

CONTESSA TRIO: A Multinational, Multicenter, Phase 2 Study of Tese taxel plus 3 Different PD-(L)1 Inhibitors in Patients with Metastatic Triple-Negative Breast Cancer (TNBC) and Tese taxel Monotherapy in Elderly Patients with HER2- Metastatic Breast Cancer (MBC)

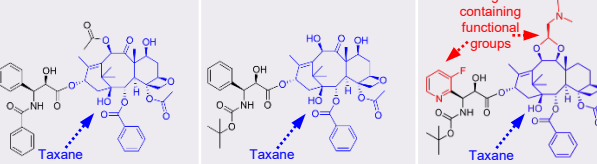
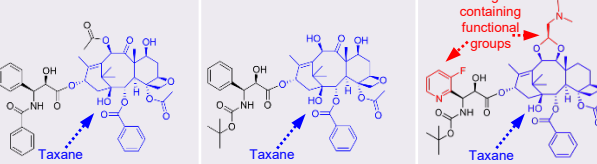
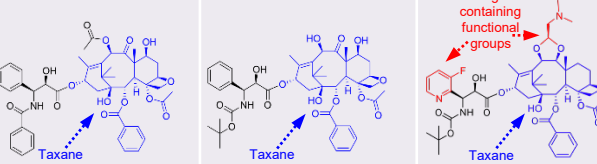
Sara Tolaney¹, Joanne L. Blum², Igor Bondarenko³, Arlene Chan⁴, Noshir DaCosta⁵, Yin Hsun Feng⁶, Yann Izarzugaza⁷, Sung-Bae Kim⁸, Mei-Ching Liu⁹, Maria Eva Pérez Lopéz¹⁰, Mafalda Oliveira¹¹, Samuel Guan Wei Ow¹², Michel Pavic¹³, Hope S. Rugo¹⁴, Lee Schwartzberg¹⁵, Agostina Stradella¹⁶, Stew Kroll¹⁷, Joseph O'Connell¹⁷, Thomas Wei¹⁷, Elizabeth Mittendorf¹⁸

¹Dana-Farber Cancer Institute, Boston, MA; ²Baylor University Medical Center, Texas Oncology, US Oncology, Dallas, TX; ³City Clinical Hospital No4, Dnipro, Ukraine; ⁴Breast Cancer Research Centre-Western Australia and Curtin University, Perth, Australia; ⁵North Shore Hematology Oncology Associates, Stony Brook, NY; ⁶Chi Mei Medical Center, Tainan City, Taiwan; ⁷Hospital Universitario Fundación Jiménez Díaz, Madrid, Spain; ⁸Asan Medical Center, University of Ulsan College of Medicine, Seoul, Republic of Korea; ⁹Koo Foundation Sun Yat-Sen Cancer Center, Taipei, Taiwan; ¹⁰A Coruña Universitario Hospital, La Coruña, Spain; ¹¹Hospital Universitari Vall d'Hebron, Barcelona, Spain; ¹²National University Cancer Institute, Singapore, Singapore; ¹³McPeak-Sirois Group, Centre Hospitalier Universitaire de Sherbrooke (CRCHUS), Sherbrooke Quebec, Canada; ¹⁴University of California San Francisco Comprehensive Cancer Center, San Francisco, CA; ¹⁵West Cancer Center, Memphis, TN; ¹⁶Institut Catala d'Oncologia Hospital Duran i Reynals, Barcelona, Spain; ¹⁷Odonate Therapeutics, Inc., San Diego, CA; ¹⁸Brigham and Women's Hospital, Boston, MA

Background

- Chemotherapy regimens for patients with MBC that offer robust efficacy while preserving patient quality of life are needed
- Tese taxel is a novel taxane with several properties that make it unique (**Table 1**), including:
 - Oral administration with a low pill burden
 - A long (~8-day) terminal plasma half-life ($t_{1/2}$) in humans, enabling infrequent, once-every-3-weeks (Q3W) dosing (**Figure 1**)
 - No observed hypersensitivity reactions
 - Preclinical evidence of central nervous system (CNS) penetration
 - Significant activity against chemotherapy-resistant tumors
- More than 600 patients have been treated with tese taxel in clinical studies

Table 1: Tese taxel's Unique Pharmacologic Properties

Molecule	Paclitaxel	Docetaxel	Tese taxel
Structure			
Substantially effluxed by P-gp pump ^a	Yes	Yes	No
Oral bioavailability in preclinical studies	8% ¹	18% ²	56%
Solubility (µg/mL) ^b	0.3 ³	0.5 ⁴	41,600
Terminal plasma half-life in humans ($t_{1/2}$)	0.5 days ⁵	0.5 days ⁶	8 days ⁷

^a The P-glycoprotein (P-gp) efflux pump mediates gastric absorption as well as chemotherapy resistance

^b At pH conditions similar to gastric fluid

- In a multicenter, Phase 2 study, 38 HER2 negative, HR positive MBC patients receiving tese taxel as a single agent achieved a confirmed response rate of 45% (44% in patients with no prior taxane exposure and 45% in patients with prior taxane exposure) with a low incidence of Grade ≥3 neuropathy and Grade 2 alopecia (**Figure 2**)¹¹

Figure 2: Study TOB203 Tumor Change from Baseline in Target Lesions for HR Positive Patients Receiving Tese taxel Q3W^{a,b}

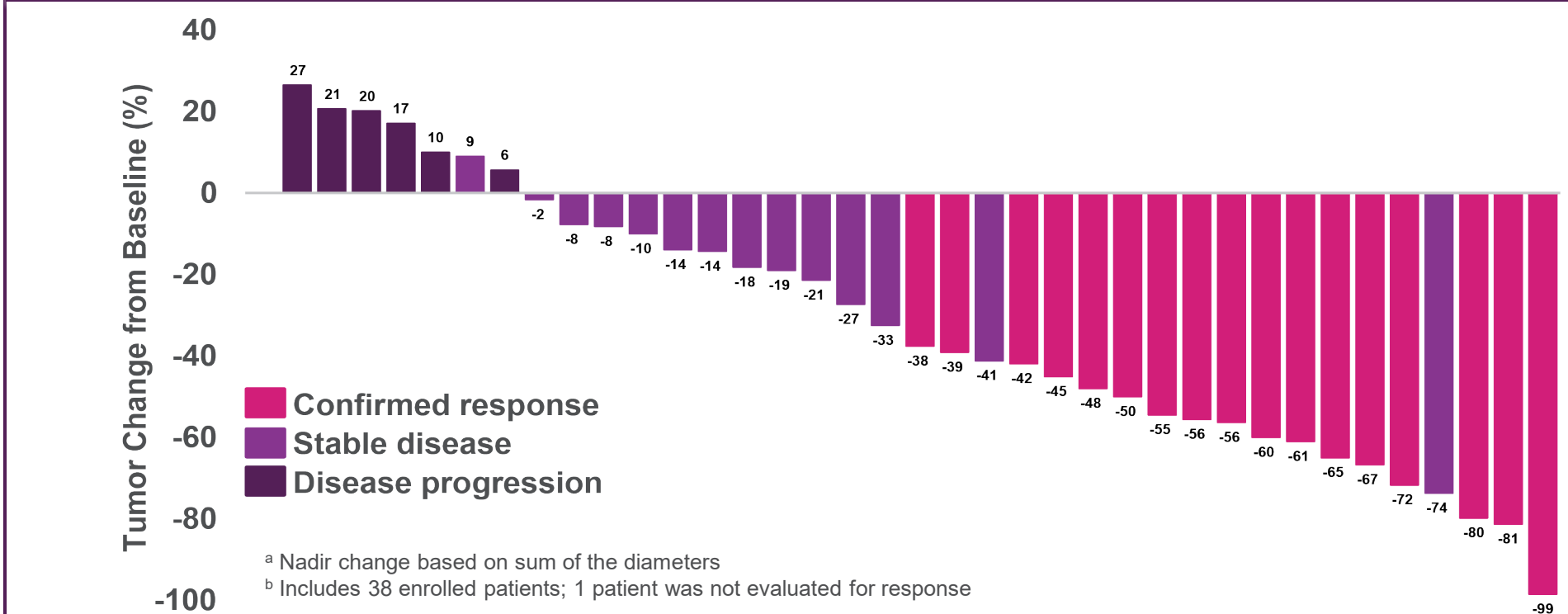


Table 2: Ongoing Tese taxel Clinical Studies

Study Name	Phase	N	Patient Population	Regimen
CONTESSA	3	600	HER2 negative, HR positive MBC with prior taxane	Tese taxel + capecitabine vs. capecitabine
CONTESSA 2	2	125	HER2 negative, HR positive MBC with no prior taxane	Tese taxel + capecitabine
CONTESSA TRIO Cohort 1	2	90-150	Metastatic TNBC	Tese taxel + nivolumab vs. tese taxel + pembrolizumab vs. tese taxel + atezolizumab
CONTESSA TRIO Cohort 2	2	40-60	Elderly (≥ 65 years old) with HER2 negative MBC	Tese taxel monotherapy

Study Design (Cohort 1)

- Nivolumab and pembrolizumab (PD-1 inhibitors) and atezolizumab (a PD-L1 inhibitor) are approved for the treatment of multiple types of cancer
- Atezolizumab, in combination with nab-paclitaxel, was recently approved in the U.S. for the treatment of metastatic TNBC (**Figure 3**)¹²

Figure 3: Atezolizumab Plus Nab-paclitaxel PFS Results in Patients with PD-L1 Expression ≥ 1%

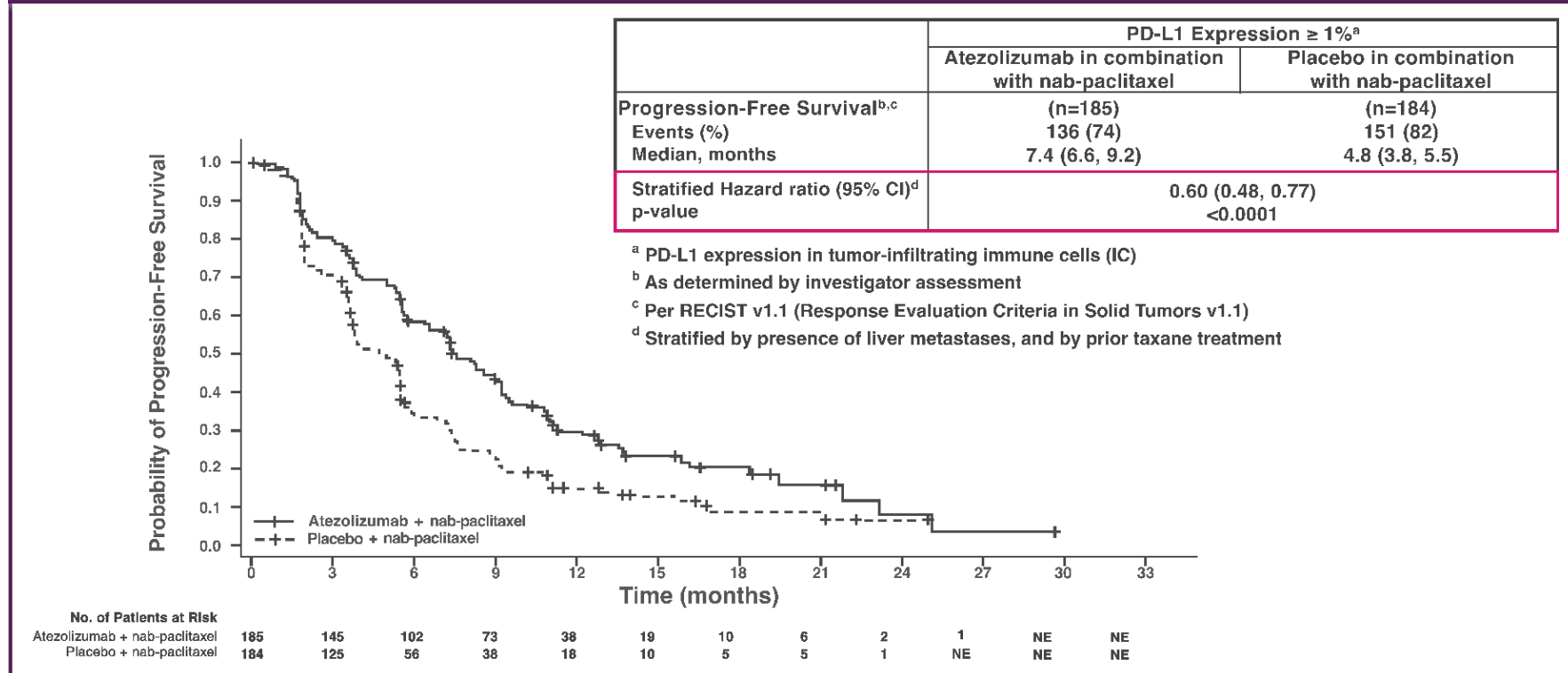


Figure 4: Infusion Schedules for Atezolizumab Plus Nab-paclitaxel and a PD-(L)1 Inhibitor Plus Tese taxel

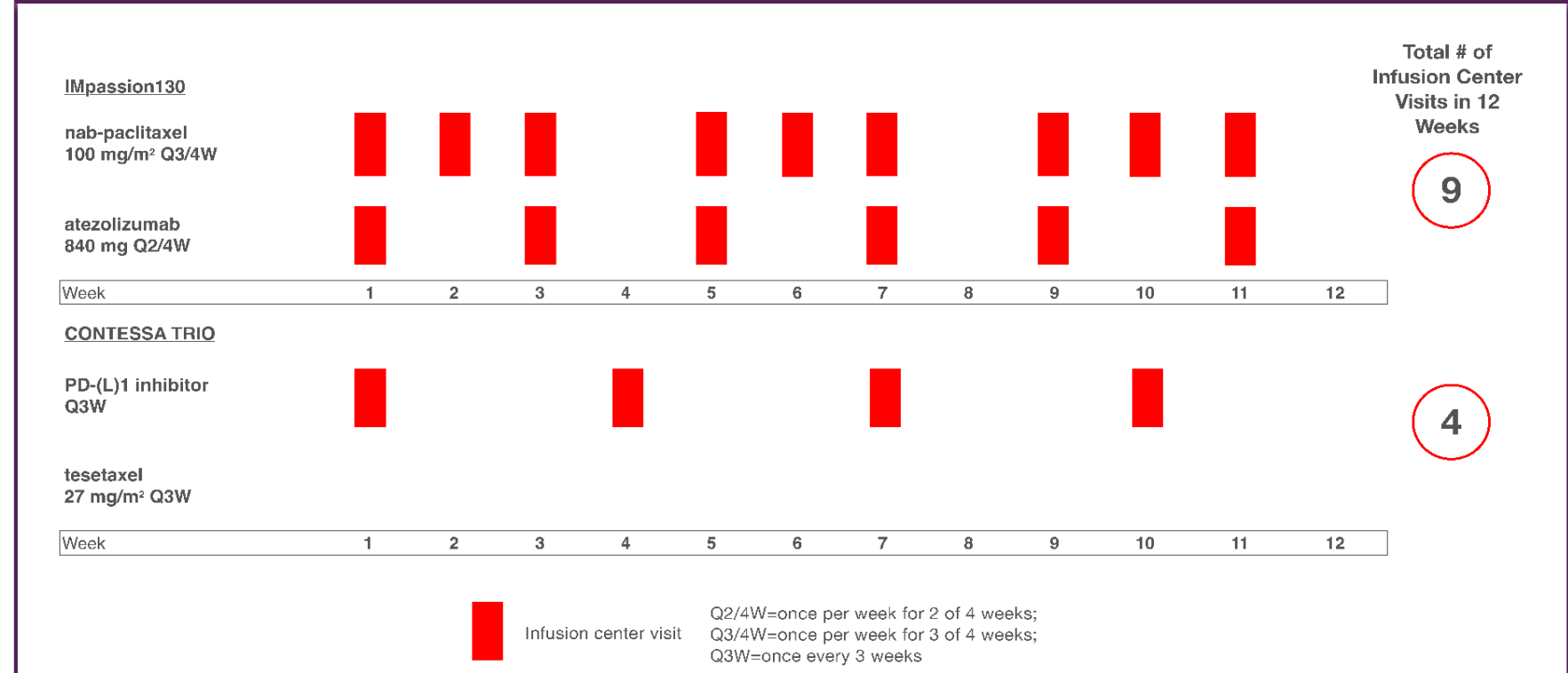


Figure 5: Study Design

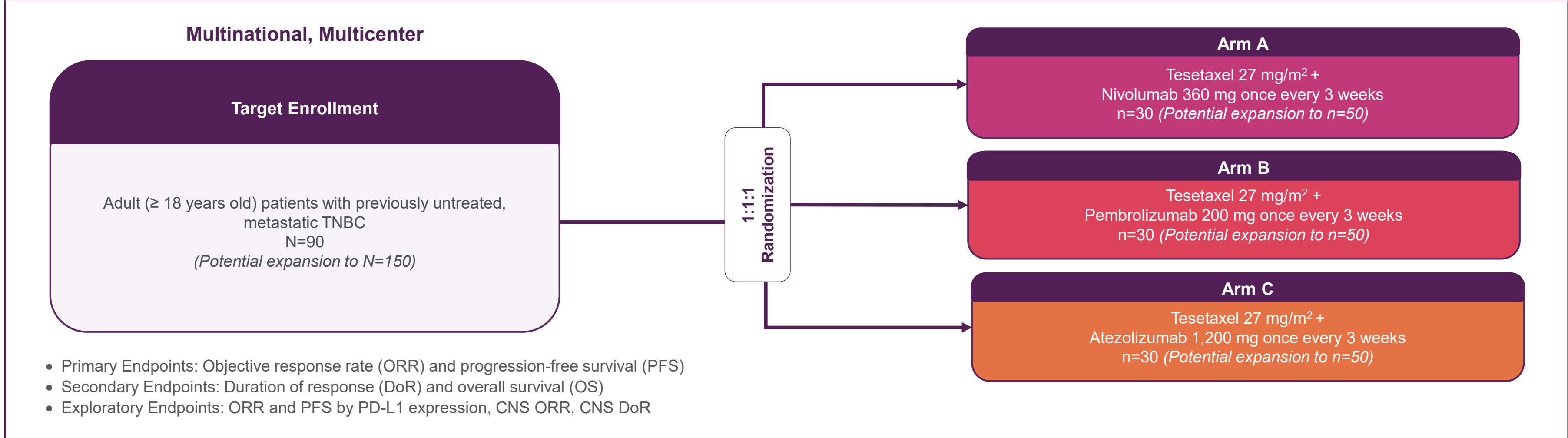


Table 3: Key Eligibility Criteria^a

Patients are ELIGIBLE if they:	Patients are NOT ELIGIBLE if they:
<ol style="list-style-type: none">Have HER2 negative MBC; <i>de novo</i> patients are allowedHave a most recent biopsy that is HR negativeHave a disease-free interval of at least 12 months after completion of systemic neoadjuvant or adjuvant chemotherapy, if applicableReceived a taxane in the (neo)adjuvant setting or are taxane-naïveHave CNS metastases (allowed but not required)Have an adequate, newly obtained or archival core or excisional biopsy of a not-previously-irradiated tumor lesion obtained since completion of any systemic therapy for central determination of PD-L1 status. Metastatic tumor biopsy preferred; PD-L1 status determination is not required for enrollment or randomization	<ol style="list-style-type: none">Have previously received chemotherapy for MBCHave HER2 positive breast cancerHave had prior PD-(L)1/PD-L2 or CTLA-4 inhibitorHave certain autoimmune or inflammatory conditions, active infections, or are using certain immunosuppressive agents

^a All patients must meet full eligibility criteria as stipulated in the Study ODO-TE-B202 Protocol

Table 4: Comparison of 3 Approved PD-L1 Diagnostic Assays

PD-(L)1 Inhibitor	Nivolumab	Pembrolizumab	Atezolizumab
PD-L1 Assay			
Dako 28-8	Approved Assay for Nivolumab	Exploratory	Exploratory
Dako 22C3	Exploratory	Approved Assay for Pembrolizumab	Exploratory
Ventana SP142	Exploratory	Exploratory	Approved Assay for Atezolizumab

Each of the 3 PD-(L)1 inhibitors being combined with tese taxel has an approved PD-L1 diagnostic assay
Tumors from each patient will be tested with all 3 PD-L1 diagnostic assays
Efficacy results for each of the 3 PD-(L)1 inhibitor combinations will be assessed for correlation with the results of each of the 3 approved PD-L1 diagnostic assays

Study Design (Cohort 2)

Figure 6: Study Design

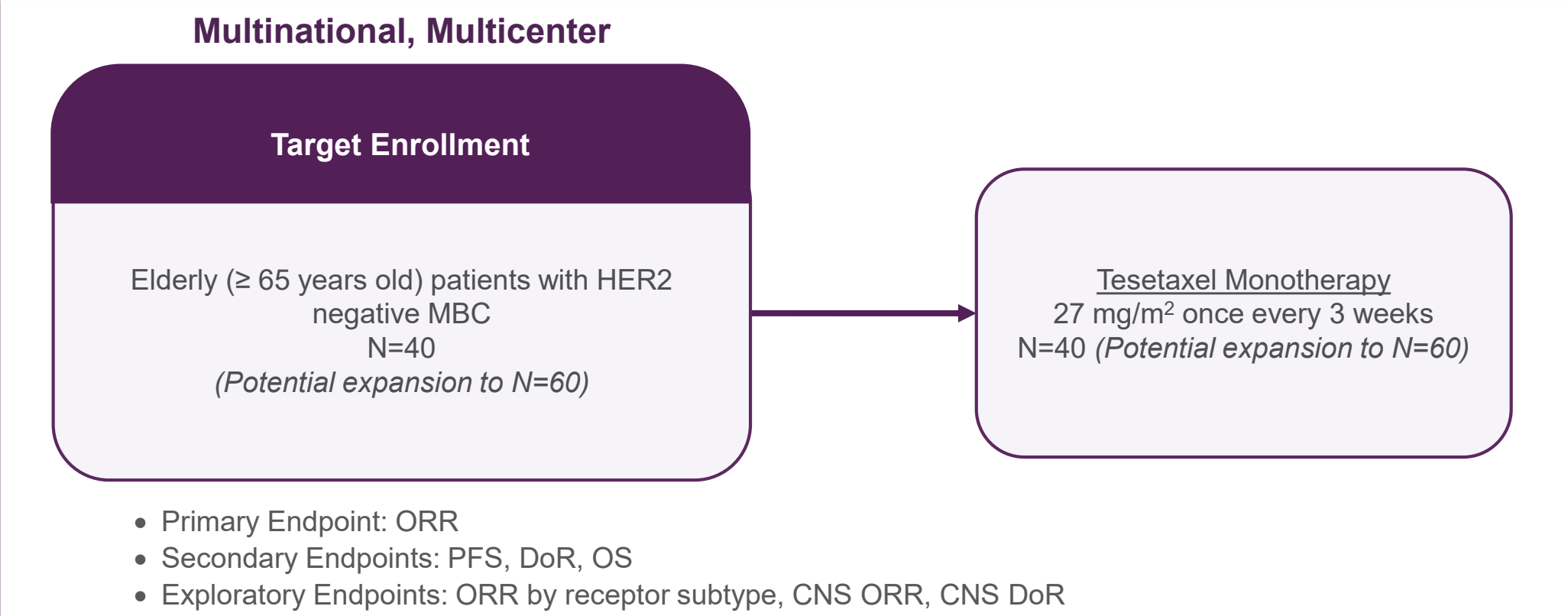


Table 5: Key Eligibility Criteria^a

Patients are ELIGIBLE if they:	Patients are NOT ELIGIBLE if they:
<ol style="list-style-type: none">Have HER2 negative MBC; <i>de novo</i> patients are allowedHave a disease-free interval of at least 12 months after completion of systemic neoadjuvant or adjuvant chemotherapy, if applicableReceived a taxane in the (neo)adjuvant setting or are taxane-naïveHave CNS metastases (allowed but not required)Have had prior endocrine therapy with or without a cyclin-dependent kinase 4/6 inhibitor (allowed but not required) unless endocrine therapy is not indicated; any prior targeted therapies are permitted; there is no limit on the number of prior endocrine therapies	<ol style="list-style-type: none">Have previously received chemotherapy for MBCHave HER2 positive breast cancer

^a All patients must meet full eligibility criteria as stipulated in the Study ODO-TE-B202 Protocol

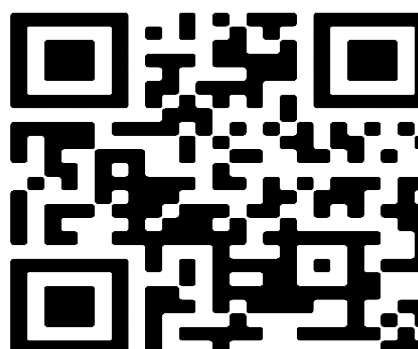
Study Highlights

- Chemotherapy regimens for patients with MBC that offer robust efficacy while preserving patient quality of life are needed
- Tese taxel is a novel taxane that is taken orally Q3W with a low pill burden, no history of hypersensitivity reactions and improved activity against chemotherapy-resistant tumors
- In a multicenter, Phase 2 study, HER2 negative, HR positive MBC patients receiving tese taxel as a single agent achieved a confirmed response rate of 45% with a low incidence of Grade ≥3 neuropathy and Grade 2 alopecia
- CONTESSA TRIO is a multinational, Phase 2 study of tese taxel plus three different PD-(L) 1 inhibitors in patients with metastatic TNBC and tese taxel monotherapy in elderly patients with HER2 negative MBC
- The primary efficacy endpoints are ORR and PFS for Cohort 1 and ORR for Cohort 2
- In March 2019, the study was initiated with planned enrollment of approximately 90 patients (potential expansion to 150 patients) across 13 countries

References

- Shanmugam et al, *Drug Development and Industrial Pharmacy* 2015;41(11):1864-1876
- McEntee et al, *Veterinary and Comparative Oncology* 2003;1(2):105-112
- Montaseri, *Taxol: Solubility, Stability and Bioavailability* 1997
- Bharate et al, *Bioorganic & Medicinal Chemistry Letters* 2015;25(7):1561-1567
- Tan et al, *British Journal of Cancer* 2014;110(11):2647-54
- Taxotere (docetaxel) prescribing label
- Lang et al, 2012 ASCO Annual Meeting, *Journal of Clinical Oncology* 2012;20 (15 suppl):2555
- Pharmacokinetic data from Studies 927A-PRT001, 927E-PRT003, 927E-PRT005, 927A-PRT006, and 927E-PRT007
- Shionoya et al, *Cancer Science* 2003;94(5):459-66
- Trock et al, *Journal of the NCI* 1997;89(13):917-31
- Seidman et al, *Journal of Clinical Oncology* 36, 2018 (suppl; abstr 1042; poster #123)
- Tecentriq (atezolizumab) prescribing label

Copies of this poster obtained through QR (Quick Response) and/or text key codes are for personal use only and may not be reproduced without written permission of the authors. This Study is sponsored by Odonate Therapeutics, Inc.



This presentation is the intellectual property of the author/presenter. Contact them at jocconnell@odonate.com for permission to reprint and/or distribute.