The Annual National General Medical Oncology Summit

A Multitumor CME/MOC-, ACPE- and NCPD-Accredited Educational Conference Developed in Partnership with Florida Cancer Specialists & Research Institute

Friday, March 22, 2024

Moderator Neil Love, MD

Faculty

Erika Hamilton, MD Kevin Kalinsky, MD, MS Joyce O'Shaughnessy, MD Hope S Rugo, MD

Overview

Saturday, March 23rd

Module 1: 7:30 AM – 9:10 AM – Hodgkin and Non-Hodgkin Lymphoma Break: 9:10 AM – 9:30 AM

Module 2: 9:30 AM – 10:20 AM — Gynecologic Cancers

Module 3: 10:20 AM – 11:10 AM — Localized Breast Cancer; SABCS 2023 Review

Module 4: 11:10 AM – 12:00 PM — Metastatic HER2-Positive and Triple-Negative Breast Cancer; SABCS 2023 Review

Lunch: 12:00 PM - 12:30 PM

Module 5: 12:30 PM – 1:20 PM — Prostate Cancer

Module 6: 1:20 PM – 2:10 PM – Urothelial Bladder Cancer

Module 7: 2:10 PM - 3:00 PM - Renal Cell Carcinoma

Overview

Break: 3:00 PM – 3:20 PM

Module 8: 3:20 PM – 4:10 PM — Targeted Therapy for Non-Small Cell Lung Cancer

Module 9: 4:10 PM – 5:00 PM — Nontargeted Treatments for Lung Cancer Sunday, March 24th

Module 10: 7:30 AM – 8:20 AM — Multiple Myeloma

Module 11: 8:20 AM – 9:10 AM — Gastroesophageal Cancers

Break: 9:10 AM – 9:30 AM

Module 12: 9:30 AM – 10:20 AM — Hepatobiliary Cancers

Module 13: 10:20 AM – 11:10 AM — Colorectal Cancer

Module 14: 11:10 AM – 12:00 PM — Pancreatic Cancer

Disclosures for Moderator Neil Love, MD

Dr Love is president and CEO of Research To Practice. Research To Practice receives funds in the form of educational grants to develop CME activities from the following companies: AbbVie Inc, Adaptive Biotechnologies Corporation, ADC Therapeutics, Agios Pharmaceuticals Inc, Alexion Pharmaceuticals, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Astellas, AstraZeneca Pharmaceuticals LP, Aveo Pharmaceuticals, Bayer HealthCare Pharmaceuticals, BeiGene Ltd, BeyondSpring Pharmaceuticals Inc, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol Myers Squibb, Celgene Corporation, Clovis Oncology, Coherus BioSciences, CTI Biopharma, a Sobi company, Daiichi Sankyo Inc, Eisai Inc, Elevation Oncology Inc, EMD Serono Inc, Epizyme Inc, Exact Sciences Corporation, Exelixis Inc, Five Prime Therapeutics Inc, Foundation Medicine, G1 Therapeutics Inc, Genentech, a member of the Roche Group, Genmab US Inc, Gilead Sciences Inc, Grail Inc, GSK, Halozyme Inc, Helsinn Healthcare SA, ImmunoGen Inc, Incyte Corporation, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, Jazz Pharmaceuticals Inc, Karyopharm Therapeutics, Kite, A Gilead Company, Kronos Bio Inc, Legend Biotech, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, MEI Pharma Inc, Merck, Mersana Therapeutics Inc, Mirati Therapeutics Inc, Mural Oncology Inc, Natera Inc, Novartis, Novartis Pharmaceuticals Corporation on behalf of Advanced Accelerator Applications, Novocure Inc, Oncopeptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, R-Pharm US, Sanofi, Seagen Inc, Servier Pharmaceuticals LLC, SpringWorks Therapeutics Inc, Stemline Therapeutics Inc, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Pharmaceuticals USA Inc, TerSera Therapeutics LLC, Tesaro, A GSK Company, TG Therapeutics Inc, Turning Point Therapeutics Inc, Verastem Inc, and Zymeworks Inc.

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Clinicians in the Meeting Room

Networked iPads are available.



Review Program Slides: Tap the Program Slides button to review speaker presentations and other program content.



Answer Survey Questions: Complete the premeeting survey.



Ask a Question: Tap Ask a Question to submit a challenging case or question for discussion. We will aim to address as many questions as possible during the program.

For assistance, please raise your hand. Devices will be collected at the conclusion of the activity.

Clinicians Attending via Zoom



Review Program Slides: A link to the program slides will be posted in the chat room at the start of the program.



Answer Survey Questions: Complete the pre- and postmeeting surveys.



Ask a Question: Submit a challenging case or question for discussion using the Zoom chat room.



Get CE Credit: A CE credit link will be provided in the chat room at the conclusion of the program.

For assistance, please raise your hand. Devices will be collected at the conclusion of the activity.

About the Enduring Program

- The live meeting is being video and audio recorded.
- The proceedings from this weekend will be edited and developed into an enduring web-based video/PowerPoint program. An email will be sent to all attendees when the activity is available.



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Third Annual National General Medical Oncology Summit































































Agenda

Module 1: Optimal Integration of CDK4/6 Inhibitors into the Management of ER-Positive mBC — Dr O'Shaughnessy

Module 2: Role of Oral Selective Estrogen Receptor Degraders (SERDs) in the Treatment of ER-Positive mBC — Dr Hamilton

Module 3: Novel Strategies Targeting the PI3K/AKT/mTOR Signaling Pathway in ER-Positive mBC — Dr Kalinsky

Module 4: Current and Future Role of Antibody-Drug Conjugates (ADCs) in the Management of ER-Positive mBC — Dr Rugo

Module 5: Breast Cancer in the Real World



Susannah Friemel, MD Iowa Cancer Specialists Bettendorf, Iowa



Christina Ortega, PsyD Hollywood, Florida

Breast Cancer in the Real World







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Module 5: Breast Cancer in the Real World

Case Presentation: 65-year-old woman with PMH of ILC develops ER-positive, HER2-low (IHC 1+) mBC on exemestane, receives palbociclib/fulvestrant and is switched to ribociclib/fulvestrant due bone pain



Dr Susannah Friemel (Bettendorf, Iowa)

Optimal Integration of CDK4/6 Inhibitors into the Management of HR+ HER2- MBC

Joyce O'Shaughnessy, MD Celebrating Women Chair in Breast Cancer Research Baylor University Medical Center Texas Oncology Sarah Cannon Research Institute Dallas TX

Disclosures

	AbbVie Inc, Agendia Inc, Aptitude Health, AstraZeneca Pharmaceuticals LP, Carrick
Advisory	Therapeutics, Daiichi Sankyo Inc, Eisai Inc, Fishawack Health, G1 Therapeutics Inc,
Committees and	Genentech, a member of the Roche Group, Gilead Sciences Inc, GSK, Lilly, Loxo
Consulting	Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, Merck, Novartis,
Agreements	Ontada, Pfizer Inc, Pierre Fabre, Puma Biotechnology Inc, Roche Laboratories Inc,
	Samsung Bioepis, Sanofi, Seagen Inc, Stemline Therapeutics Inc

Metastatic HR+ HER2- Breast Cancer in a Woman with a *gCHEK2* mutation

- A 34 yo psychiatrist who had no family history presented in 2010 with grade 2 T1cN0 ER 90%, PR 10%, HER2-, Ki-67 20% HER2- breast cancer. Germline testing revealed a CHEK2 mutation and she underwent bilateral mastectomy
- She was treated with dose dense AC followed by weekly paclitaxel then with 2 years of leuprolide + tamoxifen at which point she decided to take a 2-year hiatus from ET to have a second child (which she promptly did) and to nurse her child for a year
- She resumed treatment with leuprolide + tamoxifen in 2015 and in 2017 she developed recurrent disease in her right pleura presenting with a large effusion which was cytologically positive, ER 90%, PR 70% HER2-, Ki-67 15%. PET CT showed no other sites of metastases
- She underwent BSO and began treatment with letrozole + palbociclib and had rising CA27.29 levels and progressive pleural disease on CT scan 4 mos later. Pleural biopsy showed an ESR1 mutation on NGS
- Her treatment was changed to fulvestrant + abemaciclib which she tolerated well at full dose and had a response to treatment with improvement on PET CT for 13 mos, at which time her disease progressed in the right pleura and RUL

Are the Differences Among the CDK4/6 Inhibitors Clinically Significant?¹⁻³

All Inhibit CDK4/6 complexes

- Ribociclib and abemaciclib are 4 and 5 times more selective toward CDK4 over CDK6
- Abemaciclib has cyclin B–CDK1, cyclin A/E–CDK2, and cyclin T–CDK9 inhibition

IC ₅₀ Inhi	IC ₅₀ Inhibition Values (nmol/L) Against Cyclin-CDK Complexes								
	Cyclin D1- CDK4	Cyclin D1/2/3- CDK4	CDK4:CDK6 Inhibition Ratio	Cyclin B- CDK1	Cyclin A/E- CDK2	Cyclin T- CDK9			
Palbociclib	11	16	1:1.5	>10,000	>10,000	NR			
Ribociclib	10	39	1:4	113,000	76,000	NR			
Abemaciclib	2	10	1:5	1,627	504	57			

- Ribociclib and palbociclib dosed intermittently, abemaciclib continuously
- Blood-brain barrier penetration with abemaciclib
- Different acquired resistance mechanisms
- Different toxicity profiles

1. Hafner. Cell Chem Biol. 2017. 2. Sammons SL et al. Curr Cancer Drug Targets. 2017;17:637-649. 3. Sammons S et al. ASCO 2022.





Phase 3 Trials of CDK4/6 Inhibitors: Consistent PFS Benefit in the First-Line Setting¹⁻⁵

	PALOMA-1	PALOMA-2	MONALEESA-2	MONARCH 3	MONALEESA-3
Design	Phase 2 First line	Phase 3 First line	Phase 3 First line	Phase 3 First line	Phase 3 First and second line
Endocrine Partner	Letrozole	Letrozole	Letrozole	Letrozole or anastrozole	Fulvestrant
CDK4 and 6 Inhibitor	Palbociclib	Palbociclib	Ribociclib	Abemaciclib	Ribociclib
Patients on Study, n	165	666	668	493	367
HR	0.49	0.58	0.56	0.54	0.54
PFS, mo	20.2 vs 10.2	24.8 vs 14.5	25.3 vs 16	28.18 vs 14.76	33.6 vs 19.2

1. Finn RS et al. *Lancet Oncol.* 2015;16:25-35. 2. Finn RS et al. *N Engl J Med.* 2016;375:1925-1936. 3. Hortobagyi GN et al. *Ann Oncol.* 2018;29:1541-1547. 4. Johnston S et al. *NPJ Breast Cancer.* 2019;5:5. 5. Slamon DJ et al. *N Engl J Med.* 2020;382:514-524.

Ribociclib Achieved Statistically Significant OS Benefit in ML-2



Hortobagyi GN, et al. N Engl J Med. 2022;386:942-950.

72 mo

6 years

Δ12.2%

32.0%

RIB + LET

PBO + LET

44.2%

5 years

Δ8.4%

60 mo

Time

43.9%

PALOMA-2: Overall Survival



Median follow-up: 7.5 years Missing survival data: 13% palbociclib (pal) + letrozole (let), 21% control More crossover to CDK4/6i in the control arm, 27% vs 12%

Overall Survival in Subgroups – ITT Population

Subgroup	No. (%)	Median O	S (95% CI)		HR (95% CI)	No Long Followed	per Being for Surviv
		PAL + LET	PBO + LET			PAL + LET	PBO + LI
All randomly assigned patients	666 (100)	53.9 (49.8 to 60.8)	51.2 (43.7 to 58.9)		0.96 (0.78 to 1.18)	13	21
Age, years							
<65	404 (60.7)	53.3 (47.0 to 60.8)	54.4 (44.8 to 60.2)		1.01 (0.77 to 1.31)	11	21
≥65	262 (39.3)	58.6 (49.8 to 66.7)	47.4 (36.2 to 60.4)	<u> </u>	0.87 (0.62 to 1.22)	17	21
Region							
North America	267 (40.1)	53.8 (47.3 to 61.3)	49.4 (37.0 to 57.0)		0.87 (0.63 to 1.19)	16	23
Europe	307 (46.1)	52.3 (46.0 to 63.8)	53.8 (42.3 to 78.7)		1.13 (0.83 to 1.54)	11	17
Asia/Pacific	92 (13.8)	73.4 (47.3 to NE)	55.1 (32.2 to NE)		0.74 (0.41 to 1.36)	14	29
ECOG performance status							
0	359 (53.9)	58.2 (52.1 to 66.0)	85.9 (53.8 to NE)	E C	1.30 (0.93 to 1.80)	11	28
1/2	307 (46.1)	47.3 (41.3 to 60.8)	38.8 (32.2 to 49.8)	H-8-44	0.81 (0.61 to 1.07)	16	16
Disease site							
Visceral	324 (48.6)	48.1 (42.3 to 53.8)	44.8 (32.2 to 53.8)		0.92 (0.69 to 1.22)	13	23
Non-visceral	342 (51.4)	60.8 (53.8 to 72.3)	59.7 (47.4 to 85.3)		0.99 (0.73 to 1.34)	14	20
Disease-free interval							
De novo metastatic	248 (37.2)	54.6 (47.0 to 69.1)	60.4 (49.8 to 93.8)		1.19 (0.84 to 1.70)	10	24
≤12 months	146 (21.9)	45.7 (36.1 to 51.1)	37.7 (27.1 to 56.4)		1.02 (0.66 to 1.58)	12	29
>12 months	272 (40.8)	66.3 (52.1 to 79.7)	47.4 (37.7 to 57.0)		0.73 (0.53 to 1.01)	17	15
Previous endocrine therapy	to the local sector						
Yes	376 (56.5)	53.3 (48.0 to 62.9)	44.6 (34.3 to 52.8)	H-8-4	0.80 (0.61 to 1.05)	16	18
No	290 (43.5)	55.1 (47.3 to 71.4)	60.4 (49.8 to 93.8)		1.20 (0.86 to 1.67)	10	25
Previous chemotherapy							
Yes	322 (48.3)	51.6 (45.6 to 58.6)	44.6 (36.2 to 54.4)		0.87 (0.65 to 1.16)	13	18
No	344 (51.7)	58.4 (50.5 to 71.7)	58.9 (47.7 to 81.0)		1.05 (0.77 to 1.41)	14	24
Bone-only disease							
Yes	151 (22.7)	63.5 (53.9 to 79.7)	52.3 (42.3 to 59.7)		0.71 (0.46 to 1.10)	16	15
No	515 (77.3)	51.6 (46.9 to 57.6)	49.8 (38.8 to 60.4)		1.03 (0.81 to 1.31)	13	23
No. of disease sites							100
1	204 (30.6)	59.1 (53.8 to 73.9)	54.4 (45.4 to 70.3)		0.88 (0.60 to 1.28)	15	18
2	169 (25.4)	60.8 (47.9 to 87.2)	54.5 (33.5 to NE)	H-8-1	- 0.94 (0.59 to 1.50)	15	37
>3	293 (44.0)	48.1 (41.3 to 53.8)	45.8 (32.4 to 57.0)		1.05 (0.78 to 1.40)	12	15
							
			0.01 0.2	5 0.5 0.75 1 1.25	1.5 1.75 2		
			In F	avor of In	Favor of		
			DA	ILTT DD	O . LET		

Subgroup	No. (%)	Median O	S (95% CI)		HR (95% CI)	Followed fo	r Survival (%
		PAL + LET	PBO + LET			PAL + LET	PBO + LET
All randomly assigned patients	666 (100)	53.8 (49.8 to 59.2)	49.8 (42.3 to 56.4)	r i la	0.92 (0.76 to 1.12)	9	12
Age, years							
<65	404 (60.7)	53.8 (47.9 to 61.3)	53.4 (38.8 to 60.1)		0.95 (0.73 to 1.22)	8	12
≥65	262 (39.3)	55.3 (47.3 to 63.7)	47.2 (36.2 to 57.5)		0.88 (0.64 to 1.21)	11	11
Region							
North America	267 (40.1)	53.8 (47.3 to 61.3)	47.2 (37.0 to 56.1)		0.86 (0.64 to 1.16)	8	12
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Asia/Pacific	92 (13.8)	73.4 (47.3 to NR)	55.1 (32.2 to NR)		0.72 (0.40 to 1.29)	14	21
ECOG performance status							
0	359 (53.9)	58.2 (51.6 to 64.2)	59.7 (51.3 to 93.3)	H		8	18
1/2	307 (46.1)	47.1 (41.3 to 58.4)	38.2 (31.9 to 49.4)		0.81 (0.62 to 1.06)	11	7
Disease site							
Visceral	324 (48.6)	48.1 (42.2 to 55.1)	42.3 (31.7 to 51.2)		0.86 (0.65 to 1.13)	8	16
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Disease-free interval							
De novo metastatic	248 (37.2)	53.8 (45.6 to 63.8)	59.7 (46.8 to 81.0)		1.13 (0.81 to 1.58)	5	12
≤12 months	146 (21.9)	45.7 (36.1 to 53.3)	37.5 (27.1 to 51.3)		1.02 (0.67 to 1.54)	9	17
>12 months	272 (40.8)	64.0 (52.7 to 78.2)	47.4 (37.7 to 57.5)	يف وسر	0.70 (0.52 to 0.96)	13	9
Previous endocrine therapy							
Yes	376 (56.5)	53.8 (48.1 to 62.9)	44.6 (34.3 to 52.3)	⊢_⊒-÷ ∦	0.79 (0.61 to 1.02)	12	10
No Providuo abomothoramy	290 (43.5)	53.9 (46.0 to 66.3)	59.7 (47.7 to 78.0)	⊢ ; ⊢ ∎	- 1.12 (0.82 to 1.53)	6	14
Vos	322 (48 3)	52 7 (46 9 to 59 0)	44 8 (37 0 to 53 8)		0.83 (0.63 to 1.10)	9	8
No	344 (51 7)	55 3 (49 2 to 67 0)	55 1 (46 8 to 77 5)		1.02 (0.76 to 1.36)	9	15
Bone only disease	011101111	00.0 (10.2 10 01.0)	00.11110.01017107				10
Yes	151 (22.7)	63.5 (53.9 to 73.9)	52.8 (42.3 to 64.1)		0.77 (0.51 to 1.17)	12	6
No	E1E (77.2)	E1 1 (46 1 to E7 4)	47 7 (27 9 to 57 5)		0.07 (0.77 to 1.21)	0	12
No of discass sites	515 (77.57	51.1 (40.1 (0 57.4/	47.7 137.0 10 57.5/		0.57 10.77 10 1.217	5	13
1	204 (30.6)	59.1 (53.8 to 73.9)	54.4 (45.4 to 70.3)		0.87 (0.60 to 1.25)	11	9
2	169 (25 4)	60 7 (47 2 to 72 4)	48 0 (22 2 to 80 2)		0.84 (0.55 to 1.29)	11	21
2	103 (20.4)	47.4 (44.0 to 73.4)	40.0 (33.2 10 00.2)		4.04 (0.30 to 1.23)		21
23	293 (44.0)	47.1 (41.0 to 52.3)	44.6 (31.9 to 56.4)		1.01 (0.76 to 1.35)	/	9
			0.01.0	25 05 075 1 125	16 176 2		
			0.01 0.	20 0.0 0.70 1 1.20	1.0 1.70 2		
			← In I	Favor of In	Favor of		
			PA	L+LET PB	O + LET		



Slamon DJ et al. J Clin Oncol 2024 March 20;42(9):994-1000; Finn RS et al. ASCO 2022; Abstract LBA1003.

Real-World Data for Overall Survival With Palbociclib¹

P-REALITY X: Overall Survival Before and After sIPTW and PSM



Median OS^a was significantly longer among patients who received PAL+ AI vs AI alone before and after sIPTW and PSM

Note: Observational retrospective analyses are designed to evaluate associations among variables and cannot establish causality; they are not intended for direct comparison with clinical trials.

^a OS was defined as the time in months from the index date to death from any cause.1. Rugo H et al. ESMO BC 2022. Poster 169P.

sIPTW = stabilized inverse probability of treatment weighting; PSM = propensity score matching

MONARCH 3: Final PFS results of 1L abemaciclib + NSAI inhibitor for HR+, HER2– advanced breast cancer



PFS benefit, leading to global regulatory approval



• At the final PFS data cut with a median follow-up of 26.7 months, PFS was prolonged by a median 13.4 months in patients receiving abemaciclib.

Goetz M, et al. SABCS 2023. Abstract GS01-12

MONARCH 3: Final OS results of 1L abemaciclib + NSAI inhibitor for HR+, HER2- advanced breast cancer



Placebo+NSAI 165 155 149 138 127 116 104 95 84 73 62 56 51 47 40



Goetz M. et al. SABCS 2023. Abstract GS01-12

OS subgroup analysis Interaction HR (95% CI) N Events p-value Nature of Disease 0.298 0.755 (0.556, 1.026) Visceral 263 178 Bone only 109 0.596 (0.360, 0.987) 62 Other 121 74 1.042 (0.633, 1.716) Endocrine Therapy 0.205 Prior aromatase inhibitor therapy 0.565 (0.370, 0.863) 135 88 Other prior endocrine therapy 96 62 0.942 (0.548, 1.619) 262 164 No prior endocrine therapy 0.873 (0.634, 1.202) **Disease Setting** 0.811 0.747 (0.517, 1.079) De novo metastatic disease 196 124 0.791 (0.585, 1.069) 281 182 Metastatic recurrent disease Number of Organs at Baseline 0.436 0.857 (0.620, 1.186) 3+ 229 161 72 2 119 0.856 (0.531, 1.380) 142 80 0.608 (0.388, 0.952) Age 0.737 271 167 <65 0.813 (0.592, 1.118) 222 147 >=65 0.751 (0.539, 1.049) Race 0.444 288 195 Caucasian 0.840 (0.629, 1.122) 148 79 Asian 0.678 (0.426, 1.080) Progesterone Receptor Status 0.033 0.498 (0.314, 0.788) Negative 106 75 383 236 0.886 (0.678, 1.159) Positive **Baseline ECOG PS** 0.656 0.721 (0.507, 1.026) 197 138 296 176 0.801 (0.591, 1.086)

Favors abemaciclib Favors placebo

0.5 0.75 1

Consistent OS effect size observed across subgroups

0.25

0

MONARCH 3: Updated PFS and chemotherapy-free survival



Goetz M, et al. SABCS 2023. Abstract GS01-12

MONARCH 3: Updated PFS in Subgroups¹



Treatment benefit was observed across all subgroups, with the largest effects observed in patients with liver metastases, progesterone receptor-negative tumors, high-grade tumors, or TFI < 36 months

Comparison of MONARCH 3 and MONALEESA-2 OS Analyses¹

	Monarch 3		Monarch 3		Monalessa-2 (NEJM 2022)		
Median F/U	8 years (96 mths, Final OS)		5.8 years (70 mths, IA2OS)		6.6 years (80 mths)		
Randomization	2:	1	2:1		1:1		
Variable	Abema + Al	Placebo + Al	Abema + Al	Placebo + Al	Ribo + Al	Placebo + Al	
No. of Patients	328	165	328	165	334	334	
No. of deaths	198/328 (60%)	116/165 (70%)	158/328 (48%)	97/165 (59%)	181/334 (54%)	219/334 (66%)	
% Post-study CDKi	12%	32%			22%	34%	
Median OS	67 mths	54 mths	67 mths	54 mths	64 mths (52-71)	51 mths (47-60)	
HR for death	.804 (.637- 1.0	015) p= .0664	.754 (.58974) p=.0301		.76 (.6393) 2 sided p= .008		

1. Sara Tolaney, MD, MPH. SABCS 2023. "View from the Trenches: What to do Monday Morning."

CDK4/6 Inhibitors – Toxicity Profiles

Toxicity in First-Line	Palbociclib	Ribociclib	Abemaciclib
Dosing schedule	3 wks on, one wk off	3 wks on, one wk off	Continuous
<mark>≥ Gr 3 neutropenia</mark>	66%	59.6%	21.1%
Febrile neutropenia	1.6%	1.5%	< 1%
<mark>≥ Gr 3 diarrhea (all grade)</mark>	1% (26%)	1.2% (35%)	9.5 (81%)
Gr 2/3 QTc prolongation	-	3/0.3 (with TAM)	-
≥ Gr 3 AST/ALT increase	-	5.7/9.3% All grade ML3 13.7%	3.8/7%
Dose reduction/discontin due to AEs	36% / 9.7%	51% / 7.4%	43.4% / 19.6%
Alopecia	33%	33%	27%
Increased creatinine	-	-	98% (nl fcn)
VTE/PE	0.9 vs 1.4%	NR	4.9 vs 0.6%
ILD/pneumonitis	1%	1.1%	3.3%

MONARCH 2 and 3: Impact of Abemaciclib AEs on PFS¹

- In the abemaciclib arms of MONARCH 2 and 3, 189 (42.9%) and 142 (43.4%) patients had dose reductions due to AEs
- Most frequent AEs accounting for ≥10% of dose reductions were grade 2 or 3 diarrhea (14%–19%) and grade ≥3 neutropenia (10%–13%)
- In both studies, there was no difference in PFS when the dose was reduced to 100 mg, or to 50 mg at any point in the treatment, compared with being treated at the 150-mg dose



1. Rugo HS et al. Oncologist. 2021;26(1):e53-e65

INAVO120: 1L Therapy for Early Relapse and *PIK3CA*-Mutated HR+, HER2- ABC



Stratification factors:

- Visceral Disease (Yes vs. No)
- Endocrine Resistance (Primary vs. Secondary)[†]
- Region (North America/Western Europe; Asia; Other)

Endpoints

- Primary: PFS by Investigator
- Secondary: OS[‡], ORR, BOR, CBR, DOR, PROs

Central testing for *PIK3CA* mutations was done on ctDNA using FoundationOne®Liquid (Foundation Medicine). In China, the central ctDNA test was the PredicineCARE NGS assay (Huidu). † Defined per 4th European School of Oncology (ESO)–European Society for Medical Oncology (ESMO) International Consensus Guidelines for Advanced Breast Cancer.¹ Primary: relapse while on the first 2 years of adjuvant ET; Secondary: relapse while on adjuvant ET after at least 2 years or relapse within 12 months of completing adjuvant ET. [‡] OS testing only if PFS is positive; interim OS analysis at primary PFS analysis; **Pre-menopausal women received ovarian suppression.

1. SABCS 2023 View from the trenches.

INAVO120 Primary Endpoint: PFS (Investigator Assessed)



INAVO120 Key Secondary Endpoint: OS (Interim Analysis)



The pre-specified boundary for OS (p of 0.0098 or HR of 0.592) was not crossed at this interim analysis

1. SABCS 2023 View from the trenches.

Adverse events with any grade AEs ≥20% incidence in either treatment group

Adverse Events	Inavo+Pa (N=	albo+Fulv 162)	Pbo+Palbo+Fulv (N=162)		
	All Grades	Grade 3-4	All Grades	Grade 3-4	
Neutropenia	144 (88.9%)	130 (80.2%)	147 (90.7%)	127 (78.4%)	
Thrombocytopenia	78 (48.1%)	23 (14.2%)	73 (45.1%)	7 (4.3%)	
Stomatitis/Mucosal inflammation	83 (51.2%)	9 (5.6%)	43 (26.5%)	0	
Anemia	60 (37.0%)	10 (6.2%)	59 (36.4%)	3 (1.9%)	
Hyperglycemia	95 (58.6%)	9 (5.6%)	14 (8.6%)	0	
Diarrhea	78 (48.1%)	6 (3.7%)	26 (16.0%)	0	
Nausea	45 (27.8%)	1 (0.6%)	27 (16.7%)	0	
Rash	41 (25.3%)	0	28 (17.3%)	0	
Decreased Appetite	38 (23.5%)	<2%	14 (8.6%)	<2%	
Fatigue	38 (23.5%)	<2%	21 (13.0%)	<2%	
COVID-19	37 (22.8%)	<2%	17 (10.5%)	<2%	
Headache	34 (21.0%)	<2%	22 (13.6%)	<2%	
_eukopenia	28 (17.3%)	11 (6.8%)	40 (24.7%)	17 (10.5%)	
Ocular Toxicities	36 (22.2%)	0	21 (13.0%)	0	

Key AEs are shown in **bold**. AES were assessed per CTCAE V5. Neutropenia, thrombocytopenia, stomatitis/mucosal inflammation, anemia, hyperglycemia, diarrhea, nausea and rash were assessed as medical concepts using grouped terms

AE, adverse event; ALT, alanine aminotransferase; AST, aspartate aminotransferase; Fulv, fulvestrant; Inavo, inavolisib; Palbo, palbociclib; Pbo, placebo.

6.8% stopped inavolisib due to toxicity 70% had dose interruption and/or reduction

Phase 2 MAINTAIN: Fulvestrant or Exemestane ± Ribociclib

Progression Free Survival



Kalinsky K, et al. J Clin Oncol. 2022;40 (suppl 17; Abstract LBA1004)

41.2%

24.6%

5.29
Phase II PACE Trial: Palbociclib After CDK 4/6i



>90% Patients Had Received Prior Palbociclib

 Baseline ctDNA analyses suggest differential impact of targeted agents based on mutational status

	Pts	PFS Events	Median PFS, mo (90% CI)	HR vs F (90% CI)	P-value
F	55	34	4.8 (2.1, 8.2)		
F+P	111	79	4.6 (3.6, 5.9)	1.11 (0.74-1.66)	P=0.62
F+P+A	54	35	8.1 (3.2, 10.7)	0.75 (0.47-1.20)	P=0.23

ctDNA, circulating tumor deoxyribonucleic acid. PFS, progression-free survival. Mayer EL, et al. SABCS 2023. Abstract GS3-06.

Does continuing CDK4/6i beyond progression improve PFS?

postMONARCH (NCT05169567)¹

Whether abemaciclib + fulvestrant improve outcomes after adjuvant or first-line ET + CDK4/6i

EMBER-3 (NCT04975308)²

How well Imlunestrant \pm abemaciclib work compared to standard hormone therapy



The Annual National General Medical Oncology Summit

A Multitumor CME/MOC-, ACPE- and NCPD-Accredited Educational Conference Developed in Partnership with Florida Cancer Specialists & Research Institute

Friday, March 22, 2024

Moderator Neil Love, MD

Faculty

Erika Hamilton, MD Kevin Kalinsky, MD, MS Joyce O'Shaughnessy, MD Hope S Rugo, MD

ONCOLOGY TODAY WITH DR NEIL LOVE

Understanding the Current and Future Role of Oral SERDs (Selective Estrogen Receptor Degraders) in the Management of ER-Positive Metastatic Breast Cancer



DR KOMAL JHAVERI MEMORIAL SLOAN KETTERING CANCER CENTER









Dr Komal Jhaveri – Understanding the Oncology Today with Dr Neil Love —

(15) (30)

Oncology Today Oral SERDS Survey Respondents

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In general, which CDK4/6 inhibitor are you most likely to recommend in combination with endocrine therapy for a <u>premenopausal</u> patient with ER-positive, HER2-negative metastatic breast cancer?





In general, which CDK4/6 inhibitor are you most likely to recommend in combination with endocrine therapy for a <u>postmenopausal</u> patient with ER-positive, HER2-negative metastatic breast cancer?





For a patient with ER-positive, HER2-negative breast cancer who receives a CDK4/6 inhibitor in the adjuvant setting and responds, at what time point, if any, would you be comfortable rechallenging with a CDK4/6 inhibitor in the metastatic setting?





A 65-year-old woman with ER-positive, HER2-negative, nodenegative breast cancer <u>develops multiple minimally</u> <u>symptomatic bone metastases 2 years after starting adjuvant</u> <u>anastrozole</u>. She receives <u>a CDK4/6 inhibitor with fulvestrant</u> and initially responds but then experiences disease progression 18 months later. Regulatory and reimbursement issues aside, what would be your most likely next treatment if biomarker evaluation results were as follows?





Continue CDK4/6 inhibitor and switch endocrine therapy





















PIK3CA mutation-negative

Capivasertib + endocrine therapy

ESR1 mutation-negative



AKT and PTEN mutation-positive





Based on current available data and/or your personal clinical experience, how would you compare the global efficacy of the oral selective estrogen receptor degraders (SERDs) elacestrant, camizestrant and imlunestrant?





Based on current available data and/or your personal clinical experience, how would you compare the global tolerability of the oral SERDs elacestrant, camizestrant and imlunestrant?





Mechanism of Action and Toxicity Profile





How do you generally sequence the following agents for a patient with <u>ER-positive</u>, HER2-low metastatic breast cancer who is eligible to receive both?

Trastuzumab deruxtecan → sacituzumab govitecan







How do you generally sequence the following agents for a patient with <u>ER-negative</u>, HER2-low metastatic breast cancer who is eligible to receive both?



Trastuzumab deruxtecan → sacituzumab govitecan 5



Agenda

Module 1: Optimal Integration of CDK4/6 Inhibitors into the Management of ER-Positive mBC — Dr O'Shaughnessy

Module 2: Role of Oral Selective Estrogen Receptor Degraders (SERDs) in the Treatment of ER-Positive mBC — Dr Hamilton

Module 3: Novel Strategies Targeting the PI3K/AKT/mTOR Signaling Pathway in ER-Positive mBC — Dr Kalinsky

Module 4: Current and Future Role of Antibody-Drug Conjugates (ADCs) in the Management of ER-Positive mBC — Dr Rugo

Module 5: Breast Cancer in the Real World

Case Presentation: 63-year-old woman with ER-positive, HER2-low (IHC 1+) mBC and PD on anastrozole/palbociclib and receives elacestrant; NGS: PIK3CA and ESR1 mutations



Dr Susannah Friemel (Bettendorf, Iowa)

Biomarker Testing and the Role of Oral SERDs in the Treatment of Progressive HR-Positive mBC

Erika Hamilton, MD Director, Breast Cancer Research Chair, Breast Executive Committee Sarah Cannon Research Institute, Nashville, TN

March 2024

SCR Sarah Cannon Research Institute

Disclosures

Consulting Agreements — Payment Made to Institution	Accutar Biotechnology Inc, AstraZeneca Pharmaceuticals LP, Daiichi Sankyo Inc, Ellipses Pharma, Entos Pharmaceuticals, Fosun Pharma, Genentech, a member of the Roche Group, Gilead Sciences Inc, Greenwich LifeSciences Inc, Jazz Pharmaceuticals Inc, Lilly, Mersana Therapeutics Inc, MphaR, Novartis, Olema Oncology, Orum Therapeutics, Pfizer Inc, Stemline Therapeutics Inc, Theratechnologies, Tubulis, Zentalis Pharmaceuticals
Contracted Research — Payment Made to Institution	AbbVie Inc, Accutar Biotechnology Inc, Acerta Pharma — A member of the AstraZeneca Group, ADC Therapeutics, Akesobio Australia Pty Ltd, Amgen Inc, Aravive Inc, ArQule Inc, Artios, Arvinas, AstraZeneca Pharmaceuticals LP, AtlasMedx Inc, BeiGene Ltd, Black Diamond Therapeutics Inc, Bliss Biopharmaceutical, Boehringer Ingelheim Pharmaceuticals Inc, Clovis Oncology, Compugen, Context Therapeutics, Cullinan Oncology, Curis Inc, CytomX Therapeutics, Daiichi Sankyo Inc, Dantari, Deciphera Pharmaceuticals Inc, Duality Biologics, eFFECTOR Therapeutics Inc, Ellipses Pharma, Elucida Oncology Inc, EMD Serono Inc, FUJIFILM Pharmaceuticals USA Inc, G1 Therapeutics, Hutchison MediPharma, ImmunoGen Inc, Incyte Corporation, Infinity Pharmaceuticals Inc, Inspirna, InventisBio, Jacobio Pharmaceuticals Group Co Ltd, Karyopharm Therapeutics, K-Group Beta, Kind Pharmaceuticals LLC, Leap Therapeutics Inc, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, Lycera, MacroGenics Inc, Marker Therapeutics Inc, Mersana Therapeutics Inc, Merus BV, Molecular Templates, Myriad Genetic Laboratories Inc, Novartis, NuCana, Olema Oncology, OncoMed Pharmaceuticals Inc, Onconova Therapeutics Inc, Oncothyreon, ORIC Pharmaceuticals, Orinove Inc, Orum Therapeutics, Pfizer Inc, PharmaMar, Pieris Pharmaceuticals Inc, Pionyr Immunotherapeutics, Repertoire Immune Medicines, Seagen Inc, Sermonix Pharmaceuticals, Shattuck Labs, Stemcentrx, Sutro Biopharma, Syndax Pharmaceuticals Inc, Syros Pharmaceuticals Inc, Taiho Oncology Inc, Takeda Pharmaceuticals USA Inc, Tesaro, A GSK Company, Tolmar, Transcenta, Treadwell Therapeutics, Verastem Inc, Zenith Epigenetics, Zymeworks Inc
Nonrelevant Financial Relationship	Verascity Science

C E	as R/	se: A 66-year-old woman with multiregimen refractory PR-positive, HER2-negative mBC
Diagnosis and	0	2004: 66-year-old, diagnosed with Stage IIIb BC, treated with chemotherapy and XRT
adjuvant therapy		2004-2009: Tamoxifen or AI x 5
Metastatic disease	0	2015: Metastatic adenocarcinoma (pleural effusion) HER2+, received THP x 6 cycles
1L therapy		2017: Trastuzumab, <mark>fulvestrant</mark>
		2019: Trastuzumab, ribociclib, letrozole
HR+/HER2- MBC	0	Jan 14, 2019: Peritoneum bx reveals adenocarcinoma, ER/PR+, HER2-
Oral SERD	0	Jan 2019 - Nov 2019: BRE 321 oral SERD, suggestion of subtle progression (10 months)
Oral SERD/SERCA	0	Dec 2019 - May 2021: C1D1 BRE 287 oral SERCA, subtle progression (6 months)
Targeted therapy	•	Jun 2021 - Nov 2021: C1D1 RM 748, KAT6 inhibitor, off study w/ new rib lesions (5 months)
Chemotherapy	0	Dec 2021 - Feb 2022: started capecitabine (progressed in 2 months with bad GI toxicity)
PROTAC	0	Feb 2022 - Nov 2022: C1D1 BRE 335 ER-PROTAC + Palbociclib (9 months)





- Optimal approach to assessment of relevant biomarkers in HR+/HER2- MBC
- Data from trials with oral SERDs in HR+/HER2- MBC
 - EMERALD: Phase 3 trial with elacestrant
 - SERENA-2: Phase 2 trial with camizestrant
 - EMBER: Phase 1a/1b trial with imlunestrant
- Ongoing trials with camizestrant and imlunestrant



Biomarker assessments for HR+/HER2- MBC



Treatment options post ET+CDK 4/6i for HR+/HER2- MBC

- Median PFS with ET+ CDK4/6i in the 1L setting is ~ 2 years
- What are the treatment options for patients who experience PD on 1L ET+ CDK4/6i?
- Tumors may have one of the following alterations Acquisition of ESR1 mutations PIK3CA mutations AKT/PTEN/PIK3CA alterations Germline/somatic BRCA mutations
- How do we detect these biomarker alterations?

Assessment of specific biomarkers in HR+/HER2- MBC

✓ Obtain NGS profiles on tumor tissue at metastatic diagnosis from all patients with HR+/HER2- BC

✓ Germline mutation testing per guidelines

These will enable planning for both 1L therapy and subsequent lines of treatment

- *ESR1* mutation: Fulvestrant + CDK 4/6i
- *PIK3CA* mutation*: Alpelisib + fulvestrant
- *PIK3CA, AKT1, or PTEN* alterations: Capivasertib + fulvestrant
- Germline/somatic BRCA mutations: Olaparib or Talazoparib
- CLINICAL TRIALS!
- ✓ Repeat biopsy (tumor/liquid) for patients post progression on 2L therapy or post chemotherapy
 - HER2-low: T-DXd
 - MSI-H/dMMR: Pembrolizumab/dostarlimab
 - TMB-H: Pembrolizumab
 - NTRK fusion: Larotrectinib/Entrectinib
 - RET fusion: Selpercatinib
 - CLINICAL TRIALS!

Treatment algorithm for patients with HR+/HER2- MBC

1L	2L	3L	4/5L	≥5L
AI + CDK4/6i	ET + CI	DK4/6i	Taxane or Cape	Eribulin
Fulv + CDK4/6i	ET + Eve	rolimus	TMB-H or MSI-H/dMMR: Dostarlimab/Pembrolizumab	
	<i>PIK3CA</i> m: Fu <i>PIK3CA, AKT1, or</i> Fulv + Cap	lv + Alpelisib PTEN alterations: ivasertib*	HER2 Low: T-DXd	
	BRCAm: Olapari	b or Talazoparib	Sacituzumab govitecan	
	<i>ESR1</i> m: El	acestrant		



@ErikaHamilton9

Oral SERDs trial data



EMERALD: Ph 3 trial of Elacestrant vs SOC in HR+/HER2- MBC

Elacestrant is an oral SERD

Key inclusion criteria Advanced/metastatic ER+/HER2- breast cancer; progressed or relapsed on or after 1 or 2 lines of ET, 1 of which was given in combination with a CDK4/6 inhibitor, for advanced or MBC; ECOG PS 0 or 1

Elacestrant (400 mg oral QD)

Investigator's choice of fulvestrant, anastrozole, letrozole, exemestane

Pat	ient population Elacestrant	SOC
ESR1-mutant	48%	47%
Visceral mets	68%	70%
2 prior lines of ET	46%	41%
Prior chemo	20%	24%



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EMERALD: Progression free survival





Longer duration on prior CDK 4/6i led to longer PFS on elacestrant



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PFS pts with ESR1



(%)

PFS

5

45% reduction risk of

PFS by duration on CDK 4/6i: ESR1 mutant



Bardia A et al. JCO 2021 Kaklamani V et al. SABCS 2022

SERENA-2: Camizestrant vs fulvestrant in ER+ MBC

Camizestrant is an oral SERD



- Primary endpoint: PFS (investigator assessment*)
- Secondary endpoints: CBR24, ORR, OS, safety
- Translational endpoints: serial ctDNA analysis including ESR1m, serial CTCs analysis

Patient population

	C 75	C 150	F
	(n=74)	(n=73)	(n=73)
Lung/liver mets	58.1%	58.9%	58.9%
ESR1m detectable	29.7%	35.6%	47.9%
Adjuvant Al	40.5%	35.6%	31.5%
Al for MBC	55.4%	67.1%	67.1%
Prior CDK 4/6i	51.4%	50.7%	50.7%

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SERENA-2: PFS in WT and ESR1 mutant population



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EMBER: Ph Ia/Ib trial of Imlunestrant Alone or in Combination in HR+/HER2- MBC

Patients with ER+/HER2-ABC; endocrine-sensitive → or untreated de novo ABC; ≤3 prior tx for ABC in phase Ia and ≤2 (including CDK4/6 inhibitor) in phase Ib (estimated N = 500)

Phase Ia Dose Escalation

Imlunestrant PO QD, i3+3 (200-1200 mg)

Phase Ib Dose Expansion (Physician's Choice of Enrollment)

Imlunestrant 400 mg PO QD

Imlunestrant PO QD 400 or 800 mg + Abemaciclib 150 mg BID ± AI*

Imlunestrant PO QD 400 mg or 800 mg + Everolimus 10 mg QD

Imlunestrant PO QD 400 mg or 800 mg + Alpelisib[†] 300 mg QD

*Physician's choice of anastrozole, exemestane, or letrozole; 28-day cycles. **PIK3CA* mutation required for alpelisib cohort.

EMBER: Imlunestrant +/- targeted therapy

PFS



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0 0 0

0

everolimus 42 32

+ alpelisib 21 16

25 23

6 2 0 0

10

19 15

EMBER: Imlunestrant + Abemaciclib ± AI updated efficacy

Tumor Response in Patients With Measurable Disease



CR PR SD PD VOngoing Yes No/not detected Single Multiple

Clinical activity remains encouraging with imlunestrant monotherapy, especially at the RP2D (400mg QD) and particularly in the second line post-CDK4/6 inhibitor setting

Robust efficacy continues to be observed with imlunestrant in combination with abemaciclib ± AI

* Imlunestrant dose: 150mg PO BID with abemaciclib +/- AI

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Side effect profile of oral SERDs vs standard ET





Aromatase Inhibitors

• Arthralgia

.

•

- Sexual side effects
- Increased risk of osteoporosis
- Hot flashes
- Fulvestrant (additional)
 - Injection site pain

Summary

- Oral SERDs offer several advantages over conventional ET
 - More potent
 - Oral bioavailable
 - Less toxic
- Data from randomized trials have demonstrated their activity in combination with CDK 4/6i and in post CDK 4/6i settings
- They can be combined with targeted therapies to improve efficacy
- Ongoing adjuvant trials to improve outcomes in the curative setting



Select clinical trials with oral SERDs

	Camizestrant	Imlunestrant					
METASTATIC SETTING							
1L: Combination with CDK4/6i	SERENA-4: NCT04711252 (Phase 3)	EMBER 1: NCT04188548 (Phase 1)					
1L: Combination with CDK4/6i (switch)	SERENA-6 NCT04964934 (Phase 3-ESR1m)						
Post CDK 4/6 inhibitor	SERENA-2: NCT04214288 (Phase 2)	EMBER 3: NCT04975308 (Phase 3)					
EA	RLY-STAGE SETTI	NG					
Pre-operative setting	SERENA-3: NCT04588298 (Phase 2)	EMBER 2: NCT04647487 (Phase 1)					
Adjuvant setting (upfront)	CAMBRIA-2 NCT05952557 (Phase 3)	EMBER 4: NCT05514054 (Phase 3)					
Adjuvant setting (switch)	CAMBRIA-1 NCT05774951 (Phase 3)						

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Combinations with targeted agents

Drug	Trial ID	Trial ID Combination drugs Primary endpoint		Patient population
ELACESTRANT (RAD1901)	ELEVATE Phase Ib/II (NCT05563220)	Alpelisib, Everolimus, Abemaciclib	DLT RP2D	mBC, ≥ 1L ET
GIREDESTRANT (GDC-9545)	MORPHEUS Phase Ib/II (NCT04802759)	Abemaciclib, Palbociclib, ribociclib, ipatasertib, inavolisib, everolimus, samuraciclib, atezolizumab, PH FDC SC	ORR	mBC, 2 nd /3 rd line
GIREDESTRANT (GDC-9545)	evERA PhaseIII (NCT053063340)	Combined with everolimus vs everolimus + exemestane	PFS	mBC, 2 nd /3 rd line
CAMIZESTRANT (AZD9833)	SERENA-1 Phase I (NCT4214288)	Abemaciclib, everolimus, capivasertib, anastrozole	DLT	mBC, ≥ 2L ET
IMLUNESTRANT (LY348356)	EMBER-1 Phase I (NCT 4188548)	Alpelisib, abemaciclib, everolimus trastuzumab, trastuzumab- abemaciclib, trastuzumab	DLT	mBC, HER2-positive or negative



Agenda

Module 1: Optimal Integration of CDK4/6 Inhibitors into the Management of ER-Positive mBC — Dr O'Shaughnessy

Module 2: Role of Oral Selective Estrogen Receptor Degraders (SERDs) in the Treatment of ER-Positive mBC — Dr Hamilton

Module 3: Novel Strategies Targeting the PI3K/AKT/mTOR Signaling Pathway in ER-Positive mBC — Dr Kalinsky

Module 4: Current and Future Role of Antibody-Drug Conjugates (ADCs) in the Management of ER-Positive mBC — Dr Rugo

Module 5: Breast Cancer in the Real World

Case Presentation: 58-year-old woman with newly diagnosed ER+, HER2-low (IHC 1+) mBC receives palbociclib/letrozole; NGS: ESR1-RUNX1 fusion and PIK3CA mutations



Dr Susannah Friemel (Bettendorf, Iowa)

Selection and Sequencing of Therapy for Patients with ER-Positive Metastatic Breast Cancer

Kevin Kalinsky, MD, MS

Professor of Medicine

Director, Division of Medical Oncology

Louisa and Rand Glenn Family Chair in Breast Cancer Research Winship Cancer Institute at Emory University

Disclosures

Advisory Committees	AstraZeneca Pharmaceuticals LP, Daiichi Sankyo Inc, Genentech, a member of the Roche Group, Gilead Sciences Inc, Menarini Silicon Biosystems, Merck, Mersana Therapeutics Inc, Myovant Sciences, Puma Biotechnology Inc, Seagen Inc, Takeda Pharmaceuticals USA Inc
Consulting Agreement	Merck
Contracted Research	Ambrx, Ascentage Pharma, AstraZeneca Pharmaceuticals LP, Gilead Sciences Inc, Novartis
Nonrelevant Financial Relationship	ADC Therapeutics (spouse)

Patient Case

- 52 yo postmenopausal F with strongly ER 95%, PR-, HER2 2+ FISH non-amplified disease presents with liver metastases. She is administered ribociclib + letrozole for 6 months and has a mixed response, with 2 small new liver lesions.
- ctDNA demonstrates a *PIK3CA* E542K mutation and *AKT1* E17K mutation.
- What approach would you consider next?

SOLAR-1: ET + Alpelisib in HR+ HER2- MBC

- PI3K: 4 isoforms; PIK3CA encodes α -isoform
- Targeting the PI3K α -isoform may decrease toxicity compared with pan-PI3K
- Alpelisib is an α -specific PI3K inhibitor



SOLAR-1: PFS and OS Results in PIK3CA-mut Cohort





Median PFS 11.0 vs 5.7 months HR 0.65 (0.50–0.85) *P* = 0.00065 Median OS 39.3 vs 31.4 months HR 0.86 (0.64–1.15) P = 0.15

BYLieve: A Phase 2, Open-Label, 3-Cohort, Noncomparative Trial



Goal: In the post-CDKi setting, assess the efficacy and safety of alpelisib + ET (fulvestrant or letrozole) in patients with *PIK3CA*-mutated HR+, HER2– ABC

Men or pre-/postmenopausal^a women with HR+, HER2– ABC with a *PIK3CA* mutation

- Last line of prior therapy: CDKi
 + ET, systemic chemotherapy or ET
- ECOG PS ≤2
- Measurable disease (per RECIST v1.1) or ≥1 predominantly lytic bone lesion

Patients who received CDKi + Al as immediate prior treatment (N=112)^b (Cohort A)

Alpelisib 300 mg oral QD + fulvestrant 500 mgc

Patients who received CDKi + fulvestrant as immediate prior treatment (N=112) (Cohort B)

Alpelisib 300 mg oral QD + letrozole 2.5 mg^d

Patients who progressed on/after AI and received chemotherapy or ET as immediate prior treatment (N=112) (Cohort C)

Alpelisib 300 mg oral QD + fulvestrant 500 mgc

Treatment crossover between cohorts is not permitted

Primary endpoint

- Proportion of patients alive without PD at 6 months (RECIST v1.1) in each cohort
- · Secondary endpoints include

(assessed in each cohort)

- PFS
- PFS2
- ORR, CBR, DOR
- 0S
- Safety

• Rugo HS, et al. Lancet Oncol. 2021;22:489-498; Rugo HS, et al. ASCO 2020. Abstract 1006.

BYLieve Study of Alpelisib After CDK4/6i: Efficacy

	BYLieve Trial ^{a,b}						
Endpoint	Cohort A ^a Prior Al	Cohort B ^b Prior FULV					
Ν	121	115					
Alive, no PD @ 6 mo	50.4% met endpoint	46.1% met endpoint					
Median PFS (mo)	7.3 mo	5.7 mo					
ORR	21.0%	17.8%					
CBR	42.0%	31.7%					



a. Rugo HR, et al. ASCO 2020. Abstract 1040; b. Rugo HR, et al. SABCS 2020. Abstract PD2-07.

Summary of Selected Outcomes: BYLieve And SOLAR-1

	SOLAR-1 Tria	al Prior CDKi ^a	BYLieve Trial ^{b,c}			
Endpoint	FULV + PBO	FULV + Alpelisib	Cohort A ^b	Cohort B ^c		
Ν	11	9	121	115		
Alive, no PD @ 6 mo	≈ 20%	44.4%	50.4%	46.1%		
Median PFS (mo)	1.8 mo	5.5 mo	7.3 mo	5.7 mo		
ORR	NR	NR	21.0%	17.8%		
CBR	NR	NR	42.0%	31.7%		

a. André F, et al. N Engl J Med. 2019;380:1929-1940; b. Rugo HR, et al. ASCO 2020. Abstract 1040; c. Rugo HR, et al. SABCS 2020. Abstract PD2-07.

Phase 3 CAPItello-291: Prior treatments



Turner et al SABCS 2022

Phase 3 CAPItello-291: AKT pathway alterations

Alteration; n (%)	Capivasertib + fulvestrant (N=355)	Placebo + fulvestrant (N=353)
Any AKT pathway alteration	155 (43.7)	134 (38.0)
Any PIK3CA PIK3CA only PIK3CA and AKT1 PIK3CA and PTEN	116 (32.7) 110 (31.0) 2 (0.6) 4 (1.1)	103 (29.2) 92 (26.1) 2 (0.6) 9 (2.5)
AKT1 only	18 (5.1)	15 (4.2)
PTEN only	21 (5.9)	16 (4.5)
Non-altered	200 (56.3)	219 (62.0)
AKT pathway alteration not detected Unknown No sample available Preanalytical failure Post analytical failure	142 (40.0) 58 (16.3) 10 (2.8) 39 (11.0) 9 (2.5)	171 (48.4) 48 (13.6) 4 (1.1) 34 (9.6) 10 (2.8)

AKT pathway alteration status was determined centrally using next-generation sequencing in tumor tissue

Phase 3 CAPItello-291: Dual-primary endpoint: Investigator-assessed PFS in the overall population and AKT pathway-altered population



Overall population

AKT pathway-altered population

13% discontinuation, 20% dose reduction; most common AE: diarrhea , rash, nausea, fatigue Diarrhea grade 3 : 9.3% Rash grade 3 12% Hyperglycemia grade 3 2.3%

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Phase 3 CAPItello-291: Exploratory analysis: Investigator-assessed PFS in the non-altered population (including unknown⁺)



+ indicates a censored observation. [†]Patients with no valid NGS results. HR was estimated using the Cox proportional hazard model stratified by the presence of liver metastases and prior use of CDK4/6 inhibitor.

Excluding unknowns: HR 0.79 (95% CI 0.61, 1.02)

Turner et al SABCS 2022

Adverse Events from Phase III Trials: Inavolisib, Alpelisib, Capivasertib

Patients with key AEs, [†] %	INAV Inavo + P Fulve (N=	O120 ¹ albociclib+ estrant :162)	INAVO Palboo fulves Contro (n =	D120 ¹ Siclib + Strant Di arm 162)	SOLAR-1 ² Alpelisib + fulvestrant (n = 284)		CAPItello-291 ³ Capivasertib + fulvestrant (n = 355)	
	Any grade	Grade ≥3	Any grade	Grade ≥3	Any grade	Grade ≥3	Any grade	Grade ≥3
Hyperglycemia [#]	59	6	9	0	64	33	16	2
Diarrhea	48	4	16	0	58	7	72	9
Rash	25	0	17	0	54	20	38	12
Stomatitis*	51	6	27	0	25	3	15	2
Nausea	28	1	17	0	45	3	35	1
AEs leading to study treatment	7	N/A	1	N/A	25	N/A	13	N/A
discontinuation								

Cross-trial comparisons should be interpreted with caution due to differences in patient populations and AE reporting.

Notes:

†For INAVO120, the key AEs were assessed as a medical concept (grouped terms),

#Eligibility varied widely between trials. For INAVO120, FBG <126 and HGBA1c <6%; For SOLAR-1, HGBA1c < 6.5%; For CAPItello-291, HGBA1c <8%

*For INAVO120, stomatitis grouped term includes mucosal inflammation.

*For SOLAR-1 and CAPItello-291, stomatitis was reported as a single term; for SOLAR-1 mucosal inflammation was 18% for any Grade and 2% for Grade ≥3

1. Jhaveri K, et al. SABCS 2023; 2. André F, et al. N Engl J Med 2019 3. Turner NC, et al. N Engl J Med. 2023

ASCO Recommendations

Clinical Question 1

 What is the role of *PIK3CA* mutation testing to guide the decision to use alpelisib in patients with hormone receptor-positive metastatic breast cancer?

Recommendation 1.1

 Pts with locally recurrent unresectable or metastatic hormone receptor-positive and HER2-negative breast cancer who are candidates for a treatment regimen that includes a PI3K inhibitor and a hormonal therapy, should undergo testing for *PIK3CA* mutations using next-generation sequencing of tumor tissue or ctDNA in plasma.

Evidence-based benefits outweigh harms				
Evidence Quality	Strength of Recommendation			
High	Strong			

If no mutation is found in ctDNA, testing in tumor tissue, if available, should be used as this will detect a small number of additional pts with *PIK3CA* mutations.

INAVO121: Phase III study of inavolisib + fulvestrant vs. alpelisib + fulvestrant in patients with *PIK3CA*mut, HR+, HER2– LA/mBC post-CDK4/6i + ET

- PIK3CAmut, HR+, HER2- LA/mBC
- Prior CDK4/6i + ET
- ≤2 lines of therapy for LA/mBC (≤1 line of chemotherapy for mBC)
- Measurable or evaluable disease
- ECOG PS 0-2



Stratification factors:

- Visceral disease: yes vs. no
- Prior CDK4/6i therapy: adjuvant vs. metastatic setting

Primary endpoint:

PFS (BICR-assessed)

Secondary endpoints:

- OS
- ORR, BoR, CBR, DoR (all BICR-assessed)
- Safety and tolerability
- Patient Reported Outcomes
- PK

https://clinicaltrials.gov/study/NCT05646862 (accessed October 2023); INAVO122: Phase III study of inavolisib + pertuzumab/trastuzumab/hyaluronidase maintenance after 1L induction therapy in patients with *PIK3CAmut*, HER2+ mBC



* Based on investigators' choice as per SoC; [‡] Concomitant ET after chemotherapy induction allowed for patients with HR+ disease per investigators' choice and per SoC (tamoxifen, anastrozole, letrozole, exemestane or fulvestrant ± luteinizing hormone-releasing hormone).

Stratification factors:

• Response to induction (CR/PR vs. SD); HR status; de novo vs. recurrent disease

Primary endpoint:

PFS (investigator-assessed)

Secondary endpoints:

OS, ORR, DoR, CBR, PFS2, PROs, safety, PK

https://www.clinicaltrials.gov/study/NCT05894239 (accessed July 2023);

Phase 3 CAPItello-292 (NCT04862663) Study Overview

R1:1 (N≈628

- Adults ≥18 years of age with metastatic or locally ABC
- Histologically confirmed
 HR-positive/HER2-negative
- Disease relapse while on, or within 12 months of the end of (neo)adjuvant endocrine therapy^a
- No prior endocrine therapy for ABC
- No prior CDK4/6 inhibitor for ABC
- No more than one line of chemotherapy for ABC
- No prior or concurrent treatment with systemic AKT, PI3K, and/or mTOR inhibitors

	Capivasertib	Orally twice daily (4 days on, 3 days off)
,	CDK4/6 inhibitor ^b	Orally once daily (for 21 days of each 28-day cycle)
	Fulvestrant	500 mg IM (every 28 days; loading dose on cycle 1, day 15)
		Orally once daily
	CDK4/6 inhibitor ^b	(for 21 days of each 28-day cycle)
~	Fulvestrant	500 mg IM (every 28 days; loading dose on cycle 1, day 15)

Primary

• **PFS** by BICR

Secondary

- OS
- **PFS** in patients with *PIK3CA*, *AKT1*, and/or *PTEN* alterations in their tumors
- PFS2, ORR, DoR, CBR at 24 weeks
- HRQoL

Safety and tolerability

The inclusion of ribociclib as an investigator's choice of CDK4/6 inhibitor in Phase 3 will be initiated after the combination RP3D has been established in Phase 1b.

Clinical Study Protocol version 5.0

^aPrior treatment with a (neo)adjuvant endocrine therapy (ET; single agent or in combination) and radiologic evidence of breast cancer recurrence or progression while on, or within 12 months of the end of, (neo)adjuvant ET (tamoxifen, AI, or oral SERD); ^bInvestigator's choice of CDK4/6 inhibitor: palbociclib or ribociclib.

HER2-negative is defined as IHC 0, or 1+ or IHC2+/ISH-; ABC, advanced breast cancer; BICR, blinded independent central review; HRQoL, health-related quality of life; RP3D, recommended Phase 3 dose

Progress in Inhibiting PI3K!

PI3Kα is the most important isoform as an oncogenic target

Therapeutic index needs to be improved for better safety, combinability, and efficacy



Agenda

Module 1: Optimal Integration of CDK4/6 Inhibitors into the Management of ER-Positive mBC — Dr O'Shaughnessy

Module 2: Role of Oral Selective Estrogen Receptor Degraders (SERDs) in the Treatment of ER-Positive mBC — Dr Hamilton

Module 3: Novel Strategies Targeting the PI3K/AKT/mTOR Signaling Pathway in ER-Positive mBC — Dr Kalinsky

Module 4: Current and Future Role of Antibody-Drug Conjugates (ADCs) in the Management of ER-Positive mBC — Dr Rugo

Module 5: Breast Cancer in the Real World

Case Presentation: 42-year-old woman with recurrent ER+, HER2-low (IHC 2+, FISH-negative) mBC s/p palbociclib/ letrozole receives olaparib; NGS: PALB2 mutation



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Current and Future Role of Antibody-Drug Conjugates in the Management of HR-Positive mBC

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Disclosures

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Case Presentation

- 61 yo woman with MBC
 - 1995 (age 33): left HR+ stage I, T1C IDC
 - Rx CMF x 8 cycles, RT post lumpectomy and node sampling
 - 1999 Left breast local recurrence
 - Mastectomy: 9/16 nodes positive, HR+
 - Rx: AC/T, tamoxifen x 2 years, AI x 5 years to 2006
 - 2001 BSO, prophylactic right mastectomy
 - 2006 left axillary recurrence in axillary fat, HR+/HER2 1+
 - 2007-2019 exemestane
 - 2/2019 diagnosed with MBC to brachial plexus, nodes, lung and bone
 - Bx CW mass: ER 80%, PR ~30%, HER2 1+ IHC
 - Rx: RT to brachial plexus, 3/2019- 10/2020 fulvestrant and palbociclib
 - 9/2020 PD in bone, lung and soft tissue; Guardant 360: PIK3CA mutation
 - 11/20 12/20 letrozole and alpelisib, allergic reaction to alpelisib
 - 12/20-9/21 exemestane and everolimus complicated by gr 2 pneumonitis in 7/2021 treated with steroids
- 10/21 5/22 Capecitabine with progression in liver (multiple new lesions)
 - 5/24/22 CT guided liver biopsy MBC ER(2-3+, 70%), PR(0), HER2 0
- 7/22 9/22 Tropion Breast01 randomized to SOC chemo: Gemcitabine with response then PD in brachial plexus, liver
- 10/22 T-DXd x one dose: symptomatic pneumonitis developed within 10 days of infusion
 - Treated with steroids with gradual resolution of symptoms and imaging findings over 3 months
- 11/22 5/23 Sacituzumab govitecan
 - PR in liver and all sites of disease; supportive care: G-CSF x 1 on day 3-4 and 10-11 of each cycle; PD after 6
 months in liver

A 62-year-old woman with HER2-low mBC is responding well to T-DXd 5.4 mg/kg but after cycle 3 is found to have asymptomatic, nonspecific bilateral opacities on imaging compatible with ILD. She is started on corticosteroids with resolution on imaging after 6 weeks. What would you recommend?

- a. Switch to another therapy
- b. Observe
- c. Restart T-DXd at the same dose
- d. Restart T-DXd at 4.4 mg/kg
- e. Restart T-DXd at 3.2 mg/kg
- f. I don't know

The Future of ADCs: Different Antibodies, Linkers and Payloads

		ADC Attributes	Trastuzumab emtansine (T-DM1)	Trastuzumab deruxtecan (T-DXd)	Sacituzumab govitecan (SG)	Datopotamab deruxtecan (Dato-DXd)	SKB264	Patritumab deruxtecan (HER3-DXd)	Disitamab vedotin (RC-48)	ARX788
	body	Target	HER2	HER2	TROP2	TROP2	TROP2	HER3	HER2	HER2
	Anti	Antibody	Trastuzumab	Trastuzumab	hRS7 lgG1k	Datopotamab	hRS7 lgG1	Patritumab	Hertuzumab	Trastuzumab
		DAR	~3.5:1	7–8:1	~7.6:1	~4:1	~7.4:1	~8:1	4:1	2:1
	Linker	Linker	Thioether	Tetrapeptide- based	Hydrolysable	Tetrapeptide- based	2- methylsulfonyl pyrimidine	Tetrapeptide- based	Valine- citrulline	Hydroxyl- amine-PEG4
		Cleavable linker?	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		Payload	Emtansine	DXd	SN-38	DXd	KL610023 (T030)	DXd	Monomethyl Auristatin E (MMAE)	Amberstatin (MMAF)
Antibody Drug Conjugate	ayload	Payload MoA	Anti- microtubule	Topo1 inhibitor	Topo1 inhibitor	Topo1 inhibitor	Topo1 inhibitor	Topo1 inhibitor	Anti- microtubule	Anti- microtubule
		Membrane permeable?	Low	Yes	Yes	Yes	Yes	Yes	Yes	No

ADC, antibody-drug conjugate; DAR, drug to antibody ratio; Dato-DXd, datopotamab deruxtecan; HER2/3, human epidermal growth factor receptor 2/3; IgG, immunoglobulin; MMAE, monomethyl auristatin E; MoA, mechanism of action; SG, sacituzumab govitecan; T-DM1, trastuzumab emtansine; T-DXd, trastuzumab deruxtecan; TROP, trophoblast cell surface antigen.

DESTINY-Breast04

Updated OS and Investigator Assessed PFS in HR+/HER2 Low MBC



Time, months

Patients still at risk:

Primary Analysis (BIC



		HR+				
	OS	T-DXd (n=331)	TPC (n=163)			
D)						
R)	Median OS, months	23.9	17.5			
	HR (95% CI); <i>P</i> value	HR 0.64 (0.48-	0.86); 0.0028			



Patients still at risk:



	HR+					
PFS	T-DXd (n=331)	TPC (n=163)				
Median PFS, months	10.1	5.4				
HR (95% CI); <i>P</i> value	0.51 (0.40-	0.64); <0.0001				

Modi S et al. N Engl J Med. 2022;387(1):9-20. Modi S. 2023 ESMO Congress. Abstract 376O.

Subgroup analyses: OS in the HR+ Cohort

OS in all Patients

	No. of Events/No. of Patients		OS, median (95% CI), mo		Hazard Batic for Death (05% CI)			No. of Events/No. of Patients		OS, median (95% CI), mo			
	T-DXd	TPC	T-DXd	TPC	Hazard Ratio for Death (95% CI)			T-DXd TPC		T-DXd TPC		Hazard Ratio for Death (95% CI)	
Prior CDK4/6 inhibitors							Prior CDK4/6 inhibitors	1 BAG	110	T BAG			
Yes	156/233	78/115	22.3 (19.8-24.3)	16.8 (13.6-19.5)	I	0.71 (0.54-0.94)	Ves	158/235	81/118	22 3 (19 7-24 2)	16 7 (14 0-19 4)		0 71 (0 54-0 92)
No	53/96	31/47	30.3 (23.0-35.1)	22.4 (15.6-27.2)	⊢	0.63 (0.41-0.99)	No	55/98	32/48	29.6 (22.9-35.1)	22 4 (15 6-27 2)	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	0.64 (0.41-0.99)
IHC status							IHC status	00,00	02.10	20.0 (22.0 00.1)	LL. ((10:0 L7:L)	•	0.01 (0.11 0.00)
IHC 1+	121/192	67/96	22.9 (20.8-25.2)	16.9 (13.5-22.4)		0.67 (0.50-0.91)	IHC 1+	137/214	77/107	22.7 (20.3-24.7)	15.7 (13.5-19.9)	—	0.65 (0.49-0.86)
IHC 2+/ISH-	90/139	43/67	24.2 (20.8-26.5)	19.1 (15.1-22.3)		0.73 (0.51-1.05)	IHC 2+/ISH-	105/159	51/77	23.6 (20.0-26.0)	17.1 (13.1-21.7)	⊢	0.72 (0.51-1.01)
Prior lines of chemotherapy							Prior lines of chemotherapy						. (,
1	118/203	63/93	25.5 (23.9-28.8)	19.4 (16.7-23.9)		0.66 (0.48-0.89)	1	129/221	69/100	25.5 (23.4-28.9)	18.2 (15.6-22.5)	⊢♦ −− 1	0.62 (0.46-0.83)
≥2	93/127	47/69	19.0 (16.7-22.7)	14.0 (10.8-20.0)		0.76 (0.53-1.08)	≥2	113/151	59/83	18.1 (16.1-21.5)	14.0 (10.8-19.1)	⊢_ ♦I	0.78 (0.57-1.07)
Age							Age						
<65 years	164/260	81/120	23.0 (20.8-24.8)	17.6 (14.8-20.0)		0.67 (0.52-0.88)	<65 years	185/290	95/136	22.7 (20.3-24.4)	16.7 (14.0-19.1)	H	0.64 (0.50-0.82)
≥65 years	47/71	29/43	25.5 (21.0-28.8)	19.5 (9.2-30.6)		0.72 (0.45-1.15)	≥65 years	57/83	33/48	24.4 (18.4-28.0)	19.5 (11.1-30.2)	⊢	0.77 (0.50-1.19)
Race						/	Race						
White	104/156	51/78	23.9 (19.8-24.8)	15.1 (12.3-19.9)		0.65 (0.47-0.91)	White	123/176	62/91	22.0 (18.2-24.2)	14.5 (10.7-19.4)		0.68 (0.50-0.93)
Asian	80/131	46/66	23.9 (21.7-28.7)	19.9 (16.7-27.2)		0.75 (0.52-1.07)	Asian	90/151	51/72	25.2 (21.7-29.6)	19.1 (15.7-24.3)		0.68 (0.48-0.96)
Other	25/37	12/16	21.5 (15.0-30.4)	15.2 (6.2-23.9)		0.56 (0.28-1.12)	Other	26/38	13/17	21.2 (17.0-28.9)	15.2 (6.2-23.9)		0.55 (0.28-1.07)
Region		10/00					Region						
Asia	80/128	42/60	23.4 (21.0-27.4)	19.9 (16.7-27.2)	· · · ·	0.76 (0.53-1.11)	Asia	90/147	47/66	24.0 (21.7-29.3)	19.1 (15.7-24.3)		0.69 (0.49-0.98)
Europe and Israel	102/149	49/73	23.9 (20.8-25.7)	17.6 (12.3-20.2)		0.66 (0.47-0.93)	Europe and Israel	118/166	59/85	22.3 (19.0-24.2)	14.8 (10.7-19.9)		0.67 (0.49-0.91)
North America	29/54	19/30	24.5 (15.8-28.9)	16.0 (8.8-22.3)	•	0.59 (0.33-1.06)	North America	34/60	22/33	20.6 (13.6-25.9)	14.9 (10.5-19.5)	• •	0.66 (0.38-1.13)
ECOG performance status	100/107	50/05		00 0 (10 7 01 1)	⊢	0.00 (0.40.0.00)	ECOG performance status		00//05				
0	109/187	59/95	26.0 (23.0-29.6)	20.2 (16.7-24.4)	⊢	0.68 (0.49-0.93)	0	117/200	68/105	25.9 (23.0-29.3)	19.4 (15.1-22.8)	· · · · · · · · · · · · · · · · · · ·	0.62 (0.46-0.83)
1	102/44	51/68	21.4 (17.9-23.9)	14.9 (12.6-18.4)	• •	0.70 (0.50-0.99)	1	125/173	60/79	20.6 (17.2-22.7)	14.5 (12.3-18.4)	•	0.74 (0.54-1.01)
Visceral disease at baseline	001/000	00/140	00.0 (01.4.04.5)	17 5 (14 0 00 0)		0 70 (0 57 0 00)	Visceral disease at baseline	007/000	100/157	00 4 (00 0 04 0)	10.0.(14.0.00.0)		0.71 (0.57.0.00)
res	201/298	99/146	22.9 (21.4-24.5)	17.5 (14.8-20.2)		0.73 (0.57-0.93)	res	227/332	109/15/	22.4 (20.0-24.0)	16.9 (14.0-20.0)	—	0.71 (0.57-0.90)
INO	10/33	11/17	NE (20.4-NE)	18.4 (13.5-INE)		0.34 (0.14-0.81)	INU	13/41	19/27	INE (28.0-INE)	15.7 (12.9-20.6)		0.35 (0.18-0.70)

0.00 0.25 0.50 0.75 1.00 1.25 1.50 1.75 2.00

0.00 0.25 0.50 0.75 1.00 1.25 1.50 1.75 2.00

Adverse Events

73	5 0	24		Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any Grade
IE ^a 52 8 5 44 ILD/pneumonitis (adjudicated, drug-related), n (%)									
42	4 11	40	T-DXd (n = 371)	13 (3.5)	24 (6.5)	4 (1.1)ª	0	4 (1.1) ^a	45 (12.1)
38	q	33	TPC (n = 172)	1 (0.6)	0	0	0	0	1 (0.6)
35	14	42 53	Left ventricular dysfunction	n					
34	9 5	24	Ejection fraction decrease	ed, n (%)					
34	1 0 10		T-DXd (n = 371)	2 (0.5)	15 (4.0)	1 (0.3)	0	0	18 (4.9)
29	2 1 16	5	TPC (n = 172)	0	0	0	0	0	0
T-DXd, any grade	5 619		Cardiac failure, n (%)						
■ T-DXd, grade ≥3	4 7 *	19 31	T-DXd (n = 371)	0	1 (0.3)	1 (0.3)	0	0	2 (0.5)
■ TPC, grade ≥3	22 1 2 1	8	TPC (n = 172)	0	0	0	0	0	0
TPC, any grade	22 0 13		For T-DXd: 10.2% discontinued for II D/pneumor						
	52 42 38 35 34 34 29 T-DXd, any grade T-DXd, grade ≥3 TPC, grade ≥3 TPC, any grade	73 5 0 52 8 5 42 4 11 38 0 35 14 34 9 5 34 9 5 34 1 0 29 2 1 16 T-DXd, any grade 25 6 1 9 TPC, grade ≥3 22 1 2 1 TPC, any grade 22 0 13	73 5 0 24 52 8 5 44 42 4 11 40 38 0 33 35 14 42 53 34 9 5 24 34 9 5 24 34 1 0 10 29 2 1 16 T-DXd, any grade 25 6 1 9 TPC, grade ≥3 22 1 2 18 TPC, any grade 22 0 13	73 50 24 52 8 5 44 42 4 11 40 38 0 33 7DX (n = 371) 35 14 42 53 34 9 5 24 34 9 5 24 34 9 5 24 34 9 5 24 34 9 5 24 50 21 16 Ejection fraction decrease T-DXd (n = 371) TPC (n = 172) Cardiac failure, n (%) T-DXd, grade ≥ 3 22 1 19 31 T-DXd (n = 371) TPC, grade ≥ 3 22 1 2 18 TPC (n = 172) Cardiac failure, n (%) T-DXd (n = 371) TPC (n = 172) Epsted (n = 172) TPC, grade ≥ 3 22 13 TPC (n = 172) Epsted (n = 172)	73 50 24 Grade 1 52 8 5 44 42 4 11 40 38 0 33 35 14 42 53 34 9 5 24 52 6 19 T-DXd (n = 371) 13 (3.5) T-DXd, any grade 25 6 19 T-DXd (n = 371) 2 (0.5) TPC (n = 172) 0 0 Cardiac failure, n (%) T-DXd (n = 371) 0 T-DXd, grade ≥3 24 7 19 31 T-DXd (n = 371) 0 TPC, grade ≥3 22 1 18 T-DXd (n = 371) 0 T-DXd (n = 371) 0 TPC, any grade 22 1 18 T-DXd (n = 371) 0 T-DXd (n = 371) 0 TPC, any grade 22 1 18 T-DXd (n = 172) 0 T-DXd (n = 172) 0	73 5 0 24 Grade 1 Grade 2 52 8 5 44 4 1 40 1 13 (3.5) 24 (6.5) 42 4 1 40 33 5 14 42 53 35 14 42 53 10 13 (3.5) 24 (6.5) 17C (n = 371) 13 (3.5) 24 (6.5) 34 9 5 24 53 100 0 0 0 29 2 1 16 7 19 31 7 19 31 7 19 31 7 19 31 7 19 31 7 19 31 7 19 31 7 19 31 7 19 31 7 19 31 7 19 31 7 19 31 7 10 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 0 0 0 </td <td>73 5 0 24 Grade 1 Grade 2 Grade 3 52 8 5 44 44 1 40 1 13 (3.5) 24 (6.5) 4 (1.1)^a 42 4 11 40 36 0 33 13 (3.5) 24 (6.5) 4 (1.1)^a 36 0 33 35 14 42 53 10.6) 0 0 35 14 42 53 Ejection fraction decreased, n (%) T-DXd (n = 371) 2 (0.5) 15 (4.0) 1 (0.3) 34 9 5 24 7 19 31 TPC (n = 172) 0 0 0 29 2 1 16 T-DXd (n = 371) 2 (0.5) 15 (4.0) 1 (0.3) TPC (n = 172) 0 0 0 0 T-DXd, grade ≥3 22 1 2 1 1 3 1 (0.3) 1 (0.3) 1 (0.3) 1 (0.3) TPC, grade ≥3 22 1 2 13 TPC (n = 172) 0 0 0 0 0 <t< td=""><td>73 5 24 Grade 1 Grade 2 Grade 3 Grade 4 52 8 5 44 1 40 1 13 (3.5) 24 (6.5) 4 (1.1)^a 0 38 0 33 14 42 53 14 42 53 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>73 5 0 24 Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 52 8 5 44 1 40 1 10 13 (3.5) 24 (6.5) 4 (1.1)^a 0 4 (1.1)^a 38 0 33 35 14 42 53 10.6) 0 0 0 0 34 9 5 24 7 19 31 7DX (n = 371) 2 (0.5) 15 (4.0) 1 (0.3) 0 0 29 2 1.16 Cardiac failure, n (%) T-DXd (n = 371) 2 (0.5) 15 (4.0) 1 (0.3) 0 0 7-DXd, grade ≥3 22 1 21 1 1 0 1 (0.3) 0 0 0 7PC, grade ≥3 7 19 31 7 19 31 7 10 1 (0.3) 1 (0.3) 0 0 7PC, grade ≥3 7 19 31 7 17 0 1 (0.3) 1 (0.3) 0 0 7PC, n = 172) 0 0<!--</td--></td></t<></td>	73 5 0 24 Grade 1 Grade 2 Grade 3 52 8 5 44 44 1 40 1 13 (3.5) 24 (6.5) 4 (1.1) ^a 42 4 11 40 36 0 33 13 (3.5) 24 (6.5) 4 (1.1) ^a 36 0 33 35 14 42 53 10.6) 0 0 35 14 42 53 Ejection fraction decreased, n (%) T-DXd (n = 371) 2 (0.5) 15 (4.0) 1 (0.3) 34 9 5 24 7 19 31 TPC (n = 172) 0 0 0 29 2 1 16 T-DXd (n = 371) 2 (0.5) 15 (4.0) 1 (0.3) TPC (n = 172) 0 0 0 0 T-DXd, grade ≥3 22 1 2 1 1 3 1 (0.3) 1 (0.3) 1 (0.3) 1 (0.3) TPC, grade ≥3 22 1 2 13 TPC (n = 172) 0 0 0 0 0 <t< td=""><td>73 5 24 Grade 1 Grade 2 Grade 3 Grade 4 52 8 5 44 1 40 1 13 (3.5) 24 (6.5) 4 (1.1)^a 0 38 0 33 14 42 53 14 42 53 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>73 5 0 24 Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 52 8 5 44 1 40 1 10 13 (3.5) 24 (6.5) 4 (1.1)^a 0 4 (1.1)^a 38 0 33 35 14 42 53 10.6) 0 0 0 0 34 9 5 24 7 19 31 7DX (n = 371) 2 (0.5) 15 (4.0) 1 (0.3) 0 0 29 2 1.16 Cardiac failure, n (%) T-DXd (n = 371) 2 (0.5) 15 (4.0) 1 (0.3) 0 0 7-DXd, grade ≥3 22 1 21 1 1 0 1 (0.3) 0 0 0 7PC, grade ≥3 7 19 31 7 19 31 7 10 1 (0.3) 1 (0.3) 0 0 7PC, grade ≥3 7 19 31 7 17 0 1 (0.3) 1 (0.3) 0 0 7PC, n = 172) 0 0<!--</td--></td></t<>	73 5 24 Grade 1 Grade 2 Grade 3 Grade 4 52 8 5 44 1 40 1 13 (3.5) 24 (6.5) 4 (1.1) ^a 0 38 0 33 14 42 53 14 42 53 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	73 5 0 24 Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 52 8 5 44 1 40 1 10 13 (3.5) 24 (6.5) 4 (1.1) ^a 0 4 (1.1) ^a 38 0 33 35 14 42 53 10.6) 0 0 0 0 34 9 5 24 7 19 31 7DX (n = 371) 2 (0.5) 15 (4.0) 1 (0.3) 0 0 29 2 1.16 Cardiac failure, n (%) T-DXd (n = 371) 2 (0.5) 15 (4.0) 1 (0.3) 0 0 7-DXd, grade ≥3 22 1 21 1 1 0 1 (0.3) 0 0 0 7PC, grade ≥3 7 19 31 7 19 31 7 10 1 (0.3) 1 (0.3) 0 0 7PC, grade ≥3 7 19 31 7 17 0 1 (0.3) 1 (0.3) 0 0 7PC, n = 172) 0 0 </td

Percent of Patients Experiencing Drug-Related TEAE

4.6% dose reduced for N/V

Modi S et al. N Engl J Med. 2022;387(1):9-20. Modi S. 2023 ESMO Congress. Abstract 3760.

Pooled Analysis of ILD/Pneumonitis in 9 Trastuzumab Deruxtecan Monotherapy Studies



- 1150 pts (44.3% breast cancer) with a median treatment duration 5.8 mo (0.7-56.3)
- Overall incidence: 15.4% (grade 5: 2.2%); grade 1-2: 77.4%
- 87% had their first event within 12 months of their first dose

Powell CA et al. ESMO Open. 2022;7(4):100554.
Testing Trastuzumab Deruxtecan in HER2 'Ultralow' DESTINY-Breast06

Key differences with DB-04:

 Includes IHC0 (ultralow, n=150)

HR+

• HER2 IHC 2+ v. 1+ v. 0+

setting

· Prior taxane in non-metastatic

- Larger (n=850)
- Restricted to HR+ disease
- Chemo-naïve patients

Status: Completed accrual



- Chemotherapy options: capecitabine, paclitaxel, nAb-paclitaxel .
- Treatment continues until progressive disease or toxicity
- HER2 IHC 0+ defined by any IHC staining up to 10% of tumor cells
- Futility analysis in HER2 IHC 0+ cohort will be done

ENDPOINTS

Primary:

 PFS (BICR) in HER2 IHC 1+/2+ population

Key Secondary:

- OS in HER2 IHC 1+/2+ population
- PFS in ITT population
- OS in ITT population

Secondary:

- PFS (investigator assessed) in HER2 IHC 1+/2+
- ORR and DOR of HER2 IHC 1+/2+ and ITT populations
- Safety and tolerability
- Symptoms, functioning and HRQoL

Exploratory:

- PRO
- Pharmacodynamic biomarkers

TROPICS-02 for HR+/HER2- Disease: PFS & OS in the ITT Population



SG demonstrated a statistically significant improvement in PFS and OS vs TPC

Median follow-up was 10.2 months.

BICR, blinded independent central review; ITT, intent-to-treat; OS, overall survival; PFS, progression-free survival; SG, sacituzumab govitecan; TPC, treatment of physician's choice.

1. Rugo HS, et al. *J Clin Oncol.* 2022;40:3365-3376. Adapted from Rugo HS, et al. Sacituzumab govitecan in hormone receptor-positive/human epidermal growth factor receptor 2-negative metastatic breast cancer. *J Clin Oncol.* 2022. doi: 10.1200/JCO.22.01002. Reprinted with permission from American Society of Clinical Oncology. 2. Rugo H, et al. ESMO 2022. Oral LBA76. 3. Tolaney et al, ASCO 2023. Abstract 1003; Rugo et al, Lancet 2023

Tolaney SM et al. ASCO 2023; Abstract 1003. No new toxicity signals compared to ASCENT

TROPiCS-02: Responses and Safety Summary

Tumor response



Median DoR, months (95% Cl): 8.1 (6.7-8.9) vs 5.6 (3.8-7.9)

Safety summary

	-				
n (%)		S	G	TP	C
		(n=268)		(n=249)	
AE Grade ≥3		199 (74)		149 (60)	
AEs \rightarrow discontinuation		17 (6)		11 (4)	
AEs \rightarrow dose del	ау	178 (66)		109 (44)	
AEs \rightarrow dose red	uctions	91 (34)		82 (33)	
SAEs		74 (28)		48 (19)	
AEs \rightarrow death ^a		6 (2)		0	
		Any grade	Grade ≥3	Any grade	Grade ≥3
Hematologic	Neutropenia	189 (71)	140 (52)	136 (55)	97 (39)
	Anemia	98 (37)	20 (7)	69 (28)	8 (3)
	Thrombocytopenia	17 (6)	1 (<1)	41 (16)	9 (4)
GI	Diarrhea	166 (62)	27 (10)	57 (23)	3 (1)
	Nausea	157 (59)	3 (1)	87 (35)	7 (3)
	Constipation	93 (35)	1 (<1)	61 (24)	0
	Vomiting	64 (24)	3 (1)	39 (16)	4 (2)
	Abdominal pain	53 (20)	10 (4)	34 (14)	2 (1)
Other	Alopecia	128 (48)	0	46 (18)	0
	Fatigue	105 (39)	16 (6)	82 (33)	9 (4)
	Asthenia	62 (23)	6 (2)	50 (20)	5 (2)
	Decreased appetite	57 (21)	4 (1)	52 (21)	2 (1)
	Dyspnea	49 (18)	5 (2)	39 (16)	11 (4)
	Headache	44 (16)	1 (<1)	36 (14)	2 (1)
	Pyrexia	39 (15)	2 (1)	45 (18)	0
	AST increased	33 (12)	4 (1)	44 (18)	8 (3)

^aOf 6 AEs leading to death, 1 (septic shock due to neutropenic colitis) was considered treatment related by investigator

Rugo HS et al. J Clin Oncol. 2022;40(29):3365-3376. Rugo HS et al. 2022 ESMO Congress. Abstract 1553O. Rugo HS et al. 2022 SABCS. Abstract GS1-11. Tolaney et al. 2023 ASCO Annual Meeting. Abstract 1003. Rugo HS et al. Lancet. 2023;402(10411):1423-1433.

Ongoing Trials of Sacituzumab in HR+ BC

GBG: SASCIA Post-Neoadjuvant Trial NCT04595565



ASCENT-07 (NCT05840211): SG vs First-line Chemotherapy in HR+ mBC

SACI-IO TNBC (NCT04468061) and HR+ (NCT04448886): SG ± pembrolizumab in 1L PD-L1- mTNBC and HR+ mBC Key eligibility criteria: Primary Endpoint •HR+/HER2* negative, locally PIs: Garrido-Castro/Tolaney advanced and unresectable, or PFS by BICR metastatic breast cancer mTNBC Sacituzumab govitecan • Eligible for first chemotherapy for **Key Secondary Endpoints** 10 mg/kg IV advanced mBC No prior chemo • OS Days 1 and 8, every 21 days No prior PD-1/L1 Progressed after 1 or more ET for N = 654 ORR by BICR • PD-L1 <1% by SP-142 Sacituzumab govitecan mBC, or relapsed within 12 months of TTDD to Physical functioning 2:1 ER <5% N=110 10 mg/kg IV d1, 8 q21 days completing adjuvant ET or while Endpoints PR ≤5% randomizatio receiving adjuvant ET Primary HER2-Secondary Endpoints pembrolizumab PFS No prior treatment with a Stable brain mets 200 mg/kg d1 q21 days PFS by investigator Stratification: Secondary topoisomerase I inhibitor • Exclude prior: PD-Duration of prior CDK 4/6i in metastatic setting (none/≤12 mos vs ORR by investigator 1:1 OS. ORR ٠ 1/L1, SG, Irinotecan Measurable disease per RECIST >12 mos) Duration and time to DOR HER2 IHC (HER2 IHC 0 vs HER2 IHC-low ([IHC 1+; 2+/ISH-]) v1.1 • objective response, time Safety Sacituzumab govitecan Geographic region (US/CAN/EU vs. ROW) • to progression, CBR Prior CDK 4/6i not required (no prior mHR+/HER2-10 mg/kg d1,8 g21 days Safety and tolerability CDK 4/6i capped at 30%) >1 Hormonal N=110

80% power to detect PFS improvement from 5.5 months (Arm B) to 8.5 months (Arm A)

0-1 Prior Chemo

SG, Irinotecan

Exclude prior: PD-1/L1,

Datopotamab Deruxtecan in TROPION-Breast01: PFS and Time to Subsequent Therapy

PFS by investigator assessment

Time to first subsequent therapy



PFS by BICR (primary endpoint)

- Median 6.9 vs 4.9 months
- HR 0.63 (95% CI: 0.52, 0)

Bardia A et al. 2023 SABCS. Abstract GS02-01.

TROPION-Breast01: Safety

Overall safety summary

TRAEs, n (%) ¹	Dato-DXd (n=360)	ICC (n=351)
All grades	337 (94)	303 (86)
Grade ≥3	75 (21)	157 (45)
Associated with dose reduction	75 (21)	106 (30)
Associated with dose interruption	43 (12)	86 (25)
Associated with discontinuation	9 (3)	9 (3)
Associated with death	0	1 (0.3)
Serious TRAEs	21 (6)	32 (9)
Grade ≥3	17 (5)	31 (8)

AEs of clinical interest

Neutropenia*	Dato-DXd (n=360)	ICC (n=351)
Treatment-related neutropenia	*, n (%)	
Any grade	39 <mark>(1</mark> 1)	149 (42)
Grade ≥3	4 (1)	108 (31)
Leading to dose interruption	0	60 (17)
Leading to dose reduction	1 (0.3)	45 (13)
Leading to dose discontinuation	0	1 (0.3)
G-CSF usage, n (%)		
On treatment	10 (3)	81 (22)
Post-treatment ⁺	1 (0.3)	30 (8)

TTD global health status/quality of life, physical functioning and pain

	Median TTD, months (1 st instance)			Median TTD, months (confirmed)		
TTD	Dato-DXd	ICC	HR (95% CI)	Data DXd	ICC	HR (95% CI)
GHS/QOL	3.4	2.1	0.85 (0.68-1.06)	9.0	4.8	0.76 (0.58-0.98)
Physical functioning	5.6	3.5	0.77 (0.61-0.99)	12.5	6.2	0.77 (0.59-1.01)
Pain	3.5	2.8	0.85 (0.68-1.07)	9.0	5.5	0.72 (0.55-0.94)

GHS/QOL, global health status/quality of life; TTD, time to deterioration.

Bardia A et al. 2023 SABCS. Abstract GS02-01.

Stomatitis [‡]	Dato-DXd (n=360)	ICC (n=351)
Treatment-related stomatitis‡, r	ו (%)	
Any grade	180 (50)	46 (13)
Grade 3	23 (6)	9 (3)
Leading to dose interruption	5 (1)	3 (1)
Leading to dose reduction	44 (12)	5 (1)
Leading to dose discontinuation	1 (0.3)	0

- Clear efficacy as second line chemotherapy for HR+ MBC
- Primary toxicity stomatitis can likely be managed in most with steroid MW, low heme toxicity
- Await OS data

Dato-DXd: Ongoing Neoadjuvant Trials for HR+/HER2- Stage II/III Breast Cancer

TROPION Breast04 Phase III trial (NCT06112379)

- TNBC and ER low (< 10%) disease
- Dato-DXd + durvalumab x 8 cycles followed by surgery; durva x 9 cycles postop vs KN522
 - N=1728; accruing
- I-SPY 2.2 Multi-arm Phase II trial (NCT01042379)
- MMP high risk HR+ and TNBC
- Dato-DXd ± durvalumab
 - Completed accrual

Patritumab Deruxtecan: Phase 2 Study of HER3-DXd in MBC

- 60 pts:
 - HR+: Prior CDKi, 0-2 chemo
 - TN: 1-3 chemo
 - 29 HR+/19 TN (n=48)
 - 64% HER3 <a>25%; 8% <25% (n=47)
- ORR 35%, CBR 43%,
 - No relationship to HER3 expression
- DOR <u>></u> 6mo: 47.6% in responders (n=10)
- Most common AE:
 - Nausea/diarrhea/fatigue
 - TEAE: 2 ILD, 1 low plt

	Any grade (N=60) n (%)	Grade 3/4 (N=60) n (%)
Any Adverse Event (AE)	56 (93.3)	19 (31.7)
Nausea	30 (50.0)	2 (3.3)
Fatigue	27 (45.0)	4 (6.7)
Diarrhea	22 (36.7)	3 (5.0)
Vomiting	19 (31.7)	1 (1.7)
Anemia	18 (30.0)	0
Alopecia	17 (28.3)	N/A
Hypokalemia	9 (15.0)	1 (1.7)
Decreased Appetite	8 (13.3)	0
Neutrophil Count Decreased**	7 (11.7)	3 (5.0)
White Blood Cell Count Decreased**	7 (11.7)	1 (1.7)



	(N=60) n (%)
Number of Prior Systemic Regimens in Metastatic Setting	
1-2 prior regimens	24 (40.0)
3 or more prior regimens	36 (60.0)
Median (range)	3 (1, 9)
Type of Prior Regimens in the Metastatic	
Setting*	
Chemotherapy	54 (90.0)
PARP inhibitors	3 (5.0)
Immunotherapy	12 (20.0)
Sacituzumab govitecan	5 (8.3)

	HR+	TNBC
	(N=29)	(N=19)
ORR, n (%)	12 (41.4)	4 (21.1)
95% CI	(23.5, 61.1)	(6.1, 45.6)



Hamilton EP et al. 2023 ASCO Annual Meeting. Abstract 1004.

Examples: New ADCs in Early Phase Trials

- BB-1701
 - Trastuzumab linked to eribulin (DAR4) with phase 1 efficacy in HER2 low
- SKB264 (MK-2870)
 - TROP2 ADC with novel TOPO1 inhibitor (belotecan derivative); DAR 7.4
 - Phase 3 studies planned in first line HR+, post neoadjuvant
- BL-B01D1
 - EGFR/HER3 bispecific ADC with TOPO1 payload
- AZD-8205
 - B7-H4 TOPO1 ADC
- BCD-1001
 - Trastuzumab linked to TLR 7/8 agonist
- XMT-2056
 - Novel HER2 antibody linked to Sting agonist
 - Can be combined with existing HER2 ADCs as binds to a different epitope



Munster P et al. 2023 SABCS. RF02-05. Yin Y et al. 2023 SABCS. PS08-08. Wu J et al 2023 SABCS. PS08-07. Wu J et al. 2023 ESMO Congress. Abstract 3810.

Next Steps

- Combination therapies
 - ADCs plus checkpoint inhibitors or other immune agonists to enhance dual efficacy
 - ADCs plus anti-CD47 antibodies (?)
- Understanding mechanisms of resistance
- Sequencing ADCs
 - Change the payload
 - Change the target
 - Why is safety so different?

TBCRC 047: InCITe Trial Design



HR+/HER2-Low Efficacy Data (n=56)

SG → T-DXd (n=24, 42.9%)	 Median lines of therapy for Median lines chem Median total lines of Intervening therapies betw 	or MBC prio otherapy: 2 of therapy: 3 ween ADCs	r to <mark>SG</mark> : 2.0 (range 0-5) 3.0 (range 0-9) : 47.8%	rwPFS ADC1 (SG) ADC2 (T-DXd) 23 - Still on Therapy	
		ADC1 (SG)	ADC2 (T-DXd)	21 - × Censored (toxicity) 19 - 5 17 - 17 - 21 - × Censored (toxicity)	
	ORR (CR+PR) by investigator assessment, %	77.3%	34.8%	<u>d</u> 15 - <u>i</u> <u>i</u> <u>i</u> <u>i</u> <u>i</u> <u>i</u> <u>i</u> <u>i</u>	0 10 20 30 40 50 Time(months) from ADC1 start
	CBR (CR + PR + SD) by investigator assessment, %	86.4%	60.9%	₩ 9- 7- 5-	
	Median rwPFS, months	<mark>8.</mark> 0	3.7	3-	
	Median rwOS from time of each ADC start, months	22.8	7.8	20 10 0 10 20 Time on treatment (months)	5 0 10 20 30 40 50 Time (months) from ADC2 start
T-DXd → SG (n=32, 57.1%)	 Median lines of therapy for Median lines chem Median total lines Intervening therapies bet 	or MBC pric notherapy: of therapy: ween ADCs	or to T-DXd: 2.0 (range 0-5) 4.5 (range 2-10) s: 42.4%	rwPFS ADC1 (T-DXd) ADC2 (SG) 31 - 29 - Still on Therapy × Censored (toxicity)	rwOS ADC1 (T-DXd)
T-DXd → SG (n=32, 57.1%)	 Median lines of therapy for Median lines chem Median total lines Intervening therapies bet 	or MBC pric notherapy: 2 of therapy: ween ADCs ADC1 (T-DXd)	or to T-DXd: 2.0 (range 0-5) 4.5 (range 2-10) 5: 42.4% ADC2 (SG)	PFS ADC1 (T-DXd) ADC2 (SG) ADC1 (T-DXd) × Still on Therapy Still on Therapy Censored (taxibity)	rwOS
T-DXd → SG (n=32, 57.1%)	 Median lines of therapy for Median lines chem Median total lines Intervening therapies bet ORR (CR+PR) by investigator assessment, % 	or MBC pric notherapy: 2 of therapy: ween ADCs ADC1 (T-DXd) 46.9%	or to T-DXd: 2.0 (range 0-5) 4.5 (range 2-10) 5: 42.4% ADC2 (SG) 18.5%	studien the second state of the second state o	rwOS
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TBCRC 064: TReatment of ADC-Refractory Breast CancEr with Dato-DXd or T-DXd (TRADE DXd) Pl: Ana Garrido-Castro



Roadmap for the Future? HR+/HER2- Breast Cancer



Optimize therapy in the neoadjuvant setting based on response



Conclusion

- Antibody-Drug Conjugates!
 - An exciting and effective drug delivery system for the treatment of multiple subtypes of MBC
- Established role in HER2 low and HR+ disease
 - T-DXd is a new standard of care of HER2 'low' disease
 - Sacituzumab is a treatment option for pre-treated HR+ disease
- Ongoing trials in earlier lines, early-stage disease, and new ADCs in phase 3 trials
- Multiple new ADCs on the horizon
- Many questions remain!
 - Being able to identify mechanisms of resistance will be critical for optimal sequencing
 - Toxicity management is critical

Agenda

Module 1: Optimal Integration of CDK4/6 Inhibitors into the Management of ER-Positive mBC — Dr O'Shaughnessy

Module 2: Role of Oral Selective Estrogen Receptor Degraders (SERDs) in the Treatment of ER-Positive mBC — Dr Hamilton

Module 3: Novel Strategies Targeting the PI3K/AKT/mTOR Signaling Pathway in ER-Positive mBC — Dr Kalinsky

Module 4: Current and Future Role of Antibody-Drug Conjugates (ADCs) in the Management of ER-Positive mBC — Dr Rugo

Module 5: Breast Cancer in the Real World









Managing anxiety and stress with cancer diagnosis and pregnancy; balancing professional work and cancer treatments



Importance of self-advocating in medical treatment



Communicating with minor children about a parent's cancer diagnosis and treatment



Perspectives on her oncology team



Effects of a cancer diagnosis on marriage













The Annual National General Medical Oncology Summit

A Multitumor CME/MOC-, ACPE- and NCPD-Accredited Educational Conference Developed in Partnership with Florida Cancer Specialists & Research Institute

Friday, March 22, 2024

Moderator Neil Love, MD

Faculty

Erika Hamilton, MD Kevin Kalinsky, MD, MS Joyce O'Shaughnessy, MD Hope S Rugo, MD Thank you for joining us! Your feedback is very important to us.

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