

Proceedings from a Multitumor CME Symposium Focused on the Application of Emerging Research Information to the Care of Patients with Common Cancers

Triple-Negative Breast Cancer — Ruth O'Regan, MD

Select Publications

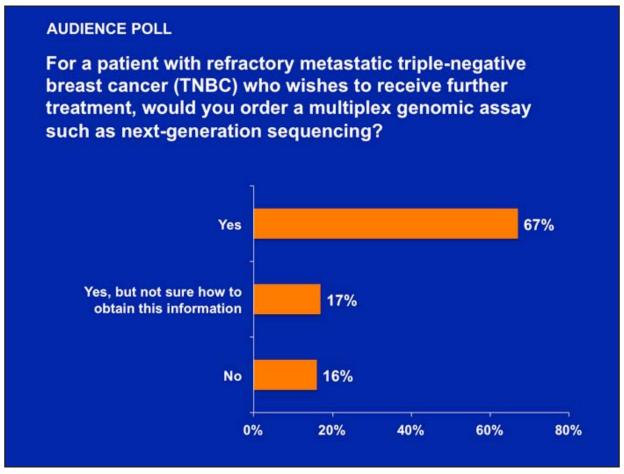
Nanda R et al. A phase Ib study of pembrolizumab (MK-3475) in patients with advanced triple-negative breast cancer. San Antonio Breast Cancer Symposium 2014; Abstract S1-09.

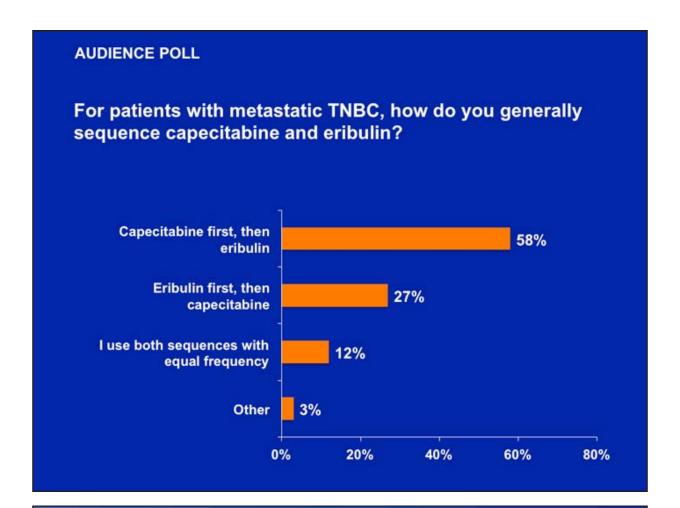
Traina TA et al. Results from a phase 2 study of enzalutamide (ENZA), an androgen receptor (AR) inhibitor, in advanced AR+ triple-negative breast cancer (TNBC). *Proc ASCO* 2015; Abstract 1003.

Untch M et al. A randomized phase III trial comparing neoadjuvant chemotherapy with weekly nanoparticle-based paclitaxel with solvent-based paclitaxel followed by anthracyline/cyclophosphamide for patients with early breast cancer (GeparSepto); GBG 69. San Antonio Breast Cancer Symposium 2014; Abstract PD2-6.





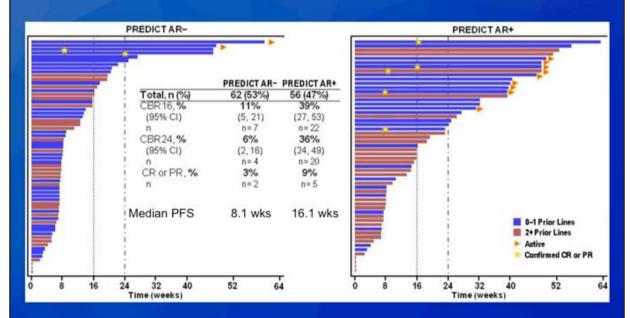




Results from a Phase 2 Study of Enzalutamide (ENZA), an Androgen Receptor (AR) Inhibitor, in Advanced AR+ Triple-Negative Breast Cancer (TNBC)

Traina TA et al. Proc ASCO 2015; Abstract 1003.

MDV3100-11: Clinical Benefit According to PREDICT AR



CR, complete response; PR, partial response; PFS, progression-free survival; CBR, clinical benefit rate

Traina TA et al. Proc ASCO 2015; Abstract 1003.

Conclusions

Critical finding(s): Enzalutamide exhibits activity in AR-positive TNBC, especially in cancers with AR expression >10% and those with a unique predictive genomic phenotype called PREDICT AR+.

Clinical implication(s): Further evaluation of AR-directed therapies is warranted in AR-positive TNBC using a breast-specific assay for measuring AR expression. PREDICT AR may be used to select patients most likely to benefit from AR-directed therapies.

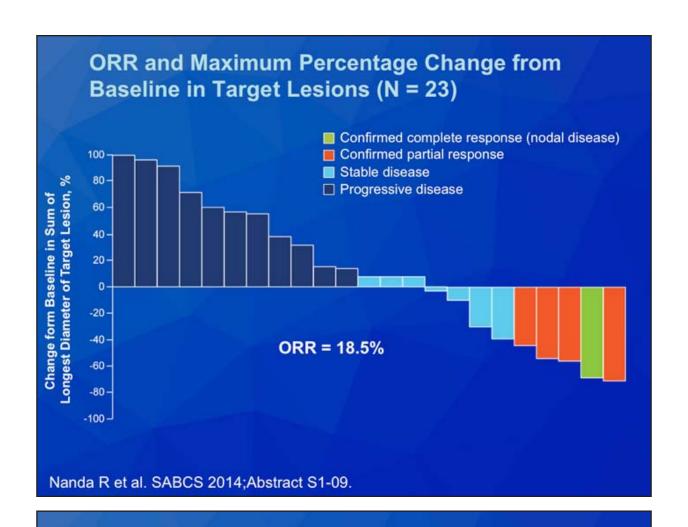
Conclusions

Research relevance: Evaluation of AR in TNBC is warranted to select patients who may benefit from AR-directed therapies. Further research should focus on confirmatory trials with enzalutamide and other AR-directed agents. The use of PREDICT AR to select patients likely to benefit from AR-directed therapies requires further validation.

A Phase Ib Study of Pembrolizumab (MK-3475) in Patients with Advanced Triple-Negative Breast Cancer

Nanda R et al.

San Antonio Breast Cancer Symposium 2014; Abstract S1-09.



Conclusions

Critical finding(s): Pembrolizumab appears active as a single agent in patients with triple-negative breast cancer.

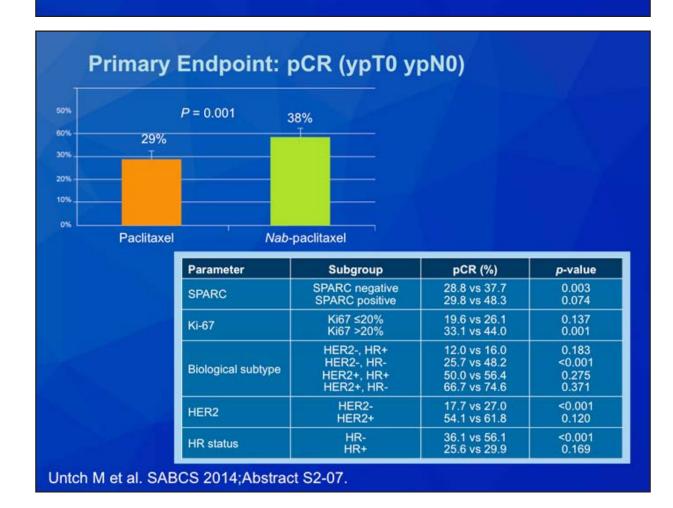
<u>Clinical implication(s)</u>: The activity of pembrolizumab in triple-negative breast cancer appears promising. Patients with triple-negative breast cancer should be considered for enrollment in trials utilizing immunologic approaches.

Research relevance: The use of immunologic approaches to treat cancers appears promising and warrants further evaluation. Biomarkers associated with efficacy will be important to determine which patients are likely to benefit.

A Randomized Phase III Trial Comparing Neoadjuvant Chemotherapy with Weekly Nanoparticle-Based Paclitaxel with Solvent-Based Paclitaxel Followed by Anthracyline/Cyclophosphamide for Patients with Early Breast Cancer (GeparSepto); GBG 69

Untch M et al.

San Antonio Breast Cancer Symposium 2014; Abstract S2-07.



Conclusions

Critical finding(s): The substitution of *nab* paclitaxel for paclitaxel followed by doxorubicin/cyclophosphamide increased the rate of pathologic complete response (pCR) in patients with breast cancer, most notably in patients with TNBC, where pCR was almost doubled.

Clinical implication(s): Nab paclitaxel is an option, though not approved, as an alternative to paclitaxel as preoperative therapy for TNBC. Given the lack of approval, nab paclitaxel could be considered in patients who are unable to tolerate paclitaxel. The findings are somewhat surprising given the fact that nab paclitaxel was not superior to paclitaxel in the first-line metastatic setting.

Conclusions

Research relevance: Findings need to be confirmed in patients with TNBC. The addition of carboplatin to *nab* paclitaxel in the preoperative setting may be worth investigating.