Summer Oncology Nursing Series A Complimentary NCPD-Accredited Virtual Curriculum Breast Cancer: Session 2 Thursday, July 29, 2021

5:00 PM – 6:00 PM ET

Faculty Kathy D Miller, MD Kelly Leonard, MSN, FNP-BC



Faculty



Kathy D Miller, MD Ballvé-Lantero Professor Division of Hematology/Oncology Associate Director for Clinical Research The Indiana University Melvin and Bren Simon Cancer Center Indianapolis, Indiana



Moderator Neil Love, MD Research To Practice Miami, Florida



Kelly Leonard, MSN, FNP-BC Family Nurse Practitioner Dana-Farber Cancer Institute Boston, Massachusetts



Commercial Support

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Dr Love — Disclosures

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Research To Practice CME Planning Committee Members, Staff and Reviewers

Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose.



Dr Miller — Disclosures

Consulting Agreements	AbbVie Inc, Athenex		
Contracted Research	Astex Pharmaceuticals, BBI Solutions, CytomX Therapeutics, Pfizer Inc		
Data and Safety Monitoring Board/Committee	AstraZeneca Pharmaceuticals LP, Merck, Roche Laboratories Inc		



Ms Leonard — Disclosures

No relevant conflicts of interest to disclose.



We Encourage Clinicians in Practice to Submit Questions



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Drag the white line above the submission box up to create more space for your message.



Familiarizing Yourself with the Zoom Interface

Increase chat font size



Press Command (for Mac) or Control (for PC) and the + symbol. You may do this as many times as you need for readability.



ONCOLOGY TODAY WITH DR NEIL LOVE

Key Presentations on Breast Cancer from the 2021 ASCO Annual Meeting



DR SARA TOLANEY DANA-FARBER CANCER INSTITUTE









Dr Sara Tolaney Key Presentations on Oncology Today with Dr Neil Love —

(15)

4 Exciting CME/MOC Events You Do Not Want to Miss

A Live Webinar Series Held in Conjunction with the 2021 ASCO Annual Meeting

Mantle Cell, Diffuse Large B-Cell and Hodgkin Lymphoma Monday, August 2 5:00 PM – 6:00 PM ET Hepatocellular Carcinoma and Pancreatic Cancer Wednesday, August 4 5:00 PM – 6:30 PM ET

Colorectal and Gastroesophageal Cancers Tuesday, August 3 5:00 PM – 6:30 PM ET

Head and Neck Cancer Wednesday, August 11 5:00 PM – 6:00 PM ET



Consensus or Controversy? Clinical Investigator Perspectives on the Current and Future Management of Mantle Cell, Diffuse Large B-Cell and Hodgkin Lymphoma

> Monday, August 2, 2021 5:00 PM – 6:00 PM ET

Faculty Stephen M Ansell, MD, PhD Craig Moskowitz, MD Laurie H Sehn, MD, MPH





Consensus or Controversy? Clinical Investigator Perspectives on the Current and Future Management of Colorectal and Gastroesophageal Cancers

> Tuesday, August 3, 2021 5:00 PM – 6:30 PM ET

Faculty

Chloe E Atreya, MD, PhD Dustin Deming, MD Eric Van Cutsem, MD, PhD Zev Wainberg, MD, MSc





Consensus or Controversy? Clinical Investigator Perspectives on the Current and Future Management of Hepatocellular Carcinoma and Pancreatic Cancer

> Wednesday, August 4, 2021 5:00 PM – 6:30 PM ET

Faculty

Tanios Bekaii-Saab, MD Kim A Reiss Binder, MD Eileen M O'Reilly, MD Philip A Philip, MD, PhD, FRCP





Summer Oncology Nursing Series A Complimentary NCPD-Accredited Virtual Curriculum Chronic Lymphocytic Leukemia Thursday, August 5, 2021 5:00 PM – 6:00 PM ET

> Faculty John M Pagel, MD, PhD Lesley Camille Ballance, MSN, FNP-BC



Three Exciting Educational Events Held in Conjunction with the 2021 Pan Pacific Lymphoma Conference A Physician and Nurse Education Series in Partnership with the University of Nebraska Medical Center

Expert Second Opinion — Acute Myeloid Leukemia and Myelodysplastic Syndromes

Monday, August 9, 2021 7:00 PM - 8:30 PM ET

Faculty

Krishna Gundabolu, MD Richard M Stone, MD Eunice S Wang, MD

Moderator Harry Paul Erba, MD, PhD Beyond the Guidelines — Chronic Lymphocytic Leukemia

Tuesday, August 10, 2021 7:00 PM – 9:00 PM ET

Faculty

Alexey V Danilov, MD, PhD Susan O'Brien, MD Sonali M Smith, MD Julie M Vose, MD, MBA

Moderator Matthew S Davids, MD, MMSc Cases from the Community — Multiple Myeloma

Thursday, August 12, 2021 7:00 PM – 8:30 PM ET

Faculty Muhamed Baljevic, MD Joseph Mikhael, MD Nina Shah, MD

Moderator Robert Z Orlowski, MD, PhD



Meet The Professor Optimizing the Selection and Sequencing of Therapy for Patients with HER2-Positive Breast Cancer

Tuesday, August 10, 2021 12:00 PM – 1:00 PM ET

Faculty Karen A Gelmon, MD



Summer Oncology Nursing Series A Complimentary NCPD-Accredited Virtual Curriculum Prostate Cancer Thursday, August 12, 2021 5:00 PM – 6:00 PM ET

> Faculty A Oliver Sartor, MD Ronald Stein, JD, MSN, NP-C, AOCNP



Thank you for joining us!

NCPD credit information will be emailed to each participant shortly.



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Oncology Grand Rounds Nursing Webinar Series April 2021

Monday	Tuesday	Wednesday	Thursday	Friday
19	20 Breast Ca 8:30 AM Lung Ca 5:00 PM	21 AML 12:00 PM CRC and GE Ca 4:45 PM	22 Prostate Ca 8:30 AM Lymphomas 5:00 PM	23
26	27 Multiple Myeloma 8:30 AM GYN 5:00 PM	28 Bladder Ca 12:00 PM	29 CLL 8:30 AM CAR-T 5:00 PM	30



13th Annual Oncology Grand Rounds A Complimentary NCPD Live Webinar Series Held During the 46th Annual ONS Congress **Breast Cancer Tuesday, April 20, 2021** 8:30 AM - 10:00 AM ET **Oncology Nurse Practitioners Medical Oncologists Gretchen Santos Fulgencio, MSN, FNP-BC Carey K Anders, MD** Kathy D Miller, MD Allie Hershey, MSN, RN, ANP-BC, AOCNP Sara M Tolaney, MD, MPH **Kelly Leonard, MSN, FNP-BC**





Kelly Leonard, MSN, FNP-BC



How was it different to take care of this patient versus another patient in the same oncologic setting? What unique biopsychosocial factors (eg, attitude, comorbidities, social support) were considered in the overall management of this case?


Research To Practice's 2019 San Antonio Breast Cancer Symposia



Agenda

Introduction: The Practice-Changing Summer of 2021

Case 1: A 61-year-old woman with ER-positive, HER2-negative localized breast cancer

Case 2: A 53-year-old woman with ER-positive, HER2-negative metastatic breast cancer and a PIK3CA tumor mutation

Case 3: A 33-year-old woman with HER2-positive, ER/PR-positive, node-positive localized breast cancer

Case 4: A 64-year-old woman with ER-positive, HER2-positive metastatic breast cancer and brain metastases



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Case 4: A 64-year-old woman with ER-positive, HER2-positive metastatic breast cancer and brain metastases



The PARP inhibitors olaparib and talazoparib are FDA approved for patients with metastatic breast cancer and a germline BRCA mutation...

- 1. As maintenance therapy after platinum chemotherapy
- 2. As monotherapy
- 3. Both a and b
- 4. I'm not sure



Phase III Trials of PARP Inhibitors in gBRCA HER2-Negative **Metastatic Breast Cancer**

OlympiAD: Olaparib PFS^{1,2} 100 100 -**Overall** Olaparib **TPC Talazoparib** PCT 163 (79.5) Progression-free survival (%) 71 (73.2) Events, n (%) Progression-free survival (%) 80 80 186 (65) Events, n (%) 83 (58) 7.0 mo 4.2 mo Median PFS 8.6 mo 5.6 mo Median PFS HR: 0.58 60 60 HR: 0.54, P<0.001 P<0.001 Olaparib 300 mg bid (N=205) 40 40 **TPC (N=97)** Talazoparib (N=287) Overall PCT (N=144) 20 20 0 30 33 36 12 15 18 21 24 27 39 22 24 26 28 9 42 16 18 20 0 2 10 12 6 8 14 No. at risk (event/cumulative events) Time (months) Time from randomisation (months) 55 42 29 23 TALA (50/50) (53/103)(34/137)(17/154) (9/163) (9/172) (2/174) (5/179) (4/183) (2/185) (0/185) (1/86) (0/185) (1/86)Number at risk PCT Olaparib 20520117715915412910710094 73 69 61 40 36 23 21 (7/76)(0/76) (3/79) (2/81) (0/81) (1/82) (1/83) (0/83) (0/83) (0/83) (0/83)TPC 97 88 83 46 44 29 25 24 21 13 11 11 8 7 4 4 4

EMBRACA: Talazoparib PFS³

1. Robson M, et al. N Engl J Med 2017;377:523-33; 2. Olaparib 150mg Film-Coated Tablets, SmPC. 2019;

3. Litton JK, et al. N Engl J Med 2018;379:753-63 (supplementary appendix)

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*

N Engl J Med 2021;384(25):2394-405.



OlympiA: Trial Design



Hormone receptor +ve defined as ER and/or PgR positive (IHC staining ≥ 1%) Triple Negative defined as ER and PgR negative (IHC staining < 1%) 1Hudis CA, J Clin Oncol 2007



Tutt ANJ et al. ASCO 2021; Abstract LBA1.

OlympiA: Invasive Disease-Free Survival





Tutt ANJ et al. N Engl J Med 2021;384(25):2394-405.

OlympiA: Overall Survival





Tutt ANJ et al. N Engl J Med 2021;384(25):2394-405.

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

June 6, 2021

2021 ASCO

ANNUAL MEETING

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Courtesy of Melinda Telli, MD

Pathologic Complete Response



Presented By: Jennifer K. Litton

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Courtesy of Melinda Telli, MD

The anti-PD-L1 antibody atezolizumab is currently FDA approved in combination with *nab* paclitaxel as first-line treatment for...

- 1. All patients with metastatic breast cancer
- 2. Metastatic triple-negative breast cancer
- 3. Metastatic PD-L1-positive triple-negative breast cancer
- 4. I'm not sure



FDA Approval for High-Risk Early-Stage TNBC of Pembrolizumab Combined with Chemotherapy as Neoadjuvant Treatment, Then Continued as Single-Agent Adjuvant Treatment After Surgery Press Release – July 27, 2021

The US Food and Drug Administration has approved pembrolizumab for the treatment of highrisk early-stage TNBC in combination with chemotherapy as neoadjuvant treatment and then continued as single-agent adjuvant treatment after surgery, based on the Phase III KEYNOTE-522 trial. KEYNOTE-522 demonstrated that pembrolizumab in combination with chemotherapy before surgery and continued as a single agent after surgery significantly prolonged event-free survival in comparison to the same neoadjuvant chemotherapy regimens alone for patients with previously untreated Stage II or Stage III TNBC.

Additionally, the FDA converted the accelerated approval of pembrolizumab in combination with chemotherapy for patients with locally recurrent unresectable or metastatic TNBC whose tumors express PD-L1 (CPS ≥10) to a full approval based on confirmatory data from KEYNOTE-522. This approval was originally granted in November 2020 based on results from the Phase III KEYNOTE-355 trial.

https://www.merck.com/news/fda-approves-keytruda-pembrolizumab-for-treatment-of-patients-with-high-risk-early-stage-triple-negative-breast-cancer-in-combination-with-chemotherapy-as-neoadjuvant-treatment-then-continued/



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 Institutet 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





Schmid P et al. ESMO 2021;Abstract VP7.

KEYNOTE-522 Study Design (NCT03036488)



Carboplatin schedule (QW vs Q3W)

Neoadjuvant phase: starts from the first neoadjuvant treatment and ends after definitive surgery (post treatment included) **Adjuvant phase:** starts from the first adjuvant treatment and includes radiation therapy as indicated (post treatment included)



Schmid P et al. ESMO 2021;Abstract VP7.

Statistically Significant and Clinically Meaningful EFS at IA4





Schmid P et al. ESMO 2021;Abstract VP7.

Overall Survival





Phase III KEYNOTE-355 Trial Met Its Primary Endpoint of Overall Survival in Patients with Metastatic TNBC Whose Tumors Expressed PD-L1 (CPS ≥10)

Press Release – July 27, 2021

"Positive overall survival (OS) results were announced from the 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."

https://www.merck.com/news/merck-announces-phase-3-keynote-355-trial-met-primary-endpoint-of-overall-survival-os-in-patients-with-metastatic-triple-negative-breast-cancer-whose-tumors-expressed-pd-l1-cps-%e2%89%a510/



Sacituzumab Govitecan Is Granted Regular Approval by the FDA for TNBC 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.

In April 2020, sacituzumab govitecan received accelerated approval for patients with mTNBC who have received at least two prior therapies for metastatic disease. The following trial was the confirmatory trial for the accelerated approval.

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)."

https://www.fda.gov/drugs/resources-information-approved-drugs/fda-grants-regular-approval-sacituzumab-govitecan-triple-negative-breast-cancer





Sacituzumab Govitecan (SG) Is a First-in-Class Trop-2–Directed ADC

- SG is distinct from other ADCs¹⁻⁴
 - Antibody highly specific for Trop-2
 - High drug-to-antibody ratio (7.6:1)
 - Internalization and enzymatic cleavage by tumor cell not required for SN-38 liberation from antibody
 - Hydrolysis of the linker also releases SN-38 extracellularly in the tumor microenvironment (bystander effect)
- Granted FDA accelerated approval for mTNBC⁵
- Landmark ASCENT study demonstrated a significant survival improvement of SG over chemotherapy, with a tolerable safety profile in pretreated mTNBC⁶
 - Median PFS of 5.6 vs 1.7 months (HR 0.41, P<0.0001)
 - Median OS of 12.1 vs 6.7 months (HR 0.48, P<0.0001)

ADC, antibody-drug conjugate; FDA, US Food and Drug Administration; OS, overall survival; PFS, progression-free survival; TNBC, triple-negative breast cancer; Trop-2, trophoblast cell surface antigen 2. 1. Goldenberg DM, et al. *Expert Opin Biol Ther.* 2020;20:871-885. 2. Nagayama A, et al. *Ther Adv Med Oncol.* 2020;12:1758835920915980. 3. Cardillo TM, et al. *Bioconjugate Chem.* 2015;26:919-931. 4. Goldenberg DM, et al. *Oncotarget.* 2015;6:22496-224512. 5. Press Release. https://www.fda.gov/drugs/drug-approvals-and-databases/fda-grants-accelerated-approval-sacituzumab-govitecan-hziy-metastatic-triple-negative-breast-cancer. Accessed August 26, 2020. 6. Bardia A, et al. ESMO 2020. Abstract LBA17.

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Hurvitz SA et al. SABCS 2020; Abstract GS3-06.

San Antonio Breast Cancer Symposium®, December 8-12, 2020

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)





Agenda

Introduction: The Practice-Changing Summer of 2021

Case 1: A 61-year-old woman with ER-positive, HER2-negative localized breast cancer

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Case Presentation – Ms Leonard: A 61-year-old woman with ER-positive, HER2-negative localized breast cancer

- Single grandmother and homemaker who found a large 7-cm mass on self examination
- Neoadjuvant ddAC-T
- T3N3 at surgery (17 positive lymph nodes)
- Adjuvant letrozole and zoledronic acid



How was it different to take care of this patient versus another patient in the same oncologic setting? What unique biopsychosocial factors (eg, attitude, comorbidities, social support) were considered in the overall management of this case?



What effect was observed in the Phase III trial of adjuvant abemaciclib?

- 1. Fewer recurrences
- 2. Fewer deaths
- 3. Both
- 4. I'm not sure



Which of the following toxicities is more common with palbociclib and ribociclib than with abemaciclib?

- 1. Gastrointestinal toxicity
- 2. Neutropenia
- 3. Anemia
- 4. Peripheral neuropathy
- 5. I'm not sure



CDK4/6 Regulates Cell Cycle Progression





Adapted from Finn et al, 2016.

J Clin Oncol 2020;38(34):3987-98.

Abemaciclib Combined With Endocrine Therapy for the Adjuvant Treatment of HR+, HER2-, Node-Positive, High-Risk, Early Breast Cancer (monarchE) Stephen R. D. Johnston, MD, PhD¹; Nadia Harbeck, MD, PhD²; Roberto Hegg, MD, PhD³; Masakazu Toi, MD, PhD⁴; Miguel Martin, MD, PhD⁵; Zhi Min Shao, MD⁶; Qing Yuan Zhang, MD, PhD⁷; Jorge Luis Martinez Rodriguez, MD⁸;

Stephen R. D. Johnston, MD, PhD¹; Nadia Harbeck, MD, PhD²; Roberto Hegg, MD, PhD³; Masakazu Toi, MD, PhD⁴; Miguel Martin, MD, PhD⁵; Zhi Min Shao, MD⁶; Qing Yuan Zhang, MD, PhD⁷; Jorge Luis Martinez Rodriguez, MD⁸; Mario Campone, MD, PhD⁹; Erika Hamilton, MD¹⁰; Joohyuk Sohn, MD, PhD¹¹; Valentina Guarneri, MD, PhD¹²; Morihito Okada, MD, PhD¹³; Frances Boyle, MD, MBBS, PhD¹⁴; Patrick Neven, MD, PhD¹⁵; Javier Cortés, MD, PhD¹⁶; Jens Huober, MD¹⁷; Andrew Wardley, MD, MBChB¹⁸; Sara M. Tolaney, MD, MPH¹⁹; Irfan Cicin, MD²⁰; Ian C. Smith, MD^{21,22}; Martin Frenzel, PhD²²; Desirée Headley, MSc²²; Ran Wei, PhD²²; Belen San Antonio, PhD²²; Maarten Hulstijn, PhD²²; Joanne Cox, MD²²; Joyce O'Shaughnessy, MD²³; and Priya Rastogi, MD²⁴; on behalf of the monarchE Committee Members and Investigators

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monarchE: Invasive Disease-Free Survival (IDFS) (Zoomed in to better show separation of curves)





Johnston SRD et al. J Clin Oncol 2020;38(34):3987-98.

Articles

Lancet Oncol 2021;22:212-22



Palbociclib with adjuvant endocrine therapy in early breast cancer (PALLAS): interim analysis of a multicentre, open-label, randomised, phase 3 study

Erica L Mayer, Amylou C Dueck, Miguel Martin, Gabor Rubovszky, Harold J Burstein, Meritxell Bellet-Ezquerra, Kathy D Miller, Nicholas Zdenkowski, Eric P Winer, Georg Pfeiler, Matthew Goetz, Manuel Ruiz-Borrego, Daniel Anderson, Zbigniew Nowecki, Sibylle Loibl, Stacy Moulder, Alistair Ring, Florian Fitzal, Tiffany Traina, Arlene Chan, Hope S Rugo, Julie Lemieux, Fernando Henao, Alan Lyss, Silvia Antolin Novoa, Antonio C Wolff, Marcus Vetter, Daniel Egle, Patrick G Morris, Eleftherios P Mamounas, Miguel J Gil-Gil, Aleix Prat, Hannes Fohler, Otto Metzger Filho, Magdalena Schwarz, Carter DuFrane, Debora Fumagalli, Kathy Puyana Theall, Dongrui Ray Lu, Cynthia Huang Bartlett, Maria Koehler, Christian Fesl, Angela DeMichele^{*}, Michael Gnant^{*}



Randomized Trials of Endocrine Therapy with and without CDK4/6 Inhibition

Line	Trial	Schema	PFS HR compared to endocrine alone	OS HR compared to endocrine alone	
First line	PALOMA-1	Letrozole ± palbociclib	0.49	0.897	
	PALOMA-2	Letrozole ± palbociclib	0.58	NR	
	MONALEESA-2	Letrozole ± ribociclib	0.56	0.75	
	MONALEESA-3	Fulvestrant ± ribociclib	0.55	0.72	
	MONALEESA-7 (premenopausal)	Goserelin + Al or tamoxifen ± ribociclib	0.55	0.71	
	MONARCH 3	Letrozole or anastrozole, ± abemaciclib	0.54	NR	
Second line	PALOMA-3	Fulvestrant ± palbociclib	0.46	0.75	
	MONARCH 2	Fulvestrant ± abemaciclib	0.55	0.757	



Courtesy of Dr Harold Burstein; Updated with MONALEESA-3 and MONALEESA-7

Common Side Effects and Dosing of CDK4/6 Inhibitors

	Palbociclib		Abemaciclib		Ribociclib	
Dosing	125 mg qd		200 mg BID		600 mg qd	
	3 wk on, 1 wk off		continuously		3 wk on, 1 wk off	
Common adverse events	All grades	Grade 3/4	All grades	Grade 3/4	All grades	Grade 3/4
Neutropenia	95%	54%	88%	27%	46%	29%
Thrombocytopenia	76%	19%	42%	2%	37%	10%
Diarrhea	16%	0	90%	20%	22%	3%
Nausea	23%	0	65%	5%	46%	2%
Vomiting	5%	0	35%	2%	25%	0



Barroso-Sousa R et al. *Breast Care* 2016;11:167-73.

Agenda

Introduction: The Practice-Changing Summer of 2021

Case 1: A 61-year-old woman with ER-positive, HER2-negative localized breast cancer

Case 2: A 53-year-old woman with ER-positive, HER2-negative metastatic breast cancer and a PIK3CA tumor mutation

Case 3: A 33-year-old woman with HER2-positive, ER/PR-positive, node-positive localized breast cancer

Case 4: A 64-year-old woman with ER-positive, HER2-positive metastatic breast cancer and brain metastases



Case Presentation – Ms Leonard: A 53-year-old woman with ER-positive, HER2-negative metastatic breast cancer and a PIK3CA tumor mutation

- Married mother of 2 teenage children whose disease has progressed on CDK4/6 inhibitors, everolimus and multiple chemotherapies
- Disease progression on multiple lines of therapeutic regimens that included
 - Abemaciclib/fulvestrant
 - Palbociclib
 - Eribulin
 - Everolimus/exemestane
- Treated with alpelisib with fulvestrant
- Management of hyperglycemia associated with alpelisib



How was it different to take care of this patient versus another patient in the same oncologic setting? What unique biopsychosocial factors (eg, attitude, comorbidities, social support) were considered in the overall management of this case?


The PI3 kinase inhibitor alpelisib is used for patients with metastatic ER-positive, HER2-negative breast cancer with a...

- 1. PIK3CA germline mutation
- 2. PIK3CA somatic mutation
- 3. PIK3CA amplification
- 4. All of the above
- 5. I'm not sure



Which of the following strategies is effective in the management of rash associated with alpelisib?

- 1. Administration of antihistamines
- 2. Hold or dose adjustment of alpelisib
- 3. Application of topical corticosteroid cream
- 4. All of the above
- 5. I'm not sure



PI3K Inhibitors: Mechanism of Action



- PI3K is involved in the activation of Akt.
- Hyperactivation of the PI3K pathway is implicated in malignant transformation, cancer progression and endocrine therapy resistance.
- PIK3CA encodes the alpha isoform of the PI3K catalytic subunit.
- Around 40% of patients with HR+, HER- BC present with an activating PIK3CA tumor mutation.
- Alpelisib is a specific inhibitor of the PI3K alpha isoform.



SOLAR-1 Phase III Study Design



Primary endpoint: Locally assessed PFS in PIK3CA mutation cohort







ORIGINAL ARTICLE

Alpelisib plus fulvestrant for *PIK3CA*-mutated, hormone receptor-positive, human epidermal growth factor receptor-2—negative advanced breast cancer: final overall survival results from SOLAR-1

F. André^{1*}, E. M. Ciruelos², D. Juric³, S. Loibl⁴, M. Campone⁵, I. A. Mayer⁶, G. Rubovszky⁷, T. Yamashita⁸, B. Kaufman⁹, Y.-S. Lu¹⁰, K. Inoue¹¹, Z. Pápai¹², M. Takahashi¹³, F. Ghaznawi¹⁴, D. Mills¹⁵, M. Kaper¹⁴, M. Miller¹⁴, P. F. Conte¹⁶, H. Iwata¹⁷ & H. S. Rugo¹⁸

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Available online 25 November 2020

Ann Oncol 2021;32(2):208-17.



SOLAR-1: PFS Outcomes by PIK3CA Mutation Status







SOLAR-1: OS in Patients with Advanced BC with a PIK3CA Mutation





André F et al. Ann Oncol 2021;32(2):208-17.

BYLieve: Incidence of Rash with and without Prophylactic Antihistamines





Rugo HS et al. ASCO 2020; Abstract 1006.

Agenda

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Case 1: A 61-year-old woman with ER-positive, HER2-negative localized breast cancer

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Case Presentation – Ms Leonard: A 33-year-old woman with HER2-positive, ER/PR-positive, node-positive localized breast cancer

- Veterinary technician with residual disease after treatment with neoadjuvant TCHP and surgery
- Currently treated with T-DM1 and tolerating treatment well
- Fertility preservation



How was it different to take care of this patient versus another patient in the same oncologic setting? What unique biopsychosocial factors (eg, attitude, comorbidities, social support) were considered in the overall management of this case?



A patient with a HER2-positive IDC responds to neoadjuvant chemotherapy and trastuzumab/pertuzumab, but at surgery residual disease is detected. In general, the most common next treatment is...

- 1. Trastuzumab
- 2. Trastuzumab/pertuzumab
- 3. T-DM1
- 4. Any of the above
- 5. I'm not sure



Trastuzumab Emtansine (T-DM1): Mechanisms of Action





KATHERINE Study Design

- cT1-4/N0-3/M0 at presentation (cT1a-b/N0 excluded)
- Centrally confirmed HER2-positive breast cancer
- Neoadjuvant therapy must have consisted of
 - Minimum of 6 cycles of chemotherapy
 - Minimum of 9 weeks of taxane
 - Anthracyclines and alkylating agents allowed
 - All chemotherapy prior to surgery
 - Minimum of 9 weeks of trastuzumab
 - Second HER2-targeted agent allowed
- Residual invasive tumor in breast or axillary nodes
- Randomization within 12 weeks of surgery

Stratification factors:

- Clinical presentation: Inoperable (stage cT4 or cN2–3) vs operable (stages cT1-3N0-1)
- Hormone receptor: ER or PR positive vs ER negative and PR negative/unknown
- Preoperative therapy: Trastuzumab vs trastuzumab plus other HER2-targeted therapy
- Pathological nodal status after neoadjuvant therapy: Positive vs negative/not done



Radiation and endocrine therapy per protocol and local guidelines

Geyer CE et al. SABCS[®] 2018;Abstract GS1-10.



KATHERINE: Invasive Disease-Free Survival (IDFS) Outcomes

IDFS	T-DM1 (n = 743)	Trastuzumab (n = 743)
IDFS events 3-year IDFS	12.2% 88.3%	22.2% 77.0%
	HR = 0.50; <i>p</i> < 0.0001	
Distant recurrence		
3-year event-free rate	89.7%	83.0%
	HR = 0.60	



Von Minckwitz G, et al. N Engl J Med 2019;380:617-28.

Adjuvant Trastuzumab Emtansine Versus Paclitaxel in Combination With Trastuzumab for Stage I HER2-Positive Breast Cancer (ATEMPT): A Randomized Clinical Trial

Sara M. Tolaney, MD, MPH^{1,2}; Nabihah Tayob, PhD¹; Chau Dang, MD³; Denise A. Yardley, MD⁴; Steven J. Isakoff, MD, PhD⁵; Vicente Valero, MD⁶; Meredith Faggen, MD¹; Therese Mulvey, MD⁵; Ron Bose, MD, PhD⁷; Jiani Hu, MSc¹; Douglas Weckstein, MD¹; Antonio C. Wolff, MD⁸; Katherine Reeder-Hayes, MD, MBA, MSc⁹; Hope S. Rugo, MD¹⁰; Bhuvaneswari Ramaswamy, MD¹¹; Dan Zuckerman, MD¹²; Lowell Hart, MD¹³; Vijayakrishna K. Gadi, MD, PhD¹⁴; Michael Constantine, MD¹; Kit Cheng, MD¹⁵; Frederick Briccetti, MD¹; Bryan Schneider, MD¹⁶; Audrey Merrill Garrett, MD¹⁷; Kelly Marcom, MD¹⁸; Kathy Albain, MD¹⁹; Patricia DeFusco, MD²⁰; Nadine Tung, MD^{2,21}; Blair Ardman, MD²²; Rita Nanda, MD²³; Rachel C. Jankowitz, MD²⁴; Mothaffar Rimawi, MD²⁵; Vandana Abramson, MD²⁶; Paula R. Pohlmann, MD, PhD, MSc²⁷; Catherine Van Poznak, MD²⁸; Andres Forero-Torres, MD²⁹; Minetta Liu, MD³⁰; Kathryn Ruddy, MD³⁰; Yue Zheng, MSc¹; Shoshana M. Rosenberg, ScD, MPH^{1,2}; Richard D. Gelber, PhD^{1,2}; Lorenzo Trippa, PhD^{1,2}; William Barry, PhD¹; Michelle DeMeo, BS¹; Harold Burstein, MD, PhD^{1,2}; Ann Partridge, MD, MPH^{1,2}; Eric P. Winer, MD^{1,2}; and Ian Krop, MD, PhD^{1,2}

J Clin Oncol 2021;[Online ahead of print]



ATEMPT: Invasive Disease-Free Survival (iDFS) and Recurrence-Free Interval (RFI)

Outcome	T-DM1 (n = 383)	TH (n = 114)
Three-year iDFS	97.8%	93.4%
Three-year RFI	99.2%	94.3%



Tolaney SM et al. J Clin Oncol 2021;[Online ahead of print].

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Case 4: A 64-year-old woman with ER-positive, HER2-positive metastatic breast cancer and brain metastases



Case Presentation – Ms Leonard: A 64-year-old woman with ER-positive, HER2-positive metastatic breast cancer and brain metastases

- Progression of metastatic disease on multiple HER2-targeted therapies, including
 - Neratinib/capecitabine
 - Tucatinib
- Patient education on typical toxicities associated with capecitabine and tucatinib
- Impact of CNS involvement on patient's quality of life



How was it different to take care of this patient versus another patient in the same oncologic setting? What unique biopsychosocial factors (eg, attitude, comorbidities, social support) were considered in the overall management of this case?



A Phase III trial evaluating the addition of tucatinib to trastuzumab/capecitabine for metastatic HER2-positive breast cancer resulted in an improvement in overall survival for all patients, including those with brain metastases.

- 1. Agree
- 2. Disagree
- 3. I'm not sure



Trastuzumab deruxtecan carries a black box warning for...

- 1. QT interval prolongation
- 2. Interstitial lung disease
- 3. Cardiovascular events
- 4. I'm not sure



DESTINY-Breast01: Response According to Tumor Size and Subgroup Analyses





Tucatinib Mechanism of Action







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Tucatinib, Trastuzumab, and Capecitabine for HER2-Positive Metastatic Breast Cancer

R.K. Murthy, S. Loi, A. Okines, E. Paplomata, E. Hamilton, S.A. Hurvitz, N.U. Lin, V. Borges, V. Abramson, C. Anders, P.L. Bedard, M. Oliveira, E. Jakobsen, T. Bachelot, S.S. Shachar, V. Müller, S. Braga, F.P. Duhoux, R. Greil, D. Cameron, L.A. Carey, G. Curigliano, K. Gelmon, G. Hortobagyi, I. Krop, S. Loibl, M. Pegram, D. Slamon, M.C. Palanca-Wessels, L. Walker, W. Feng, and E.P. Winer



HER2CLIMB: Survival Outcomes

Among the patients with brain metastases:



Murthy R et al. San Antonio Breast Cancer Symposium 2019; Abstract GS1-01; Murthy RK et al. *N Engl J Med* 2020; 382(7):597-609.



Intracranial Efficacy and Survival With Tucatinib Plus Trastuzumab and Capecitabine for Previously Treated HER2-Positive Breast Cancer With Brain Metastases in the HER2CLIMB Trial

Nancy U. Lin, MD¹; Virginia Borges, MMSc, MD²; Carey Anders, MD³; Rashmi K. Murthy, MD, MBE⁴; Elisavet Paplomata, MD⁵;

Erika Hamilton, MD⁶; Sara Hurvitz, MD⁷; Sherene Loi, MD, PhD⁸; Alicia Okines, MBChB, MD⁹; Vandana Abramson, MD¹⁰;

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Michael P. DiGiovanna, MD, PhD¹⁵; Thomas Bachelot, MD¹⁶; A. Jo Chien, MD¹⁷; Ruth O'Regan, MD⁵;

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J Clin Oncol 2020;38(23):2610-9.



HER2CLIMB: Intracranial Response Rate (ORR-IC) for Patients with Active Brain Metastases and Measurable Intracranial Lesions at Baseline

Confirmed Objective Response Rate (RECIST 1.1)



	TUC+Tras+Cape (N=55)	Pbo+Tras+Cape (N=20)
Best Overall Intracranial Response ^a , n (%)		
Complete Response (CR)	3 (5.5)	1 (5.0)
Partial Response (PR)	23 (41.8)	3 (15.0)
Stable Disease (SD)	24 (43.6)	16 (80.0)
Progressive Disease (PD)	2 (3.6)	0
Not Available ^b	3 (5.5)	0
Subjects with Objective Response of Confirmed CR or PR, n	26	4
Duration of Intracranial Response (DOR-IC) ^e (95% CI) ^f , months	6.8 (5.5, 16.4)	3.0 (3.0, 10.3)

(a) Confirmed Best overall response assessed per RECIST 1.1. (b) Subjects with no post-baseline response assessments. (c) Twosided 95% exact confidence interval, computed using the Clopper-Pearson method (1934). (d Cochran-Mantel-Haenszel test controlling for stratification factors (ECOG performance status: 0/1, and Region of world: North America/Rest of World) at randomization. (e) As estimated using Kaplan-Meier methods. (f) Calculated using the complementary log-log transformation method (Collett, 1994).



*Stratified Cochran-Mantel-Haenszel P value

Research

JAMA Oncology | Original Investigation

Efficacy of Margetuximab vs Trastuzumab in Patients With Pretreated ERBB2-Positive Advanced Breast Cancer A Phase 3 Randomized Clinical Trial

Hope S. Rugo, MD; Seock-Ah Im, MD, PhD; Fatima Cardoso, MD; Javier Cortés, MD, PhD; Giuseppe Curigliano, MD, PhD; Antonino Musolino, MD, PhD, MSc; Mark D. Pegram, MD; Gail S. Wright, MD; Cristina Saura, MD, PhD; Santiago Escrivá-de-Romaní, MD; Michelino De Laurentiis, MD, PhD; Christelle Levy, MD; Ursa Brown-Glaberman, MD; Jean-Marc Ferrero, MD; Maaike de Boer, MD, PhD; Sung-Bae Kim, MD, PhD; Katarína Petráková, MD, PhD; Denise A. Yardley, MD; Orit Freedman, MD, MSc; Erik H. Jakobsen, MD; Bella Kaufman, MD; Rinat Yerushalmi, MD; Peter A. Fasching, MD; Jeffrey L. Nordstrom, PhD; Ezio Bonvini, MD; Scott Koenig, MD, PhD; Sutton Edlich, MS, PA; Shengyan Hong, PhD; Edwin P. Rock, MD, PhD; William J. Gradishar, MD; for the SOPHIA Study Group

JAMA Oncol 2021;[Online ahead of print].



Consensus or Controversy? Clinical Investigator Perspectives on the Current and Future Management of Mantle Cell, Diffuse Large B-Cell and Hodgkin Lymphoma

> Monday, August 2, 2021 5:00 PM – 6:00 PM ET

Faculty Stephen M Ansell, MD, PhD Craig Moskowitz, MD Laurie H Sehn, MD, MPH

> Moderator Neil Love, MD





Thank you for joining us!

NCPD credit information will be emailed to each participant shortly.

