Meet The Professor Optimizing the Selection and Sequencing of Therapy for Patients with Triple-Negative Breast Cancer

Sara Hurvitz, MD
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Dr Love — Disclosures

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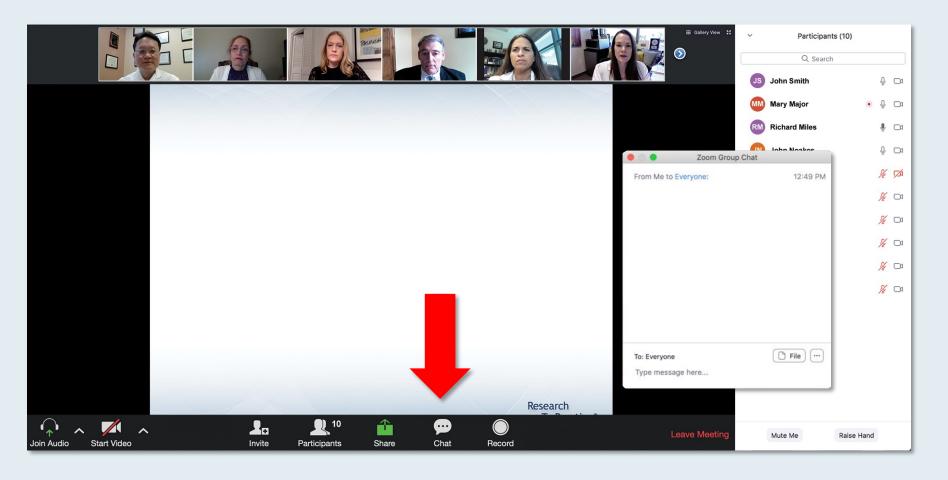


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Contracted Research	Ambrx, Amgen Inc, Arvinas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Daiichi Sankyo Inc, Dignitana AB, Genentech, a member of the Roche Group, Gilead Sciences Inc, GlaxoSmithKline, Immunomedics Inc, Lilly, MacroGenics Inc, Novartis, OBI Pharma Inc, Pfizer Inc, Phoenix Molecular Designs, Pieris Pharmaceuticals Inc, Puma Biotechnology Inc, Radius Health Inc, Samumed LLC, Sanofi Genzyme, Seagen Inc, Zymeworks
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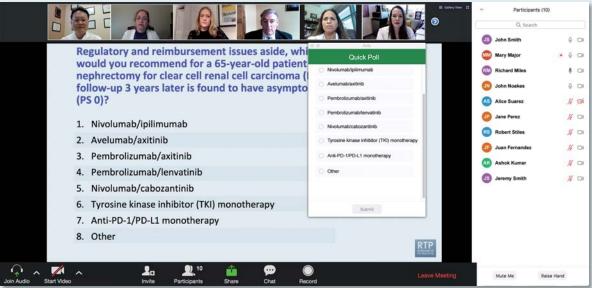


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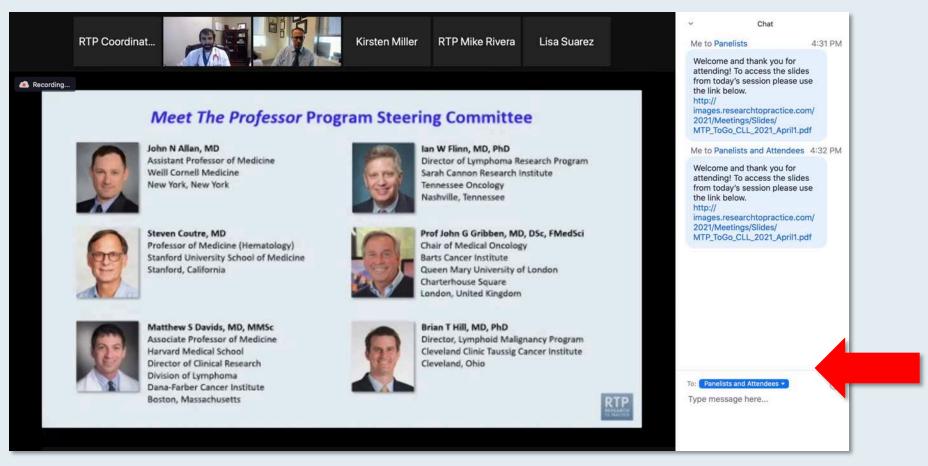


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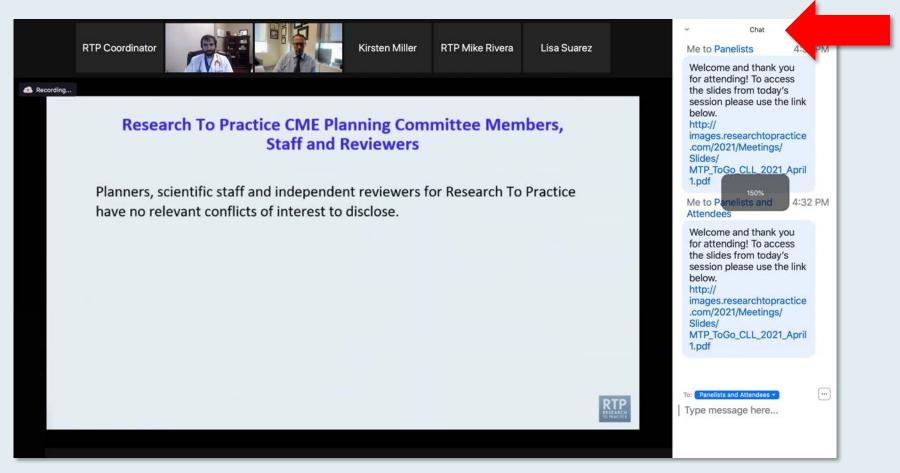


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ONCOLOGY TODAY

WITH DR NEIL LOVE

Key Presentations on Breast Cancer from the 2021 ASCO Annual Meeting



DR SARA TOLANEY
DANA-FARBER CANCER INSTITUTE









Meet The Professor Optimizing the Selection and Sequencing of Therapy for Patients with Advanced Gastrointestinal Cancers

Wednesday, August 25, 2021 5:00 PM - 6:00 PM ET

Faculty

Wells A Messersmith, MD



Summer Oncology Nursing Series

A Complimentary NCPD-Accredited Virtual Curriculum

Gynecologic Cancers

Thursday, August 26, 2021 5:00 PM - 6:00 PM ET

Faculty

Thomas J Herzog, MD
Kimberly A Spickes, MNSc, RN, APRN, OCN, ACNP-BC



Data + Perspectives: Clinical Investigators Discuss the Current and Future Management of Chronic Lymphocytic Leukemia

A Virtual CME Satellite Symposium Series in Conjunction with the Society of Hematologic Oncology 2021 Annual Meeting

> Monday, August 30, 2021 5:00 PM - 6:00 PM ET

> > **Faculty**

Jeff Sharman, MD Mitchell R Smith, MD, PhD Philip A Thompson, MB, BS



Data + Perspectives: Clinical Investigators Discuss the Current and Future Management of Non-Hodgkin Lymphoma

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Andrew M Evens, DO, MSc Ian W Flinn, MD, PhD Gilles Salles, MD, PhD



Meet The Professor Immunotherapy and Novel Agents in Gynecologic Cancers

Wednesday, September 1, 2021 5:00 PM - 6:00 PM ET

Faculty
Joyce F Liu, MD, MPH



Data + Perspectives: Clinical Investigators Discuss the Current and Future Management of Acute Myeloid Leukemia and Myelodysplastic Syndromes

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Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 5 business days.



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Meet The Professor Program Participating Faculty



Aditya Bardia, MD, MPH
Director, Breast Cancer Research Program
Associate Professor
Harvard Medical School
Attending Physician
Massachusetts General Hospital
Boston, Massachusetts



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Erika Hamilton, MD
Director, Breast and Gynecologic
Research Program
Sarah Cannon Research
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Nashville, Tennessee



Rita Nanda, MD

Director, Breast Oncology
Associate Professor of Medicine
Section of Hematology/Oncology
The University of Chicago
Chicago, Illinois



Meet The Professor Program Participating Faculty



Joyce O'Shaughnessy, MD
Celebrating Women Chair in Breast Cancer Research
Baylor University Medical Center
Director, Breast Cancer Research Program
Texas Oncology
US Oncology
Dallas, Texas



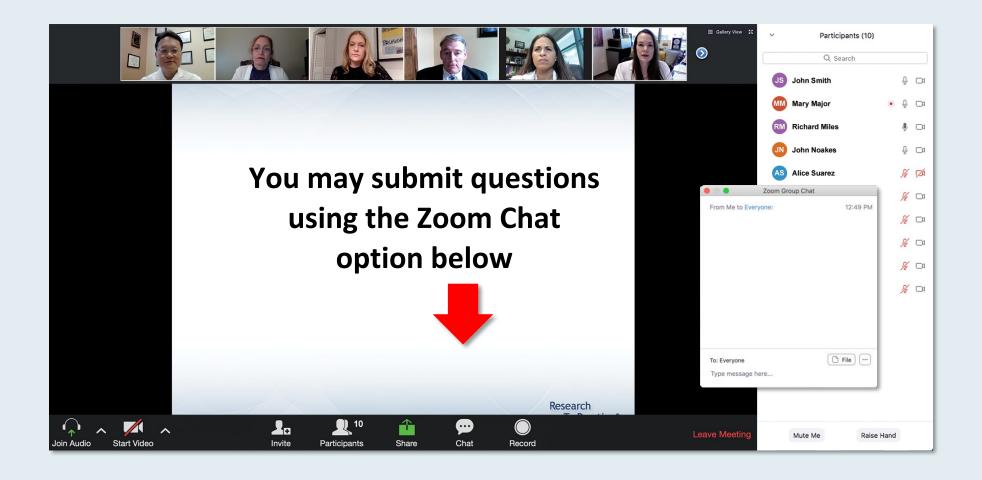
Moderator
Neil Love, MD
Research To Practice
Miami, Florida



Charles L Vogel, MD
Breast Medical Oncology
Baptist Health South Florida
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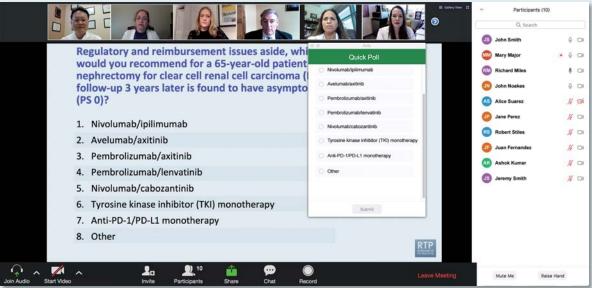


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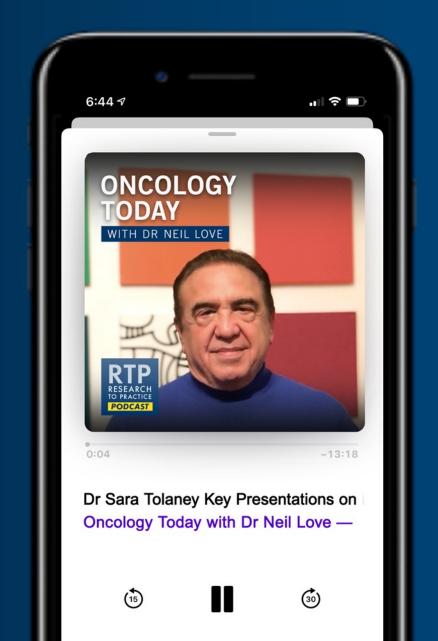


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Mamta Choksi, MD
Florida Cancer Specialists and
Research Institute
New Port Richey, Florida



Ruth O'Regan, MD
Chair, Department of Medicine
Charles A Dewey Professor of Medicine
University of Rochester
Rochester, New York



Sulfi Ibrahim, MD
Hematology/Oncology
Reid Health
Richmond, Indiana



Ann Partridge, MD, MPH
Vice Chair of Medical Oncology
Director, Program for Young Women
with Breast Cancer
Director, Adult Survivorship Program
Dana-Farber Cancer Institute
Professor of Medicine
Harvard Medical School
Boston, Massachusetts



Meet The Professor with Dr Hurvitz

MODULE 1: Case Presentation

- Dr Ibrahim: A 41-year-old woman with metastatic triple-negative breast cancer (TNBC)
- Dr Partridge: A 46-year-old woman with oligometastatic TNBC
- Dr O'Regan: A 41-year-old woman with metastatic TNBC and a BRCA2 mutation
- Dr Choksi: A 73-year-old woman with TNBC and suspected bone metastases MSS, TMB 3 mut/Mb, PD-L1 unknown

MODULE 2: Beyond the Guidelines

MODULE 3: Journal Club with Dr Hurvitz

MODULE 4: Other Key Data Sets



A patient with localized triple-negative breast cancer (TNBC) is found to have residual disease after receiving neoadjuvant AC → T. She begins treatment with adjuvant capecitabine and 1 month later is found to have a germline BRCA mutation. Would you offer olaparib?

- 1. Yes
- 2. No



A patient with localized TNBC is found to have residual disease after neoadjuvant AC → T and receives adjuvant capecitabine.

One year after completing adjuvant capecitabine she is found to have a germline BRCA mutation. Would you offer olaparib?

- 1. Yes
- 2. No



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Case Presentation – Dr Ibrahim: A 41-year-old woman with metastatic TNBC



Dr Sulfi Ibrahim

- Neoadjuvant AC, with shrinkage of mass
- Neoadjuvant paclitaxel, with apparent increase in mass → Surgery
- Patient declines adjuvant capecitabine
- Six months later: Widespread liver and bone metastases with jaundice
 - Biopsy of liver: TNBC
 - PD-L1 testing was positive
- Pembrolizumab/gemcitabine/carboplatin

Questions

• Among the two immunotherapy-based regimens approved for patients with triple-negative breast cancer, do you have a preference for one versus the other?



Case Presentation – Dr Ibrahim: A 41-year-old woman with metastatic TNBC (continued)



Dr Sulfi Ibrahim

- Neoadjuvant AC, with shrinkage of mass
- Neoadjuvant paclitaxel, with apparent increase in mass → Surgery
- Patient declines adjuvant capecitabine
- Six months later: Widespread liver and bone metastases with jaundice
 - Biopsy of liver: TNBC
 - PD-L1 testing was positive
- Pembrolizumab/gemcitabine/carboplatin
 - Response x 6 months before PD, with severe back pain

Question

- Do patients with liver metastases receive less benefit from immunotherapy?
- What do we know about CD 274 amplification as a marker of response to immunotherapy?



Case Presentation – Dr Ibrahim: A 41-year-old woman with metastatic TNBC (continued)



Dr Sulfi Ibrahim

- Neoadjuvant AC, with shrinkage of mass
- Neoadjuvant paclitaxel, with apparent increase in mass

 Surgery
- Patient declines adjuvant capecitabine
- Six months later: Widespread liver and bone metastases with jaundice
 - Biopsy of liver: TNBC
 - PD-L1 testing was positive
- Pembrolizumab/gemcitabine/carboplatin
 - Response x 6 months before PD, with severe back pain
- Sacituzumab govitecan

Question

Would you have recommended another treatment beyond sacituzumab govitecan?



Case Presentation – Dr Partridge: A 46-year-old woman with oligometastatic TNBC



Dr Ann Partridge

- 9/2015: Diagnosed with right, Stage II triple-negative IDC
- Dose-dense ACT → Lumpectomy, with residual disease < 0.1-cm, Grade III, with no LVI, SLNB-negative
- RT, with near pCR, followed by observation
- 3/2020: Local recurrence in right internal mammary node, medial chest mass
- 4/2020: Docetaxel/carboplatin and tested positive for PD-L1
- 4/2020: Switched to atezolizumab/nab paclitaxel/carboplatin x 6
- 10/2020: Thoracotomy, NED, post-operative RT
- 1/2021: Re-started atezolizumab to complete one full year

Questions

 If she presented today, would you include an immune checkpoint inhibitor (ICI) in her neoadjuvant therapy? And then if she had a great response to an ICI would you continue it to complete a full course of up to a year?



Case Presentation – Dr O'Regan: A 41-year-old woman with metastatic TNBC and a BRCA2 mutation



Dr Ruth O'Regan

- Family history positive for ovarian cancer in paternal grandmother and aunt
- 2020: Diagnosed with triple-negative breast cancer → AC-paclitaxel
- BRCA2 mutation identified → Bilateral mastectomies, with residual disease (ypT2 N0)
- Adjuvant capecitabine (WBC: 40,000 last dose of capecitabine)
- Diagnosed with AML → Induction treatment followed by matched, unrelated donor transplant
- Pulmonary nodules consistent with TNBC

Question

 How would you manage a patient like this who's received a large amount of chemotherapy previously?



Case Presentation – Dr O'Regan: A 41-year-old woman with metastatic TNBC and a BRCA2 mutation (continued)



Dr Ruth O'Regan

- Family history positive for ovarian cancer in paternal grandmother and aunt
- 2020: Diagnosed with triple-negative breast cancer → AC-paclitaxel
- BRCA2 mutation identified → Bilateral mastectomies, with residual disease (ypT2 N0)
- Adjuvant capecitabine (WBC: 40,000 last dose of capecitabine)
- Diagnosed with AML → Induction treatment followed by matched, unrelated donor transplant
- Pulmonary nodules consistent with TNBC → Olaparib

Questions

 In a patient like this if you gave them a PARP inhibitor what would be your choice in the second-line setting? Would you use just standard chemotherapy, or would you use sacituzumab in a patient like this?



Case Presentation – Dr Choksi: A 73-year-old woman with TNBC and suspected bone metastases – MSS, TMB 3 mut/Mb, PD-L1 unknown



Dr Mamta Choksi

- May 2020: Diagnosed with T2N1/2M0 triple negative breast cancer with inflammatorylike characteristics
- August 2020: AC with dose-dense paclitaxel x 4 cycles completed followed by weekly paclitaxel
- November 2020: CEA rising to 17.3 from 11.4 during treatment
- PET CT shows osseous lesions without FDG activity; bone biopsy is negative for malignancy
- December 2020: Last cycle of weekly paclitaxel completed
- Post chemotherapy: CEA rose to 17.4, residual 2 to 2.5-cm palpable lump in left breast; surgery is scheduled

Questions

- If she has residual disease based on the final pathology report, what treatment option would you
 recommend next?
- What do we know about the use of a checkpoint inhibitor with chemotherapy, especially in those challenging patients with a triple-negative inflammatory breast cancer?



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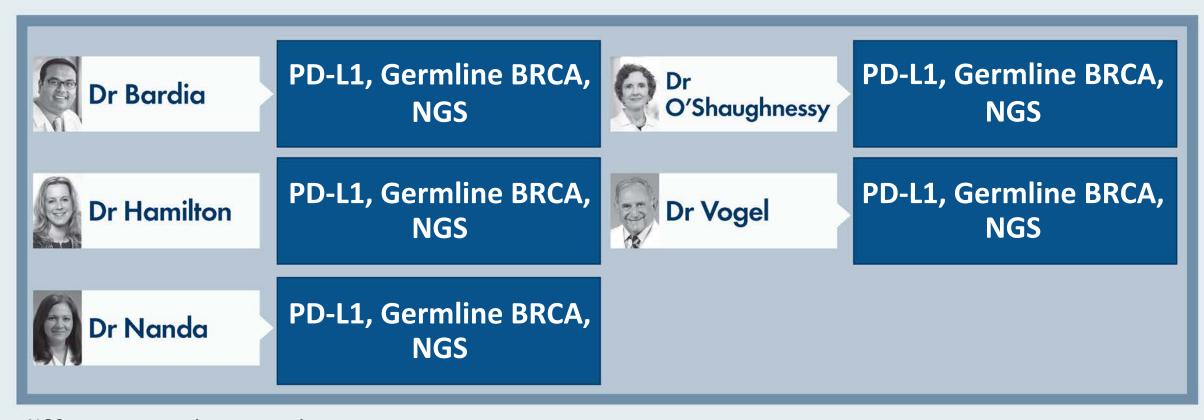
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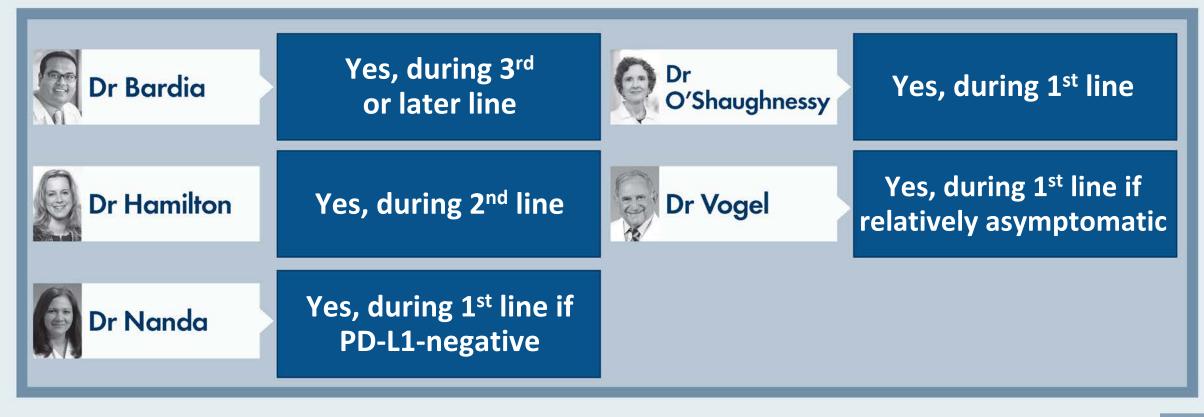


A 45-year-old woman who completed dose-dense AC-T and radiation therapy 3 years ago for localized TNBC now presents with low-volume metastatic disease to the lung and bones. What type of biomarker assessment would you recommend?





If a patient with TNBC and a germline BRCA1/2 mutation received olaparib as part of adjuvant therapy on a clinical trial and then developed metastatic disease 3 years later, would you attempt to administer a PARP inhibitor during a subsequent line of treatment?



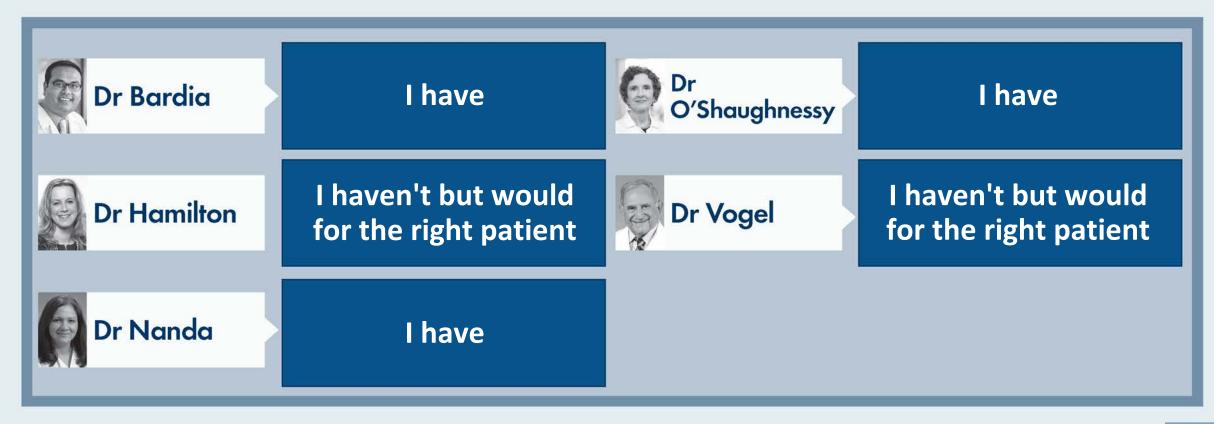


Regulatory and reimbursement issues aside, have you attempted or would you attempt to access a PARP inhibitor for a patient with metastatic TNBC and a <u>somatic BRCA mutation</u>?



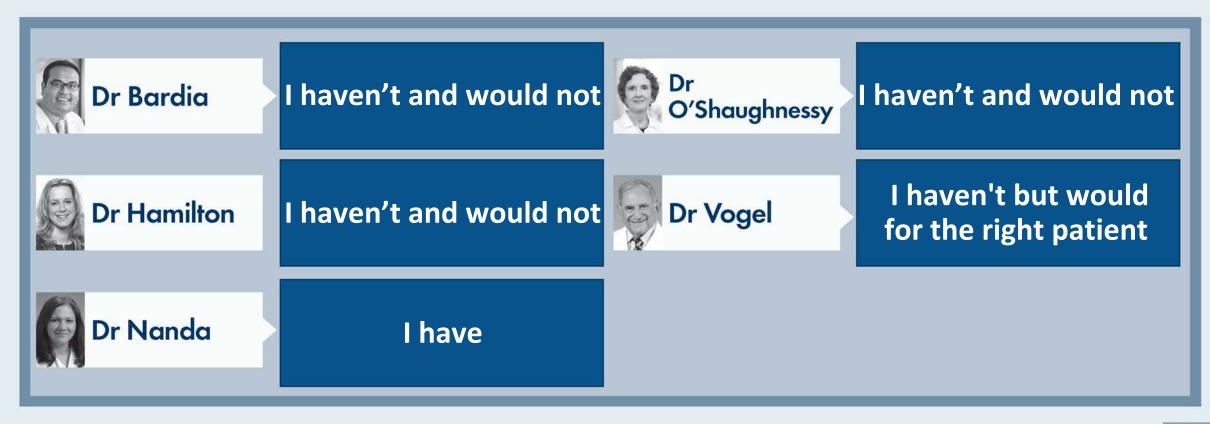


Regulatory and reimbursement issues aside, have you attempted or would you attempt to access a PARP inhibitor for a patient with metastatic TNBC and a germline PALB2 mutation?



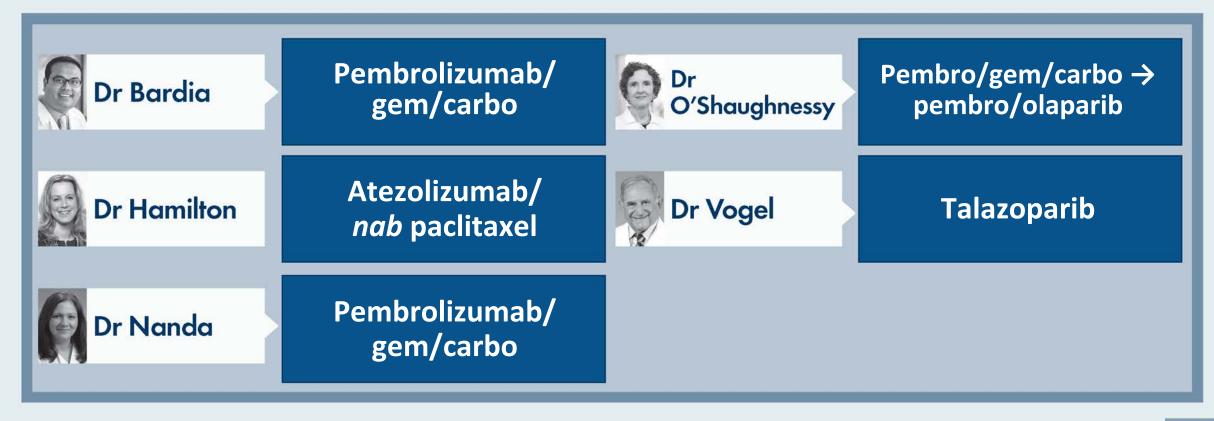


Regulatory and reimbursement issues aside, have you attempted or would you attempt to access a PARP inhibitor for a patient with metastatic TNBC and a germline ATM mutation?



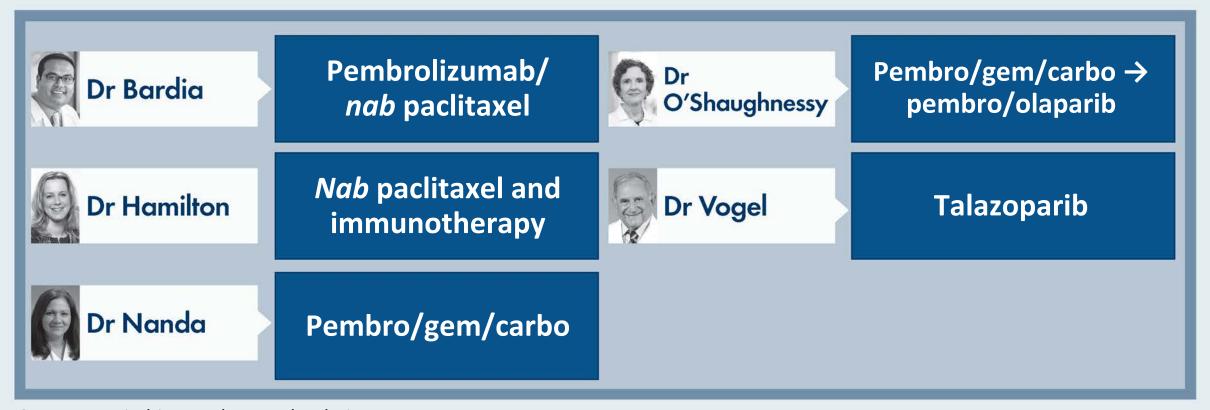


What would be your preferred treatment approach for a 60-year-old patient with a <u>BRCA germline mutation</u> and de novo metastatic TNBC that is <u>PD-L1-positive</u>?





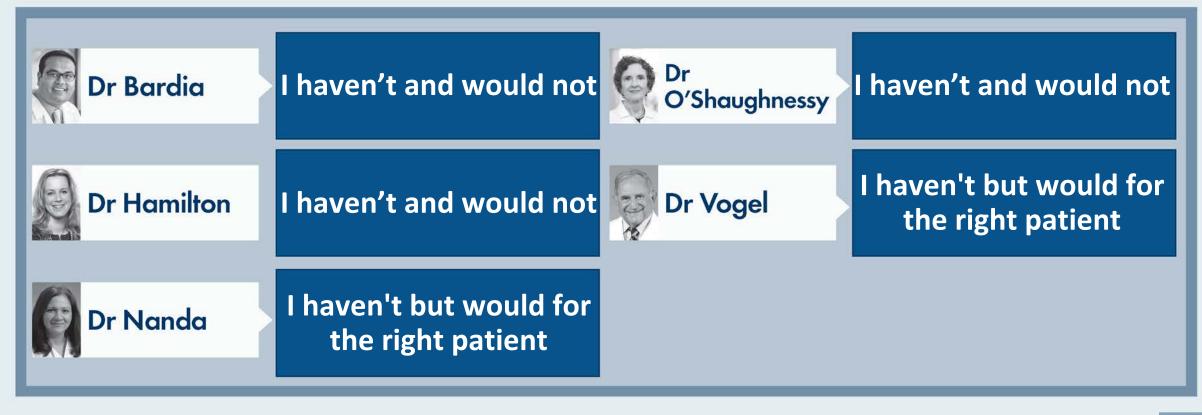
A 60-year-old woman with TNBC and a germline BRCA1 mutation (PD-L1 CPS >10) receives neoadjuvant carboplatin/paclitaxel/pembrolizumab → AC/ pembrolizumab and achieves a pathologic complete response. Three years after completion of adjuvant pembrolizumab, she develops metastatic TNBC (PD-L1 CPS >10). Which first-line treatment would you generally recommend?



Gem = gemcitabine; carbo = carboplatin

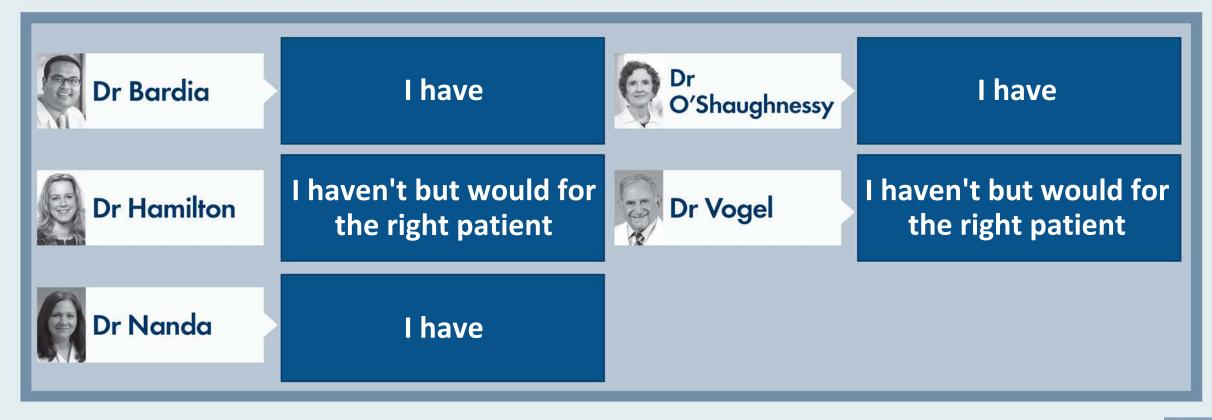


Regulatory and reimbursement issues aside, have you attempted or would you attempt to access olaparib as part of neoadjuvant therapy for a 45-year-old patient with a <u>germline BRCA2 mutation</u> and a <u>6-cm TNBC with negative axillary nodes on biopsy (PD-L1 10%)?</u>



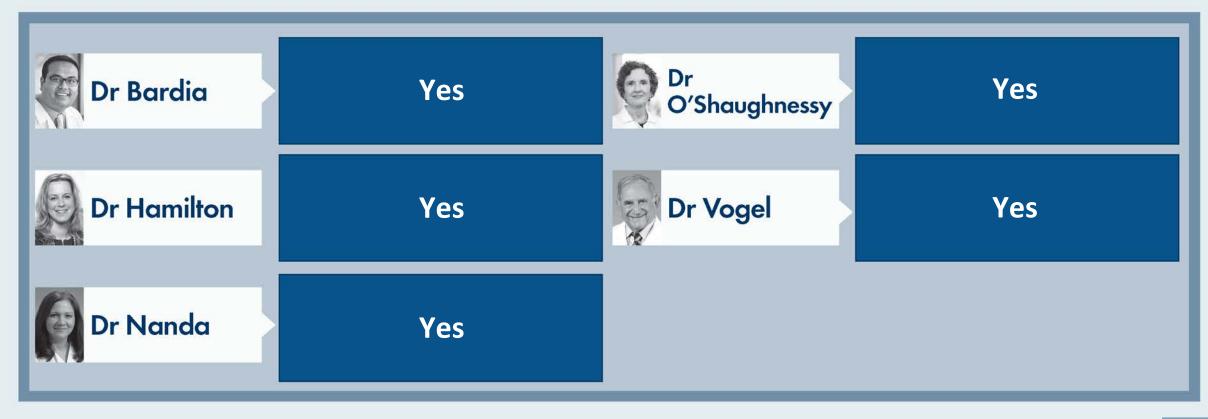


Regulatory and reimbursement issues aside, have you attempted or would you attempt to access an anti-PD-1/PD-L1 antibody as part of neoadjuvant therapy for a 45-year-old patient with a germline BRCA2 mutation and a 6-cm TNBC with 3 positive axillary nodes on biopsy (PD-L1 10%)?



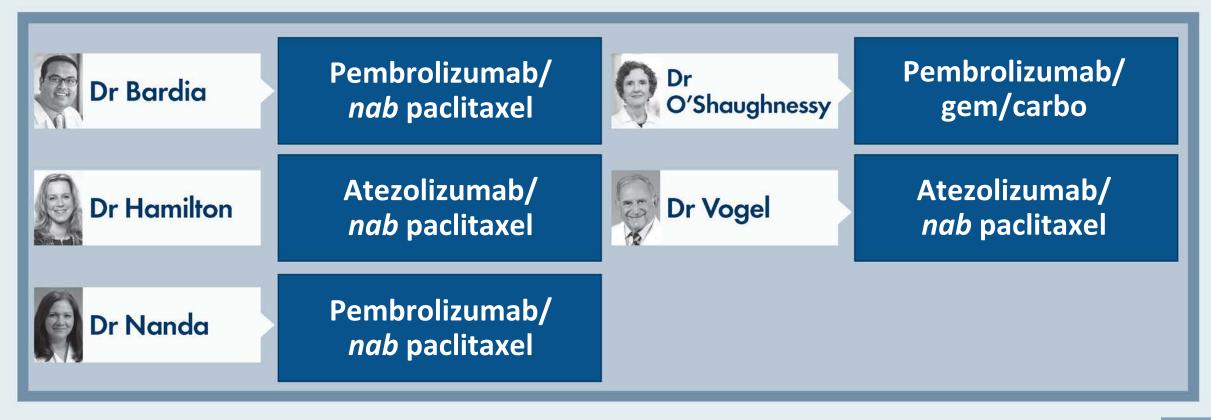


If olaparib receives FDA approval as adjuvant therapy for patients with germline BRCA mutations, would you incorporate it as adjuvant therapy for a patient who was also receiving neoadjuvant/adjuvant pembrolizumab?



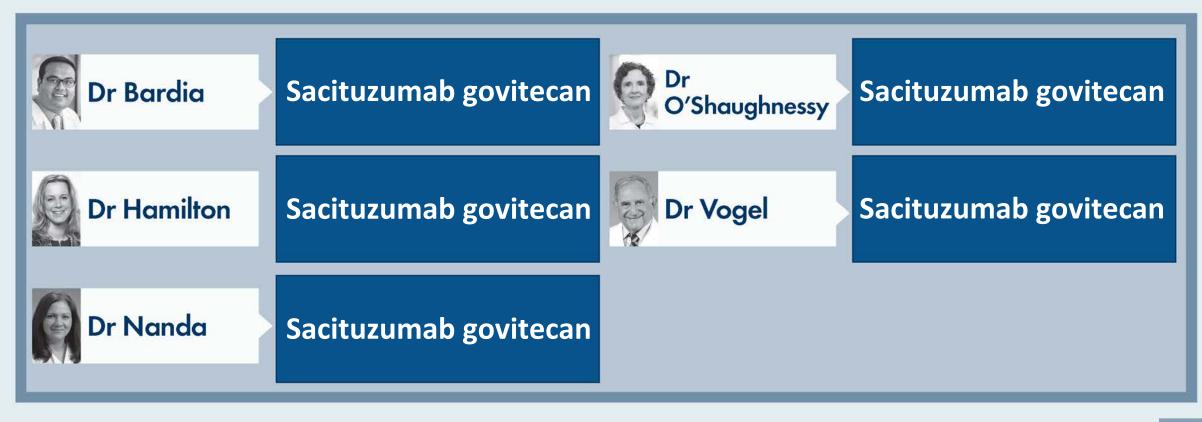


A 60-year-old woman with <u>BRCA1/2 wild-type</u> TNBC and <u>PD-L1 CPS > 10</u> receives neoadjuvant carboplatin/paclitaxel/pembrolizumab
AC/pembrolizumab and achieves a pathologic complete response. Three years after completion of adjuvant pembrolizumab, she develops metastatic TNBC (<u>BRCA1/2 wild type, PD-L1 CPS > 10</u>). Which first-line treatment would you generally recommend?





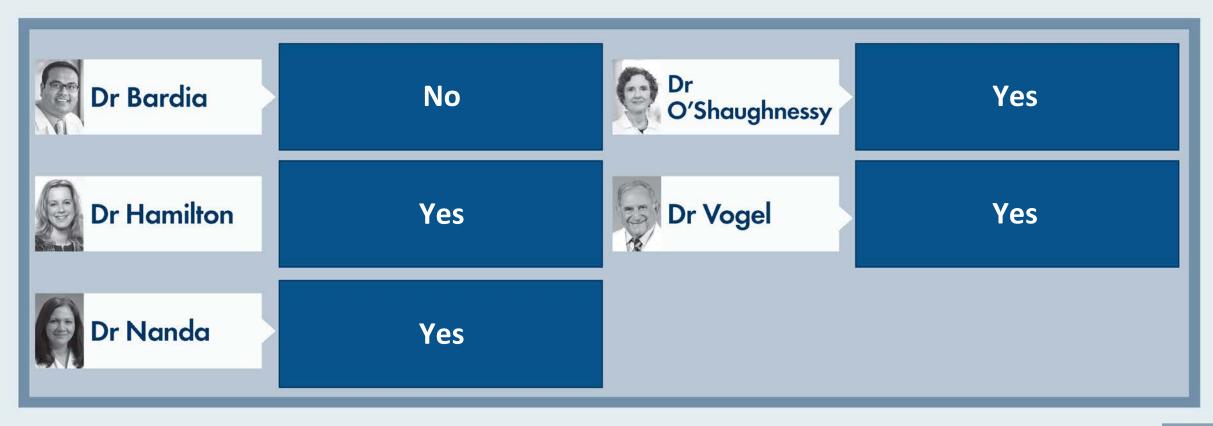
What treatment would you recommend next for a 60-year-old woman who received adjuvant carboplatin/paclitaxel, developed metastatic TNBC (BRCA wild type, PD-L1-positive) and experienced disease progression after 7 months of first-line atezolizumab/nab paclitaxel?





For a patient with localized TNBC and <u>PD-L1 CPS ≥1</u>, would you generally recommend neoadjuvant chemotherapy/ pembrolizumab → adjuvant pembrolizumab if they had...

3.0-cm tumor, N0?





For a patient with localized TNBC and <u>PD-L1 CPS ≥1</u>, would you generally recommend neoadjuvant chemotherapy/ pembrolizumab → adjuvant pembrolizumab if they had...

6.0-cm tumor, N0?





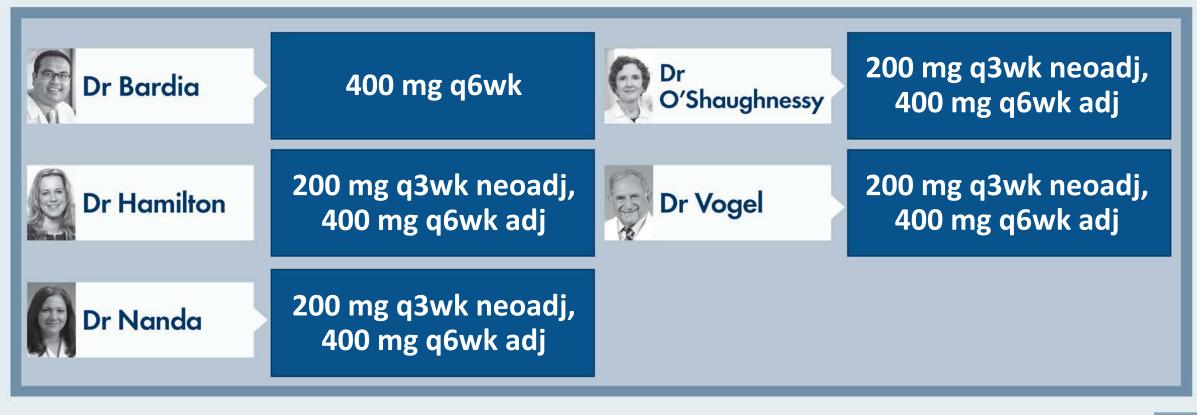
For a patient with localized TNBC that was <u>PD-L1-negative</u>, would you generally recommend neoadjuvant chemotherapy/pembrolizumab → adjuvant pembrolizumab if they had...

6.0-cm tumor, NO?



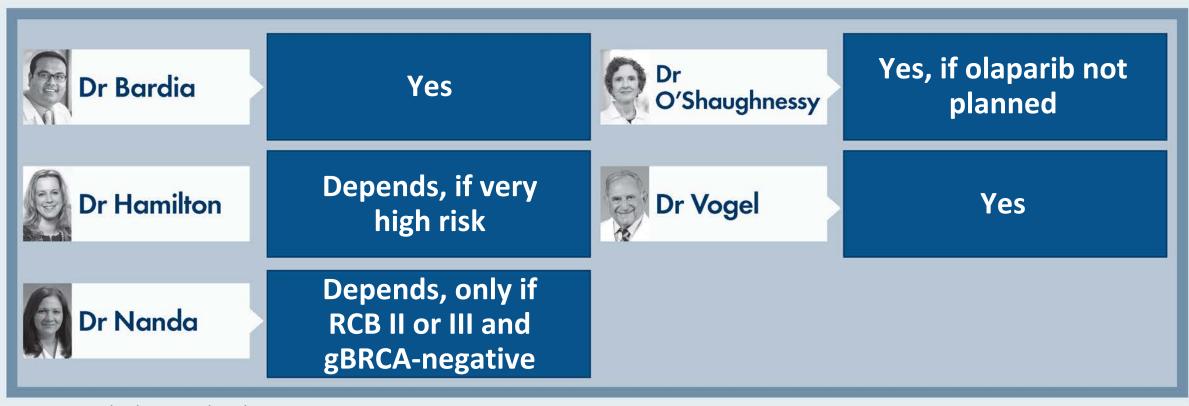


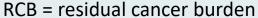
When administering neoadjuvant/adjuvant pembrolizumab, which schedule of pembrolizumab would you generally use?





Would you likely <u>include adjuvant capecitabine</u> along with pembrolizumab if the patient had residual disease after neoadjuvant chemotherapy/pembrolizumab?







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MODULE 4: Other Key Data Sets



Journal Club with Dr Hurvitz

- ASCENT: Sacituzumab govitecan for metastatic triple-negative breast cancer (TNBC)
- ASCENT: Outcomes in patients aged ≥65 years
- ASCENT: Assessment of sacituzumab govitecan
- EMBRACA: Characterization of long-term responders after treatment with talazoparib
- EMBRACA: Safety analyses with talazoparib
- EMBRACA: Exploring the impact on efficacy of mutations in non-BRCA DNA damage response (DDR) and non-DDR genes
- EMBRACA: Clinical outcomes in patients with a history of CNS metastases receiving talazoparib
- Innovations in targeted therapy for TNBC
- Do all patients with cancer experience fatigue?
- Oncology team perception and patient experience discordances in TNBC care



N Engl J Med 2021;384(16):1529-41

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Sacituzumab Govitecan in Metastatic Triple-Negative Breast Cancer

A. Bardia, S.A. Hurvitz, S.M. Tolaney, D. Loirat, K. Punie, M. Oliveira, A. Brufsky, S.D. Sardesai, K. Kalinsky, A.B. Zelnak, R. Weaver, T. Traina, F. Dalenc, P. Aftimos, F. Lynce, S. Diab, J. Cortés, J. O'Shaughnessy, V. Diéras, C. Ferrario, P. Schmid, L.A. Carey, L. Gianni, M.J. Piccart, S. Loibl, D.M. Goldenberg, Q. Hong, M.S. Olivo, L.M. Itri, and H.S. Rugo, for the ASCENT Clinical Trial Investigators*



Outcomes in Patients (pts) Aged ≥65 Years in the Phase 3 ASCENT Study of Sacituzumab Govitecan (SG) in Metastatic Triple-Negative Breast Cancer (mTNBC)

Kalinsky K et al.

ASCO 2021; Abstract 1011.



Assessment of Sacituzumab Govitecan (SG) versus Treatment of Physician's Choice (TPC) Cohort by Agent in the Phase 3 ASCENT Study of Patients (pts) with Metastatic Triple-Negative Breast Cancer (mTNBC)

O'Shaughnessy J et al.

ASCO 2021; Abstract 1077.



Characterization of Long-Term Responders Following Treatment with Talazoparib (TALA) or Physician's Choice of Chemotherapy (PCT) in the Phase 3 Embraca Trial

Etti J et al.

ASCO 2021; Abstract 1029.



Oncologist 2020;25(3):e439-50

Breast Cancer

Talazoparib in Patients with a Germline BRCA-Mutated Advanced **Breast Cancer: Detailed Safety Analyses from the Phase III EMBRACA Trial**

SARA A. HURVITZ , ANTHONY GONÇALVES, HOPE S. RUGO, KYUNG-HUN LEE, LOUIS FEHRENBACHER, LIDA A. MINA, SAMI DIAB, JOANNE L. BLUM, JAYETA CHAKRABARTI, MOHAMED ELMELIEGY, LIZA DEANNUNTIS, ERIC GAUTHIER, AKOS CZIBERE, ILLIA CRISTINA TUDOR, RUBEN G.W. QUEK, JENNIFER K. LITTON, JOHANNES ETTLO

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Key Words. BRCA1 • BRCA2 • Breast cancer • Talazoparib • Chemotherapy





Exploring Impact of Mutations in Non-BRCA DNA
Damage Response (DDR) and Non-DDR Genes on
Efficacy in Phase III EMBRACA Study of Talazoparib
(TALA) in Patients (pts) with Germline BRCA1/2
Mutated (gBRCAm) HER2-Negative (HER2-) Advanced
Breast Cancer (ABC)

Litton JK et al.

ASCO 2020; Abstract 1018.



Clinical Outcomes in Patients (pts) with a History of Central Nervous System (CNS) Metastases Receiving Talazoparib (TALA) or Physician's Choice of Chemotherapy (PCT) in the Phase 3 EMBRACA Trial

Litton JK et al.

ASCO 2021; Abstract 1090.



REVIEW

Curr Opin Obstet Gynecol 2021;33(1):34-47



Innovations in targeted therapies for triple negative breast cancer

Kelly E. McCann and Sara A. Hurvitz



Cancer 2021;127(8):1334-44

Original Article

Do All Patients With Cancer Experience Fatigue? A Longitudinal Study of Fatigue Trajectories in Women With Breast Cancer

Julienne E. Bower, PhD D 1,2,3,4; Patricia A. Ganz, MD D 4,5,6; Michael R. Irwin, MD^{2,3}; Steve W. Cole, PhD^{2,3,7}; Deborah Garet, MPH³; Laura Petersen, MS⁴; Arash Asher, MD⁸; Sara A. Hurvitz, MD^{4,7}; and Catherine M. Crespi, PhD^{4,9}



Oncology Team Perception and Patient Experience Discordances in Triple-Negative Breast Cancer (TNBC) Care

Hurvitz SA et al.

ASCO 2021; Abstract e19176.



Meet The Professor with Dr Hurvitz

MODULE 1: Case Presentation

- Dr Ibrahim: A 41-year-old woman with metastatic triple-negative breast cancer (TNBC)
- Dr Partridge: A 46-year-old woman with oligometastatic TNBC
- Dr O'Regan: A 41-year-old woman with metastatic TNBC and a BRCA2 mutation
- Dr Choksi: A 73-year-old woman with TNBC and suspected bone metastases MSS, TMB 3 mut/Mb, PD-L1 unknown

MODULE 2: Beyond the Guidelines

MODULE 3: Journal Club with Dr Hurvitz

MODULE 4: Other Key Data Sets



Pivotal Phase III Trials Supporting the FDA Approvals of Olaparib and Talazoparib for Metastatic Breast Cancer with a Germline BRCA Mutation

Trial	Eligibility	Randomization	Primary endpoint
OlympiAD ¹ (n = 302)	 HER2-negative metastatic BC ER+ and/or PR+ or TNBC Deleterious or suspected deleterious gBRCA mutation Prior anthracycline and taxane ≤2 prior chemotherapy lines in metastatic setting 	 Olaparib Physician's choice – Capecitabine – Eribulin – Vinorelbine 	PFS by blinded independent central review
EMBRACA ² (n = 431)	 HER2-negative locally advanced or metastatic BC Germline BRCA1 or BRCA2 mutation ≤3 prior cytotoxic chemotherapy regimens Prior treatment with a taxane and/or anthracycline unless medically contraindicated 	 Talazoparib Physician's choice Capecitabine Eribulin Gemcitabine Vinorelbine 	PFS by blinded independent central review



¹ Robson M et al. *N Engl J Med* 2017;377(6):523-33. ² Litton JK et al. San Antonio Breast Cancer Symposium 2017;Abstract GS6-07; www.clinicaltrials.gov. Accessed August 2019.

OlympiAD and EMBRACA: Efficacy Summary

	OlympiAD ¹⁻³	EMBRACA ⁴⁻⁶
HR (PFS)	0.58	0.54
HR (PFS) ER/PR-positive	0.82	0.47
HR (PFS) TNBC	0.43	0.60
HR (OS)	0.84	0.76
ORR	59.9% (vs 28.8% TPC)	67.6% (vs 27.2% TPC)

TPC = treatment of physician's choice

Cross-trial comparisons are challenging in terms of determining the relative efficacy and tolerability of treatments



¹Robson M et al. *N Engl J Med* 2017;377(6):523-33. ²Robson M et al. *Ann Oncol* 2019;30(4):558-66. ³ Robson M et al. San Antonio Breast Cancer Symposium 2019;Abstract PD4-03. ⁴Litton JK et al. *N Engl J Med* 2018;379(8):753-63. ⁵Litton JK et al. San Antonio Breast Cancer Symposium 2017;Abstract GS6-07. ⁶Rugo HS et al. ASCO 2018;Abstract 1069.

OlympiAD and EMBRACA: Adverse Event and Quality of Life Summary

	OlympiAD ^{1,2}	EMBRACA ^{3,4}
Serious AEs Grade ≥3	36.6% (vs 50.5% TPC)	25.5% (v. 25.4% TPC)
Anemia Grade ≥3	16.1%	39.2%
Neutropenia Grade ≥3	9.3%	20.9%
Thrombocytopenia Grade ≥3	2.4%	14.7%
MDS/AML	0	0
Nausea (any grade)	58.0%	48.6%
Alopecia (any grade)	3.4%	25.2%
Dose modification/reduction due to AE	25.4% (vs 30.8% TPC)	66% (vs 60% TPC)
Treatment discontinuation due to AE	4.9% (vs 7.7% TPC)	5.9% (vs 8.7% TPC)

Cross-trial comparisons are challenging in terms of determining the relative efficacy and tolerability of treatments



J Clin Oncol 2021;[Online ahead of print].

Adjuvant PARP Inhibitors in Patients With High-Risk Early-Stage HER2-Negative Breast Cancer and Germline *BRCA* Mutations: ASCO Hereditary Breast Cancer Guideline Rapid Recommendation Update

Nadine M. Tung, MD1; Dana Zakalik, MD2; and Mark R. Somerfield, PhD3; for the Hereditary Breast Cancer Guideline Expert Panel

ASCO Rapid Recommendations Updates highlight revisions to select ASCO guideline recommendations as a response to the emergence of new and practice-changing data. The rapid updates are supported by an evidence review and follow the guideline development processes outlined in the ASCO Guideline Methodology Manual. The goal of these articles is to disseminate updated recommendations, in a timely manner, to better inform health practitioners and the public on the best available cancer care options.



2021 Updated Recommendations

- For patients with early-stage, HER2-negative breast cancer with high risk of recurrence and germline BRCA1 or BRCA2 pathogenic or likely pathogenic variants, 1 year of adjuvant olaparib should be offered after completion of (neo)adjuvant chemotherapy and local treatment, including radiation therapy.
- For those who underwent surgery first, 1 year of adjuvant olaparib should be offered for patients with triple-negative breast cancer and tumor size >2 cm or any involved axillary nodes.
- For those with hormone receptor (HR)-positive disease, 1 year of adjuvant olaparib should be offered to those with at least 4 involved axillary lymph nodes.
- For patients who received neoadjuvant chemotherapy, 1 year of adjuvant olaparib should be offered to patients with triple-negative breast cancer and any residual cancer; for patients with HR-positive disease, 1 year of adjuvant olaparib should be offered to patients with residual disease and a clinical stage, pathologic stage, estrogen receptor and tumor grade score ≥3.



N Engl J Med 2021;384:2394-405

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

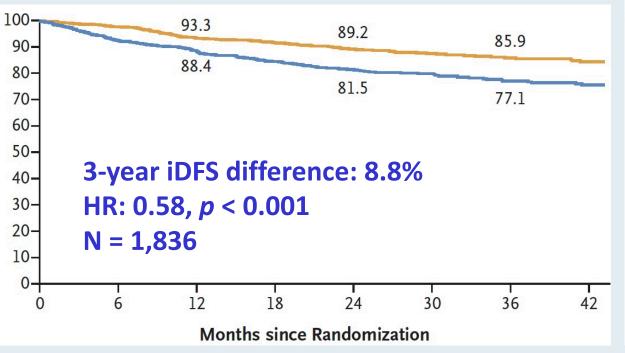
Adjuvant Olaparib for Patients with BRCA1- or BRCA2-Mutated Breast Cancer

A.N.J. Tutt, J.E. Garber, B. Kaufman, G. Viale, D. Fumagalli, P. Rastogi, R.D. Gelber, E. de Azambuja, A. Fielding, J. Balmaña, S.M. Domchek, K.A. Gelmon, S.J. Hollingsworth, L.A. Korde, B. Linderholm, H. Bandos, E. Senkus, J.M. Suga, Z. Shao, A.W. Pippas, Z. Nowecki, T. Huzarski, P.A. Ganz, P.C. Lucas, N. Baker, S. Loibl, R. McConnell, M. Piccart, R. Schmutzler, G.G. Steger, J.P. Costantino, A. Arahmani, N. Wolmark, E. McFadden, V. Karantza, S.R. Lakhani, G. Yothers, C. Campbell, and C.E. Geyer, Jr., for the OlympiA Clinical Trial Steering Committee and Investigators*

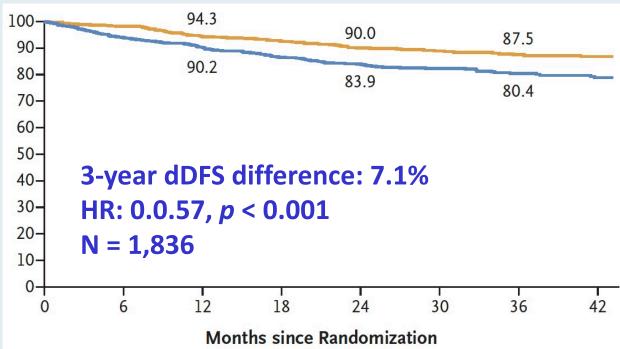


OlympiA: Invasive and Distant Disease-Free Survival





Distant DFS



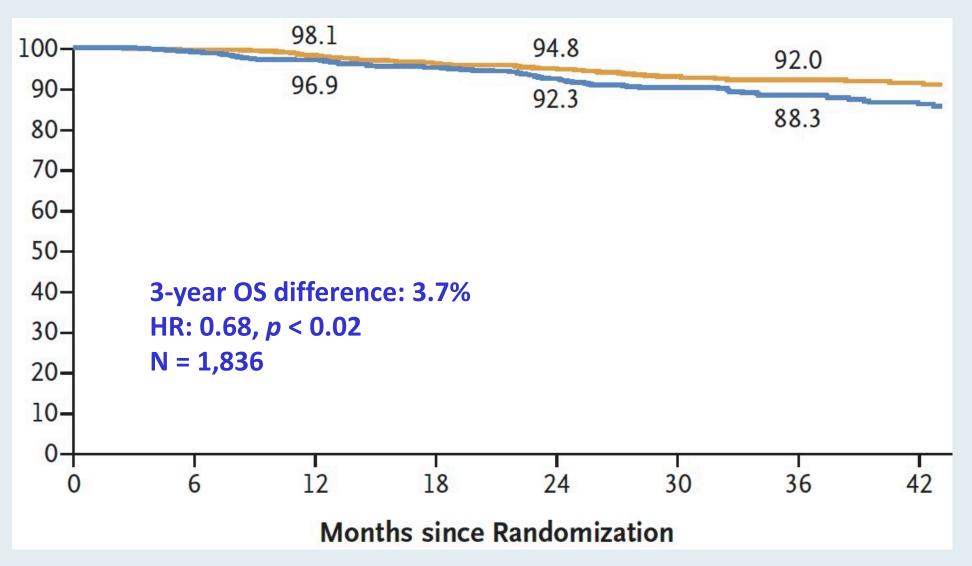


OlympiA: 3-Year Invasive DFS

Subgroup	Olaparib	Placebo	3-Yr Invasive Surv	vival	free Stratified Hazard Ratio for Invasive Disease or Death (95% CI)				
	- 1	ents with an otal no.	CONTRACTOR OF THE PROPERTY OF						
All patients	106/921	178/915	85.9	77.1		-	<u> </u>		0.58 (0.46-0.74)
Previous platinum-based chemotherapy								1	
Yes	34/247	43/239	82.0	77.0		-	-	<u>i</u>	0.77 (0.49–1.21)
No	72/674	135/676	87.3	77.1	-	-	_	1	0.52 (0.39-0.69)
Hormone-receptor status								i i	
HR+ and HER2-	19/168	25/157	83.5	77.2	· —		•	-	— 0.70 (0.38–1.27)
TNBC	87/751	153/758	86.1	76.9				i i	0.56 (0.43-0.73)
Germline BRCA mutation								1	
BRCA1	70/558	126/558	85.0	73.4	-			i i	0.52 (0.39-0.70)
BRCA2	22/230	38/209	88.6	78.0	i q.	-			0.52 (0.30-0.86)
BRCA1 and BRCA2	0/1	0/3	NC	NC				i i	NC
					0.25	0.50	0.75	1.00	1.25
						Olaparib	Better	Pla	cebo Better



OlympiA: Overall Survival





OlympiA: Summary of Adverse Events

Adverse Event	Olaparib (N=911)	Placebo (N = 904)
	no. of patients (%)	
Any adverse event	835 (91.7)	753 (83.3)
Serious adverse event	79 (8.7)	76 (8.4)
Adverse event of special interest†	30 (3.3)	46 (5.1)
MDS or AML	2 (0.2)	3 (0.3)
Pneumonitis <u>‡</u>	9 (1.0)	11 (1.2)
New primary cancer∫	19 (2.1)	32 (3.5)
Grade ≥3 adverse event	221 (24.3)	102 (11.3)
Grade 4 adverse event¶	17 (1.9)	4 (0.4)
Adverse event leading to permanent discontinuation of olaparib or placebo	90 (9.9)	38 (4.2)
Adverse event leading to death**	1 (0.1)	2 (0.2)





Abstract 505

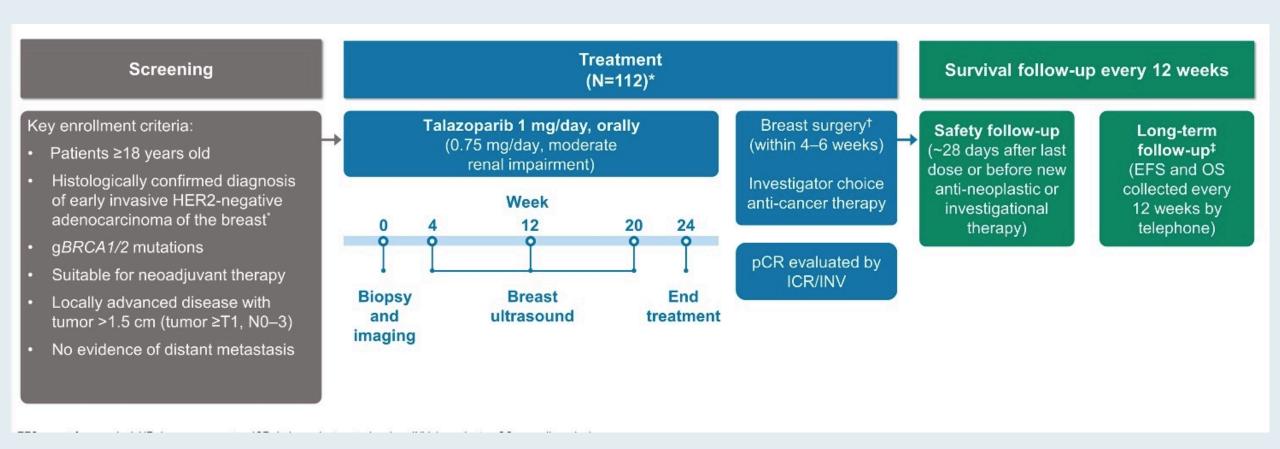
NEOADJUVANT TALAZOPARIB IN PATIENTS WITH GERMLINE BRCA1/2 MUTATION-POSITIVE, EARLY HER2-NEGATIVE BREAST CANCER: RESULTS OF A PHASE 2 STUDY

Jennifer K. Litton,¹ J. Thaddeus Beck,² Jason M. Jones,³ Jay Andersen,⁴ Joanne L. Blum,⁵ Lida A. Mina,⁶ Raymond Brig,⁷ Michael Danso,⁸ Yuan Yuan,⁹ Antonello Abbattista,¹⁰ Kay Noonan,¹¹ Jayeta Chakrabarti,¹² Akos Czibere,¹³ William F. Symmans,¹ Melinda L. Telli¹⁴

¹The University of Texas MD Anderson Cancer Center, Houston, TX, USA; ²Highlands Oncology Group, Fayetteville, AR, USA; ³Avera Cancer Institute, Sioux Falls, SD, USA; ⁴Compass Oncology, West Cancer Center, Tigard, OR, USA; ⁵Texas Oncology-Baylor Charles A. Sammons Cancer Center, US Oncology Network, Dallas, TX, USA; ⁶Banner MD Anderson Cancer Center, Gilbert, AZ, USA; ⁷Brig Center for Cancer Care and Survivorship, Knoxville, TN, USA; ⁸Virginia Oncology Associates, Norfolk, VA, USA; ⁹City of Hope Comprehensive Cancer Center and Beckman Research Institute, Duarte, CA, USA; ¹⁰Pfizer Oncology, Milan, Italy; ¹¹Pfizer Inc., Groton, CT, USA; ¹²Pfizer, Walton Oaks, Surrey, UK; ¹³Pfizer Inc., Cambridge, MA, USA; ¹⁴Stanford University School of Medicine, Stanford, CA, USA

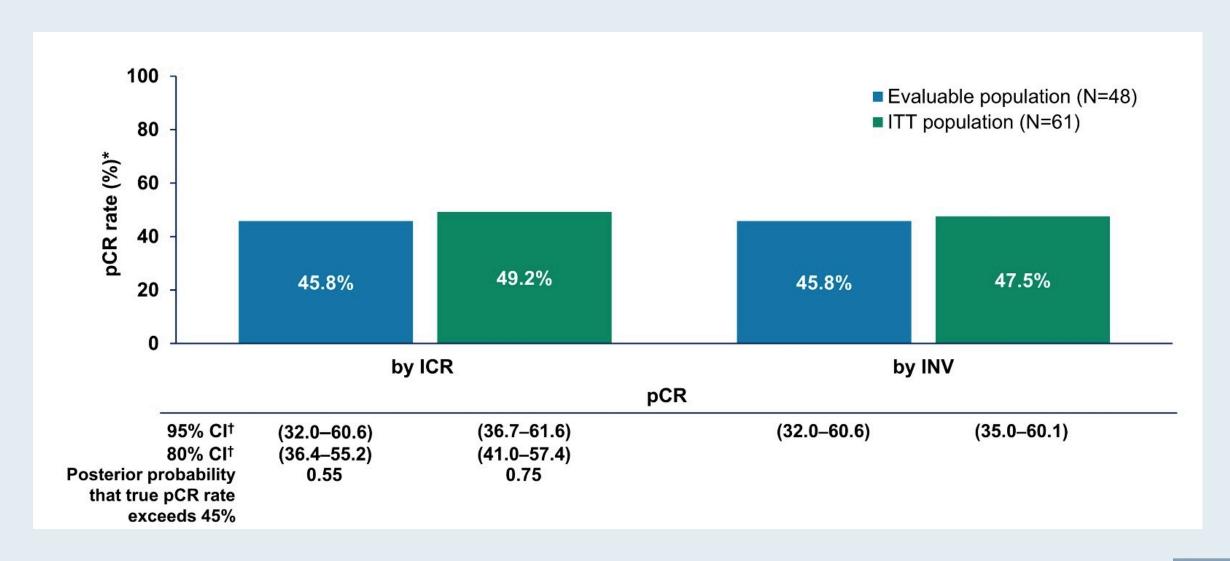


NEOTALA: Multicenter Phase II Study Schema



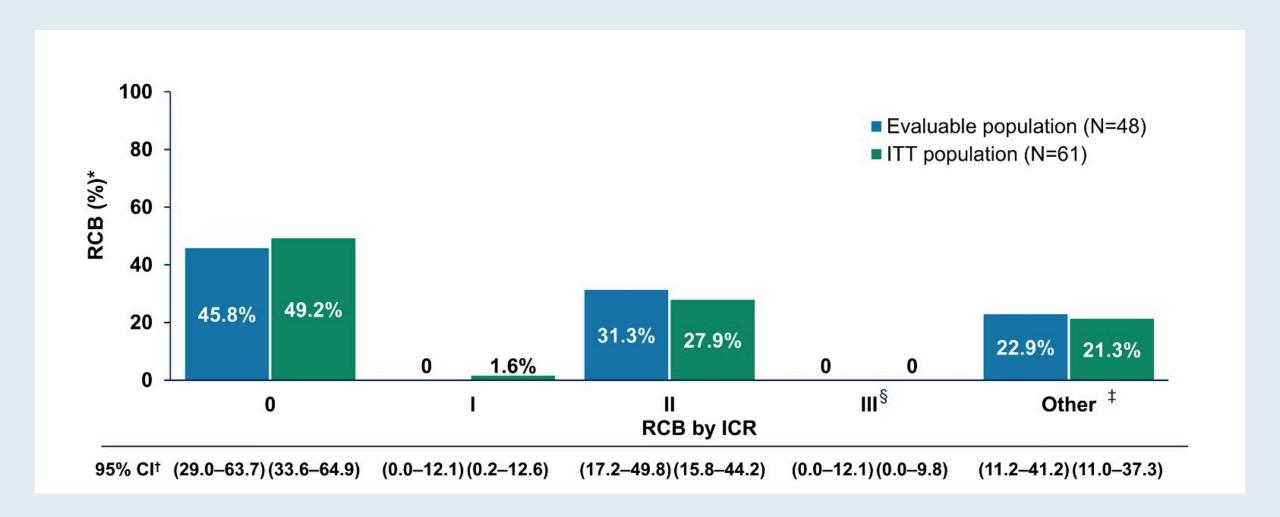


NEOTALA: Pathologic Complete Response





NEOTALA: Residual Cancer Burden





Phase III KEYNOTE-355 Trial Met Primary Endpoint of Overall Survival for Patients with Metastatic Triple-Negative Breast Cancer Whose Tumors Expressed PD-L1 (CPS ≥10)

Press Release – July 27, 2021

"Positive overall survival (OS) results [were announced] from the pivotal Phase 3 KEYNOTE-355 trial evaluating pembrolizumab in combination with chemotherapy for the treatment of patients with metastatic triple-negative breast cancer (mTNBC). Findings from the final analysis show first-line treatment with pembrolizumab in combination with chemotherapy (*nab*-paclitaxel, paclitaxel or gemcitabine/carboplatin) demonstrated a statistically significant and clinically meaningful improvement in OS compared with chemotherapy alone in patients with mTNBC whose tumors expressed PD-L1 (Combined Positive Score [CPS] ≥10). No new safety signals were identified. These OS results will be presented at an upcoming medical meeting and submitted to regulatory authorities."



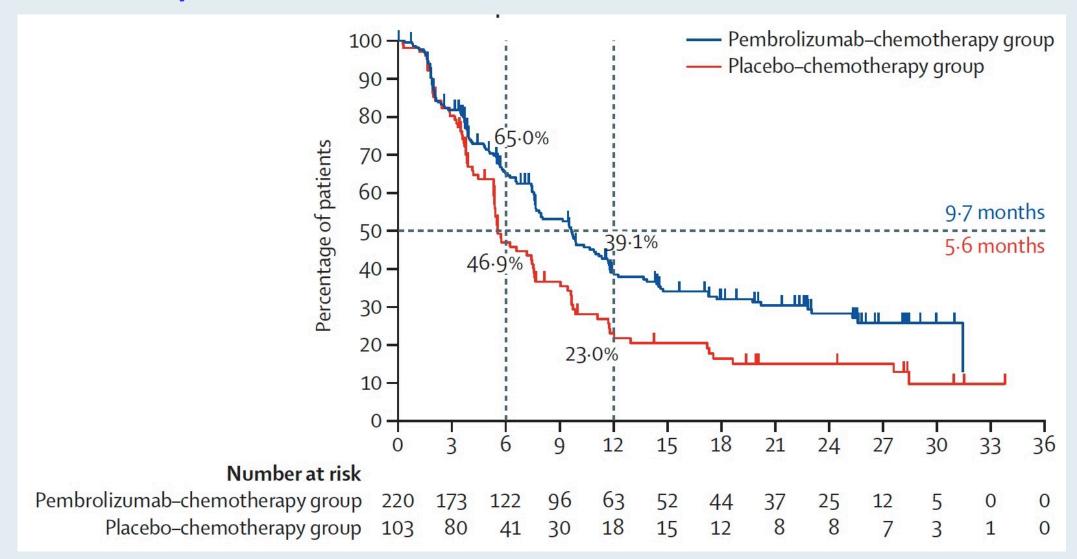
Lancet 2020;396:1817-28

Pembrolizumab plus chemotherapy versus placebo plus chemotherapy for previously untreated locally recurrent inoperable or metastatic triple-negative breast cancer (KEYNOTE-355): a randomised, placebo-controlled, double-blind, phase 3 clinical trial

Javier Cortes, David W Cescon, Hope S Rugo, Zbigniew Nowecki, Seock-Ah Im, Mastura Md Yusof, Carlos Gallardo, Oleg Lipatov, Carlos H Barrios, Esther Holgado, Hiroji Iwata, Norikazu Masuda, Marco Torregroza Otero, Erhan Gokmen, Sherene Loi, Zifang Guo, Jing Zhao, Gursel Aktan, Vassiliki Karantza, Peter Schmid, for the KEYNOTE-355 Investigators*



KEYNOTE-355: Progression-Free Survival (Combined Positive Score ≥10)





Lancet Oncol 2020;21:44-59



Atezolizumab plus nab-paclitaxel as first-line treatment for unresectable, locally advanced or metastatic triple-negative breast cancer (IMpassion130): updated efficacy results from a randomised, double-blind, placebo-controlled, phase 3 trial

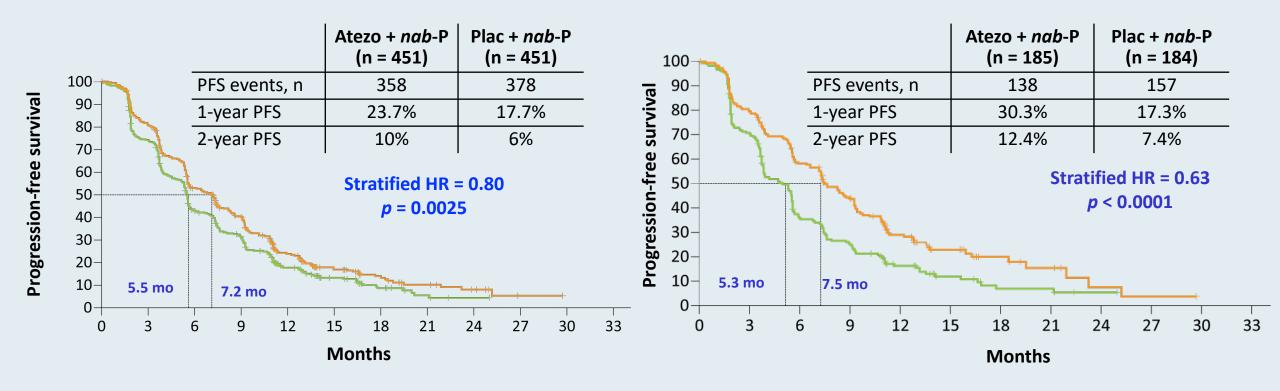
Peter Schmid*, Hope S Rugo*, Sylvia Adams, Andreas Schneeweiss, Carlos H Barrios, Hiroji Iwata, Véronique Diéras, Volkmar Henschel, Luciana Molinero, Stephen Y Chui, Vidya Maiya, Amreen Husain, Eric P Winer, Sherene Loi, Leisha A Emens, for the IMpassion 130 Investigators†



IMpassion130: PFS Results

PFS analysis: ITT population

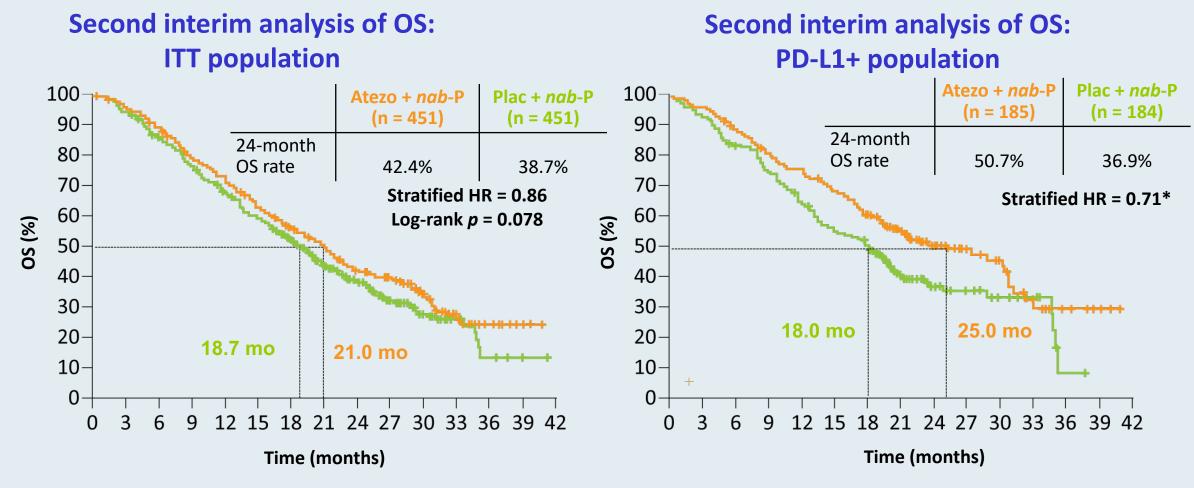
PFS analysis: PD-L1+ population



Second interim analysis median follow-up = 18.5 mo (atezo) vs 17.5 mo (placebo)



IMpassion130: OS Results at Second Interim Analysis

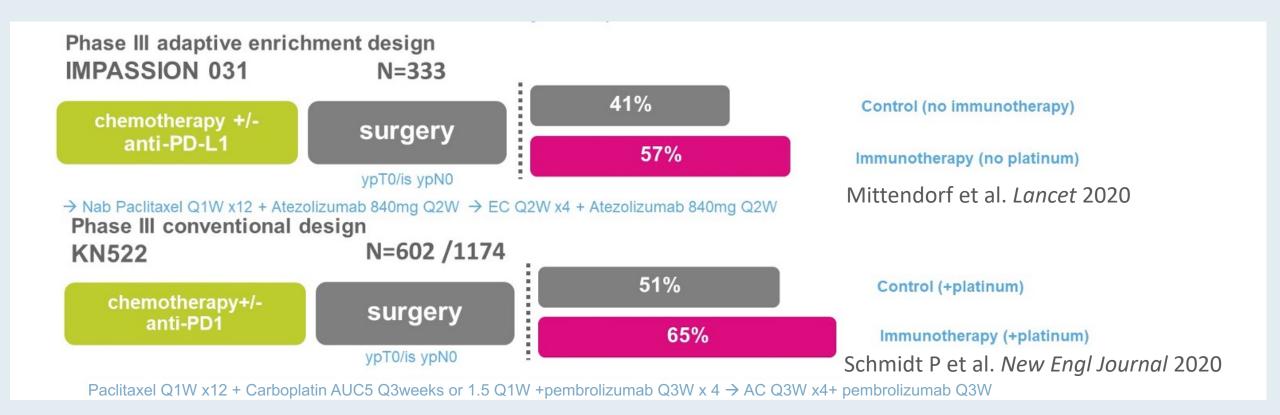


^{*} Not formally tested because of prespecified hierarchical analysis plan



[•] Median OS (PD-L1-negative population): 19.7 mo (atezo) vs 19.6 mo (placebo); HR = 0.97

Phase III Studies of Neoadjuvant Chemotherapy with Anti-PD-1/PD-L1 Antibodies: IMPASSION 031 and KEYNOTE-522





Primary Endpoints of Phase III Studies of Neoadjuvant Immunotherapy with Chemotherapy

Change in pCR rate	Overall	PD-L1-positive	PD-L1-negative
KEYNOTE-522 ¹ (Pembrolizumab + CT vs Placebo + CT)	+13.6%	+14%	+18%
IMpassion 031 ² (Atezolizumab + CT vs Placebo + CT)	+17%	+20%	+14%

pCR = pathologic complete response

Event-free survival	Median FU	Events	HR
KEYNOTE-522 ³ (Pembrolizumab + CT vs Placebo + CT)	39.1 mo	15.7% vs 23.8%	0.63
IMpassion 031 ² (Atezolizumab + CT vs Placebo + CT)*	20.6 mo	10.3% vs 13.1%	0.76

^{*}IMpassion 031 not powered for event-free survival, disease-free survival or overall survival



FDA Approves Pembrolizumab for High-Risk Early-Stage Triple-Negative Breast Cancer

Press Release – July 26, 2021

"The Food and Drug Administration approved pembrolizumab for high-risk, early-stage, triple-negative breast cancer (TNBC) in combination with chemotherapy as neoadjuvant treatment, and then continued as a single agent as adjuvant treatment after surgery.

FDA also granted regular approval to pembrolizumab in combination with chemotherapy for patients with locally recurrent unresectable or metastatic TNBC whose tumors express PD-L1 (Combined Positive Score [CPS] ≥10) as determined by an FDA approved test. FDA granted accelerated approval to pembrolizumab for this indication in November 2020.

The following trial was the basis of the neoadjuvant and adjuvant approval, as well as the confirmatory trial for the accelerated approval.

The efficacy of pembrolizumab in combination with neoadjuvant chemotherapy followed by surgery and continued adjuvant treatment with pembrolizumab as a single agent was investigated in KEYNOTE-522 (NCT03036488), a randomized, multicenter, double-blind, placebo-controlled trial conducted in 1174 patients with newly diagnosed previously untreated high-risk early-stage TNBC (tumor size >1 cm but ≤2 cm in diameter with nodal involvement or tumor size >2 cm in diameter regardless of nodal involvement). Patients were enrolled regardless of tumor PD-L1 expression."



www.fda.gov/drugs/resources-information-approved-drugs/fda-approves-pembrolizumab-high-risk-early-stage-triple-negative-breast-cancer?utm_medium=email&utm_source=govdelivery

ESMO VIRTUAL PLENARY

KEYNOTE-522: Phase 3 Study of Neoadjuvant Pembrolizumab + Chemotherapy versus Placebo + Chemotherapy, Followed by Adjuvant Pembrolizumab versus Placebo for Early-Stage Triple-Negative Breast Cancer

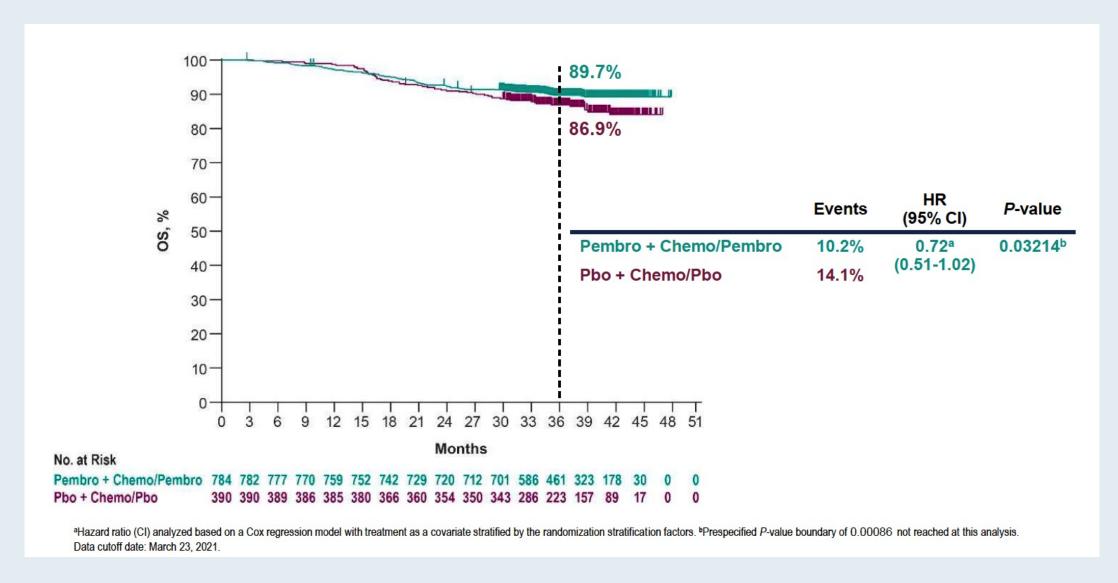
Peter Schmid¹, Javier Cortes², Rebecca Dent³, Lajos Pusztai⁴, Heather McArthur⁵, Sherko Kümmel⁶, Jonas Bergh⁷, Carsten Denkert⁸, Yeon Hee Park⁹, Rina Hui¹⁰, Nadia Harbeck¹¹, Masato Takahashi¹², Michael Untch¹³, Peter A. Fasching¹⁴, Fatima Cardoso¹⁵, Yu Ding¹⁶, Konstantinos Tryfonidis¹⁷, Gursel Aktan¹⁷, Vassiliki Karantza¹⁷, Joyce O'Shaughnessy¹⁸

1. Centre for Experimental Cancer Medicine, Barts Cancer Institute, Queen Mary University London, London, UK; 2. International Breast Cancer Center, Quirón Group, Madrid and Barcelona, Spain and Vall d'Hebron Institute of Oncology, Barcelona, Spain; 3. National Cancer Center Singapore, Duke—National University of Singapore Medical School, Singapore; 4. Yale School of Medicine, Yale Cancer Center, New Haven, CT, USA; 5. Breast Oncology, Cedars-Sinai Medical Center, Los Angeles, CA, USA; 6. Breast Unit, Kliniken Essen-Mitte, Essen, Germany; 7. Department of Oncology-Pathology, Karolinska Institute and Breast Cancer Centre, Cancer theme, Karolinska University Hospital, Solna, Sweden; 8. Institute of Pathology, Philipps-University Marburg and University Hospital Marburg (UKGM), Marburg, Germany; 9. Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea; 10. Westmead Breast Cancer Institute, Westmead Hospital and the University of Sydney, Sydney, NSW, Australia; 11. Breast Center, LMU University Hospital, Munich, Germany; 12. Department of Breast Surgery, Hokkaido Cancer Center, Sapporo, Japan; 13. Breast Cancer Center, Helios Klinikum Berlin Buch, Berlin, Germany; 14. University Hospital Erlangen, Comprehensive Cancer Center Erlangen-EMN, Erlangen, Germany; 15. Breast Unit, Champalimaud Clinical Center/Champalimaud Foundation, Lisbon, Portugal; 16. Biostatistics, Merck & Co., Inc., Kenilworth, NJ, USA; 17. Merck Research Laboratories, Merck & Co., Inc., Kenilworth, NJ, USA; 18. Baylor University Medical Center, Texas Oncology, US Oncology, Dallas, TX, USA





KEYNOTE-522: Updated OS (Median Follow-Up 39.1 Months)







ASCO 2021; Abstract 506



Durvalumab improves long-term outcome in TNBC: Results from the phase II randomized GeparNUEVO study investigating neoadjuvant durvalumab in addition to an anthracycline/taxane based neoadjuvant chemotherapy in early triple-negative breast cancer (TNBC)

Sibylle Loibl, Andreas Schneeweiss, Jens Huober, Michael Braun, Julia Rey, Jens-Uwe Blohmer, Jenny Furlanetto, Dirk-Michael Zahm, Claus Hanusch, Jörg Thomalla, Christian Jackisch, Peter Staib, Theresa Link, Kerstin Rhiem, Christine Solbach, Peter A Fasching, Nicole Burchardi, Carsten Denkert, Michael Untch

-This is a joint study by GBG and AGO-B-

PRESENTED BY: SIBYLLE LOIBL, MD

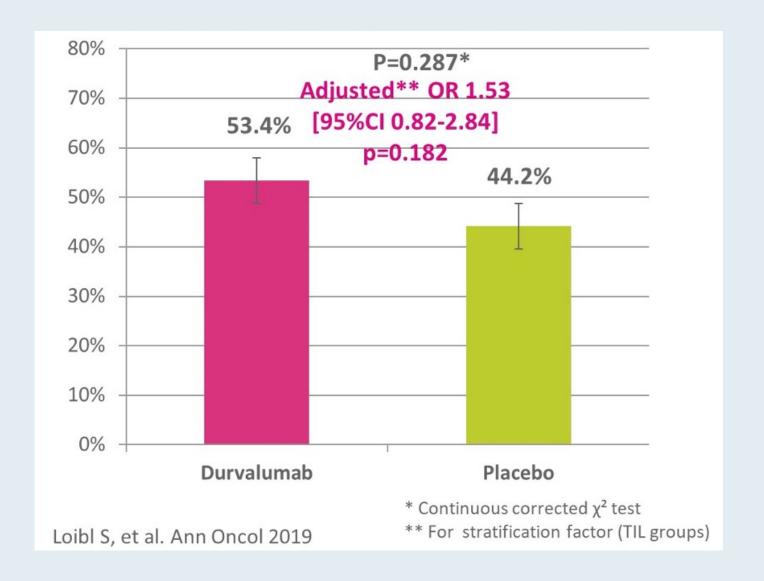
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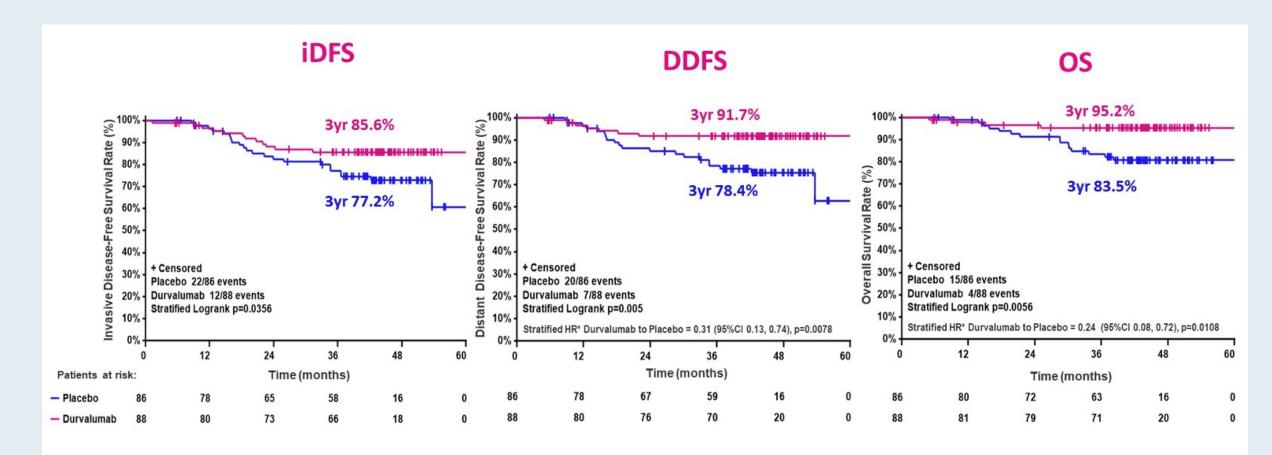


GeparNuevo Primary Endpoint: pCR – ypT0, ypN0





GeparNuevo: iDFS, DDFS and OS Between Treatment Arms



iDFS = invasive disease-free survival; DDFS = distant disease-free survival; OS = overall survival

* Stratified by sTILs



FDA Grants Regular Approval to Sacituzumab Govitecan for Triple-Negative Breast Cancer

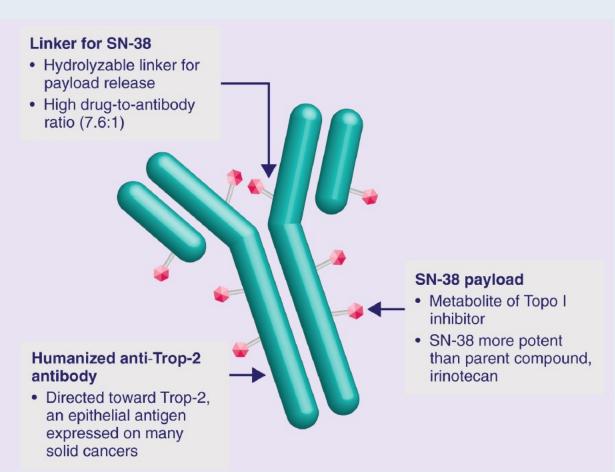
Press Release: April 7, 2021

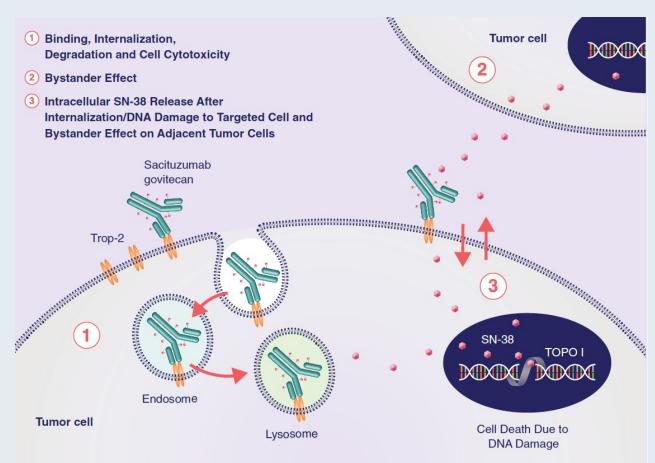
"The Food and Drug Administration granted regular approval to sacituzumab govitecan for patients with unresectable locally advanced or metastatic triple-negative breast cancer (mTNBC) who have received two or more prior systemic therapies, at least one of them for metastatic disease.

Efficacy and safety were evaluated in a multicenter, open-label, randomized trial (ASCENT; NCT02574455) conducted in 529 patients with unresectable locally advanced or mTNBC who had relapsed after at least two prior chemotherapies, one of which could be in the neoadjuvant or adjuvant setting, if progression occurred within 12 months. Patients were randomized (1:1) to receive sacituzumab govitecan, 10 mg/kg as an intravenous infusion, on days 1 and 8 of a 21-day (n = 267) cycle or physician's choice of single agent chemotherapy (n = 262)."



Sacituzumab Govitecan Is a First-in-Class TROP-2-Directed Antibody-Drug Conjugate







N Engl J Med 2021;384:1529-41.

The NEW ENGLAND JOURNAL of MEDICINE

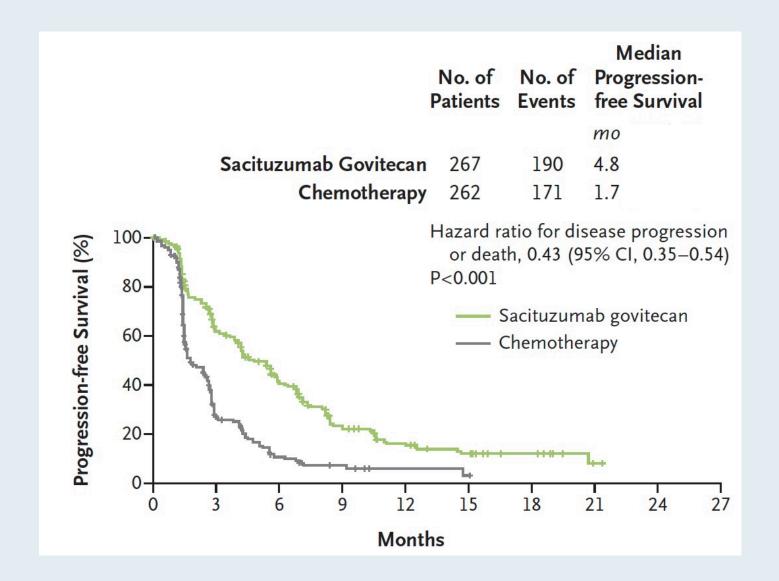
ORIGINAL ARTICLE

Sacituzumab Govitecan in Metastatic Triple-Negative Breast Cancer

A. Bardia, S.A. Hurvitz, S.M. Tolaney, D. Loirat, K. Punie, M. Oliveira, A. Brufsky, S.D. Sardesai, K. Kalinsky, A.B. Zelnak, R. Weaver, T. Traina, F. Dalenc, P. Aftimos, F. Lynce, S. Diab, J. Cortés, J. O'Shaughnessy, V. Diéras, C. Ferrario, P. Schmid, L.A. Carey, L. Gianni, M.J. Piccart, S. Loibl, D.M. Goldenberg, Q. Hong, M.S. Olivo, L.M. Itri, and H.S. Rugo, for the ASCENT Clinical Trial Investigators*

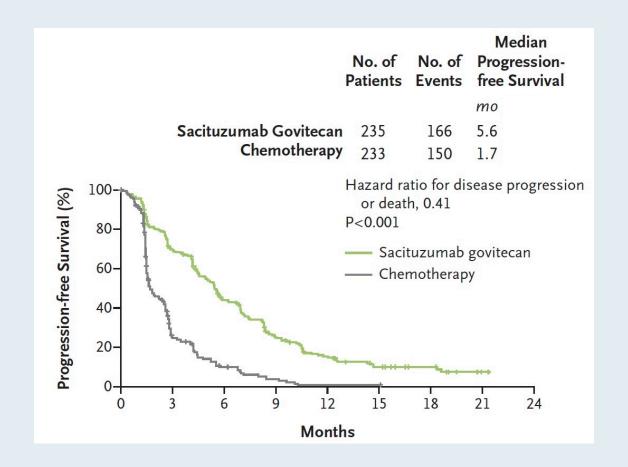


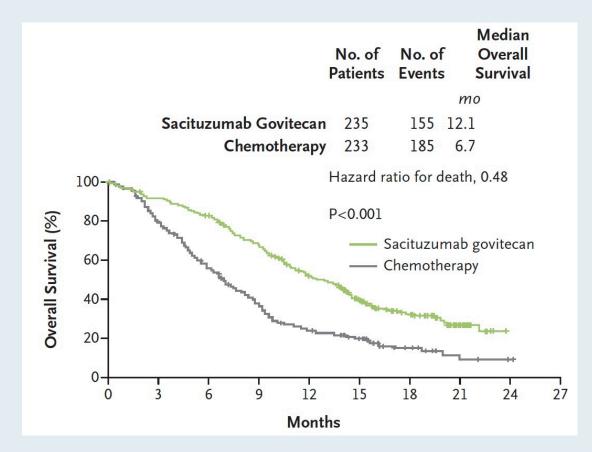
ASCENT: Progression-Free Survival (Overall Population)





ASCENT: PFS and OS among Patients without Brain Metastases







ASCENT: Selected Adverse Events

	Patients (N = 108)					
Adverse event	Any grade	Grade 3	Grade 4			
Gastrointestinal disorders						
Nausea	67%	6%	0			
Diarrhea	62%	8%	0			
Vomiting	49%	6%	0			
Blood and lymphatic system disorders						
Neutropenia	64%	26%	16%			
Anemia	50%	11%	0			
Abnormal values						
Decrease white blood cell counts	21%	8%	3%			



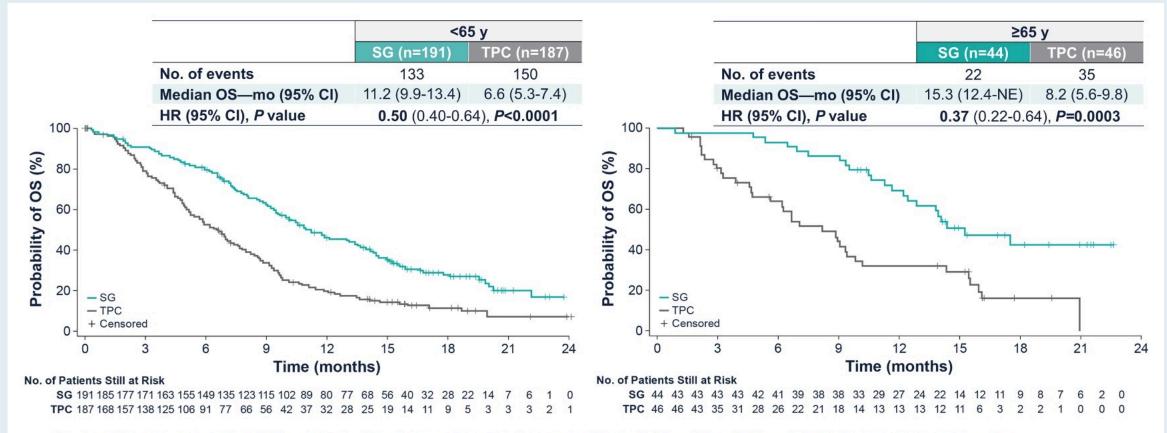
Outcomes in Patients (pts) Aged ≥65 Years in the Phase 3 ASCENT Study of Sacituzumab Govitecan (SG) in Metastatic Triple-Negative Breast Cancer (mTNBC)

Kalinsky K et al.

ASCO 2021; Abstract 1011.



ASCENT: Overall Survival for Young and Older Patients with mTNBC Treated with Sacituzumab Govitecan



 In patients aged ≥65 years, improvement in median OS with SG vs TPC treatment was comparable with that of the overall population (12.1 vs 6.7 months)¹



San Antonio Breast Cancer Symposium 2020; Abstract GS3-06



Biomarker Evaluation in the Phase 3 ASCENT Study of Sacituzumab Govitecan Versus Chemotherapy in Patients With Metastatic Triple-Negative Breast Cancer

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To obtain presentation, https://bit.ly/2020hurvitzgs3-06



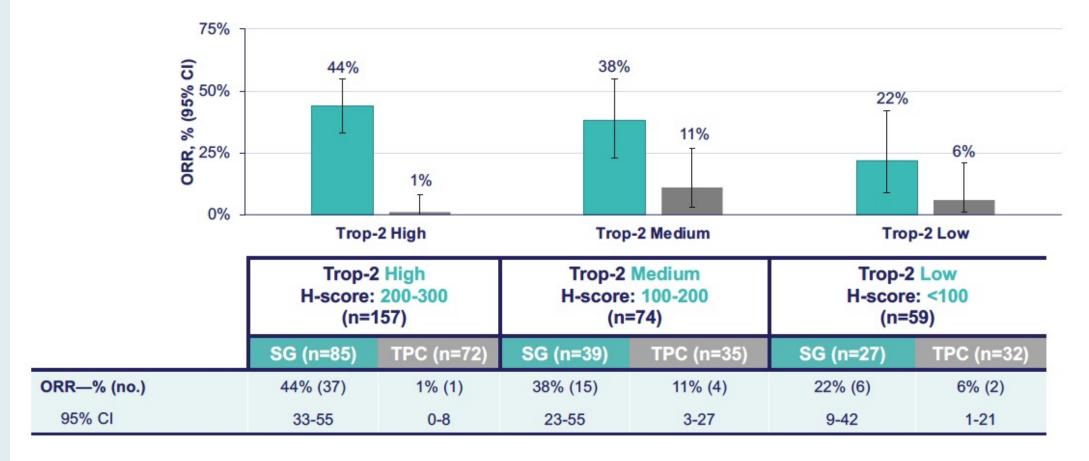






ORR by Trop-2 Expression



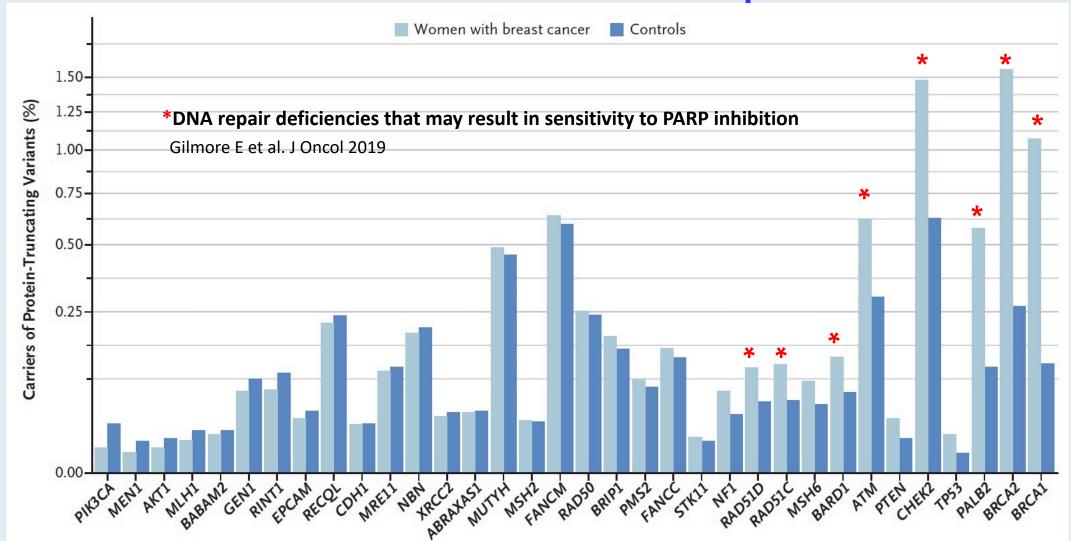


Assessed in the brain metastases-negative population. ORR and PFS are assessed by BICR. Trop-2 expression determined in archival samples by validated immunohistochemistry assay and H-scoring. BICR, blind independent central review; H-score, histochemical-score; ORR, objective response rate; SG, sacituzumab govitecan; TPC, treatment of physician's choice; Trop-2, trophoblast cell surface antigen-2.

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Gene Mutations Associated with Breast Cancer Risk in Population-Based Studies: Proportion of Carriers among Women with Breast Cancer and Control Groups





Meet The Professor Optimizing the Selection and Sequencing of Therapy for Patients with Advanced Gastrointestinal Cancers

Wednesday, August 25, 2021 5:00 PM - 6:00 PM ET

Faculty

Wells A Messersmith, MD

Moderator Neil Love, MD



Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 5 business days.

