

Key SABCS Presentations Issue 1, 2011

Combination of Trastuzumab, Pertuzumab and Docetaxel as Neoadjuvant Therapy in the Management of Previously Untreated HER2-Positive Early, Locally Advanced and Inflammatory Breast Cancer

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CME INFORMATION

OVERVIEW OF ACTIVITY

The annual San Antonio Breast Cancer Symposium (SABCS) is unmatched in its significance with regard to the advancement of breast cancer treatment. It is targeted by many members of the clinical research community as the optimal forum in which to unveil new clinical data. This creates an environment each year in which published results from a plethora of ongoing clinical trials lead to the emergence of many new therapeutic agents and changes in the indications for existing treatments across all breast cancer subtypes. In order to offer optimal patient care — including the option of clinical trial participation — the practicing medical oncologist must be well informed of the rapidly evolving data sets in breast cancer. To bridge the gap between research and patient care, this CME activity will deliver a serial review of the most important emerging data sets from the latest SABCS meeting, including expert perspectives on how these new evidence-based concepts can be applied to routine clinical care. This activity will assist medical oncologists and other cancer clinicians in the formulation of optimal clinical management strategies for breast cancer.

LEARNING OBJECTIVES

- Recall new data to support the adjuvant investigation of pertuzumab in combination with trastuzumab without chemotherapy in HER2-positive early breast cancer.
- Describe the efficacy and safety of the neoadjuvant docetaxel/trastuzumab/pertuzumab combination for patients with HER2-positive early, locally advanced or inflammatory breast cancer.

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To go directly to slides and commentary, <u>click here</u>.

Sometimes the cavernous San Antonio conference hall can be so devoid of attendees that you feel like you could throw a Frisbee[®] and not hit anyone. But on Friday, December 10, 2010 at 9 AM, even the spillover video simulcast section was standing room only. The occasion was the presentation of three highly anticipated neoadjuvant trials for patients with HER2-positive tumors. To begin this memorable session, Duke's Neil Spector gave a superb review of anti-HER2 treatment, which he ended with a photo of himself wired up in a hospital gown taken shortly after a heart transplant. (He implored the audience to sign their organ donor cards.) Eric Winer finished things off with an enlightening and thought-provoking follow-up discussion that he told me had him up until 3 AM the night before changing slides. In between, there was plenty to warrant the massive crowd.

To start off this series of eight weekly reports from San Antonio, here's the bottom line on these historic neoadjuvant HER2 data sets.

1. <u>German GeparQuinto study: More path CRs with trastuzumab/chemo than</u> <u>lapatinib/chemo</u>

In the first reported head-to-head comparison of these two commonly used anti-HER2 agents, Michael Untch demonstrated that the antibody won out over the TKI with a pCR rate (in breast and nodes) of 31.3 percent versus 21.7 percent. A second study reported at SABCS (see below) also showed an advantage to trastuzumab over lapatinib but was not considered statistically significant. Although it may not matter in the long run, much debate has focused on whether this interesting finding is related to an inherent difference in the antitumor efficacy of these agents or the fact that some patients randomly assigned to lapatinib ended up receiving less drug as a result of discontinuation of therapy due to toxicity.

2. <u>Neo-ALTTO trial: More pCRs with chemo/trastuzumab/lapatinib than with</u> <u>chemo plus either anti-HER2 agent alone</u>

In a parallel trial design to the ongoing 8,000-plus-patient international adjuvant trial, this much-awaited neoadjuvant study evaluated chemo with trastuzumab, lapatinib or the combination, and as reported by José Baselga, the dual anti-HER2 arm doubled the pCR rate to 46.9 percent. Although few, if any, investigators are suggesting this approach outside a protocol setting, perhaps this is a first glimpse at where we'll end up in the next few years.

3. <u>NEOSPHERE study: Chemo/trastuzumab versus chemo/pertuzumab versus</u> <u>chemo/trastuzumab/pertuzumab versus trastuzumab/pertuzumab</u>

Luca Gianni (protégé of the legendary Gianni Bonadonna) surprised the multitudes with this study that demonstrated the best pCR rate (39.3 percent) when both antibodies were combined with chemo. However, he also reported an 11.2 percent pCR rate when pertuzumab and trastuzumab were used together without chemo. Pertuzumab — a yet-unavailable agent that inhibits HER2 dimerization — is about to be studied in the adjuvant setting, adding even more hope and potential for the future.

Of course, it will be some time before we know how these neoadjuvant strategies pan out in the long term, but in another important and encouraging paper by the Germans (<u>the TECHNO trial</u>), pCR after neoadjuvant trastuzumab/chemo was highly correlated with longer-term disease-free and overall survival. If that finding holds true, then SABCS 2010 will forever be remembered as a harbinger of what is to come in the management of HER2-positive disease.

Next up in this series: The big disappointment of San Antonio — the AZURE trial demonstrates no adjuvant benefit with zoledronic acid.

Neil Love, MD **Research To Practice** Miami, Florida

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Combination of Trastuzumab, Pertuzumab and Docetaxel as Neoadjuvant Therapy in the Management of Previously Untreated HER2-Positive Early, Locally Advanced and Inflammatory Breast Cancer

Presentation discussed in this issue

Gianni L et al. **Neoadjuvant pertuzumab (P) and trastuzumab (H): Antitumor and safety analysis of a randomized phase II study ('NeoSphere').** San Antonio Breast Cancer Symposium 2010; <u>Abstract S3-2</u>.

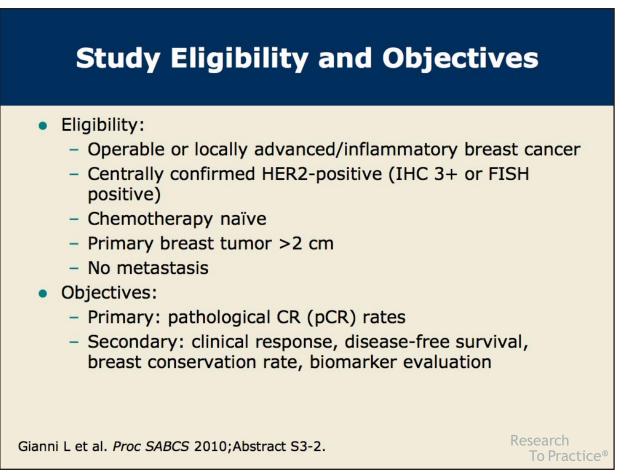
Slides from a presentation at SABCS 2010 and transcribed comments from a recent interview with Luca Gianni, MD (12/10/10)

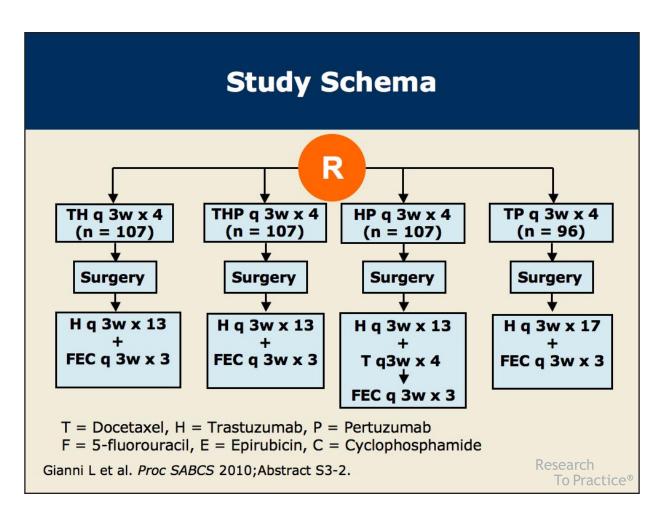
Neoadjuvant Pertuzumab (P) and Trastuzumab (H): Antitumor and Safety Analysis of a Randomized Phase II Study ('NeoSphere')

Gianni L et al. *Proc SABCS* 2010; Abstract S3-2.

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Efficacy Results by Breast and Lymph Nodal Status

| | TH (n = 107) | THP (n = 107) | HP (n = 107) | TP (n = 96) |
|--|-----------------|------------------|-----------------|----------------|
| pCR in breast | 29.0% | 45.8% | 16.8% | 24.0% |
| pCR in breast and node negative at surgery | 21.5% | 39.3% | 11.2% | 17.7% |
| pCR in breast and node positive at surgery | 7.5% | 6.5% | 5.6% | 6.3% |

The differences between the THP arm and other arms for pCR were statistically significant, with all the p-values being <0.05.

Gianni L et al. Proc SABCS 2010; Abstract S3-2.

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Efficacy Results by ER/PR Status

| | тн | тнр | HP | ТР |
|-------------------------------|-------|-------|-------|-------|
| pCR (ER- or PR-positive) | 22.0% | 26.0% | 5.9% | 17.4% |
| pCR (ER- and PR- negative) | 36.8% | 63.2% | 29.1% | 30.0% |

Gianni L et al. Proc SABCS 2010; Abstract S3-2.

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Safety Results

| | TH (n = 107) | THP (n = 107) | HP (n = 108) | TP (n = 94) |
|-------------------------|-----------------|------------------|-----------------|----------------|
| Grade 3-4 neutropenia | 57.0% | 44.9% | 0.9% | 55.3% |
| Febrile neutropenia | 7.5% | 8.4% | 0.0% | 7.4% |
| Grade 3-4 diarrhea | 3.7% | 5.6% | 0.0% | 4.3% |
| Grade 3-4 rash | 1.9% | 1.9% | 0.0% | 1.1% |
| Grade 3-4 increased ALT | 2.8% | 0.0% | 0.0% | 1.1% |
| Serious adverse events | 16.8% | 10.3% | 3.7% | 17.0% |

Any changes in left ventricular ejection fraction did not appear clinically meaningful and were similar among all the four arms.

Gianni L et al. Proc SABCS 2010; Abstract S3-2.

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Conclusions

- Combination of docetaxel, trastuzumab and pertuzumab (THP) achieved a significantly higher pCR rate when compared to docetaxel-trastuzumab (TH), trastuzumab-pertuzumab (HP) or docetaxel-pertuzumab (TP) combinations.
- Efficacy results are most pronounced in ER- and PR-negative tumors.
- Excellent tolerability of the combination regimen of THP.
- There is no appreciable increase in cardiac risk with the addition of pertuzumab to TH combination over a short course of neoadjuvant therapy.

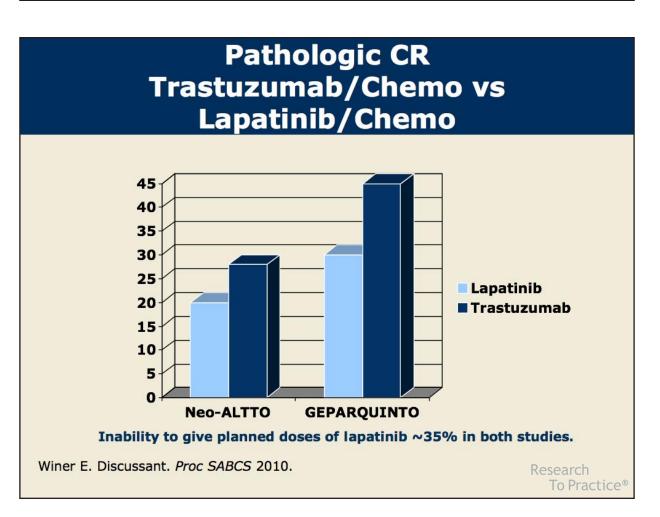
Gianni L et al. Proc SABCS 2010; Abstract S3-2.

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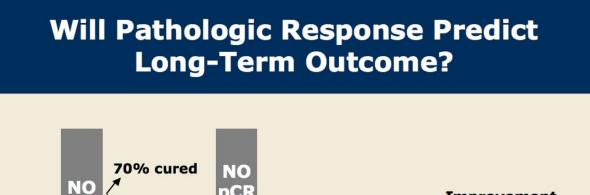
Neoadjuvant Therapy for HER2+ Breast Cancer

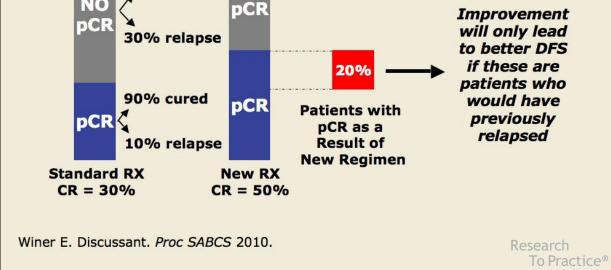
Winer E. Proc SABCS 2010;Discussant.

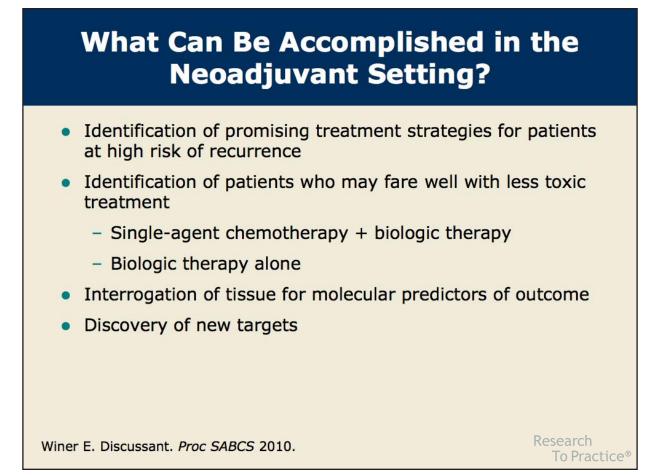
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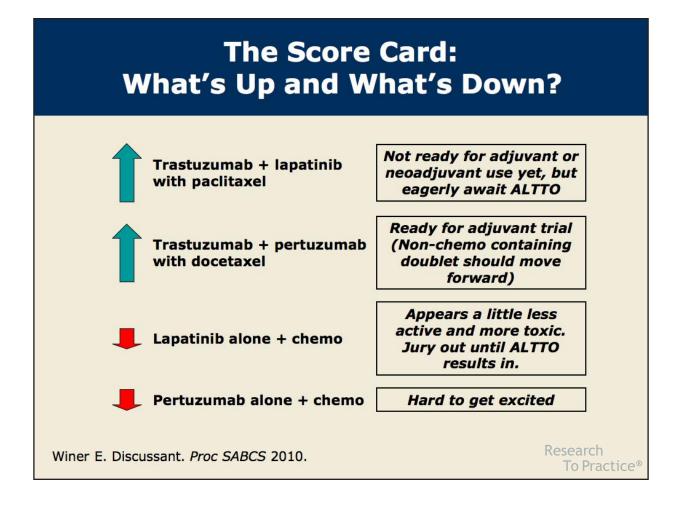


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Investigator Commentary: NeoSphere Neoadjuvant Trial

The triplet combination of docetaxel/trastuzumab and pertuzumab is associated with a very high pathological complete response (pCR) rate of 46 percent in the breast, which is significantly higher than the pCR rate of 29 percent with conventional treatment of docetaxel and trastuzumab achieved in our trial. The pCR rate for pertuzumab and chemotherapy was 24 percent, and interestingly we observed a pCR rate of about 17 percent with the pertuzumab/trastuzumab combination alone.

NeoSphere establishes that the addition of pertuzumab to a conventional regimen of chemotherapy/trastuzumab provides additional benefit for women with HER2-positive breast cancer, which justifies the conduct of an adjuvant trial evaluating this combination. Additionally, the activity observed with the combination of trastuzumab/pertuzumab without chemotherapy justifies continuing the doublet monoclonal antibodies together for 12 months after completion of chemotherapy without risk of incurring an increase in toxicity. As a result of NeoSphere, the Breast International Group will launch such an adjuvant trial by the end of 2011.

Interview with Luca Gianni, MD, December 10, 2010 rch To Practice®