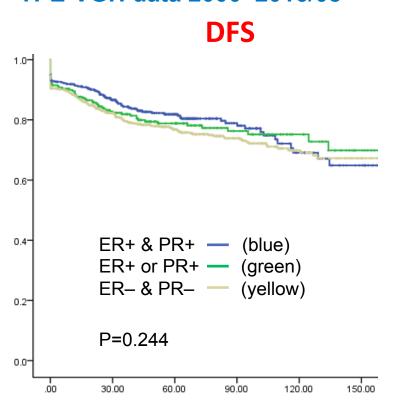
HER2 (+)	Overall S	Survival	Disease-Free Survival		
	5y-Survival	р	5y-Survival	р	
Age ≤ 35yrs	80.0		65.2		
36-50	89.0		82.0		
N=1417 51-65	89.3		78.8		
> 65yrs	84.4	0.005	73.5	0.012	
LN (-)	95.8		90.6		
N=1334 (+)	79.5	<0.001	65.2	<0.001	
Size T1	94.1		87.1		
N=1291 T2	86.3		79.1		
T3 \ T4	68.8	<0.001	44.7	<0.001	
Grade 1	100.0		93.0		
2	89.0		79.2		
N=1285 3	86.6	0.043	77.9	0.080	
LVI. (-)	91.8		83.8		
N=1249 (+)	77.7	<0.001	65.9	<0.001	
ER+ & PR+	91.7		81.9		
ER+ or PR+	87.1		78.8		
ER- & PR- N=1416	86.4	0.046	76.8	0.244	
ER (-)	86.5		76.9		
N=1416 (+)	89.9	0.034	80.7	0.112	
PR (-)	86.6		77.3		
N=1416 (+)	91.6	0.027	81.8	0.115	

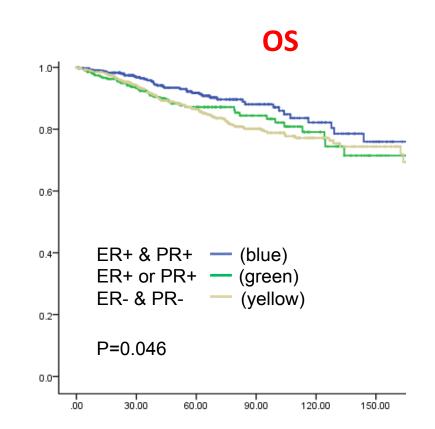
HR status

DFS and OS for HER2+/Neu3+ breast cancer patients according to HR status



TPE-VGH data 2000-2016/08







Multiple cox regression for HER2+ Breast cancer overall survival



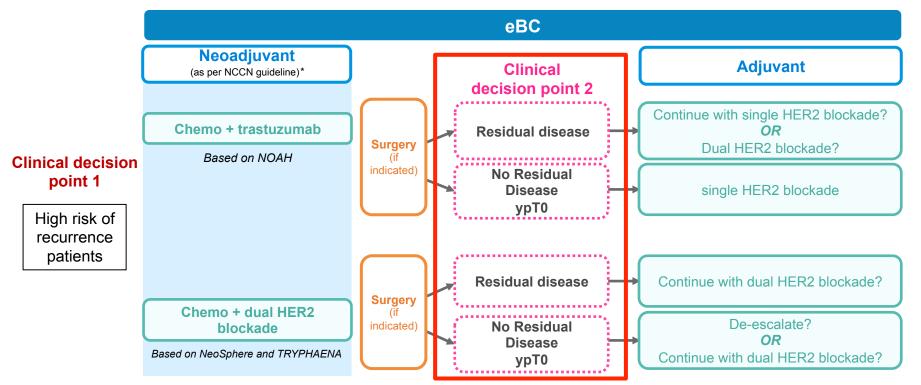
TPE-VGH 2000-2016/08 (N=1326)

	Coefficient	S.E.	р	HR	95% C.	I. for HR
LN +/-	1.717	.619	.005	5.570	1.657	18.724
Target therapy +/-	-1.264	.555	.023	.283	.095	.839

Put in covariance: Age, Surgery, Tumor Type, ER, PR, Ki67, Invasion Necrosis

E.

Systemic treatment algorithm and clinical decision point for patients with HER2+/HR- early breast cancer at high risk of recurrence





pCR allows early assessment of tumor response



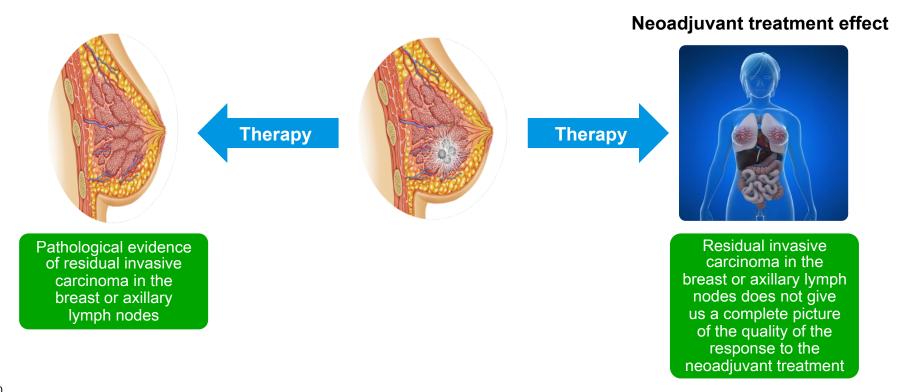


Efficacy evaluation
within weeks vs. years
with time-related endpoints (EFS, OS)



What does a "no pCR" tell us?

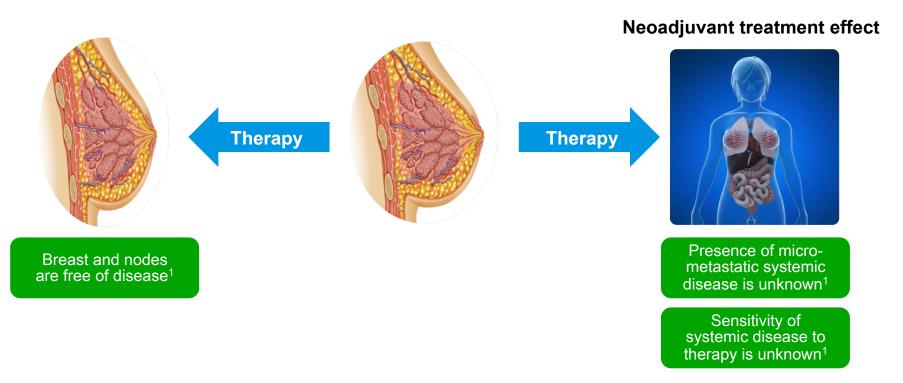






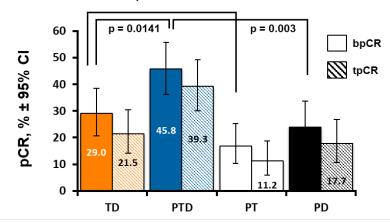
What does a pCR tell us?





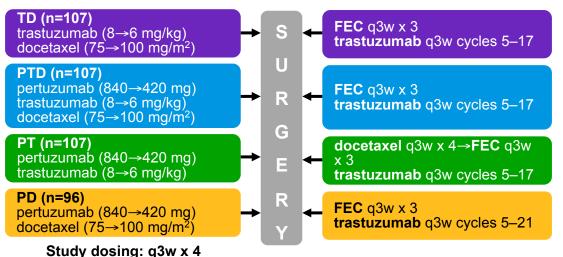
NeoSphere

Phase II Neoadjuvant HER2+ study



Patients with operable or locally advanced/ inflammatory HER2+ BC

Chemo-naive & primary tumors >2 cm (N=417)



Primary endpoint:

comparison of bpCR rates

TD vs PTD

TD vs PT

PTD vs PD

Secondary endpoints:

PFS

DFS

Safety

Exploratory analyses:

PFS by hormone

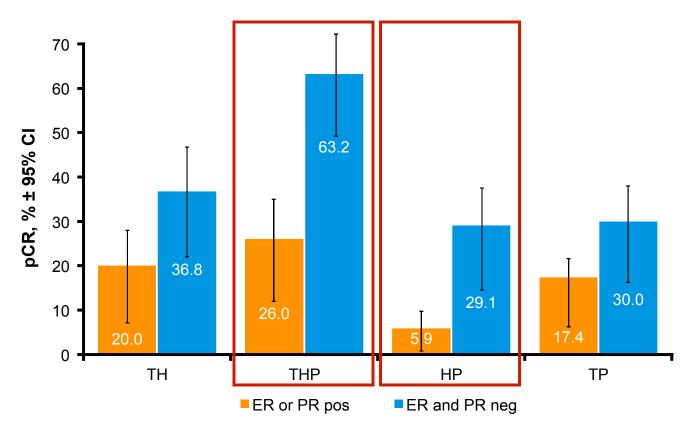
receptor status

PFS-tpCR association



NeoSphere: pCR and hormone receptors status





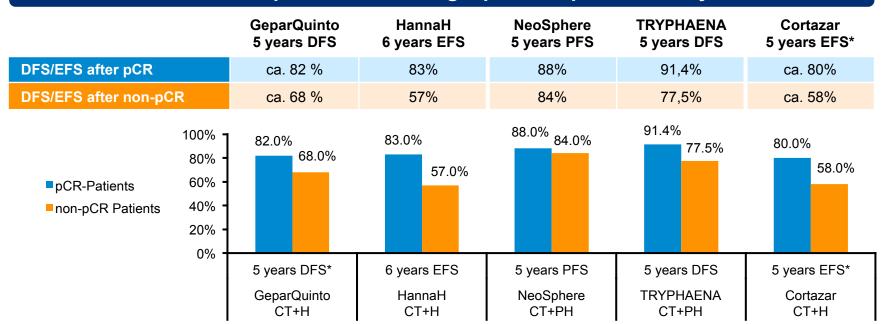


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Disease and event free survival according to pCR status pCR is a prognostic information for the individual patient

10-15% of the patients achieving a pCR relapse within 5 years



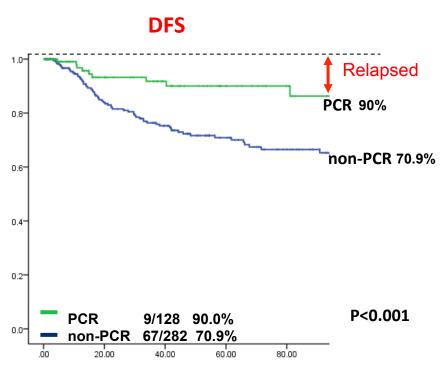
Gianni L, et al. Lancet Oncol 2016; **6**:791-800 incl. appendix.; Cortazar et al., Lancet 2014; Roche data on file; Jackisch C SABCS 2017 abstr. PD3-11.





DFS rate for eBC patients that achieved pCR following neoadjuvant therapy

TPE-VGH database 2007–2018/02 (N=410)





pCR predicts better outcome, but not absolute event free status.

A surrogate, but not the final endpoint.

Question: Current treatment is good enough for Her2+ EBC? What's the recurrence rate who receive current standard chemo and one year herceptin treatment?

Take part in the polling on Meetoo: 137-968-042

Based on your knowledge, what is the **10-year relapse rate** of HER2+ eBC patients following one year of Herceptin therapy?

- 1. ≤10%
- 2. 11% 20%
- 3. 21% 30%
- 4. 31% 40%
- 5. >40%



Take part in the polling on Meetoo: 137-968-042

What is the basis for your answer to the previous question (Q2) based on?

- 1. Country Registry data
- 2. Hospital data
- 3. Publication data
- 4. Personal experience and observation



Take part in the polling on Meetoo: 137-968-042

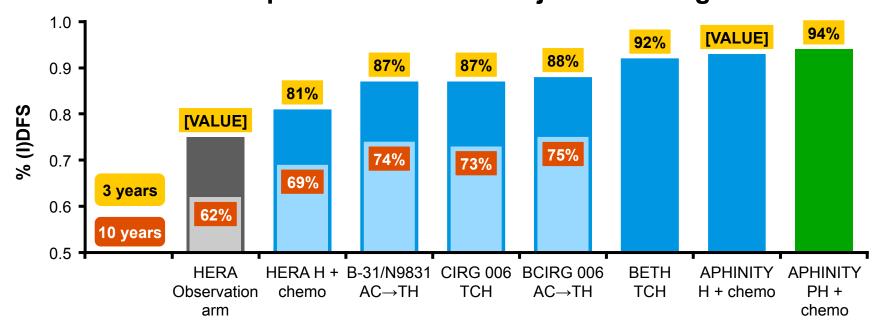
How many years of clinical experience do you have in managing early breast cancer (eBC)?

- 1. ≈5 years
- 2. ≈10 years
- 3. ≈5 years
- 4. ≈20 years
- 5. >20 years



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Short versus long term recurrence 3 years versus 10 years iDFS in HER2+ eBC patients who received Herceptin and Chemo in adjuvant setting



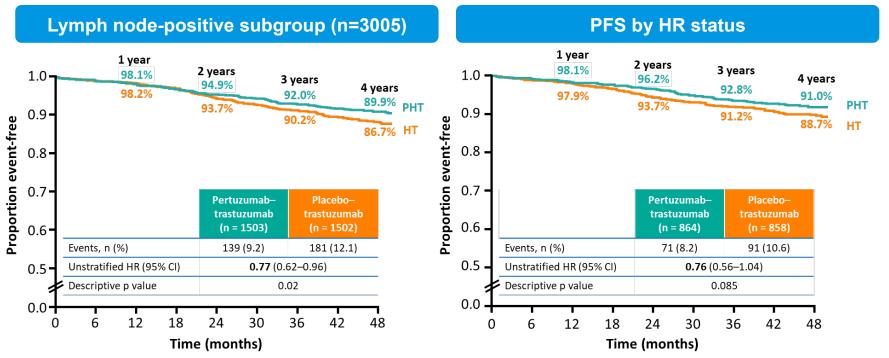
Slamon dj, 2013. Cancer Res 73(24 Suppl): Abstract nr S1-03; Cameron D, 2017, *Lancet* 389:1195-205; Perez EA, 2014, *J Clin Oncol* 32:3744-3752; Slamon D, 2011, *N Engl J Med* 365:1273-83;

Slamon D, 2015, SABCS, Abstract S5-04;





APHINITY: the positive outcome of the study was driven by results in patients with disease at high risk of recurrence



Hazard ratios were estimated by Cox regression. Pertuzumab is only approved in the adjuvant setting in Russia, the USA, Bangladesh, El Salvador, Peru, Brazil, Nicaragua and Guatemala; it is not currently approved in Spain or the European Union.



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The benefit observed with APHINITY is within a range observed in the past for a change to SoC involving a treatment improvement

		INTRODUCTION of a new treatment modality	IMPROVEMENT of a treatment modality
Chemotherapy	Relative risk*1	CMF vs. no chemo 0.70	Anth + taxane vs. anth 0.84
Endocrine therapy		Tam 5 years vs. no tam	Al 5 years vs. tam 5 years
	Relative risk*2	0.50	0.80
Anti-HER2 Anti-HER2 therapy		Trastuzumab vs. observation	APHINITY
	Relative risk*3	0.52 9.9 – 12% improvement in recurrence	0.81 0.5 – 3.6% improvement in recurrence

rate for new modalities^{1,3,4}

rate for improving a modality^{1,5}

^{*} Analysis conducted at different time points; Al, aromatase inhibitor; anth, anthracycline; tam, tamoxifen.

^{1.} Early Breast Cancer Trialists' Collaborative Group (EBCTCG). Lancet 2012; 2. EBCTCG. Lancet 2005; 3. Perez EA, et al. J Clin Oncol 2011; 4. EBCTCG. Cochrane Database Syst Rev 2001; 5. EBCTCG. Lancet 2015.



Patient-reported function and symptoms in APHINITY: A randomized comparison of chemotherapy (C) + trastuzumab (H) + placebo (Pla) versus C + H + pertuzumab (P) as adjuvant therapy in patients with HER2+ early breast cancer (eBC)

Baselga J, et al. ASCO 2018 Abstract 521

Overview

- APHINITY demonstrated an almost 25% reduction in the risk of recurrence or death for patients at high risk of recurrence^a
- Patient-reported outcomes was a secondary endpoint of APHINITY, assessed by EORTC QLQ-C30 and QLQ-BR23 questionnaires

Results

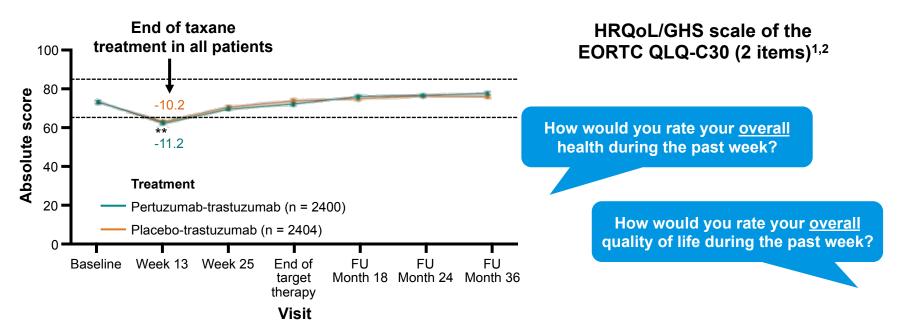
- Questionnaire completion rates were >87%
- Regardless of the HRQoL measures used, results were broadly similar in both arms





Both treatment arms experienced a clinically meaningful decline in HRQoL at the end of taxane therapy (week 13) only

Mean EORTC QLQ-C30 global health status scores by treatment regimen in the ITT population¹



^{*} Indicates time points where there was a clinically meaningful change in absolute score. FU, follow-up; GHS, global health status; HRQoL, health-related quality of life; ITT, intention-to-treat.



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International guidelines recommend the APHINITY regimen in patients with tumours at high risk of recurrence

Recommendations in the adjuvant setting:

Dual blockade with pertuzumab-trastuzumab for HER2+ patients at high risk of relapse



St. Gallen Expert Consensus¹ High risk due to lymph node involvement or HR-negativity



NCCN Breast Cancer Guidelines²
If node-positive (HR-positive and HR-negative disease)



ASCO Guidelines³ High-risk, such as node-positive disease



AGO Guidelines⁴ Node-positive or HR-negative disease



Taiwan consensus for neoadjuvant therapy Recommendation of neoadjuvant systemic treatment regimens



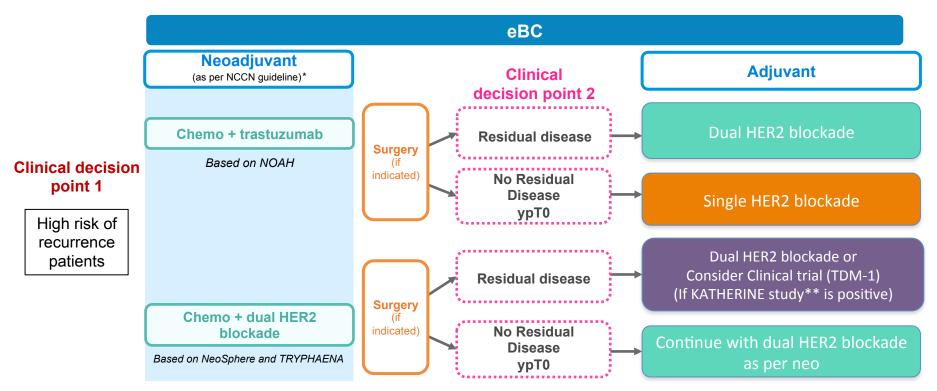
- The regimens recommended in adjuvant setting can be considered in the neoadjuvant setting.
- Similar to that in adjuvant setting, the determination of regimens should be balanced in anti-tumor activity and toxicity to avoid under or over treatment.
- To avoid over-treatment for HER2+ disease, patients who fit the main characteristics (not eligibility) of adjuvant trial of weekly paclitaxel/trastuzumab¹or docetaxel/cyclophosphamide/ trastuzumab² (tumor ≤ 2 cm, LN–, HR+) may prefer surgery first followed by standard adjuvant treatment.
- To avoid under-treatment for HER2+ disease, patients should considered completion of standard adjuvant regimens even the patients achieved pathological complete response.
- For advanced disease, with lymph node involvement, neoadjuvant dual blockade plus chemotherapy is the preferred regimen.
- Generally, the sample size of neoadjuvant trials is small, so most of them could not provide sufficient statistical power to demonstrate the survival difference. This weakness resulted in several controversial issues. For controversial issues, we need to evaluate the evidence from both of adjuvant and neoadjuvant setting.





Potential future treatment algorithm for high risk of recurrence HER2+/HR- eBC patients





Conclusion



- Neoadjuvant therapy is a good choice for eBC, especially for HER2+ breast cancer
 - Makes clinical decision points clearer
 - Be cautious of under- or over-treatment
- pCR predicts better outcome, but does not mean an absolute event free status
 - A surrogate, but not the final endpoint
 - Regardless of anti-HER2 therapy response in the neoadjuvant setting, it is important to continue treatment following surgery
- Following the positive APHINITY study, patients at high risk of recurrence should receive 18 cycles of pertuzumab—trastuzumab entirely in the adjuvant setting or split across the neoadjuvant and adjuvant settings

Summary of experience from TPE-VGH:

- LN+, larger tumor size, ER/PR– and LVI are poor prognostic factors for HER+ BC survival
- ER– and T3 & 4 are poor prognostic factors for HER2+/N– BC (data not shown)
- HR-/HER2+ & HR+/HER2+ are different entities
- LN metastasis and the absence of targeted therapy are two independent prognostic factors for HER2+ BC survival.



Panel discussion and Q&A session

Panelists: Dr Elaine Lim

National Cancer Centre, Singapore

Dr Wong Nan Soon

OncoCare Cancer Centre, Singapore



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For patients at high-risk of relapse, who achieve pathological complete response (pCR) following **dual anti-HER2** in the neoadjuvant setting, would you continue with the same treatment regimen?

- 1. Yes
- 2. No, I will de-escalate
- 3. I do not give neoadjuvant treatment

Q&A



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Patient Case

- 35-year-old female, previously well
- Right breast 4cm clinical, grade 2, ER- and PR-negative, HER2-positive, right axilla lymph node positive on core biopsy
- Treated with AC-THP
- Patient had compete clinical response
- Went for wide local excision and pathology showed pCR without residual invasive disease in breast and axilla

What would you do?

- Complete adjuvant pertuzumab/trastuzumab for total 1 year
- Continue adjuvant trastuzumab (H) only for total 1 year
- 3. No further systemic treatment

Thank you for your participation

Evaluation form



Please remember to fill in the evaluation form.



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Your feedback is greatly appreciated.

