

Clinical Trials 2023: Update and Highlights

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Mersana, BMS

Travel/accommodations/expenses: Merck, Seagen, AstraZeneca, Genmab, GSK, Aravive, Novocure, Alkermes, Genentech/Roche, Karyopharm, SutroBio, Immunogen, Mersana, BMS

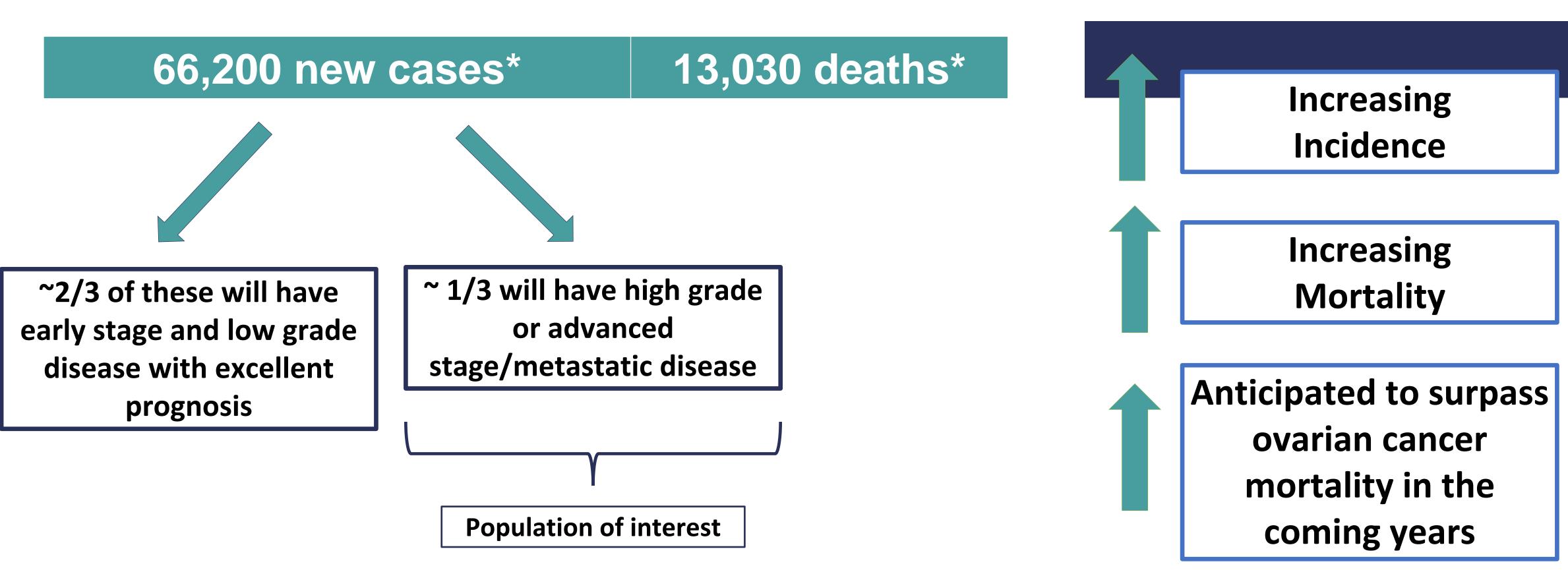
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Disclosures

<u>Consulting/advisory role</u>: Merck, Seagen, AstraZeneca, Genmab, GSK, Aravive, Novocure, Alkermes, Genentech/Roche, Karyopharm, SutroBio, Immunogen,



Endometrial Cancer 2023

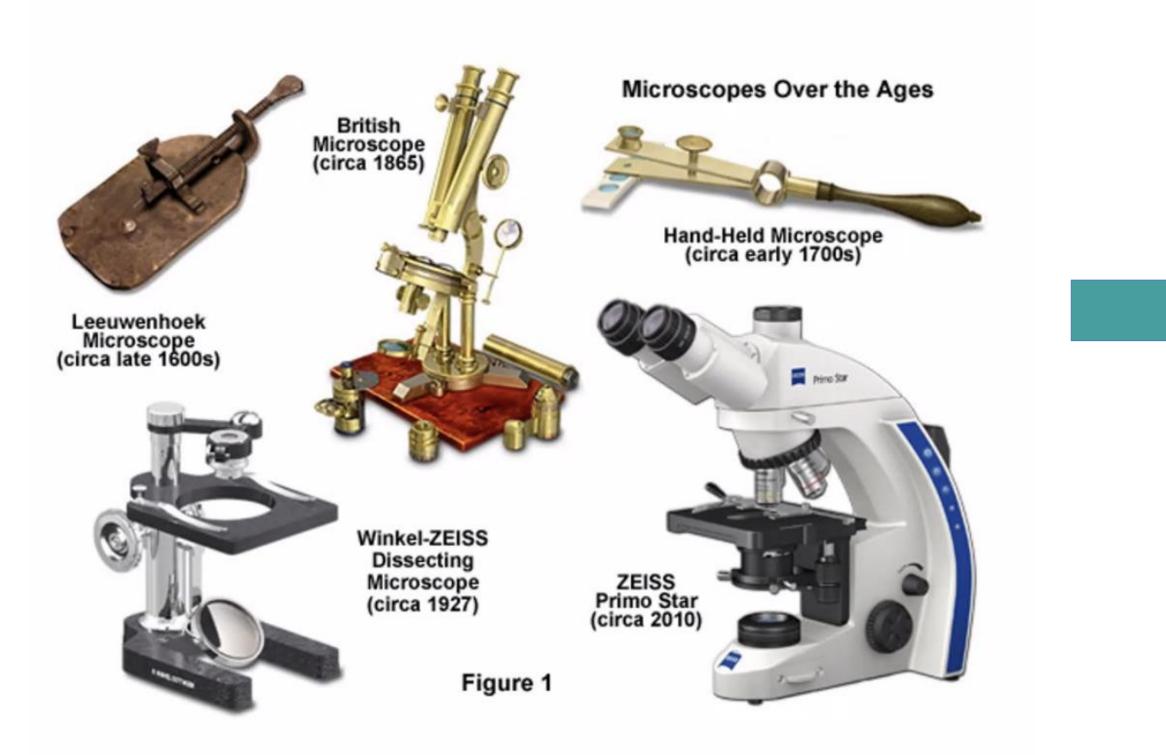


Siegel et al. Cancer Statistics 2023

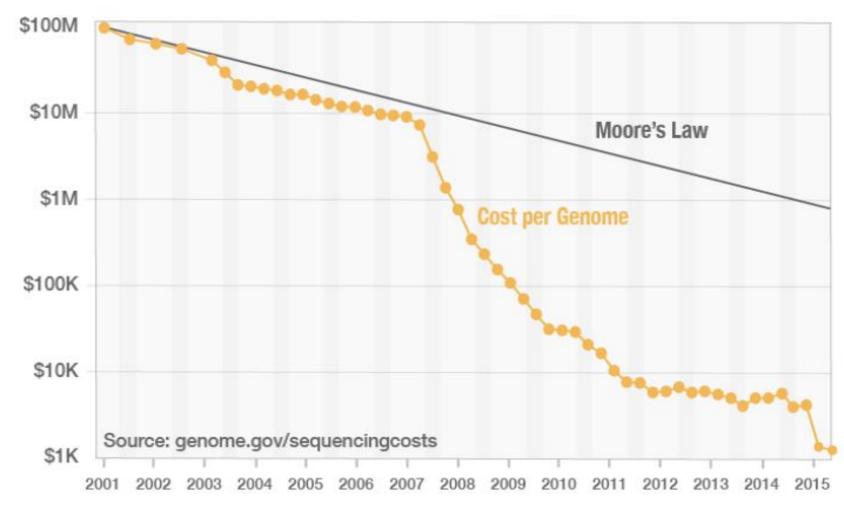
Cancer Facts & Figures 2023. American Cancer Society. Available at https://www.cancer.org/content/dam/cancer-org/research/cancer-facts-and-statistics/annual-cancer-facts-and-figures/2023/2023-cancer-facts-and-figures.pdf. Accessed January 31, 2023.



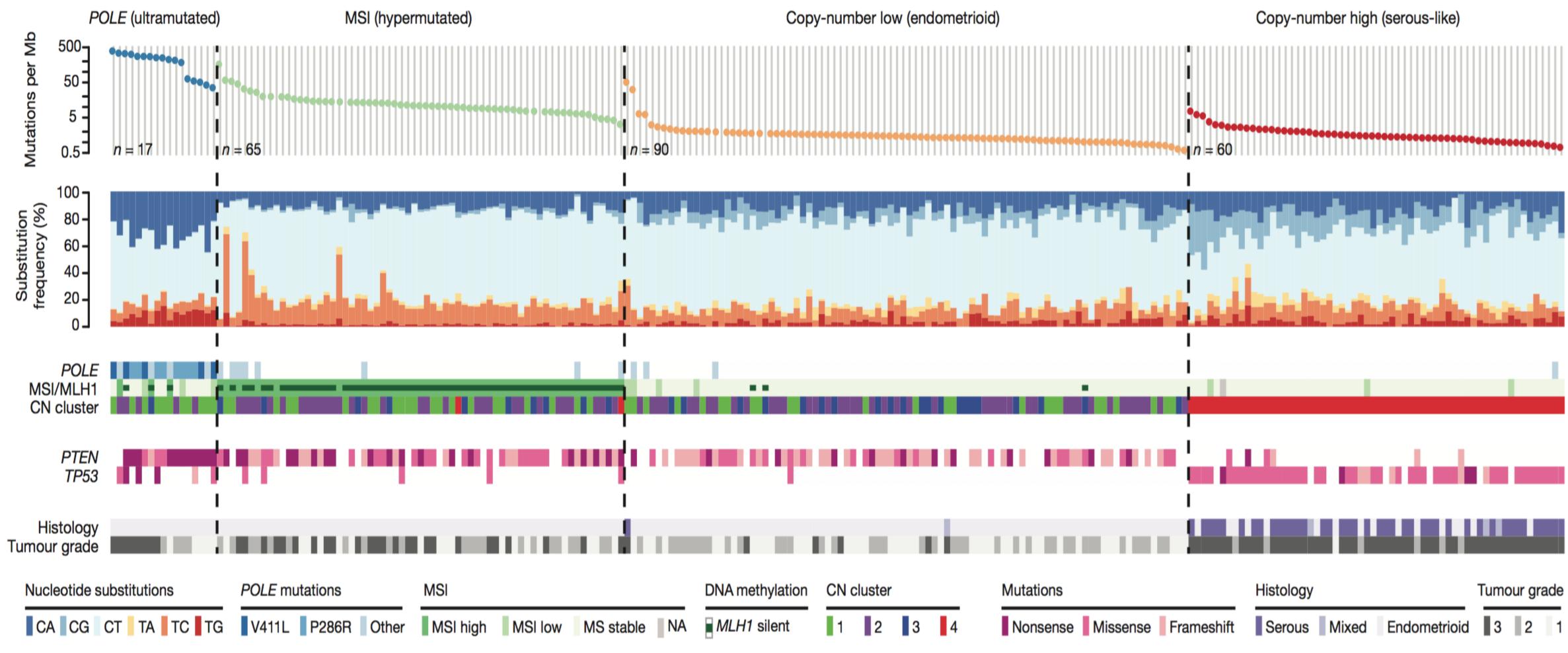
Endometrial Cancer: Moving from the Light Microscope to the Molecular Microscope







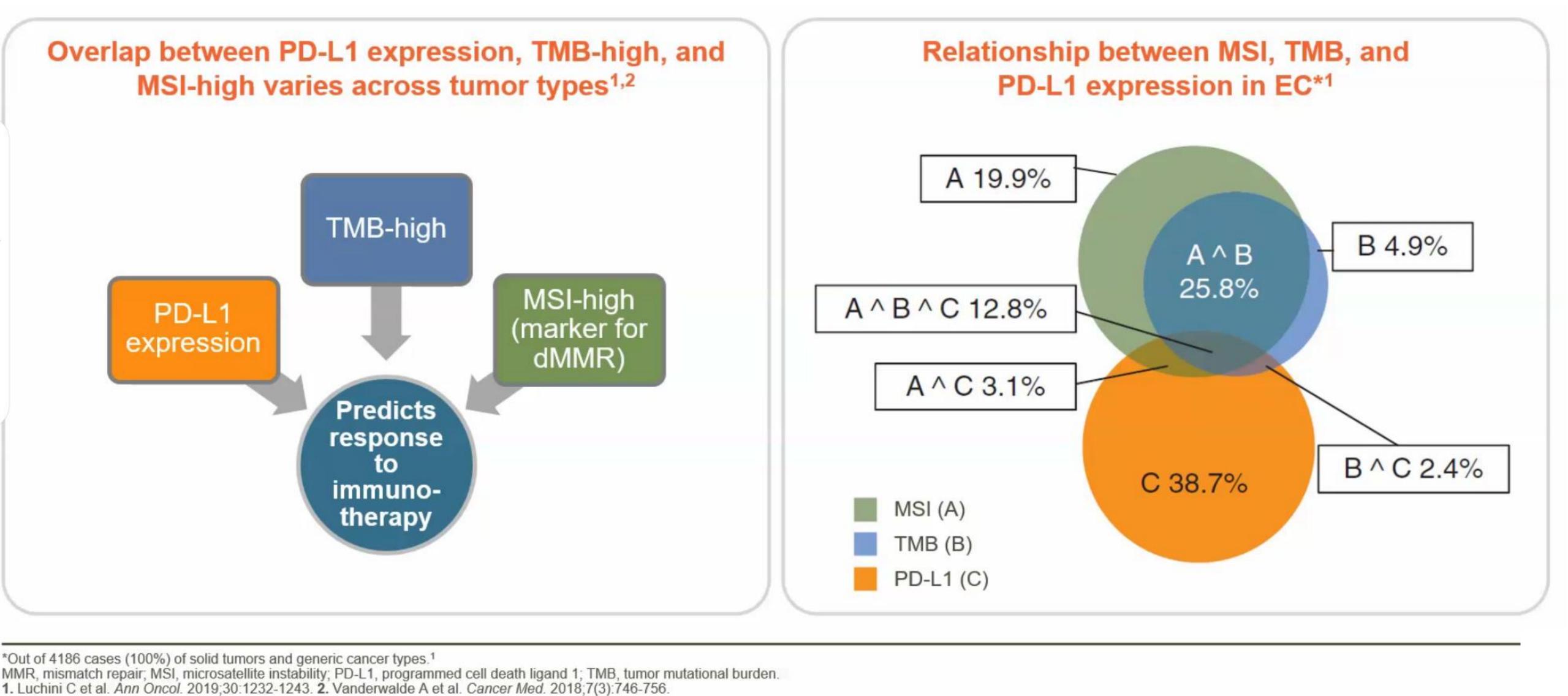
Endometrial Cancer: Molecular Characterization



TCGA, Nature 2013

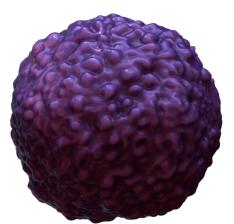


Relationship between PD-L1, TMB and MSI in Endometrial Cancer



1. Luchini C et al. Ann Oncol. 2019;30:1232-1243. 2. Vanderwalde A et al. Cancer Med. 2018;7(3):746-756.

Rational for Combinatorial Approach with Chemotherapy + IO

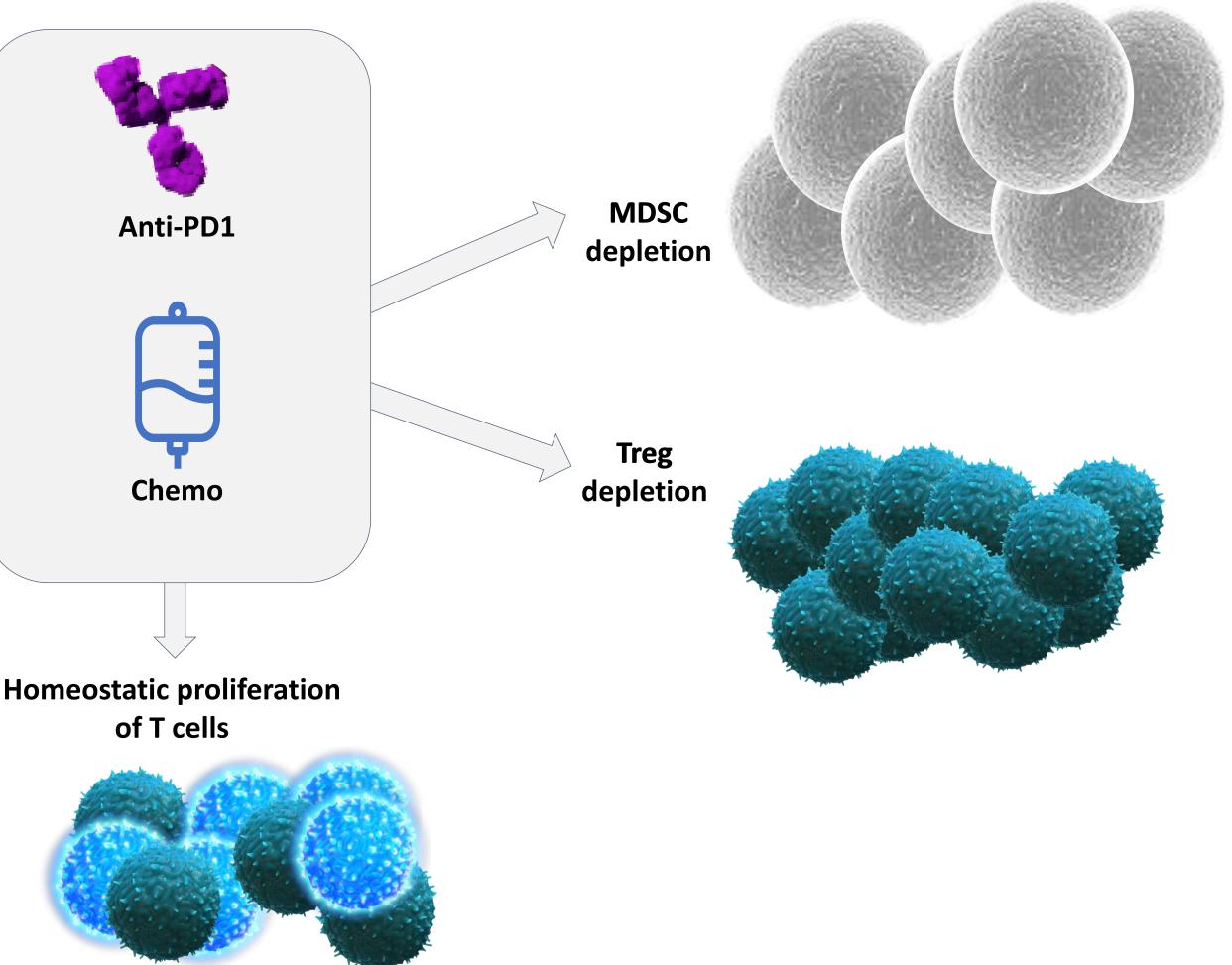


Tumor cell death

- Immunogenic cell death
- Reduction of tumor cells producing immunosuppressive mediators

Increased expression of tumor antigens

Recognized and targeted by the immune system

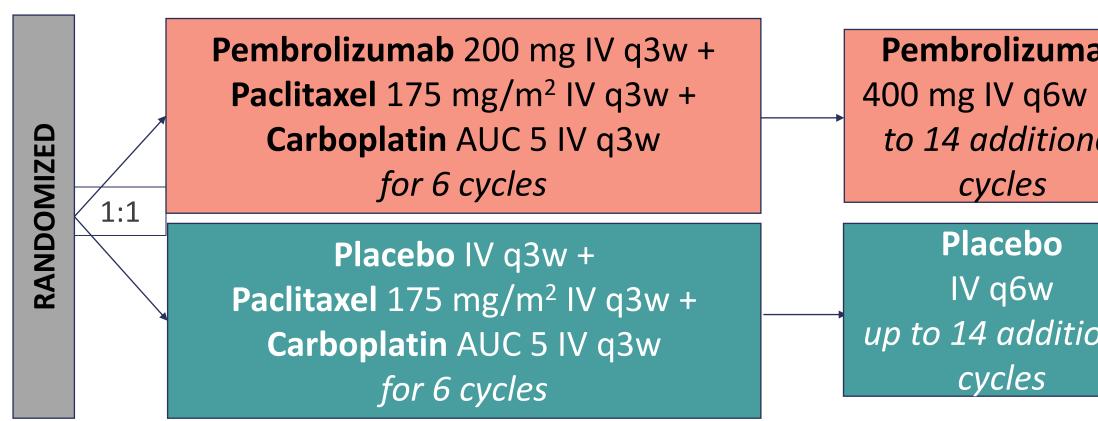


Chemo, chemotherapy; ICI, immune checkpoint inhibitors; IO, immunotherapy; MDSC, myeloid-derived suppressor cell; Treg, regulatory T cells. 1. Hato SV et al. Clin Cancer Res. 2014. 2. Chen Y et al. Am J Cancer Res. 2021. 3. Pfannenstiel T et al. Cell Immunol. 2010. 4. Sevko A et al. J Immunol. 2013.

NRG GY018: Phase 3 Trial of Pembrolizumab + Chemo for Measurable Stage 3 or 4a, Stage 4b, or Recurrent EC

Key Eligibility Criteria

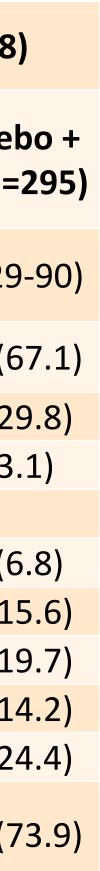
- Measurable stage III/IVA or measurable/nonmeasurable stage IVB or recu
- MMR IHC testing
- ECOG PS 0-2
- No prior Chemo except adjuvant Chemo if completed ≥12 mo before stud



Stratified by MMR status (pMMR vs dMMR), ECOG status, and prior adjuvant Chemo

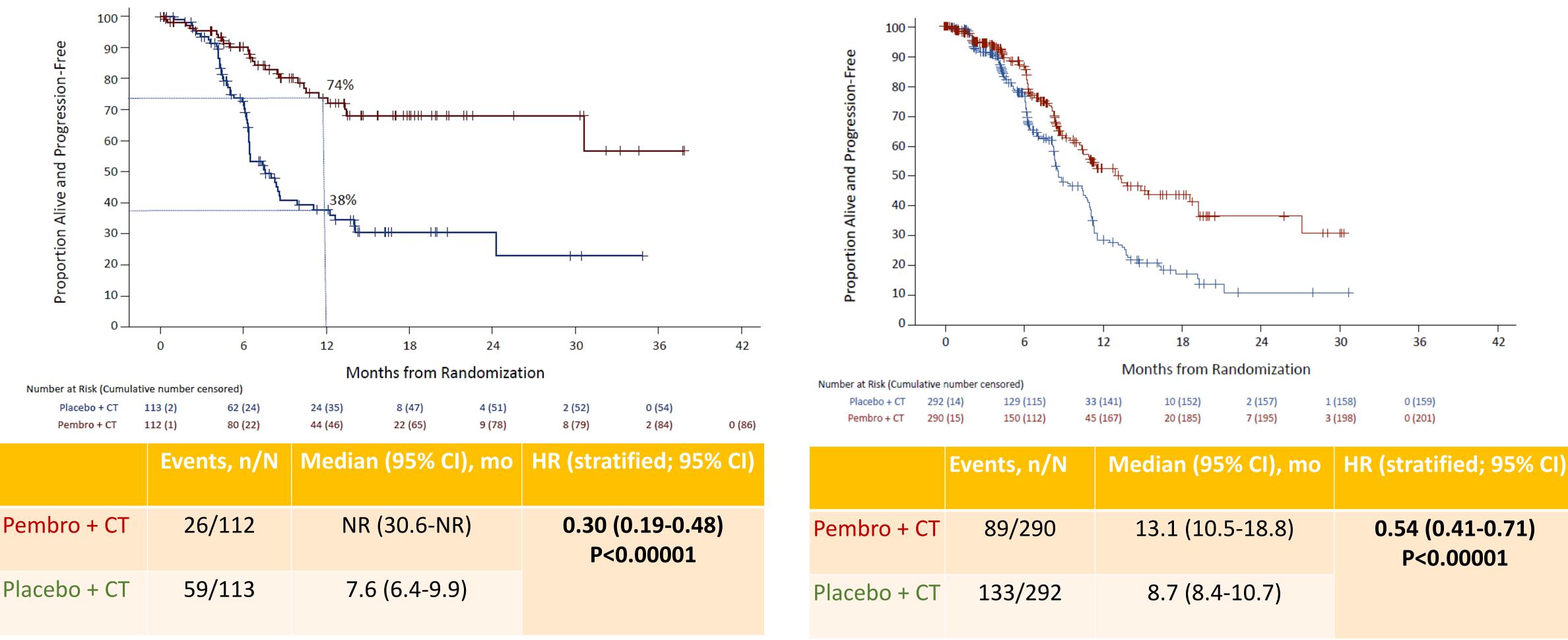
Primary endpoints: PFS per RECIST v1.1 by INV in pMMR and dMMR cohorts **Secondary endpoints**: Safety, ORR/DOR, OS, PRO/QoL, concordance of MMR testing results

urrent E	EC						
		Patient		dMMR	(n=225)	(n=588)	
		Characteristi n (%)	•		Placebo + CT (n=113)		Placel CT (n=
ab		Median age (years	range),	67 (38-81)	66 (37-85)	66 (31-93)	65 (29
up			0	72 (64.3)	73 (64.6)	196 (66.9)	198 (6
nal		ECOG PS	1	39 (34.8)	35 (31.0)	88 (30.0)	88 (29
			2	1 (0.9)	5 (4.4)	9 (3.1)	9 (3.
		Histology					
onal		Clear cell		1 (0.9)	0	17 (5.8)	20 (6
Unu		Endometrio	id <i>,</i> G1	21 (18.8)	35 (31.0)	54 (18.4)	46 (1
		Endometrio	id <i>,</i> G2	52 (46.4)	41 (36.3)	51 (17.4)	58 (19
		Endometrio	id <i>,</i> G3	15 (13.4)	16 (14.2)	53 (18.1)	42 (14
_		Serous		4 (3.6)	1 (0.9)	78 (26.6)	72 (24
ts IR		No prior chemotherap	ру	107 (95.5)	105 (92.9)	221 (75.4)	218 (7



NRG GY018: Phase 3 Trial of Pembrolizumab + Chemo for Measurable Stage 3 or 4a, Stage 4b, or Recurrent EC – PFS

PFS per RECIST v1.1 in dMMR Population



Median follow-up: 12 months for dMMR, 7.9 months for pMMR

> Data cutoff: December 16, 2022 for dMMR; December 6, 2022 for pMMR. Eskander R, et al. N Eng J Med. March 2023

PFS per RECIST v1.1 in pMMR Population



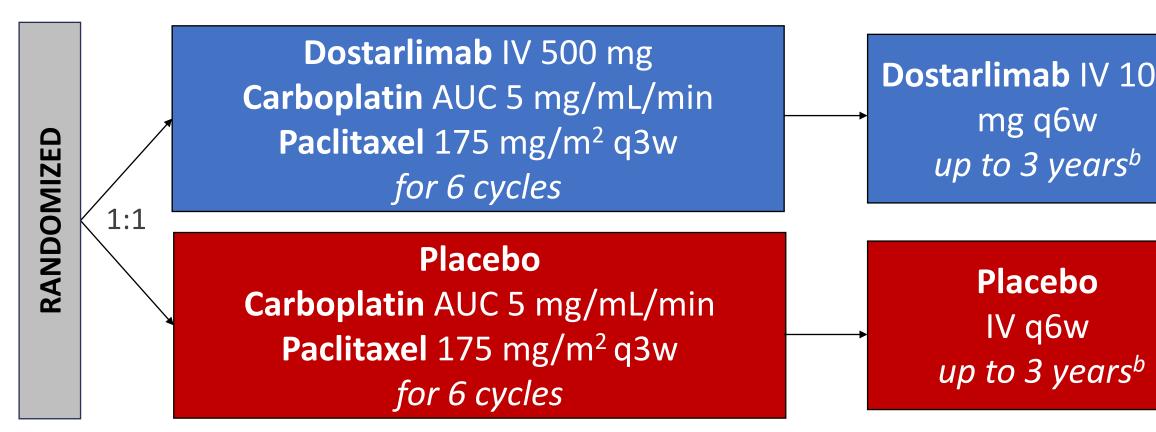




GOG-3031/RUBY: Phase 3 Trial of Dostarlimab + Chemo for Primary Advanced/Recurrent EC

Key Eligibility Criteria

- Histologically/cytologically proven stage III/IV or first recurrent EC
- Carcinosarcoma, clear cell, serous, or mixed histology permitted^a
- ECOG PS 0-1
- Naive to systemic therapy or systemic anticancer therapy and had a recurr or PD ≥6 months after completing treatment



Stratified by MMR/MSI status,^c prior external pelvic radiotherapy, and disease status

Primary endpoints: PFS by INV, OS Secondary endpoints: PFS by BICR, PFS2, ORR, DOR, DCR, HRQOL/PRO, safety

^a Mixed histology containing at least 10% carcinosarcoma, clear cell, or serous histology. ^b Treatment ends after 3 years. ^c Patients were randomized based on either local or central MMR/MSI testing results. For local determination of MMR/MSI status, IHC, NGS, and PCR assays were accepted. For central determination of MMR/MSI status IHC per Ventana MMR RxDx Panel was used. Central testing was used when local results were not available.

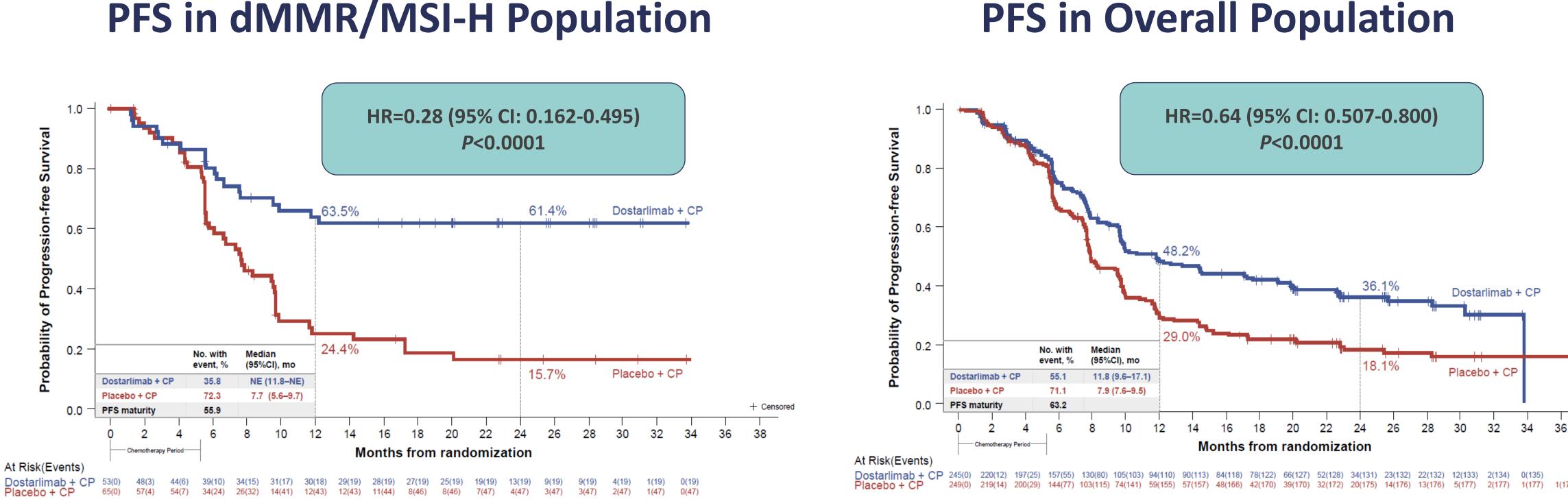
Mirza MR, et al. N Eng J Med March 2023.

			dMMR	/MSI-H	Overall		
rence	Patient Char n (%)	acteristics,	Dostarlimab + CP (n=53)	Placebo + CP (n=65)	Dostarlimab + CP (n=245)	Place + C (n=2	
Terree	Median age (range), years		61 (45-81)	66 (39-85)	64 (41-81)	65 (28	
		0	28 (53.8)	39 (60.0)	145 (60.2)	160 (6	
000	ECOG PS	1	24 (46.2)	26 (40.0)	96 (39.8)	86 (3	
	Histology						
	Clear cell		0	0	8 (3.3)	9 (3	
	Carcinosaro	coma	4 (7.5)	1 (1.5)	25 (10.2)	19 (7	
	Endometrie	bid	44 (83.0)	56 (86.2)	134 (54.7)	136 (5	
)	Prior system	ic therapy	7 (13.2)	10 (15.4)	48 (19.6)	52 (2	
	Carboplatin/paclitaxel		4 (7.5)	6 (9.2)	36 (14.7)	39 (1	
	Measurable disease at baseline		49 (92.5)	58 (89.2)	212 (86.5)	219 (8	



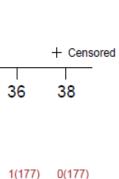
GOG-3031/RUBY: Phase 3 Trial of Dostarlimab + Chemo for Primary **Advanced/Recurrent EC – PFS**

PFS in dMMR/MSI-H Population



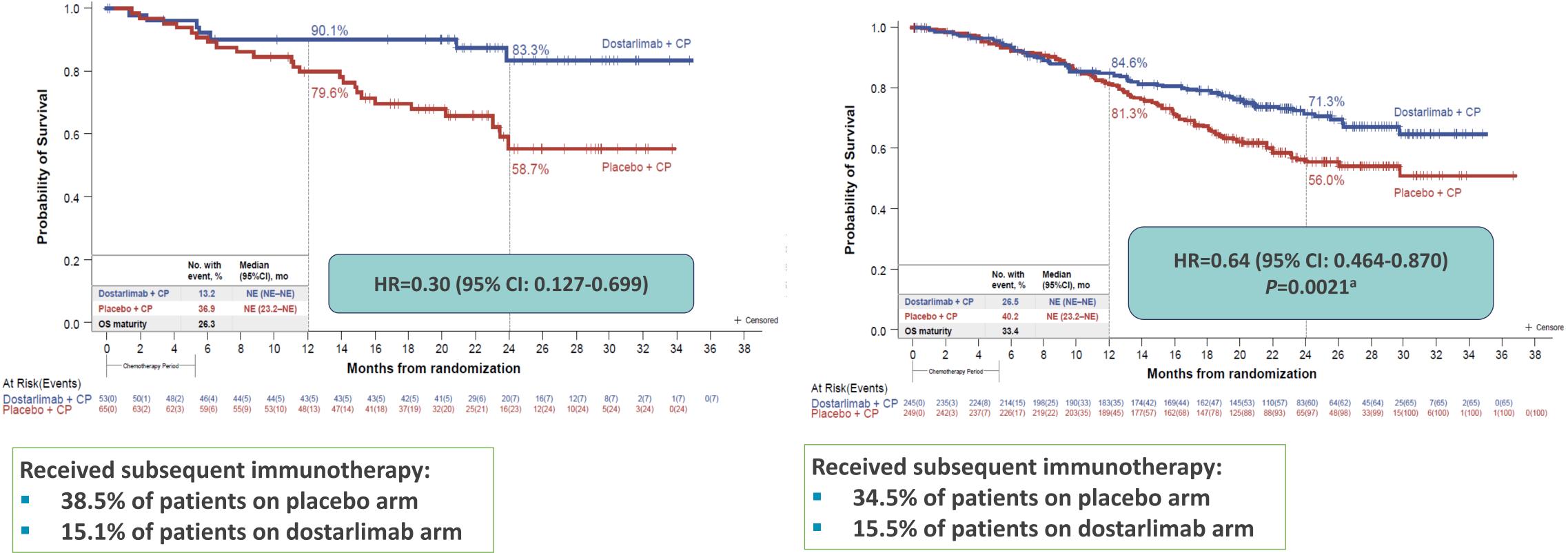
- Median duration of follow-up in the dMMR/MSI-H population was 24.79 months
- Median duration of follow-up in the overall population was 25.38 months

Data cutoff: September 28, 2022. Mirza MR, et al. N Eng J Med March 2023



GOG-3031/RUBY: Phase 3 Trial of Dostarlimab + Chemo for Primary **Advanced/Recurrent EC – OS**

OS in dMMR/MSI-H Population



Data cutoff: September 28, 2022. Median duration of follow-up in overall population was 25.38 months. ^a P≤0.00177 required to declare statistical significance at first interim analysis. Mirza MR, et al. N Eng J Med March 2023

OS in Overall Population (33% Maturity)

Endometrial Cancer: 1L/Metastatic or Recurrent Disease

Setting	Trial Name	Study Inter
Front-line, metastatic or recurrent PI: Westin Co-PI: Moore *GOG led	GOG-3041/DUO-E	A Randomis controlled, Paclitaxel in Maintenand Patients Wi Endometria

DUO-E is the first global Phase III trial of immunotherapy plus PARP inhibition to demonstrate clinical benefit in this setting

Positive high-level results from the DUO-E Phase III trial showed *Imfinzi* (durvalumab) in combination with platinumbased chemotherapy followed by either *Imfinzi* plus *Lynparza* (olaparib) or *Imfinzi* alone as maintenance therapy both demonstrated a statistically significant and clinically meaningful improvement in progression-free survival (PFS) compared to standard-of-care chemotherapy alone in patients with newly diagnosed advanced or recurrent endometrial cancer. There was a greater clinical benefit observed with the combination of *Imfinzi* and *Lynparza* as maintenance treatment.

nt	Update
ised, Multicentre, Double-blind, Placebo- , Phase III Study of First-line Carboplatin and n Combination With Durvalumab, Followed by nee Durvalumab With or Without Olaparib in Yith Newly Diagnosed Advanced or Recurrent al Cancer	Active, Not Recruiting

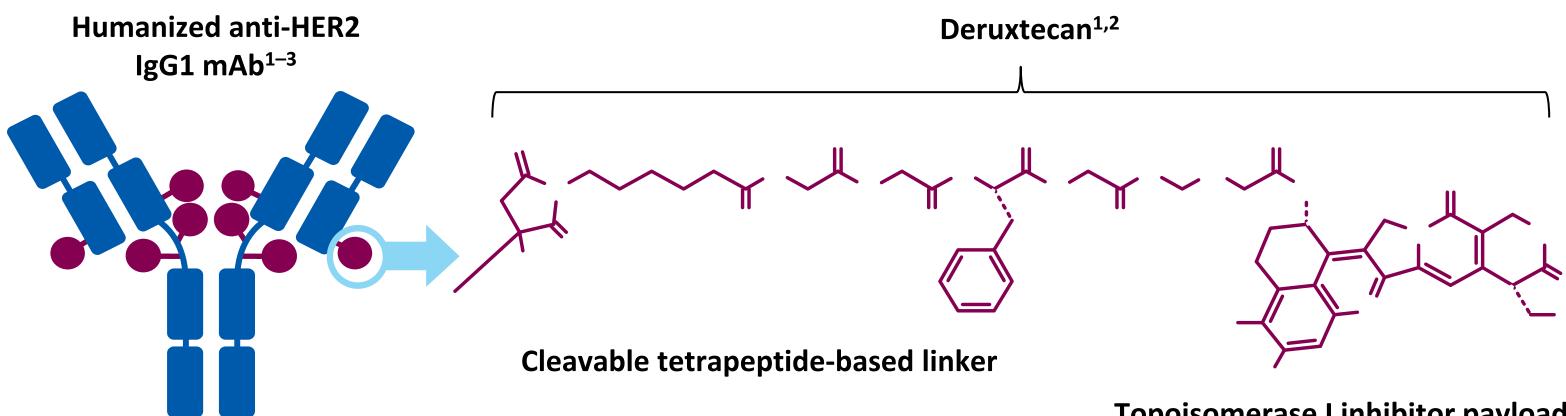




Efficacy and safety of trastuzumab deruxtecan in patients with **HER2-expressing solid tumors: DESTINY-PanTumor02 interim results**

T-DXd is an ADC with three components:

- A humanized anti-HER2 IgG1 mAb with the same amino acid sequence as trastuzumab
- A topoisomerase I inhibitor payload, an exatecan derivative 2.
- A tetrapeptide-based cleavable linker 3.



^aThe clinical relevance of these features is under investigation. ADC, antibody–drug conjugate; HER2, human epidermal growth factor receptor 2; IgG1, immunoglobulin G1; mAb, monoclonal antibody; T-DXd, trastuzumab deruxtecan 1. Nakada T, et al. Chem Pharm Bull (Tokyo). 2019;67(3):173–185. 2. Ogitani Y, et al. Clin Cancer Res. 2016;22(20):5097–5108. 3. Trail PA, et al. Pharmacol Ther. 2018;181:126–142. 4. Okamoto H, et al. *Xenobiotica*. 2020;50(10):1242–1250. 5. Nagai Y, et al. *Xenobiotica*. 2019;49(9):1086–1096.

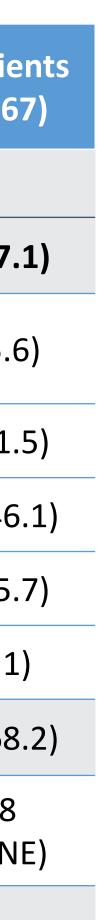
Topoisomerase I inhibitor payload (DXd=<u>DX</u>-8951f <u>d</u>erivative)



Efficacy and safety of trastuzumab deruxtecan in patients with 2023 **ASCO**° ANNUAL MEETING **HER2-expressing solid tumors: DESTINY-PanTumor02 interim results**

		Cervical (n=40)	Endometrial (n=40)	Ovarian (n=40)	BTC (n=41)	Pancreatic (n=25)	Bladder (n=41)	Other (n=40)	All patier (N=267
Investigator as	sessment								
ORR, n (%)		20 (50.0)	23 (57.5)	18 (45.0)	9 (22.0)	1 (4.0)	16 (39.0)	12 (30.0)	99 (37.1
	Complete response	2 (5.0)	7 (17.5)	4 (10.0)	1 (2.4)	0	1 (2.4)	0	15 (5.6)
Best overall	Partial response	18 (45.0)	16 (40.0)	14 (35.0)	8 (19.5)	1 (4.0)	15 (36.6)	12 (30.0)	84 (31.5
response, n (%)	Stable disease	12 (30.0)	13 (32.5)	14 (35.0)	25 (61.0)	17 (68.0)	18 (43.9)	24 (60.0)	123 (46.:
	PD	7 (17.5)	4 (10.0)	7 (17.5)	7 (17.1)	7 (28.0)	7 (17.1)	3 (7.5)	42 (15.7
	Not evaluable	1 (2.5)	0	1 (2.5)	0	0	0	1 (2.5)	3 (1.1)
DCR ^a at 12 wee	eks, n (%)	27 (67.5)	32 (80.0)	28 (70.0)	27 (65.9)	9 (36.0)	29 (70.7)	30 (75.0)	182 (68.2
Median DOR, r	nonths (95% Cl)	9.8 (4.2–NE)	NR (9.9–NE)	11.3 (4.1–NE)	8.6 (2.1–NE)	NR	8.7 (4.3–11.8)	NR (4.1–NE)	11.8 (9.8–NE
Independent c ORR, n (%)	entral review:	16 (40.0)	21 (52.5)	17 (42.5)	11 (26.8)	3 (12.0)	17 (41.5)	13 (32.5)	98 (36.7

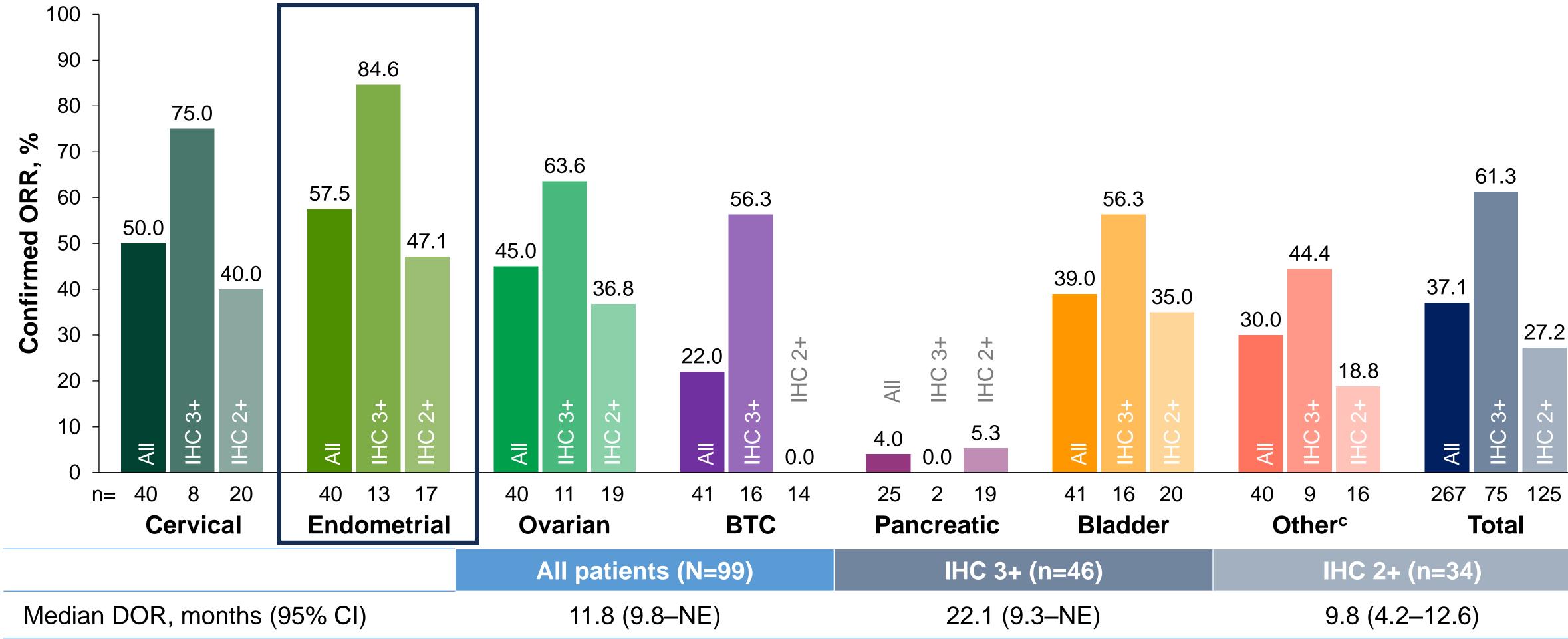




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Efficacy and safety of trastuzumab deruxtecan in patients with HER2-expressing solid tumors: **DESTINY-PanTumor02** interim results





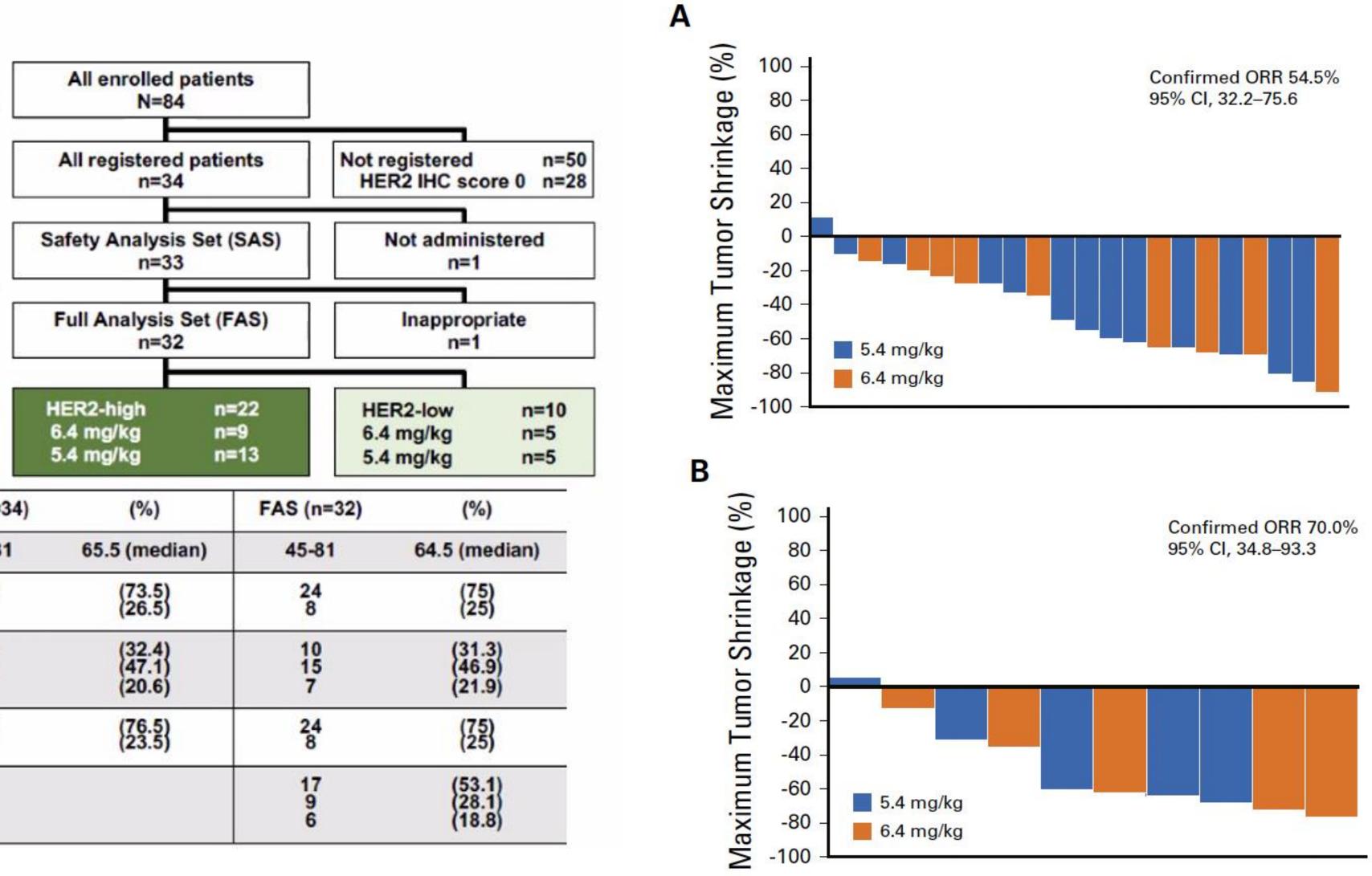
T-DxD Efficacy in Uterine Carcinosarcoma

Patient Flow Diagram

- Patients were enrolled from February 2018 . to June 2020 at 7 institutions in Japan
- Data cut-off was done in December 2020
- Twenty-eight patients (33.3%) were excluded from registration due to HER2 IHC score 0
- One patient did not receive T-DXd . due to progression of UCS
- One patient was excluded from FAS due to • central review with no measurable target lesion

Patient Characteristics

HER2 IHC score (N=84) 0: 28 (33%), 1: 24 (29%) 2: 22 (26%), 3: 10 (12%)



		All (n=34)	(%)	FAS (n=32)	(%)
Age (years)		45-81	65.5 (median)	45-81	64.5 (me
PS (ECOG)	0	25 9	(73.5) (26.5)	24 8	(75) (25)
HER2 (IHC)	1 2 3	11 16 7	(32.4) (47.1) (20.6)	10 15 7	(31.3 (46.9 (21.9
HER2 (FISH)	Negative Positive	26 8	(76.5) (23.5)	24 8	(75) (25)
Prior regimens	1 ≥3			17 9 6	(53.1 (28.1 (18.8

NCCN National Comprehensive Cancer Network[®]

NCCN Guidelines Version 1.2024 Endometrial Carcinoma

SYSTEMIC THERAPY FOR ENDOMETRIAL CARCINOMA						
RECURREI	RECURRENT DISEASE ^{h,i}					
First-Line Therapy for Recurrent Disease ⁱ	Second-Line or Subsequent Therapy					
 <u>Preferred</u> Carboplatin/paclitaxel (category 1 for carcinosarcoma)^{k,7} Carboplatin/paclitaxel/pembrolizumab (except for carcinosarcoma) (category 1)^{b,c,d,8} Carboplatin/paclitaxel/dostarlimab-gxly (category 1)^{c,d,e,9} Carboplatin/paclitaxel/trastuzumab^{d,g} (for HER2-positive uterine serous carcinoma)^{d,10} Carboplatin/paclitaxel/trastuzumab^{d,g} (for HER2-positive carcinosarcoma)^{f,10} 	Other Recommended Regimens • Cisplatin/doxorubicin ¹⁷ • Cisplatin/doxorubicin/paclitaxel ^{p,14} • Cisplatin • Carboplatin • Doxorubicin • Liposomal doxorubicin • Paclitaxel ¹⁴ • Albumin-bound paclitaxel ^q					
<u>Other Recommended Regimens</u> • Carboplatin/docetaxel ^l • Carboplatin/paclitaxel/bevacizumab ^{d,m,11,12} <u>Useful in Certain Circumstances</u>	 Topotecan Bevacizumab^{m,r,19} Temsirolimus²⁰ Cabozantinib Docetaxel (category 2B) Ifosfamide (for carcinosarcoma) 					
(Biomarker-directed therapy: after prior platinum-based therapy including neoadjuvant and adjuvant) • MMR-proficient (pMMR) tumors • Lenvatinib/pembrolizumab (category 1) ^{c,13} • TMB-H tumors ⁿ • Pembrolizumab ^{c,14} • MSI-H/dMMR tumors ^o • Pembrolizumab ^{c,15} • Dostarlimab-gxly ^{c,16}	 Ifosfamide/paclitaxel (for carcinosarcoma)²¹ Cisplatin/ifosfamide (for carcinosarcoma) <u>Useful in Certain Circumstances</u> (Biomarker-directed therapy) pMMR tumors Lenvatinib/pembrolizumab (category 1)^{c,13} TMB-H tumors^{n,12} Pembrolizumab^c MSI-H/dMMR tumors⁰ Pembrolizumab^{c,15} Dostarlimab-gxly^{c,16} Avelumab^c Nivolumab^{c,22} HER2-positive tumors (IHC 3+ or 2+) Fam-trastuzumab deruxetan²³ 					
	 NTRK gene fusion-positive tumors Larotrectinib Entrectinib 					

NCCN Guidelines Index Table of Contents Discussion



Preliminary results of a Phase II trial with **Sacituzumab Govitecan (SG) in Patients with Recurrent Endometrial Carcinoma overexpressing Trop-2**

Table 1. Demographics and clinical	SG (n = 21)	Table 2. Overall response rate and	SG (n = 21)
characteristics		durable disease control	n (%)
Median age at study entry, y (range)	63 (47-77)	Best overall response	
Race, n (%)		Confirmed complete response (CR)	1 (4.8)
White	15 (71.4)	Confirmed partial response (PR)	6 (28.5)
Black or African-American	0	Stable disease	11 (47.6)
Asian	2 (9.5)	Progressive disease	3 (14.3)
Other	4 (19.0)	Objective response rate (confirmed CR + PR)	7 (33.3)
Histological/cytological diagnosis, n (%)		Durable disease control (confirmed CR + PR + SD ≥ 6 months)	7 (35.0)*
Serous	10 (47.6)	*Out of 20 patients evaluable for durable disease control	
Endometrioid	6 (28.6)		
Carcinosarcoma	3 (14.3)	Table 3. Most Common Treatment-Rela	ated
Other	2 (9.5)	Adverse Events	
Number of prior anticancer regimen, n (%)			Grade ≥ 3 % of patients)
1-3	11 (52.4)	Neutropenia	9 (43%)
> 3	10 (47.6)	•	4 (19%)
Median prior anticancer regimens, n (range)	3 (1-6)	Anemia	3 (14%)
		Diarrhea	3 (14%)
Median follow up duration, m (IQR)	17 (7.6-35.2)	Febrile neutropenia	2 (10%)

- Median PFS was 5.7 months
- Median OS was 22.2 months

Conclusions:

Sacituzumab govitecan shows encouraging clinical activity against **Trop-2** overexpressing endometrial cancer in stage 1 of an open-label phase 2 trial; stage 2 is now open/recruiting an all-comer population.



Evolution of Molecularly Directed Therapy in Endometrial Cancer

TP53

• Predictor of response to anti angiogenic therapy...

GOG-86P (bevacizumab): PFS HR 0.48 vs 0.87 in mutant TP53 vs. wt TP53
EXPORT-EC (Selinexor)
KRT-232 (Navtemadlin)

DNA Damage Repair

 Potential opportunity in the mutant TP53 population

 ADAGIO: Adavosertib (WEE-1) single agent
 Median prior LOT = 3
 BICR ORR 26%
 Median PFS 2.8mo

Aghajanian et al. J Clin Oncol. 2011; Leslie K. et al. Gyncol Oncol 2021; Nickles-Fader J Clin Oncol 2018; Nickles-Fader Clin Cancer Research 2020; Nishikawa et al. J Clin Oncol. 2023; Liu JF, et al. SGO 2023. Abstract 219; Mirza et al. ESMO 2020; P Konstantinopoulos et al. J Clin Oncol 2022;

Hormonal Therapies

• ? Role in the copy number low wt TP53 population

 PALEO Study: Letrozole vs Palbocilcib + letrozole
 HR 0.56
 Median PFS 8.3 vs 3 mo

 Letrozole + Abemaciclib: ORR 30%

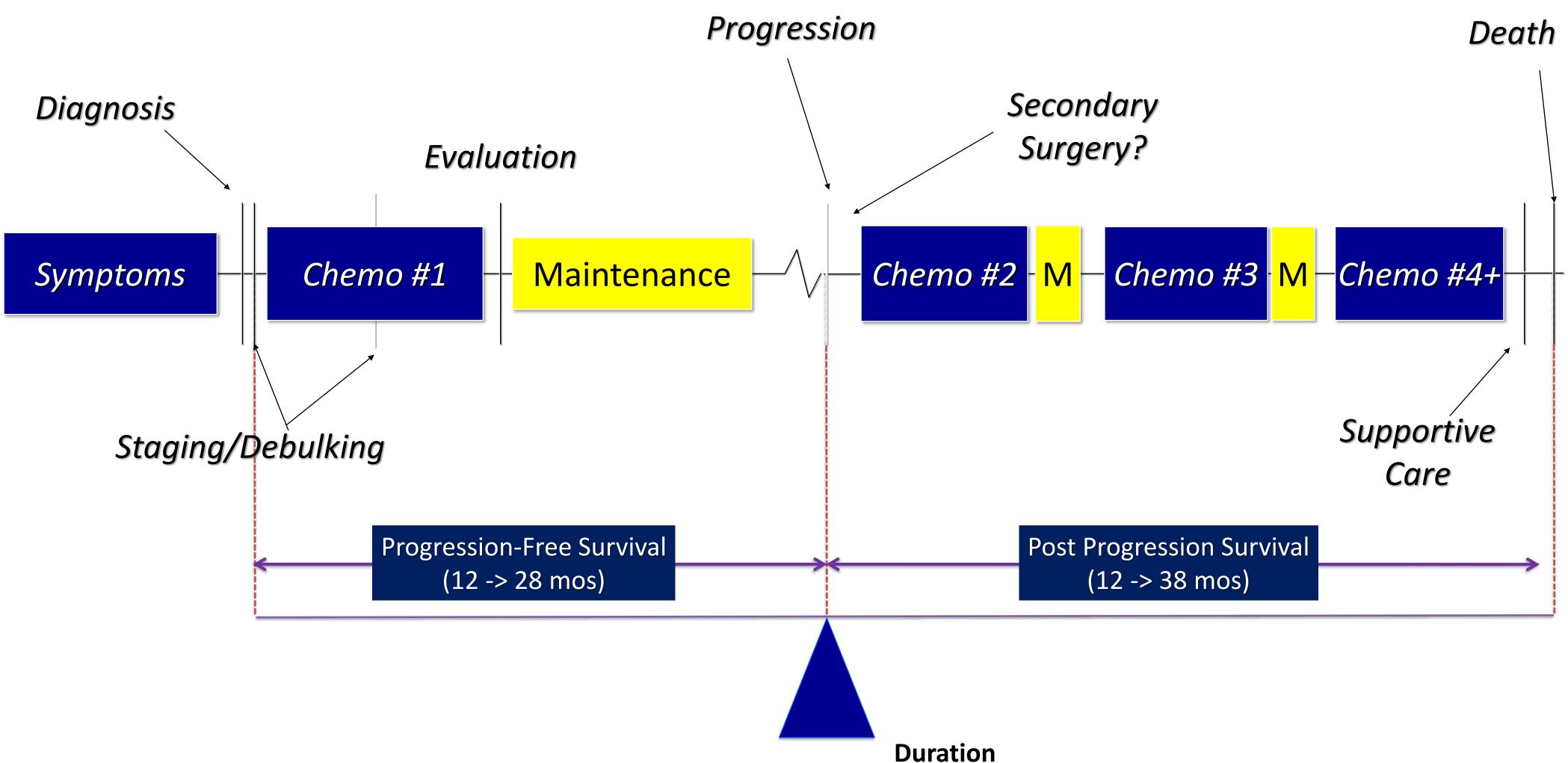


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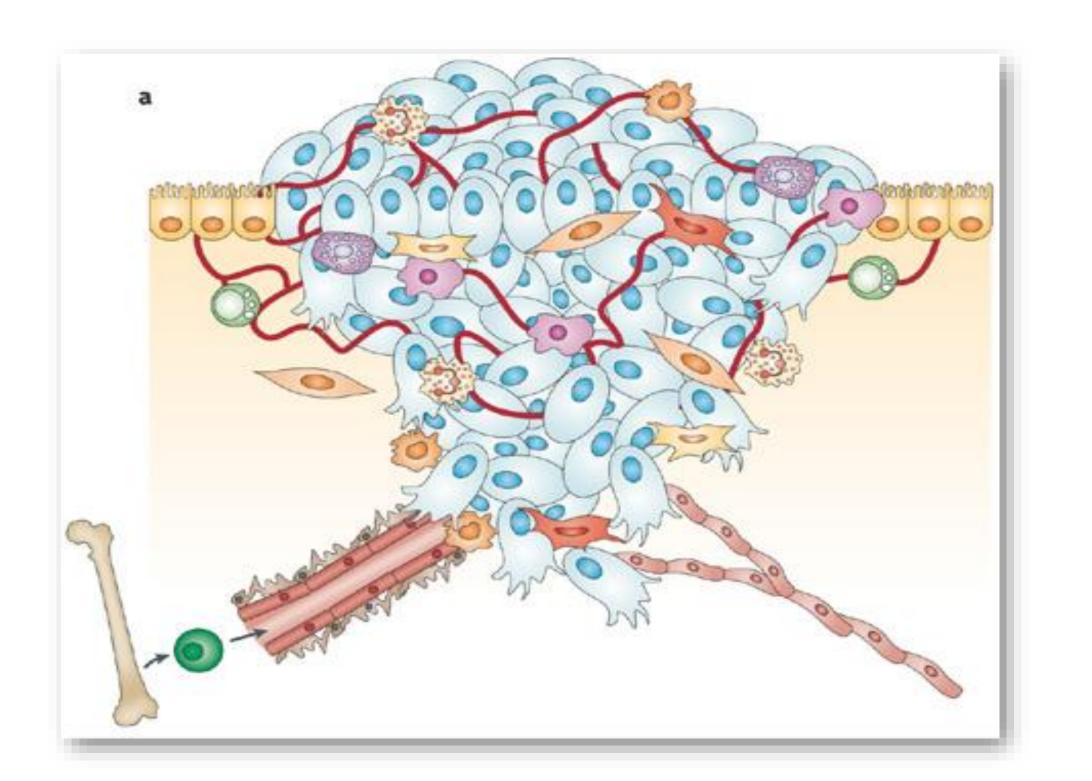
Endometrial Cancer: 1st line Metastatic/Recurrent (Results Pending)

Front-line, metastatic or recurrence	AtTEnd (NCT03603184)	Phase III Double-blind Randomized Placebo Controlled Trial of Atezolizumab in Combination With Paclitaxel and Carboplatin in Women With Advanced/Recurrent Endometrial Cancer	Active, not Recruiting
Front-line, metastatic or recurrence	GOG 3064/ ENGOT- en15/MK KN-C93 (NCT05173987)	1L dMMR platinum-doublet chemotherapy vs pembrolizumab (with formal cross over)	Recruiting
Front-line, metastatic or recurrence	LEAP-001 (NCT04865289)	1L platinum doublet chemotherapy vs lenvatinib + pembrolizumab	Active, not Recruiting

Ovarian Cancer: Natural History

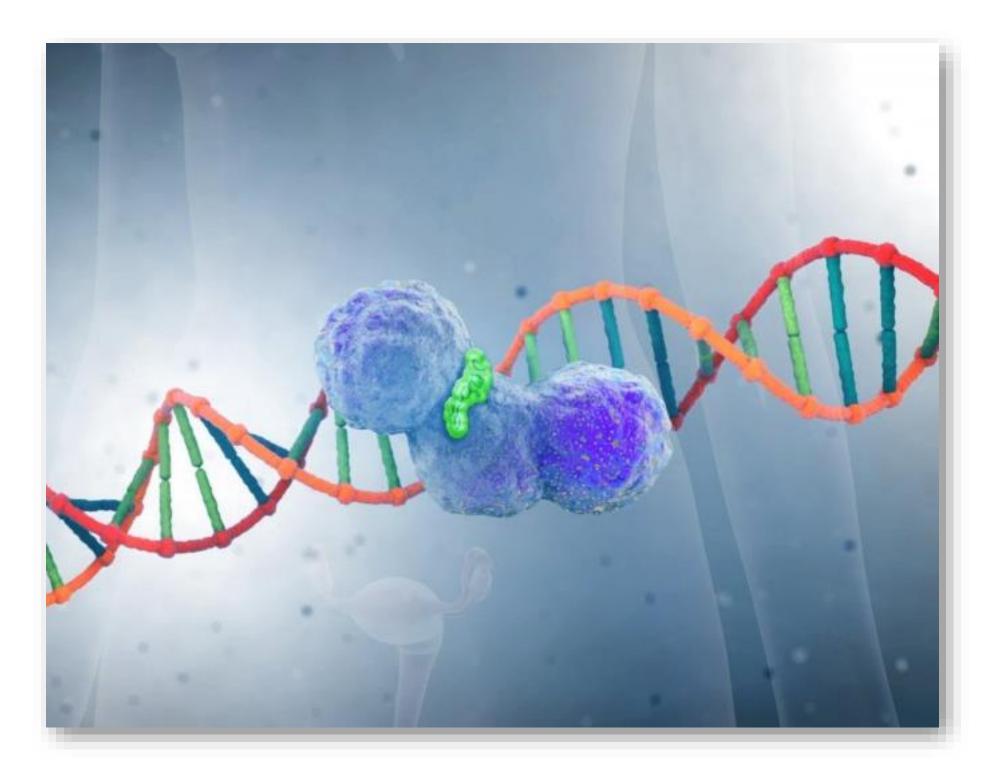


Ovarian Cancer Differentiators



Anti-Angiogenesis

Joyce, J. A., & Pollard, J. W. (2009). Microenvironmental regulation of metastasis. Nature reviews cancer, 9(4), 239-252.



PARP inhibition

Clearity Foundation. (2016, October 18). PARP inhibitor broadly active in ovarian cancer. Clearity Foundation.

Clinical trials with PARPi in front-line: Benefit across biomarkers

		SOLO-11	PRIMA ²	PAOLA-13	ATHENA-MONO ⁴	PRIME ⁵
	PARPi	Olaparib	Niraparib	Olaparib	Rucaparib	Niraparib
	Bevacizumab	No	No	Yes	No	No
	Population	BRCAmut	All comers	All comers	All comers	All comers (Chinese)
	HRD test	NA	MyChoice	MyChoice	Foundation-One	BGI
++	BRCAmut	0.33 (0.25–0.43)	0.40* (0.27–0.62)	0.31* (0.20–0.47)	0.31* (0.20–0.47)	0.40* (0.23-0.68)
++	BRCAwt/HRD+	-	0.50* (0.31-0.83)	0.43* (0.28-0.66)	0.58* (0.33-1.01)	0.58* (0.36-0.93)
+	BRCAwt/HRD-	-	0.68* (0.49-0.94)	1.0* (0.75-1.36)	0.65* (0.45-0.95)	0.41* (0.25-0.65)

*exploratory

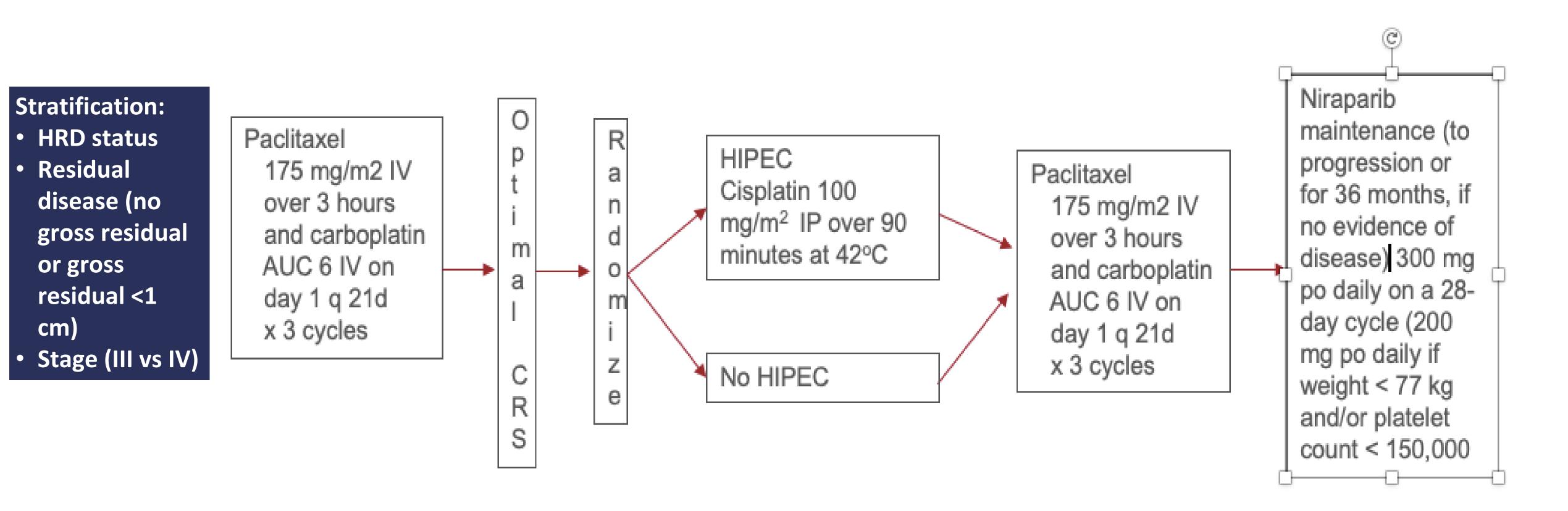
1. Moore. NEJM 2018; 2. Gonzalez-Martin. NEJM 20193; 3. Ray-Coquard. NEJM 2019; 4. Monk. J Clin Oncol 2022; 5. Li.SGO 2022

The aim of the table is not the cross-trial comparison



GOG-3068/HOTT

Ph III Randomized Trial of Hyperthermic Intraperitoneal Chemotherapy (HIPEC) with Cisplatin versus no HIPEC at the Time of Optimal Interval Cytoreductive Surgery followed by Niraparib Maintenance in Patients with Newly Diagnosed Stage III and IV Ovarian, Primary Peritoneal, and Fallopian Tube Cancer (PI: Oliver Zivanovic, MD, Co-PI: Leslie Randall, MD)





FLORA-5/QPT-ORE-005/GOG 3035 Randomized Trial of Oregovomab and Chemotherapy in Newly Diagnosed Stage III & IV **Ovarian, Primary Peritoneal, and Fallopian Tube Cancer**

-Newly diagnosed stage III or IV epithelial ovarian, tubal, or peritoneal cancer

-BRCA wild-type

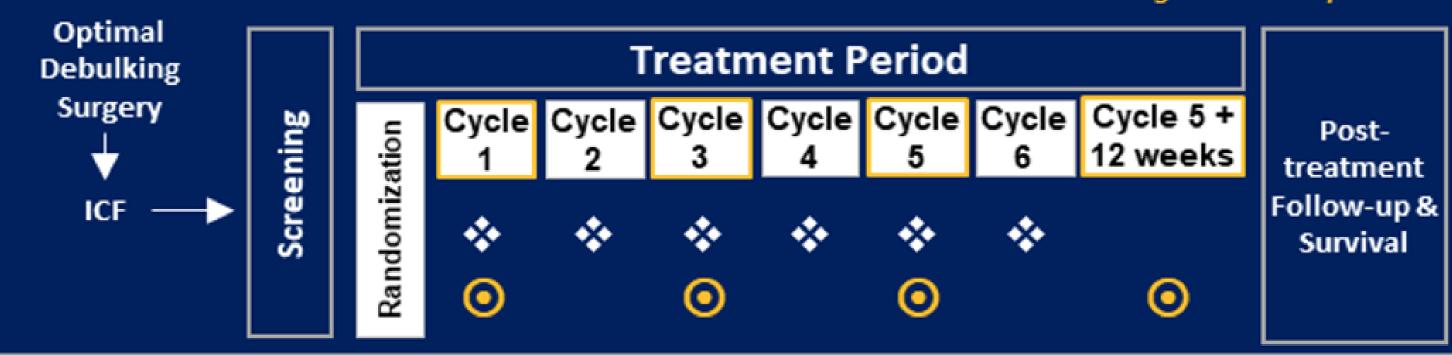
-ECOG PS 0-1

-Primary or interval cytoreductive surgery to R1 or R0

N=602

Cohort	Total Screened	In Screening	Screening Failure	Total Randomized
Cohort 1	408	10	143	255
Cohort 2	239	6	56	177

COHORT 1 – PRIMARY SURGERY





Primary endpoint: PFS – IA; Secondary endpoints: OS, Safety, QoL Exploratory: iRECIST, TFST, TSST, PFS2, Biomarkers

= paclitaxel + carboplatin • = oregovomab or placebo

COHORT 2 - NACT + INTERVAL SURGERY

N=230

Global PI: Alvarez Secord A



Ovarian Cancer

Antibody Drug Conjugates ADCs

POSITIVE TOP-LINE RESULTS KAYA POTENTIAL FOR ACCELERATED APPROVAL

SINGLE-ARM PIVOTAL TRIAL OF MIRVETUXIMAB IN FR α -HIGH PATIENTS WITH PLATINUM-RESISTANT OVARIAN CANCER

SINCLUSION CRITERIA

Platinum-resistant disease (PFI < 6 months)

106 PATIENTS

- FRa-high only
- Prior bevacizumab required
- Prior PARPi allowed
- 1 to 3 prior lines allowed
- Patients with BRCA mutations allowed

PRIOR TREATMENT

51% 3 prior lines of therapy

100% **Received prior** bevacizumab

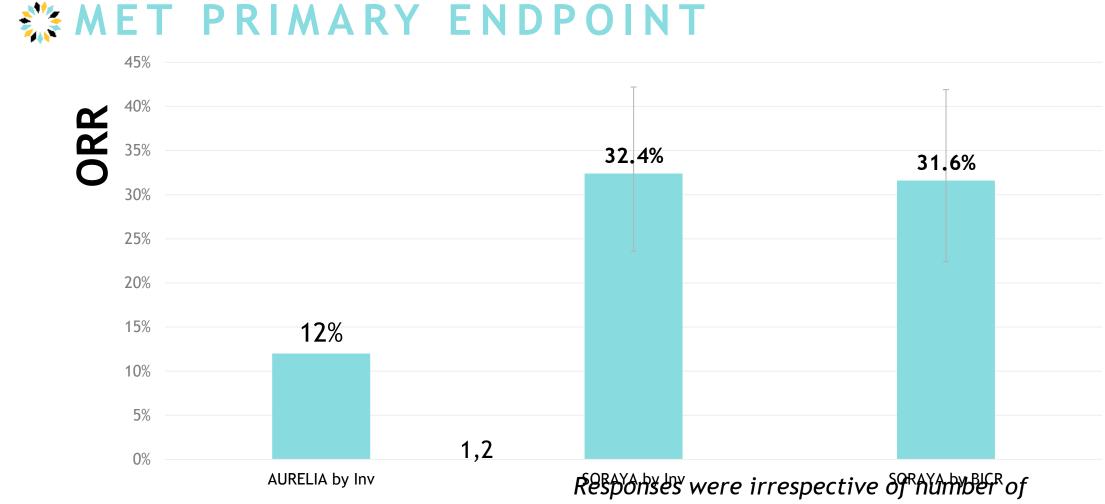
48% Received prior PARPi

SAFETY AND TOLERABILITY

- Favorable tolerability data
- >700 patients treated to date
- The most common AEs were low-grade gastrointestinal and ocular events, including blurred vision, keratopathy, and nausea; 7% of patients discontinued due to treatment-related AEs, including one patient due to ocular AE

¹AURELIA Study, JCO 2014, Pujade-Lauraine, E., et al.

²Disclaimer: These comparisons are not based on head-to-head clinical studies. The results from these two studies are not directly comparable and do not imply a clinical benefit of mirvetuximab over bevacizumab. FRa: folate receptor alpha; PFI: platinum-free interval; PARPi: poly ADP-ribose polymerase inhibitor; BRCA: BReast CAncer gene; AE: adverse event; ORR: confirmed objective response rate Inv: Investigator; BICR: blinded independent central review; mDOR: median duration of response; BLA: Biologics License Application; FDA: US Food and Drug Administration



prior lines or prior PARPi use

KEY SECONDARY ENDPOINT

5.9 months mDOR

By Investigator at Data Cutoff (95% C1: 5.6, 7.7)

Nearly half of responders still receiving mirvetuximab at data cutoff; with longer follow-up, mDOR could range from 5.7 to above 7 months

FDA Accelerated Approval in November 2022



2023 ASCO[®] ANNUAL MEETING

Phase III MIRASOL (GOG 3045/ENGOT-ov55) Study: **Mirvetuximab Soravtansine vs. Investigator's Choice of Chemotherapy in Platinum-Resistant, Advanced High-Grade Epithelial Ovarian, Primary Peritoneal or Fallopian Tube Cancers** with High Folate Receptor-Alpha (FR α) Expression

Kathleen N. Moore¹, Antoine Angelergues², Gottfried E. Konecny³, Susana Banerjee⁴, Sandro Pignata⁵, Nicoletta Colombo⁶, John Moroney⁷, Casey Cosgrove⁸, Jung-Yun Lee⁹, Andrzej Roszak¹⁰, Shani Breuer¹¹, Jacqueline Tromp¹², Diana Bello Roufai¹³, Lucy Gilbert¹⁴, Rowan Miller¹⁵, Tashanna Myers¹⁶, Yuemei Wang¹⁷, Anna Berkenblit¹⁷, Domenica Lorusso¹⁸, Toon Van Gorp¹⁹

¹Stephenson Cancer Center University of Oklahoma College of Medicine, Oklahoma City, OK, USA; ²Groupe Hospitalier Diaconesses Croix Saint Simon, Paris, France; ³UCLA Jonsson Comprehensive Cancer Center, Los Angeles, CA, USA; ⁴The Royal Marsden NHS Foundation Trust - Royal Marsden Hospital, London, UK; ⁵Istituto Nazionale Tumori- G. Pascale, Naples, Italy; ⁶European Institute of Oncology IRCCS, Milan, Italy and University of Milan-Bicocca, Milan, Italy; ⁷The University of Chicago, Chicago, IL, USA; ⁸The Ohio State University, Columbus, OH, USA; ⁹Severance Hospital, Seoul, South Korea; ¹⁰Wielkopolskie Centrum Onkologii, Poznan, Poland; ¹¹Hadassah Ein Kerem – Sharett, Jerusalem, Israel; ¹²Amsterdam UMC, Amsterdam, The Netherlands; ¹³Hopital Rene Huguenin, Institut Curie, Saint-Cloud, France; ¹⁴McGill University Health Centre, Montreal, Canada; ¹⁵University College London Hospital, London, UK; ¹⁶Baystate Medical Center, Springfield, MA, USA; ¹⁷ ImmunoGen, Inc., Waltham, MA, USA; ¹⁸Fondazione Policlinico Universitario A. Gemelli, IRCCS and Catholic University of Sacred Heart, Rome, Italy; ¹⁹University Hospital Leuven Leuven Cancer Institute, Leuven, Belgium



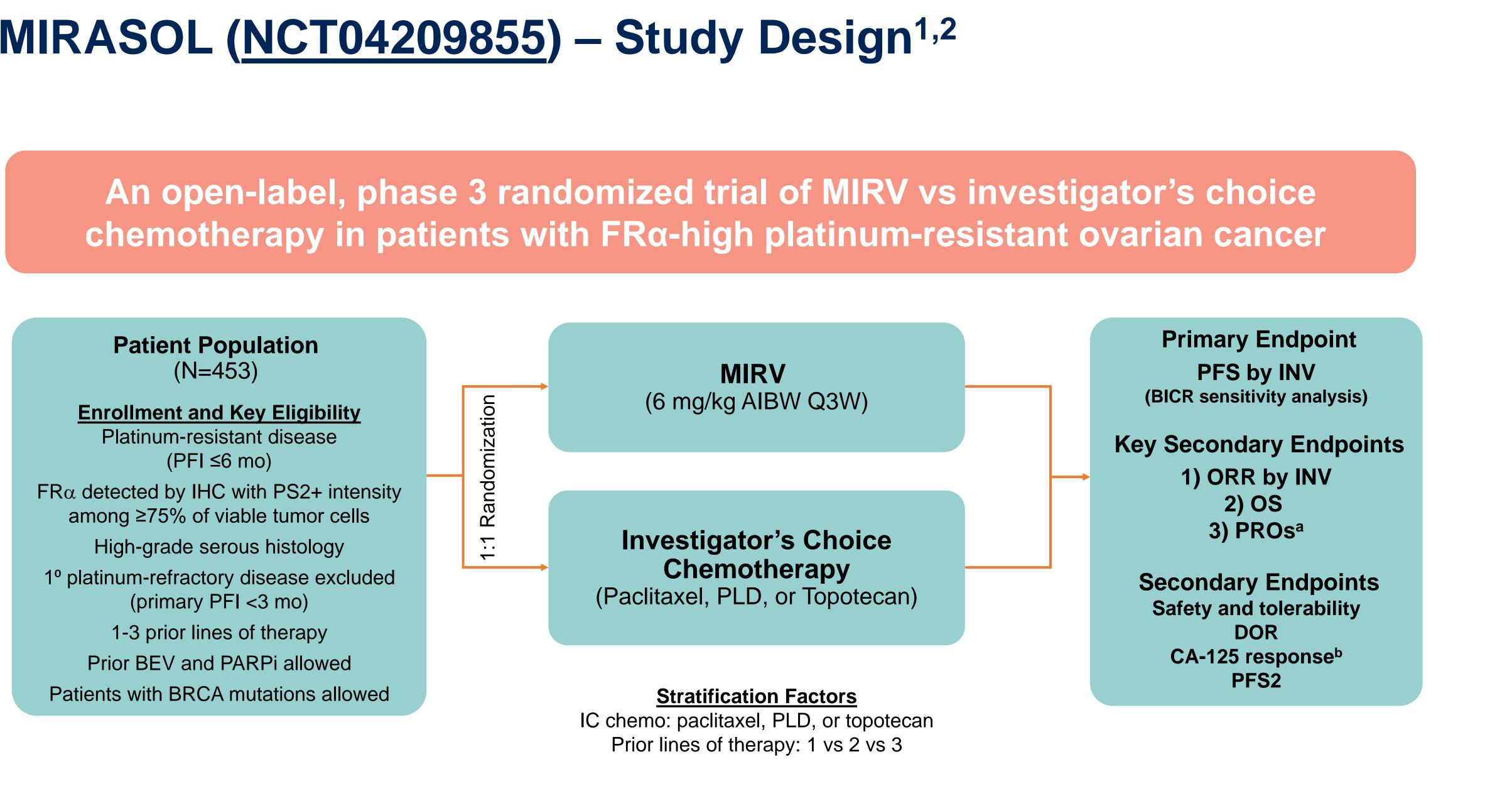


Kathleen Moore, Associate Director of Clinical Research, Stephenson Cancer Center University of Oklahoma College of Medicine

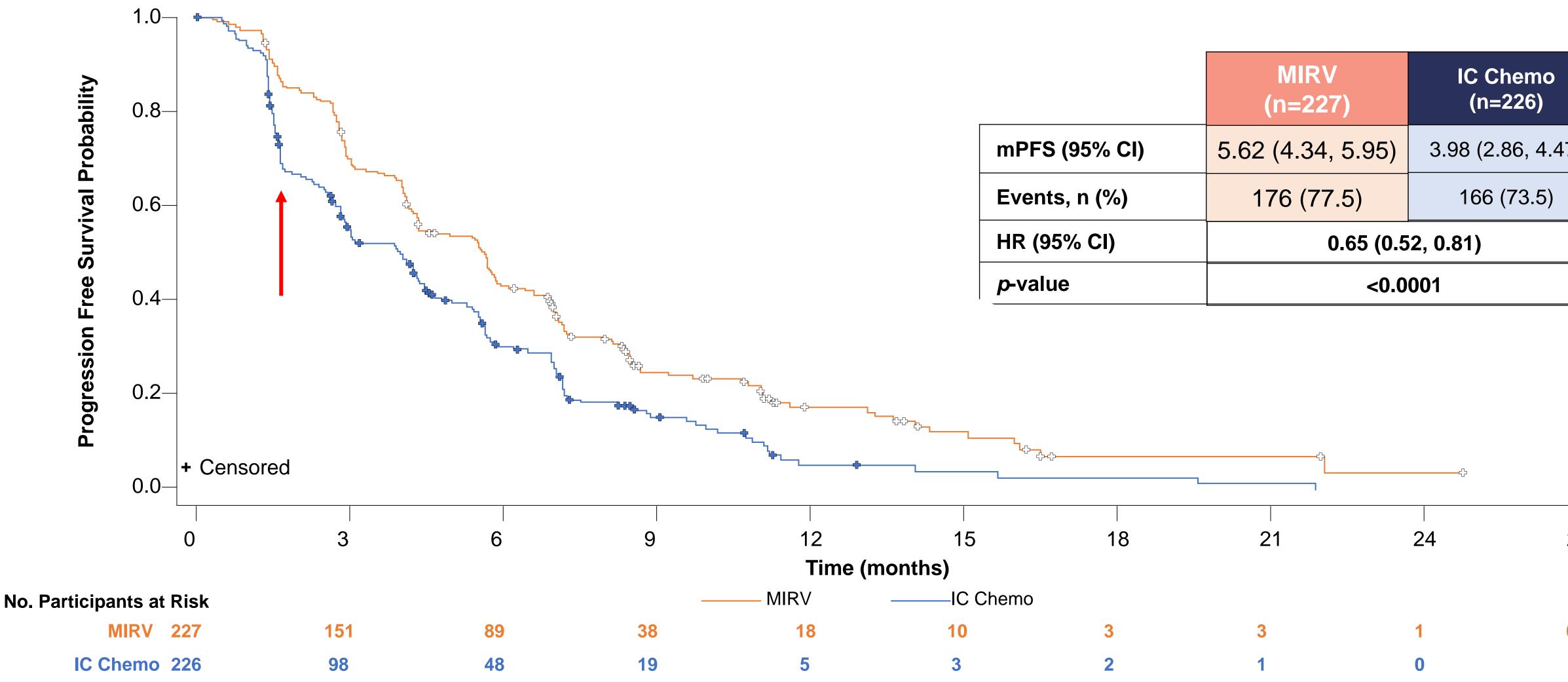


MIRASOL (NCT04209855) – Study Design^{1,2}

An open-label, phase 3 randomized trial of MIRV vs investigator's choice chemotherapy in patients with FR α -high platinum-resistant ovarian cancer



Primary Endpoint: Progression-Free Survival by Investigator



Data cutoff: March 6, 2023

MIRV, mirvetuximab soravtansine; IC Chemo, investigator's choice chemotherapy; mPFS, median progression-free survival; CI, confidence interval; HR, hazard ratio.

Kathleen Moore, Associate Director of Clinical Research, Stephenson Cancer Center University of Oklahoma College of Medicine

	MIRV (n=227)	IC Chemo (n=226)		
mPFS (95% CI)	5.62 (4.34, 5.95)	3.98 (2.86, 4.47		
Events, n (%)	176 (77.5)	166 (73.5)		
HR (95% CI)	0.65 (0.52, 0.81)			
<i>p</i> -value	<0.0001			



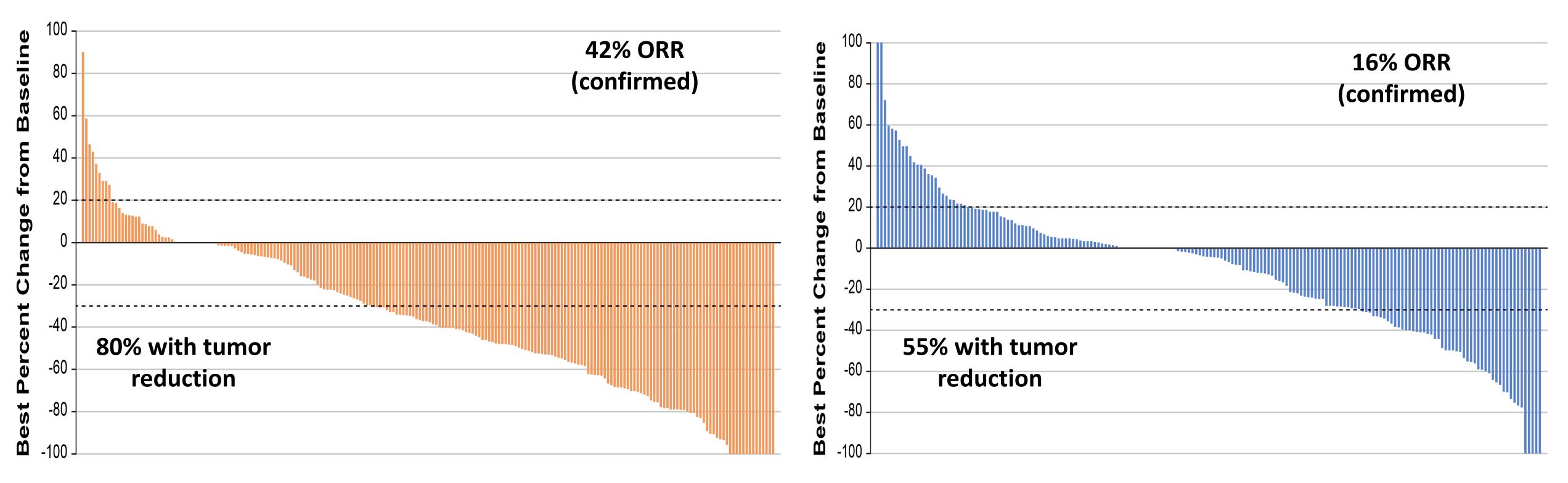




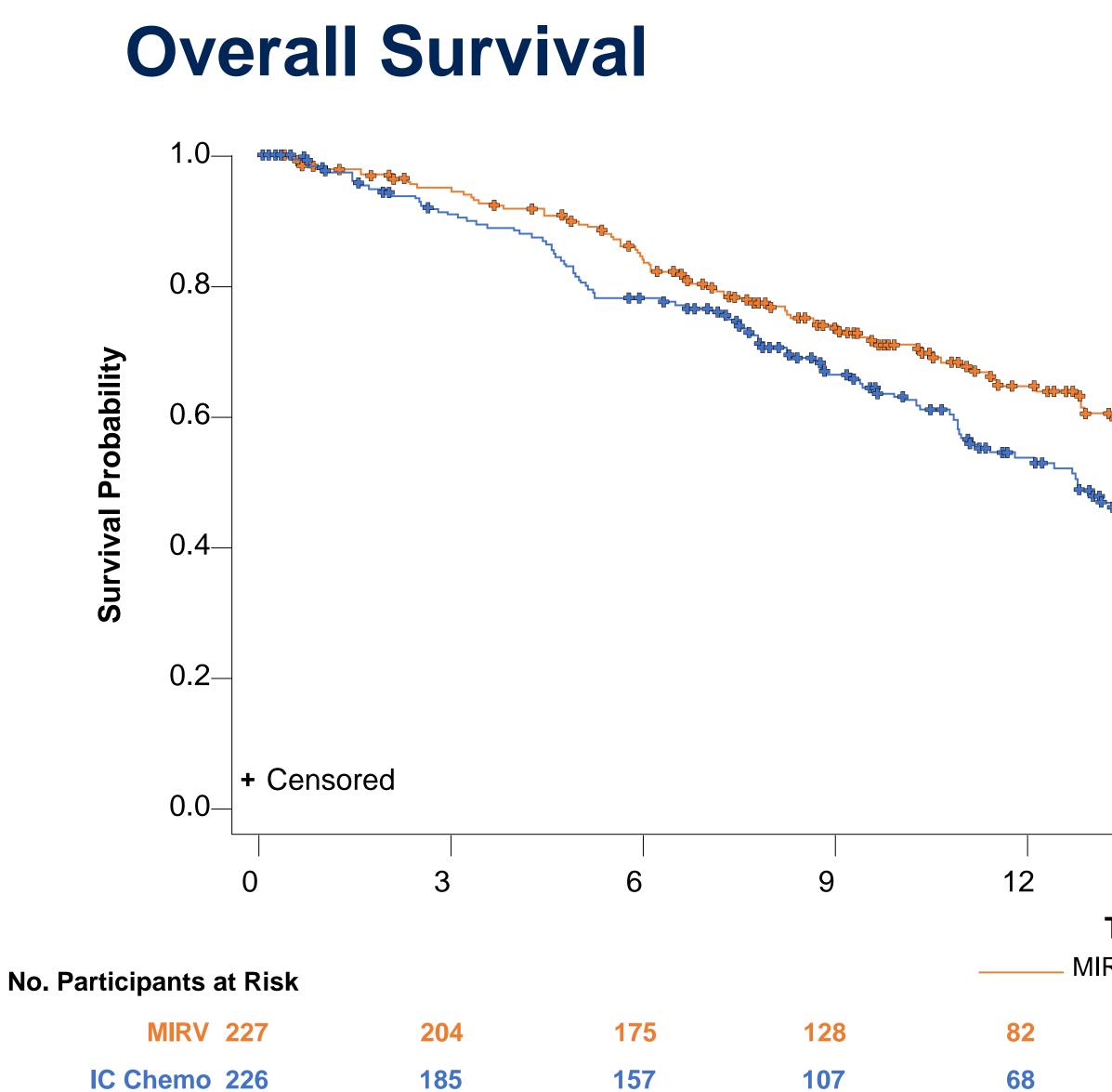


Maximum Percentage Change in Target Lesion Size from Baseline by Investigator (N=453)

MIRV



IC Chemo



Data cutoff: March 6, 2023; median follow-up time: 13.11 months

MIRV, mirvetuximab soravtansine; IC Chemo, investigator's choice chemotherapy; mOS, median overall survival; CI, confidence interval; HR, hazard ratio. ^aOverall survival is statistically significant based on pre-specified boundary p-value at interim analysis = 0.01313

Kathleen Moore, Associate Director of Clinical Research, Stephenson Cancer Center University of Oklahoma College of Medicine

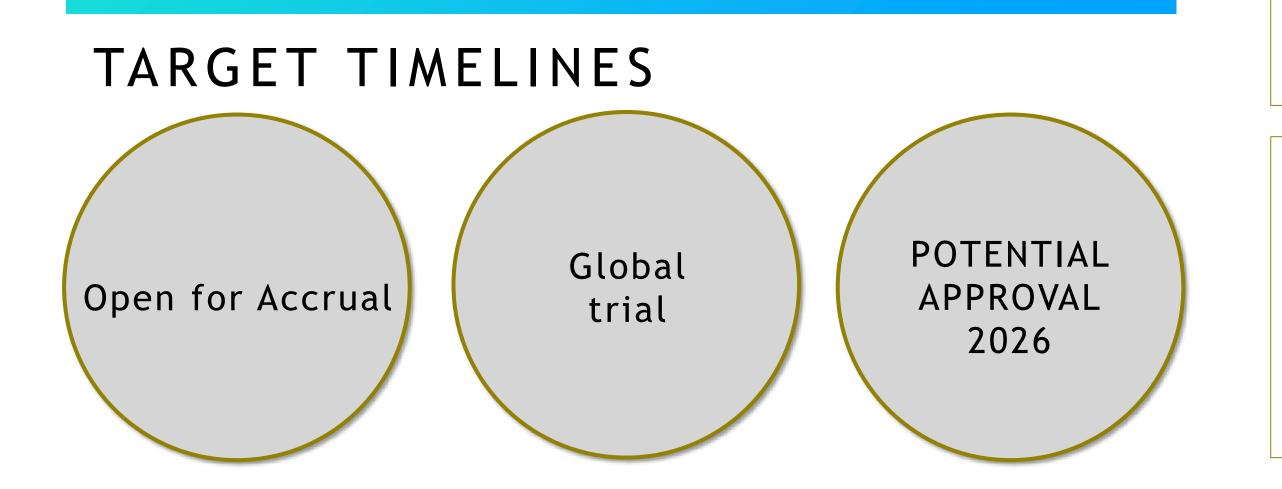
		MIRV (n=227)	IC Chemo (n=226)
	mOS (95% CI)	16.46 (14.46, 24.57)	12.75 (10.91, 14.36)
	Events, n (%)	90 (39.6)	114 (50.4)
	HR (95% CI)	0.67 (0.50, 0.89)	
**************************************	<i>p</i> -value ^a	le ^a 0.0046	

15	18 2	21 24	27 30
Time (months) IRV IC	Chemo		
53	28	15 9	4 0
39	18	9 5	2 0



GLERRICSA

RANDOMIZED PHASE 3 TRIAL FOR MIRVETUXIMAB + **BEVACIZUMAB MAINTENANCE** IN FRa-HIGH PSOC PATIENTS



PFS (progression-free survival); BICR (blinded independent central review); OS (overall survival); CR (complete response); PR (partial response); SD (stable disease); BRCA (BReast CAncer gene); MIRV (mirvetuximab soravtansine); DOR: duration of response; ORR: overall response rate

PRIMARY ENDPOINT

PFS

SECONDARY ENDPOINT OS by BICR

ENROLLMENT AND KEY ELIGIBILITY

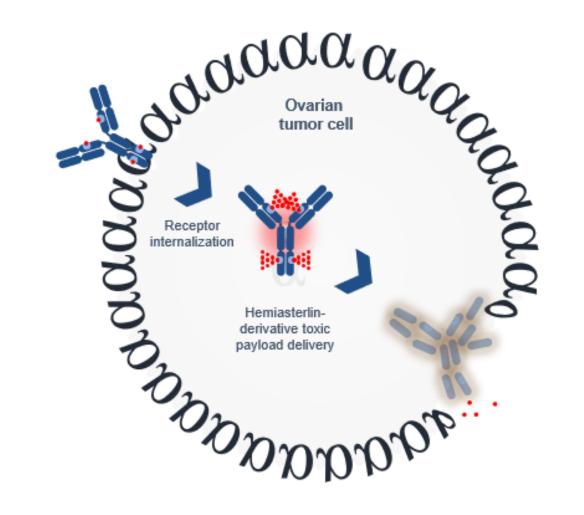
438 patients Platinum-sensitive ovarian cancer 1 prior systemic treatment Prior PARPi required if BRCA+ CR, PR, or SD after treatment with platinum-based doublet + bevacizumab required

PRIOR MIRV EXPERIENCE

Strong MIRV/BEV treatment efficacy and tolerability in > 120 patients FRα high rPSOC, MIRV/BEV has an ORR of 69% and mPFS of 13.3 months

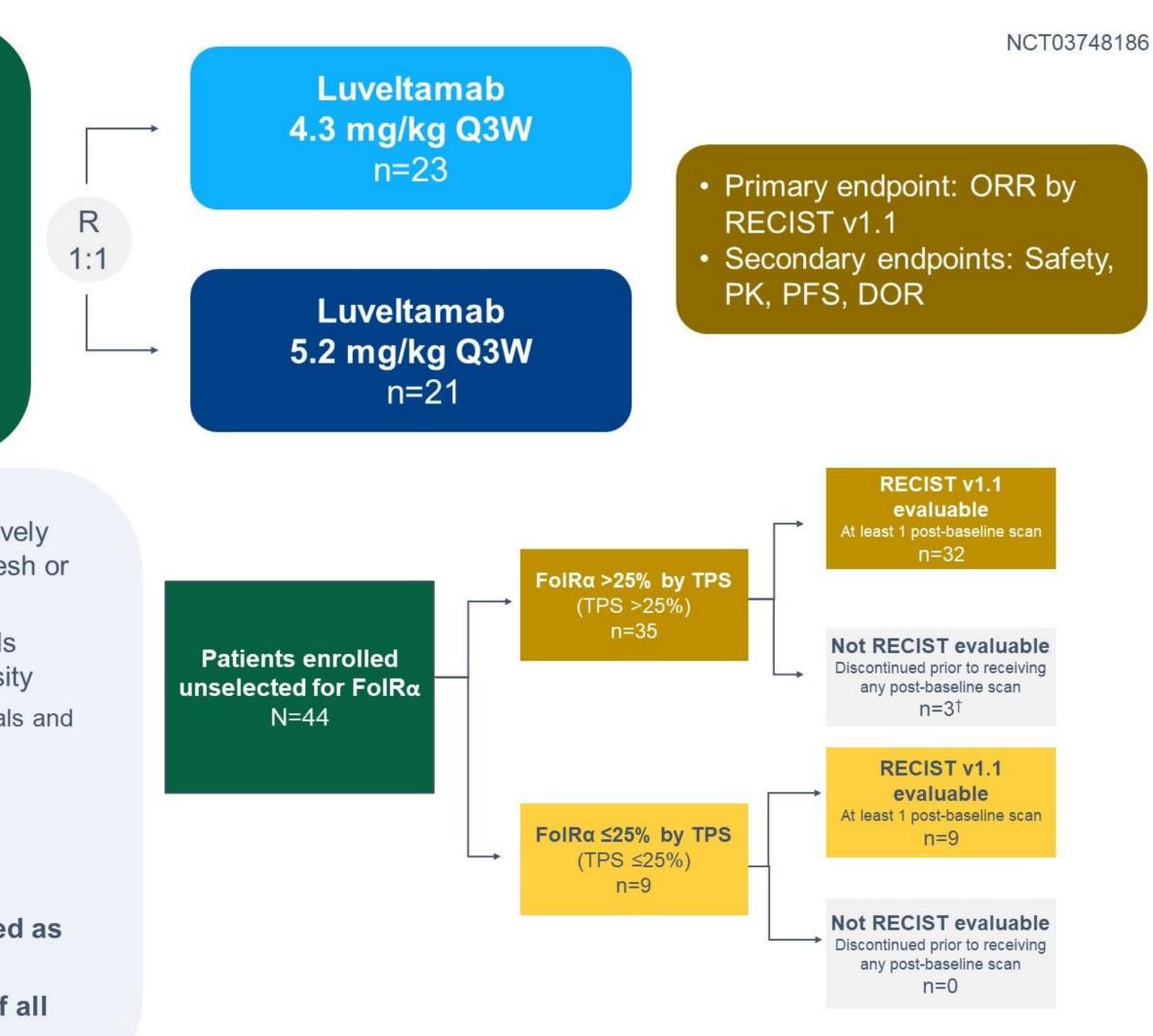


STRO-002-GM1 (Luveltamab Tazevibulin) Phase 1 Dose Expansion Cohort



Luveltamab tazevibulin is a FolRa targeting antibody

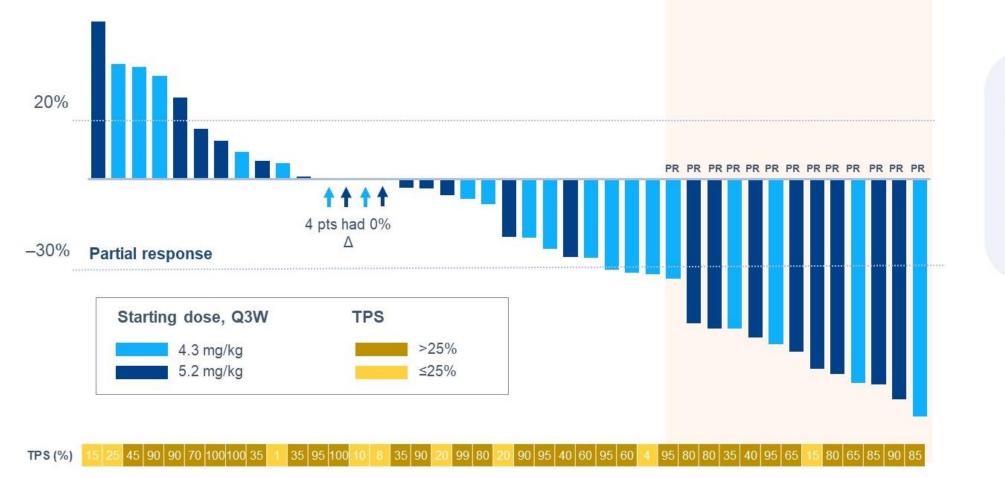
- Recurrent disease
 - Platinum resistant 1–3 prior regimens or platinum-sensitive 2–3 prior regimens
- Fresh or archival tissue required
- No mandate for FolRα expression
- At least 1 target lesion
- FolRα expression retrospectively determined using IHC* on fresh or archival tissue required
- TPS is the percentage of cells stained positive at any intensity
 - Established in multiple approvals and tumor indications
 - Does not require differentiation between staining intensity
 - Simple and straightforward for pathology read
- Enriched population defined as • **TPS >25%**
- TPS >25% in 35/44 (80%) of all enrolled patients





Efficacy

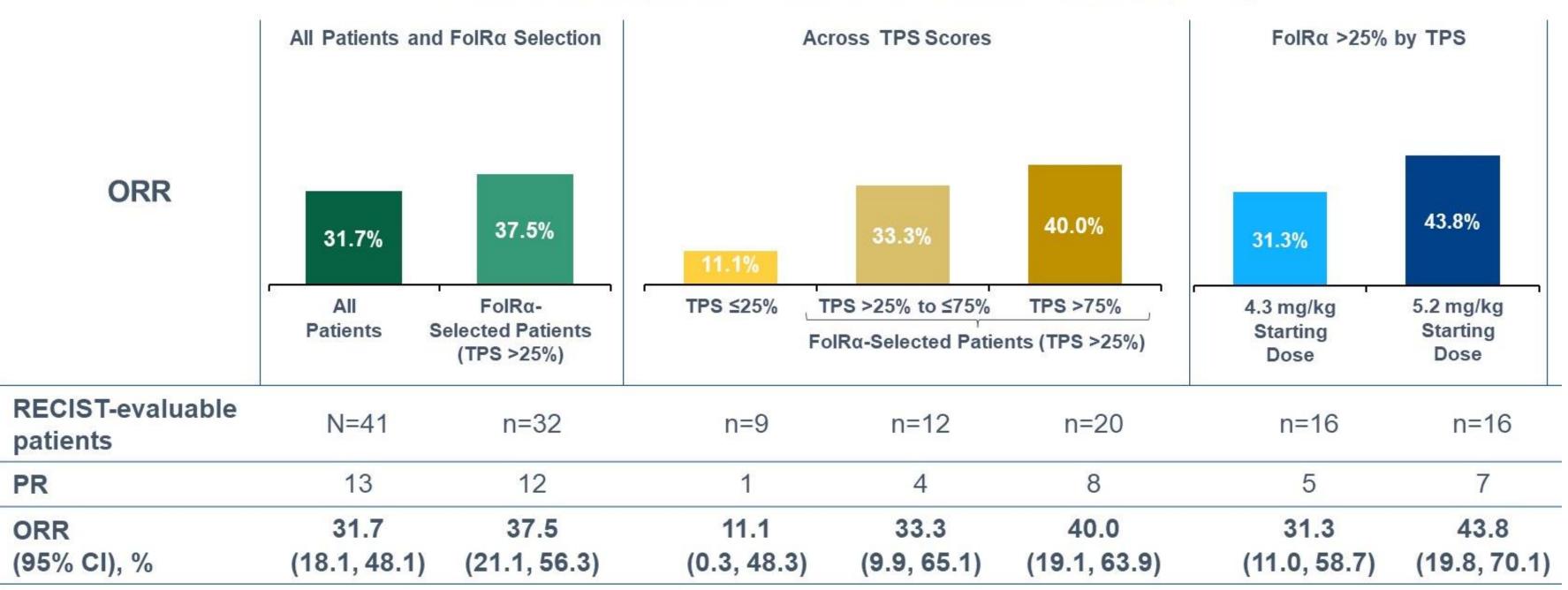
Maximum Reduction in Tumor Target Lesions in RECIST-Evaluable Patients (N=41)

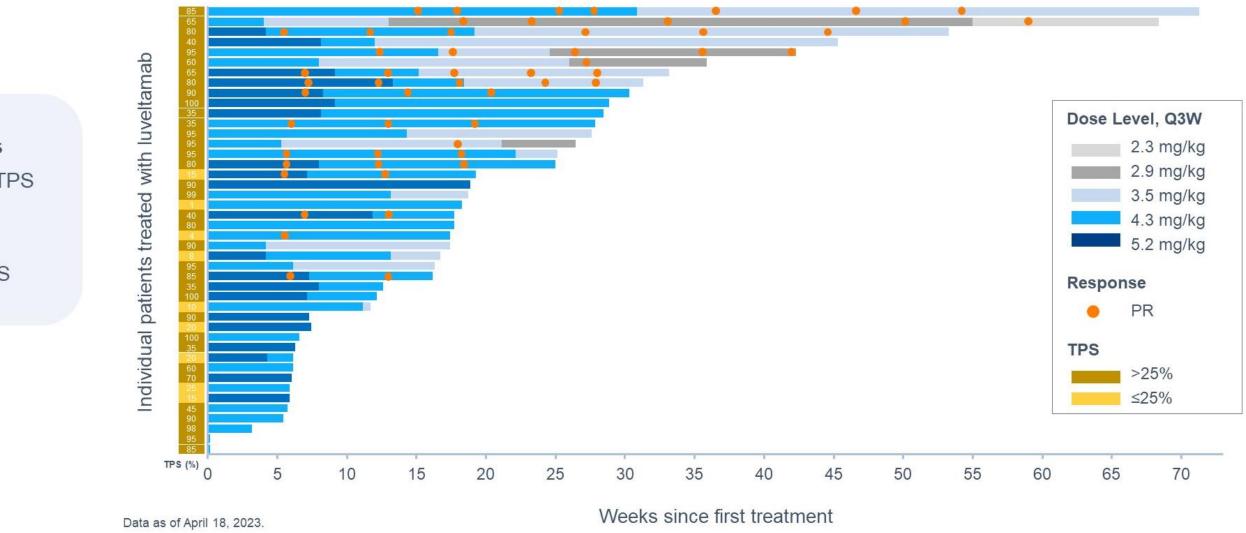


ORR: 31.7% in unselected pts

- 37.5% for FoLRα >25% by TPS Disease control rate: 78% in unselected pts
- 81% for FolR α >25% by TPS

Treatment Response in RECIST-Evaluable Patients (N=41)





Treatment Duration for Patients With at Least 1 Dose (N=44)

A Oaknin, et al. **ASCO 2023**





Efficacy and safety of trastuzumab deruxtecan in patients with HER2-expressing solid tumors: **DESTINY-PanTumor02 interim results**

Funda Meric-Bernstam

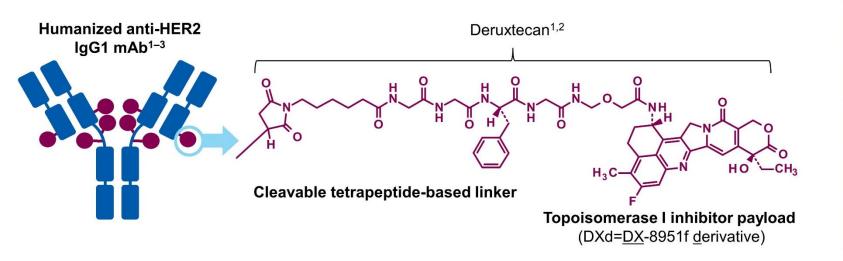
- Advanced solid tumors not eligible for curative therapy
- 2L+ patient population
- HER2 expression (IHC 3+ or 2+)
 - Local test or central test by HercepTest if local test not feasible (ASCO/CAP gastric cancer guidelines¹)^a
- Prior HER2-targeting therapy allowed
- ECOG/WHO PS 0–1

T-DXd 5.4 mg/kg q3w n≈40 per cohort planned (Cohorts with no objective

responses in the first 15 patients were to be closed)

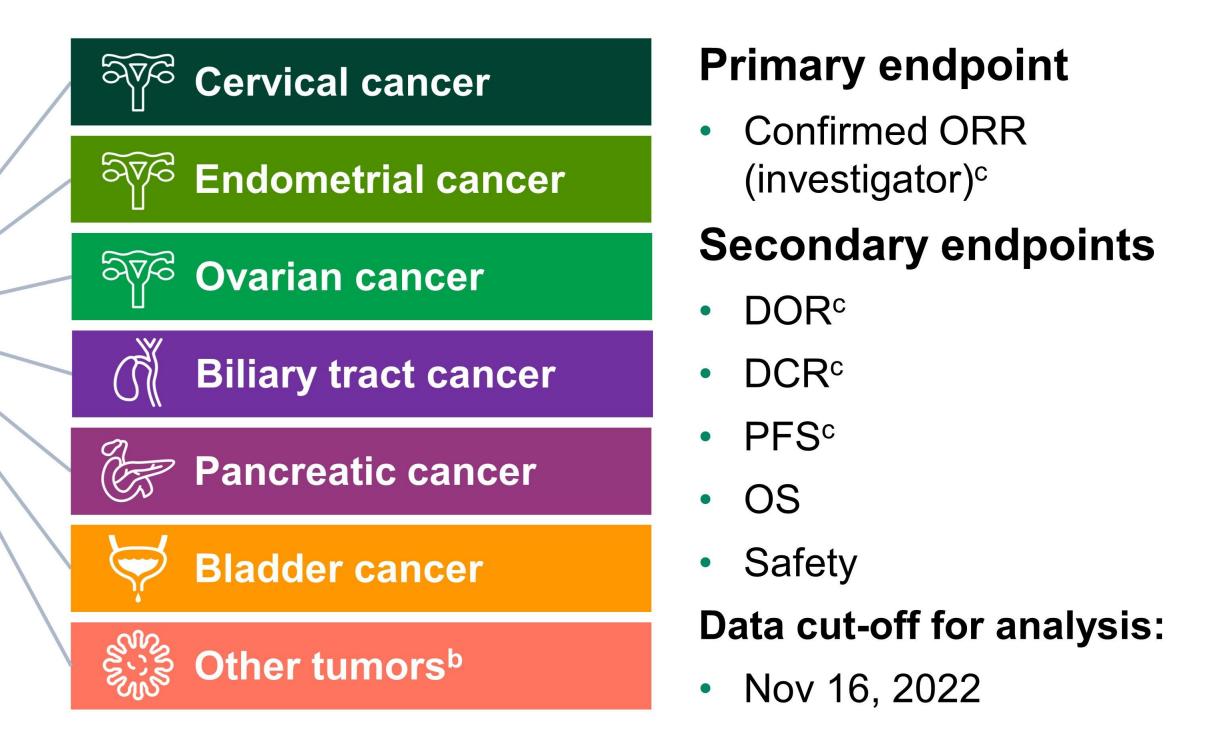
T-DXd is an ADC with three components:

- 1. A humanized anti-HER2 IgG1 mAb with the same amino acid sequence as trastuzumab
- 2. A topoisomerase I inhibitor payload, an exatecan derivative
- 3. A tetrapeptide-based cleavable linker



The clinical relevance of these features is under investigation

ADC, antibody-drug conjugate; HER2, human epidermal growth factor receptor 2; IgG1, immunoglobulin G1; mAb, monoclonal antibody; T-DXd, trastuzumab deruxteca 1. Nakada T, et al. Chem Pharm Bull (Tokyo). 2019;67(3):173–185. 2. Ogitani Y, et al. Clin Cancer Res. 2016;22(20):5097–5108. 3. Trail PA, et al. Pharmacol Ther. 2018;181:126–142 noto H, et al. Xenobiotica. 2020;50(10):1242–1250. 5. Nagai Y, et al. Xenobiotica. 2019;49(9):1086–1096



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Seven Key Attributes^{a,1–5}

Payload mechanism of action: topoisomerase I inhibitor

High potency of payload

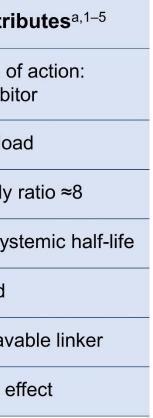
High drug-to-antibody ratio ≈8

Payload with short systemic half-life

Stable linker payload

Tumor-selective cleavable linker

Bystander antitumor effect



Efficacy					
		- J	Cervical (n=40)	Endometrial (n=40)	Ov (n
	Investigator as	ssessment			
	ORR, n (%)		20 (50.0)	23 (57.5)	18
		Complete response	2 (5.0)	7 (17.5)	4 (
	Best overall	Partial response	18 (45.0)	16 (40.0)	14
	response, n (%)	Stable disease	12 (30.0)	13 (32.5)	14
		PD	7 (17.5)	4 (10.0)	7 (
		Not evaluable	1 (2.5)	0	1
	DCR ^a at 12 we	eeks, n (%)	27 (67.5)	32 (80.0)	28
	Median DOR,	months (95% CI)	9.8 (4.2–NE)	NR (9.9–NE)	1 (4.1
	Independent central review: ORR, n (%)		16 (40.0)	21 (52.5)	17

Median DOR, months (95% CI)

#ASCO23

All patients (N=99)

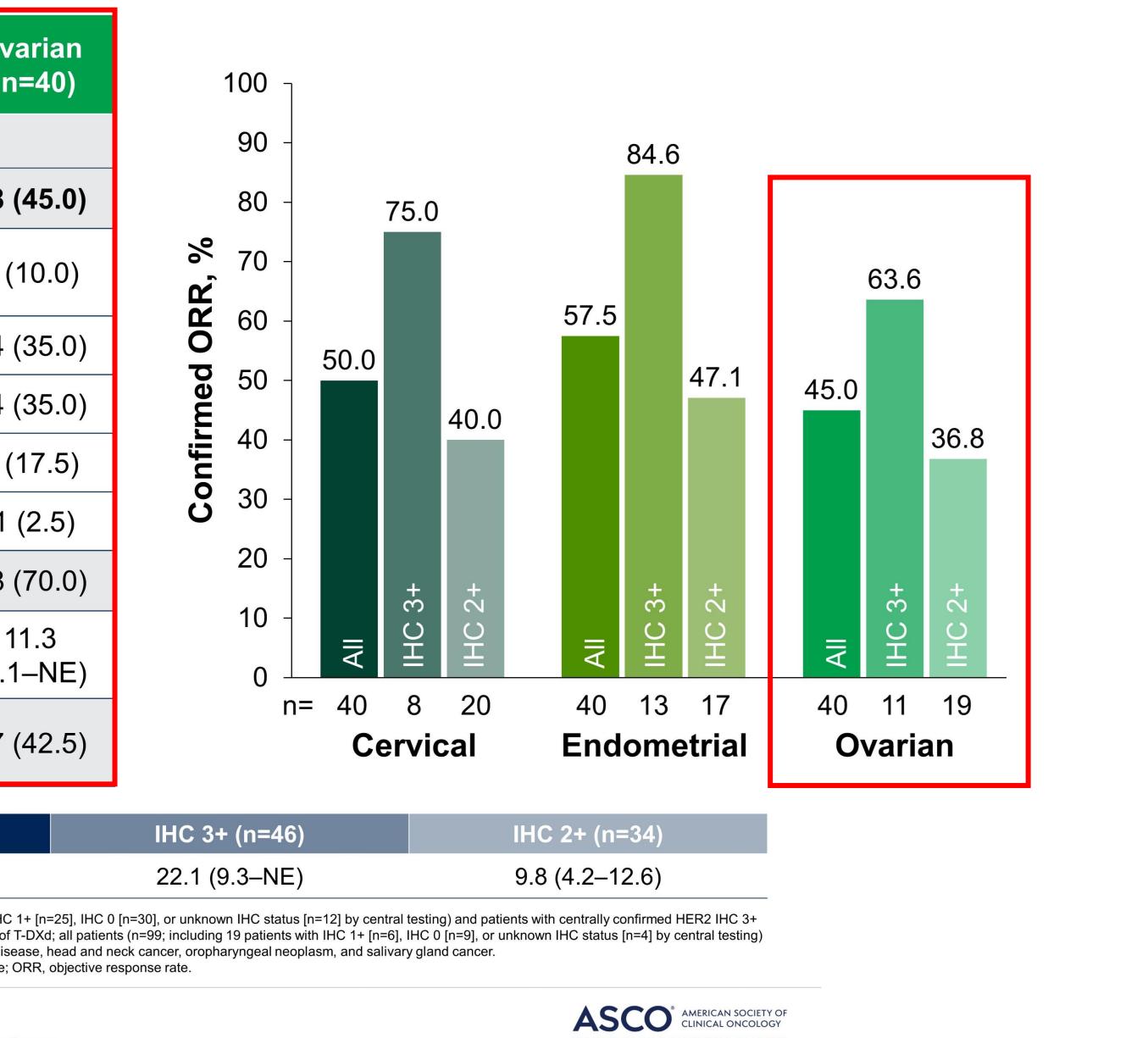
11.8 (9.8-NE)

Analysis of ORR was performed in patients who received ≥1 dose of T-DXd; all patients (n=267; including 67 patients with IHC 1+ [n=25], IHC 0 [n=30], or unknown IHC status [n=12] by central testing) and patients with centrally confirmed HER2 IHC 3+ (n=75) or IHC 2+ (n=125) status. Analysis of DOR was performed in patients with objective response who received >1 dose of T-DXd; all patients (n=99; including 19 patients with IHC 1+ [n=6], IHC 0 [n=9], or unknown IHC status [n=4] by central testing) and patients with centrally confirmed HER2 IHC 3+ (n=46) or IHC 2+ (n=34) status. aResponses in extramammary Paget's disease, head and neck cancer, oropharyngeal neoplasm, and salivary gland cancer. BTC, biliary tract cancer; CI, confidence interval; DOR, duration of response; IHC, immunohistochemistry; NE, non-estimable; ORR, objective response rate.



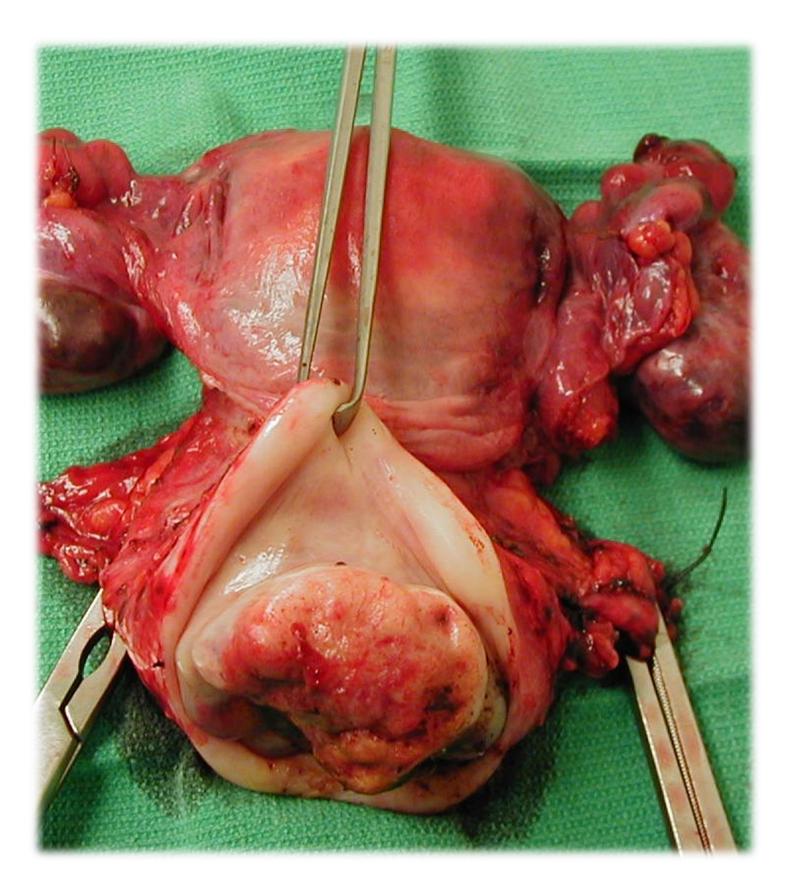
PRESENTED BY: Funda Meric-Bernstam, MD

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Innovations in Cervix Cancer Management



- Used to treat cervical cancers with invasion >3 mm but confined to the cervix and vagina <4 cm (stage IA2-IB2)
- Removal of parametrium and upper vagina

Are we too radical?



Parametrial Invasion A "low-risk" group?

Series	Year	Stage	Tumor size (cm)	DOI (mm)	(-) LVSI	(-) PLN	N	N (+) parametria	% (+) parametria
Kinney	1995	IA2 - IB1	<=2		Х		83	0	0
Covens	2002	IA1(LVSI) - IB1	<=2	<=10		Х	536	3	0.6
Wright	2007	IA1(LVSI) - IB1	<2		Х	Х	270	1	0.4
Frumovitz	2009	IA1(LVSI) - IB1	<2		Х		125	0	0
Kim	2010	IB1	<=4	<=5			140	0	0
Klat	2012	IA2-IB1	<2	any	any	Х	63	0	0
Gemer	2013	I-IIA	<=2	any	Х	Х	107	0	0
Total							1324	4	0.3

Acceptable Alternatives for Stage IA2 and IB1 Cervical Cancer

- Radical trachelectomy (or cone) and nodes (Fertility sparing)
- Intracavitary brachytherapy and pelvic RT + chemo
- Simple hysterectomy and nodes?
- Laparoscopic radical hysterectomy and nodes?
- Robotic radical hysterectomy and nodes?

National Cancer Institute.

CONCERV Trial *"Low-risk" Stage IA2-IB1*

Prospective

2009-2019

IA2-IB1 cervical SCC/Adeno

Tumor <2cm

DOI <10mm; No LVSI

Cone with negative margins

Fertility desiring: PLND (n=44) Not desiring fertility: Simple hyst + PLND (n=56)

Schmeler K, et al. IJGC 2021

N=100 MIS approach: 96 (96%) Residual in hyst: 1/56 (1.8%) Med F/U=36 months

5% positive nodes 2-year recurrence rate : 3.5%





SHAPE Trial Schema

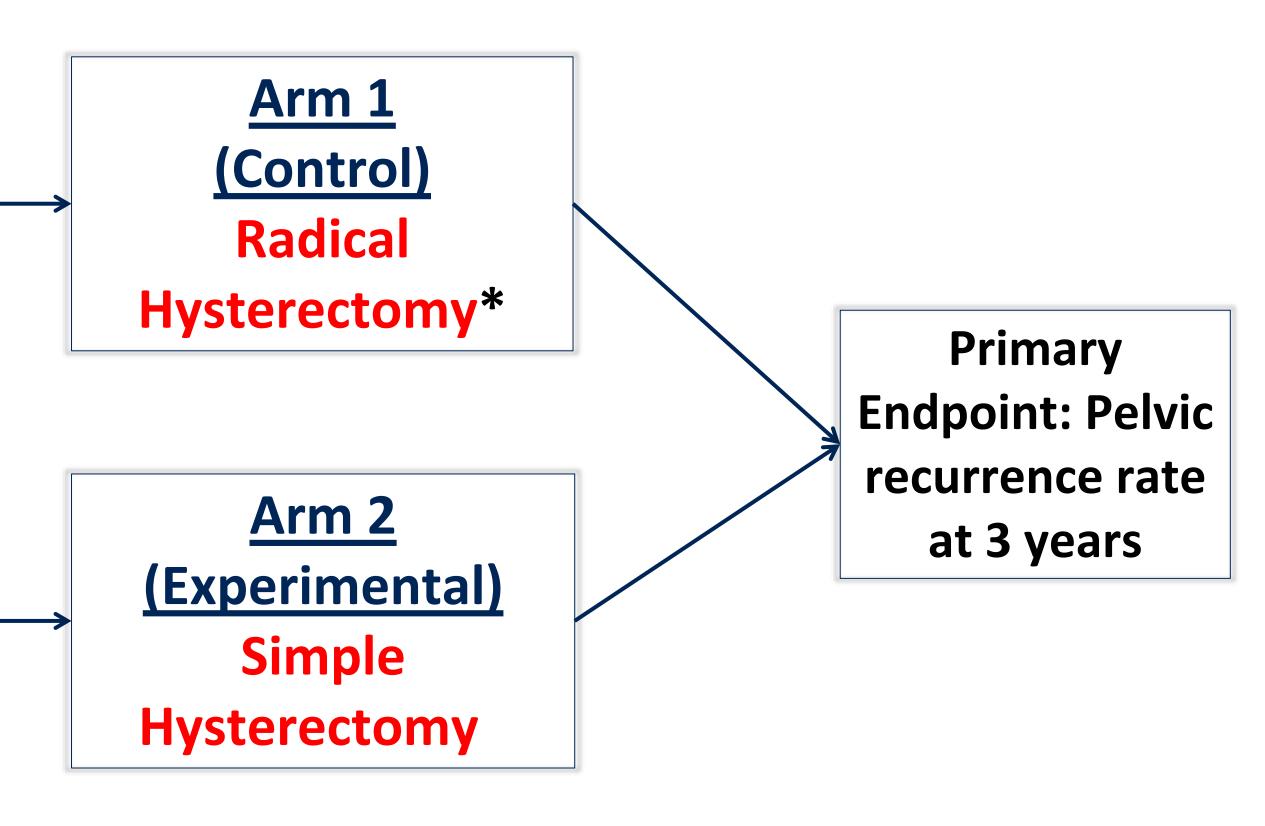
RANDOMIZE

1:1

Low-risk cervical cancer as defined by:

- Stage IA2 and IB1
- < 10 mm stromal invasion on LEEP/cone
- < 50% stromal invasion on MRI \bullet
- Max dimension of ≤ 20 mm •
- Grade 1-3 or not assessable

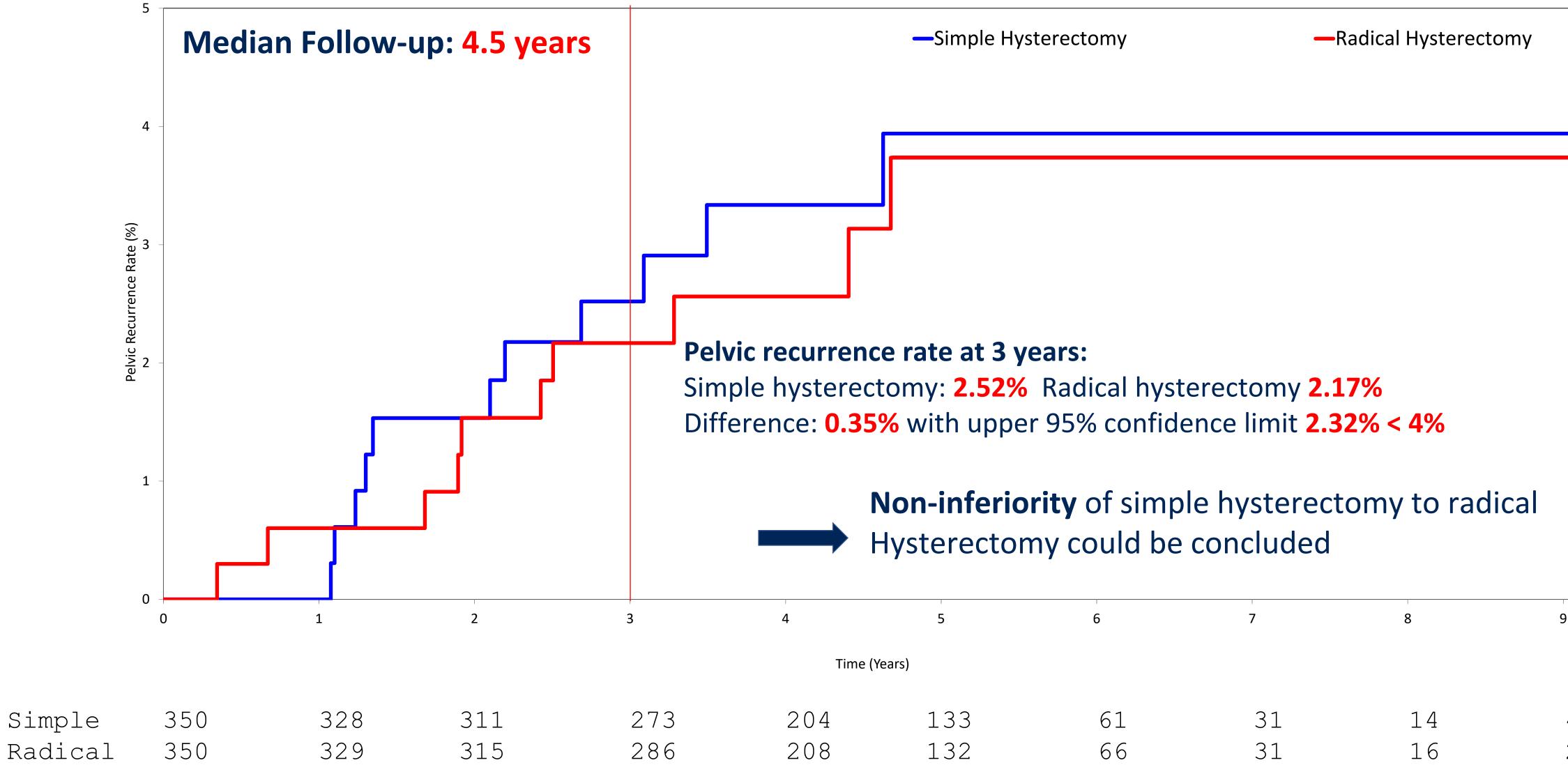
*Regardless of treatment assignment, surgery will include pelvic lymph node dissection with optional sentinel lymph node (SN) mapping. If SN mapping is to be done, the mode is optional, but the laparoscopic approach is preferred



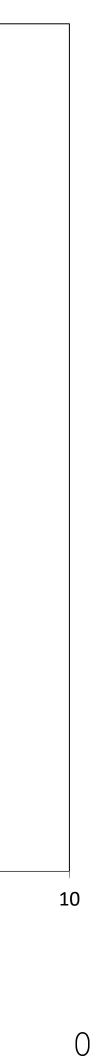
Secondary Endpoints

- •Pelvic relapse free survival (PRFS)
- •Extra pelvic relapse free survival (EPRFS)
- •Relapse free survival (RFS)
- •Overall Survival (OS)
- •Rates of sentinel node detection, parametrial involvement, involved surgical margins, positive pelvic nodes
- •Patient reported outcomes

Pelvic Recurrence Rate (ITT)



	5	6	7	8	9
Time (Years)					
	133	61	31	14	4
	132	66	31	16	2





LACC Trial Primary outcome

Α				
Population	Disease-free Survival R	Rate at 4.5 Yr (95%	S CI)	C
	Minimally Invasive Surgery	Open Surgery		
	perce	ent		
Intention-to-treat population	n 86.0 (79.7–90.4)	96.5 (92.7–98.4)		
Per-protocol population	87.1 (81.0–91.3)	97.6 (94.1–99.0)	-20	-10
				Open Surge Better

Median F/U = 2.5 *years (0-6.3)*

Information at 4.5 years = 59.7% of the cases

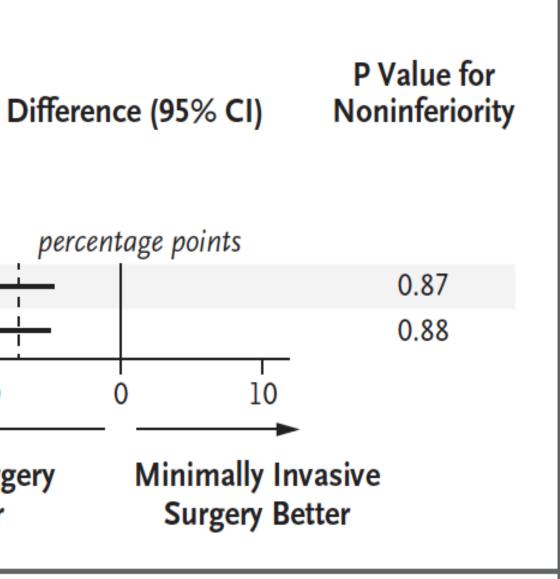
Final power = 84%

Ramirez PT, et al. N Engl J Med 2018;379:1895-1904

ORIGINAL ARTICLE

Minimally Invasive versus Abdominal Radical Hysterectomy for Cervical Cancer

Pedro T. Ramirez, M.D., Michael Frumovitz, M.D., Rene Pareja, M.D., Aldo Lopez, M.D., Marcelo Vieira, M.D., Reitan Ribeiro, M.D., Alessandro Buda, M.D., Xiaojian Yan, M.D., Yao Shuzhong, M.D., Naven Chetty, M.D., David Isla, M.D., Mariano Tamura, M.D., Tao Zhu, M.D., Kristy P. Robledo, Ph.D., Val Gebski, M.Stat., Rebecca Asher, M.Sc., Vanessa Behan, B.S.N., James L. Nicklin, M.D., Robert L. Coleman, M.D., and Andreas Obermair, M.D.

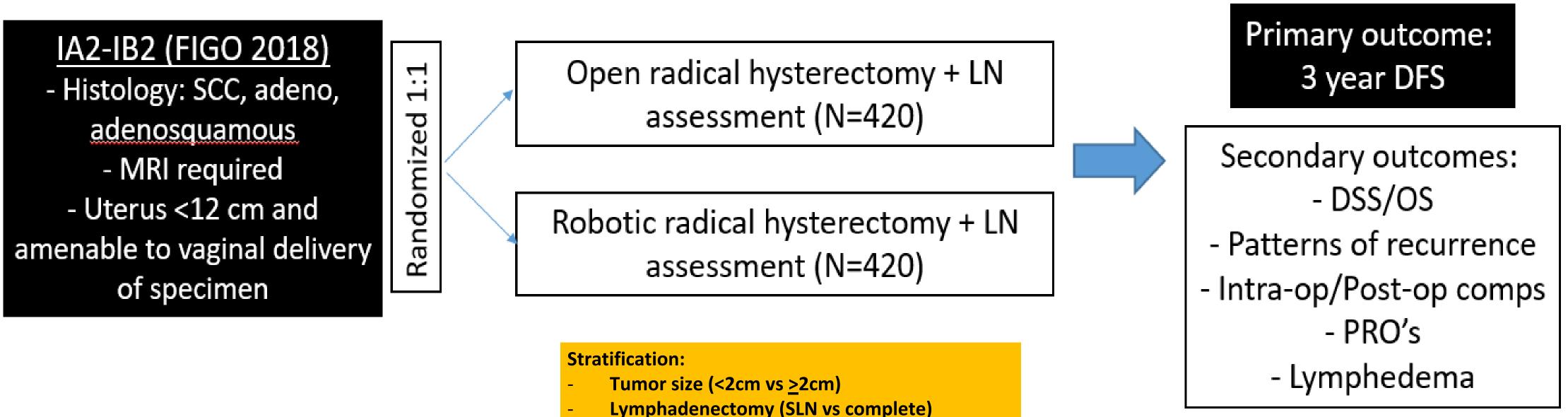


Disease-free survival at 4.5 years was lower with minimally invasive surgery - 86% vs 96.5%









GOG-3043/ROCC

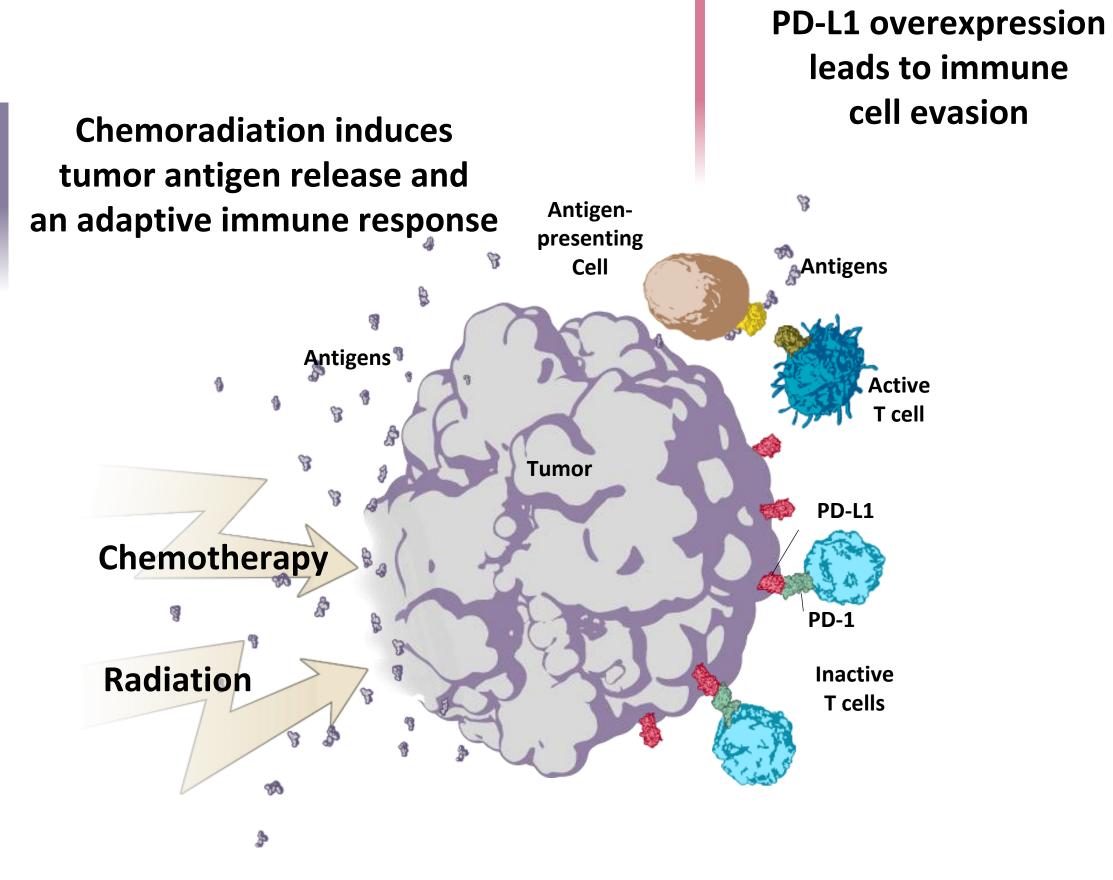
A Randomized Controlled Trial of Robotic versus Open Radical Hysterectomy for Early-Stage Cervical Cancer

Primary Endpoint = DFS PI: Bixel, K, Leitao, M, Randall L



Checkpoint Inhibitor (Cpi) Mechanism of Action with Chemoradiation

CHEMORADIATION

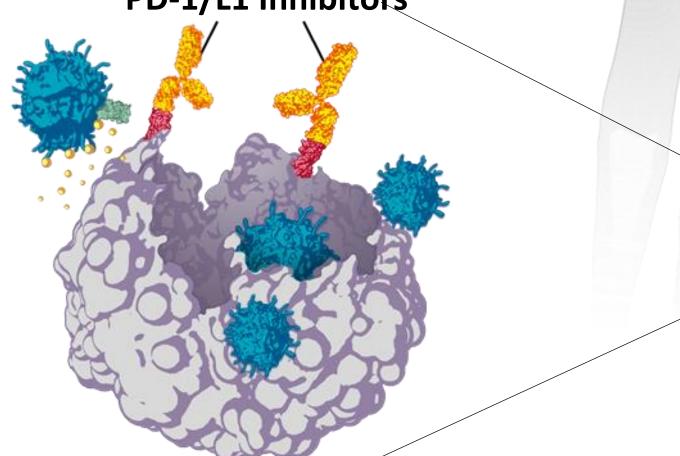


Deng L, et al. J Clin Invest. 2014;124:687-695; Dovedi SJ, et al. Cancer Res. 2014;74:5458-5468; Chacon JA, et al. Vaccines (Basel). 2016;4:E43; Formenti SC, Demaria S. J Natl Cancer Inst. 2013;105:256-265; Funaki S, et al. Oncol Rep. 2017;38:2277-2284; Antonia SJ, et al. N Engl J Med. 2017;377:1919-1929.

CHECKPOINT INHIBITOR

Cpi reverses immune suppression and leads to a systemic antitumor response

PD-1/L1 Inhibitors





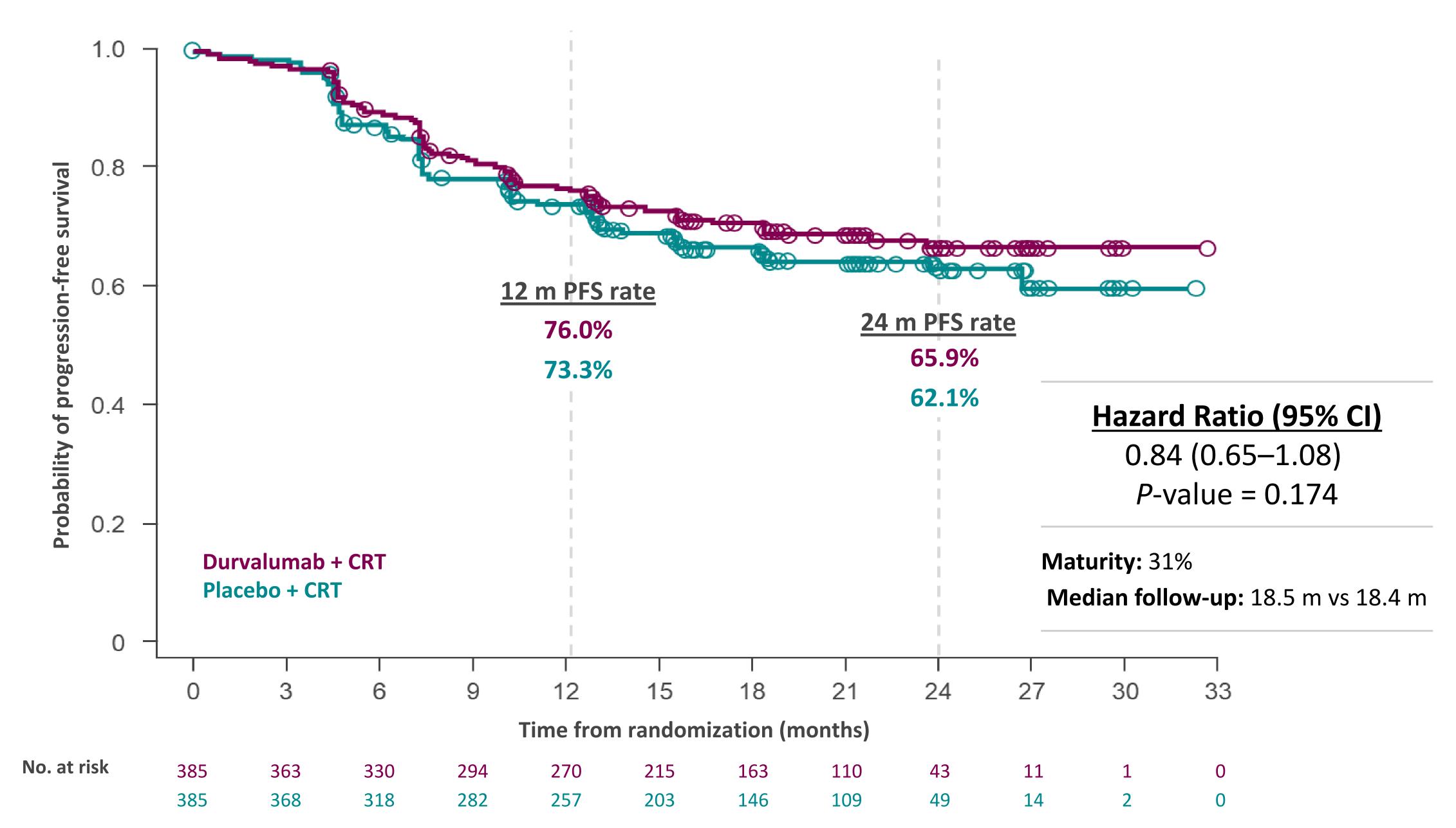
Randomized Phase III ICI Trials in the Locally-advanced Setting

Frontline ICI trial	Population	Agent (n)	Design	Primar endpoint
CALLA (NCT03830866)	 FIGO 2009 IB2-IIB node+ IIIA-IVA any nodal status Measurable RECIST v1.1 ECOG PS: 0-1 	Durva (714)	2 arm 1:1 CRT control 24 months	•PFS
ENGOT cx11/GOG 3047/ KEYNOTE-A18 (NCT04221945)	 •FIGO 2009 IB2-IIB node+ •IIIA-IVA any nodal status •Measurable RECIST v1.1 •ECOG PS: 0-1 	Pembro (980)	2 arm 1:1 CRT control 24 months	•PFS •OS

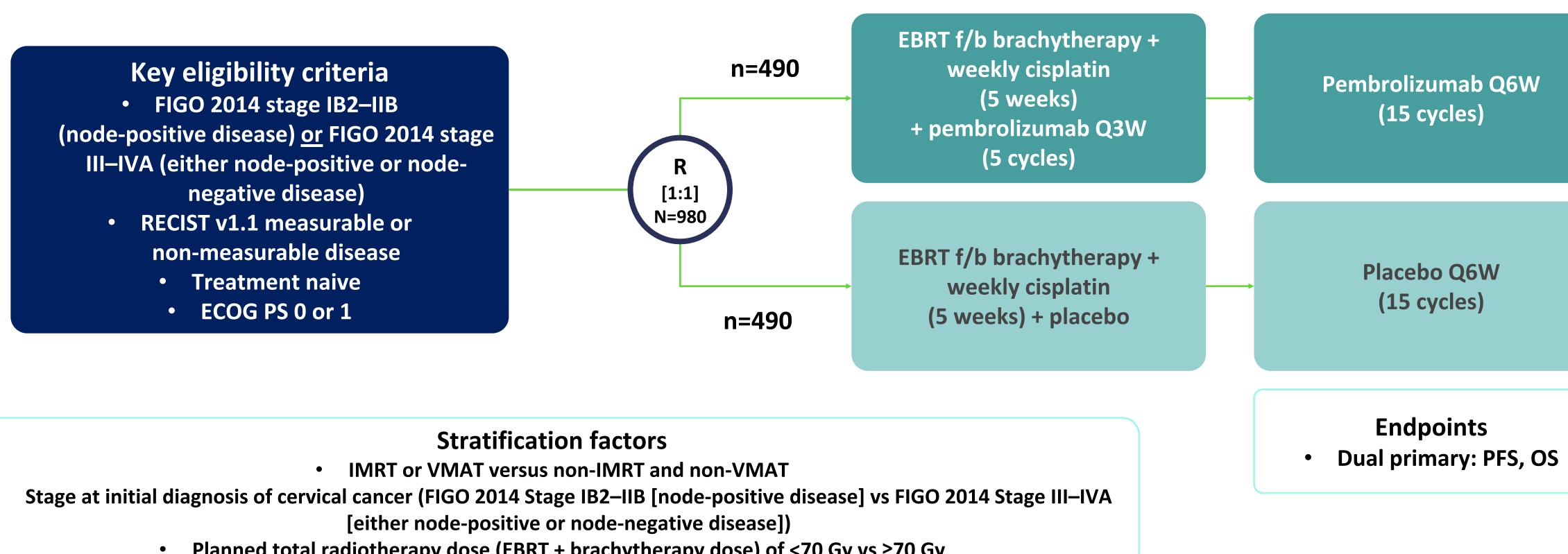
CRT, chemoradiotherapy; durva, durvalumab; ECOG PS, Eastern Cooperative Oncology Group performance status; FIGO, International Federation of Gynecology and Obstetrics; ICI, immune checkpoint inhibitor; OS, overall survival; pembro, pembrolizumab; RECIST, Response Evaluation Criteria in Solid Tumours



CALLA: Primary Endpoint: Progression-Free Survival



ENGOT-CX11/GOG 3047/KEYNOTE-A18



ullet

Planned total radiotherapy dose (EBRT + brachytherapy dose) of <70 Gy vs ≥70 Gy



ENGOT-CX11/GOG 3047/KEYNOTE-A18

Merck Announces Phase 3 KEYNOTE-A18 Trial Met Primary Endpoint of Progression-Free Survival (PFS) in Patients With Newly Diagnosed High-Risk Locally Advanced Cervical Cancer

July 19, 2023 6:45 am ET

KEYTRUDA[®] (pembrolizumab) plus concurrent chemoradiotherapy demonstrated statistically significant and clinically meaningful improvement in PFS versus concurrent chemoradiotherapy alone in these patients

⊍ Save

KEYNOTE-826: Randomized, Double-Blind, Phase 3 Study

Key Eligibility Criteria

- Persistent, recurrent, or metastatic cervical cancer not amenable to curative treatment
- No prior systemic chemotherapy (prior radiotherapy and chemoradiotherapy permitted)
- ECOG PS 0 or 1

Stratification Factors

- Metastatic disease at diagnosis (yes vs no)
- PD-L1 CPS (<1 vs 1 to <10 vs ≥10)
- Planned bevacizumab use (yes vs no)

^aPaclitaxel: 175 mg/m². Cisplatin: cisplatin 50 mg/m². Carboplatin: AUC 5 mg/mL/min. The 6-cycle limit was introduced with protocol amendment 2, although participants with ongoing clinical benefit who were tolerating chemotherapy could continue beyond 6 cycles after sponsor consultation. CPS, combined positive score (number of PD-L1-staining cells [tumor cells, lymphocytes, macrophages] divided by the total number of viable tumor cells, multiplied by 100). KEYNOTE-826 ClinicalTrials.gov identifier, NCT03635567.

R

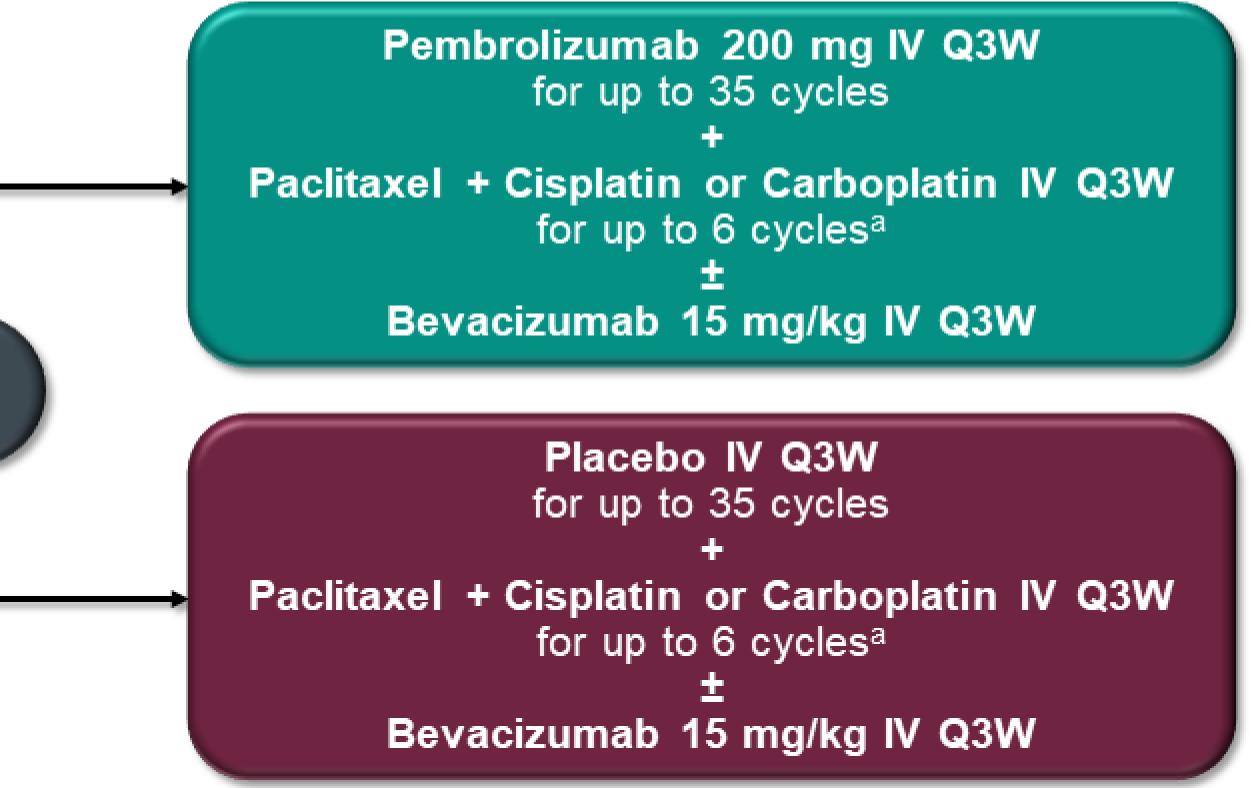
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PRESENTED BY: Bradley J. Monk, MD, FACS, FACOG - abstract #5500

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End Points

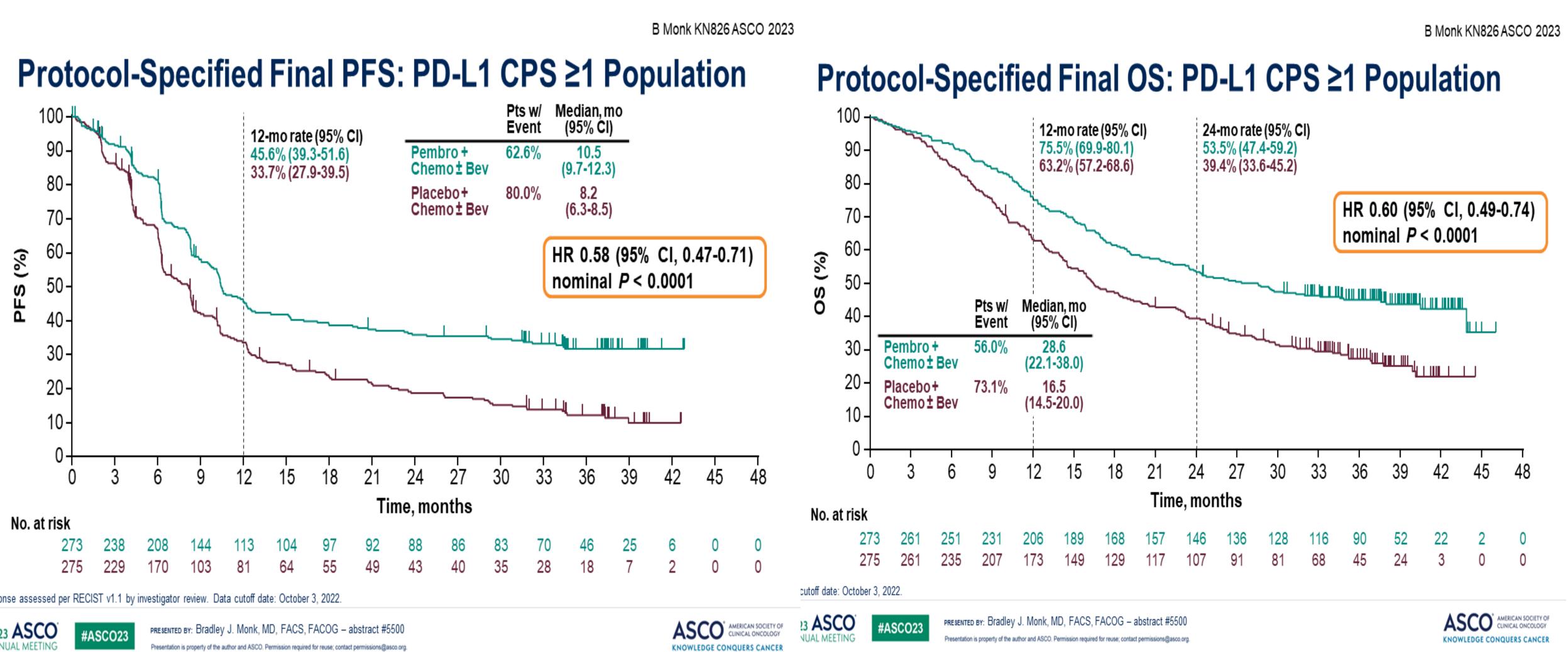
- Dual primary: OS and PFS per RECIST v1.1 by investigator
- Secondary: ORR, DOR, 12-mo PFS, and safety



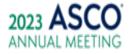


AMERICAN SOCIETY OF CLINICAL ONCOLOGY





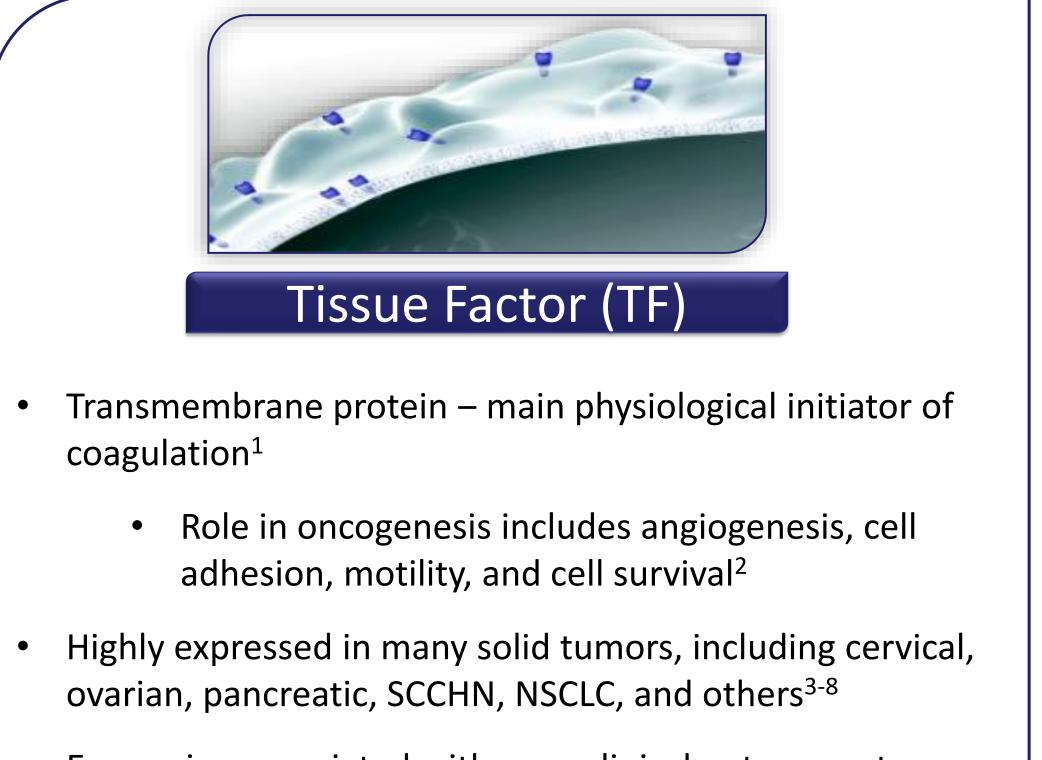
Response assessed per RECIST v1.1 by investigator review. Data cutoff date: October 3, 2022





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Tisotumab Vedotin



Expression associated with poor clinical outcomes, tumor \bullet initiation, progression, angiogenesis, and metastasis²

Fully human mAb

Targets tissue factor

Linker

Protease-cleavable val-citrulline maleimidocaproyl linker Conjugated to monoclonal antibody via cysteine residues

Cytotoxic payload

Monomethyl auristatin E (MMAE), a microtubule-disrupting agent Drug-to-antibody ratio of approximately 4:1

The human anti-TF antibody of TV inhibits tumor proliferation pathways with minimal impact on clotting cascade

Drug: Antibody ~ 4

Coleman, R. L., Lorusso, D., Gennigens, C., González-Martín, A., Randall, L., Cibula, D., ... & Bhatia, S. (2021). Efficacy and safety of tisotumab vedotin in previously treated recurrent or metastatic cervical cancer (innovaTV 204/GOG-3023/ENGOT-cx6): a multicentre, open-label, single-arm, phase 2 study. The Lancet Oncology, 22(5), 609-619.







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van den Berg, Y. W., Osanto, S., Reitsma, P. H., & Versteeg, H. H. (2012). The relationship between tissue factor and cancer progression: insights from bench and bedside. Blood, The Journal of the American Society of Hematology, 119(4), 924-932. 2.

Chu, A. J. (2011). Tissue factor, blood coagulation, and beyond: an overview. International journal of inflammation, 2011. 3.

Förster, Y., Meye, A., Albrecht, S., & Schwenzer, B. (2006). Tissue factor and tumor: clinical and laboratory aspects. Clinica Chimica Acta, 364(1-2), 12-21. 4.

Cocco, E., Varughese, J., Buza, N., Bellone, S., Glasgow, M., Bellone, M., ... & Santin, A. D. (2011). Expression of Tissue factor in Adenocarcinoma of the Uterine Cervix: Implications for immunotherapy with hI-con1, a factor VII-IgGF c chimeric protein targeting tissue factor. BMC cancer, 11, 1-10. 5.

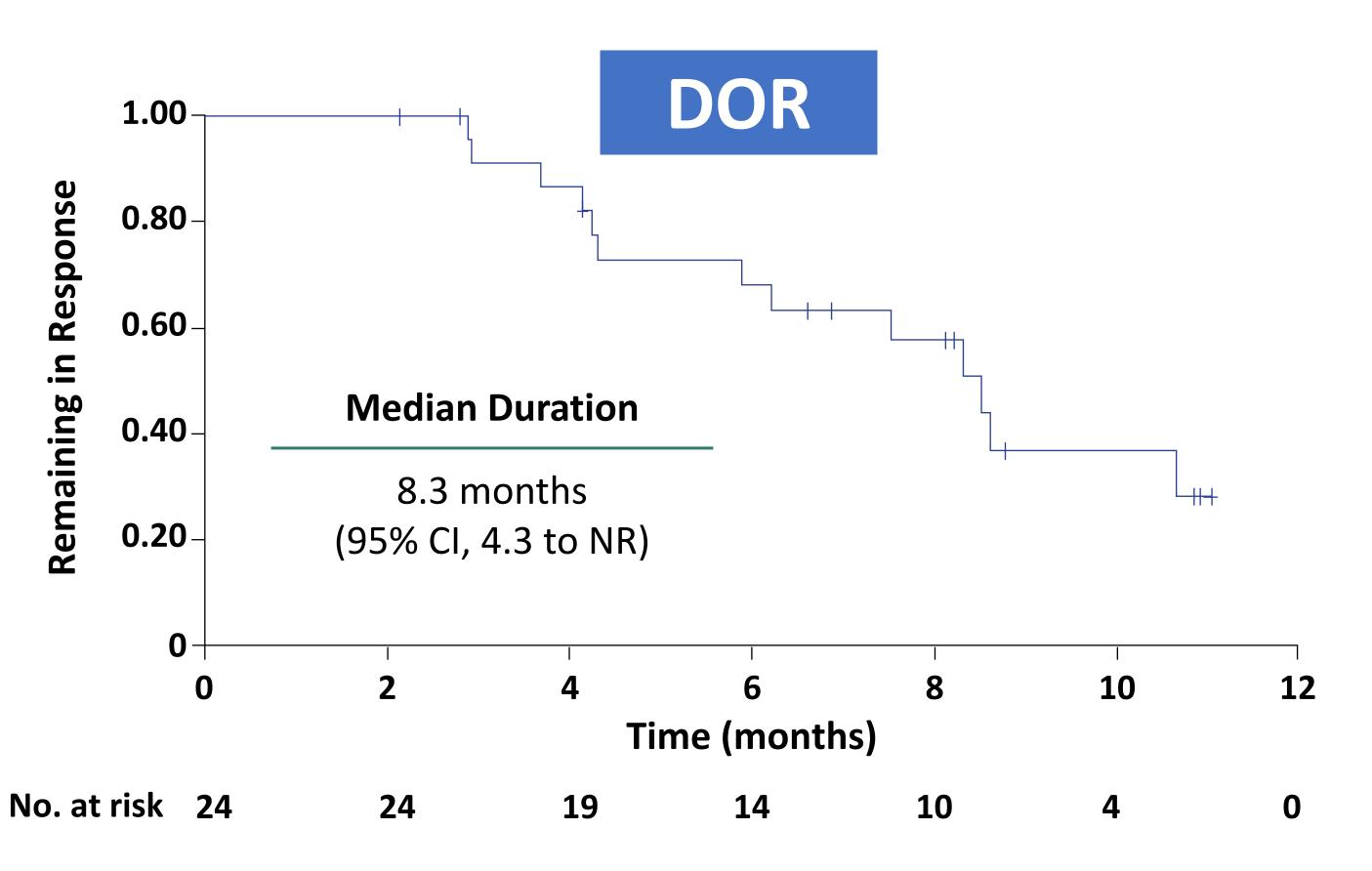
Ruf, W., Disse, J., CARNEIRO-LOBO, T. C., Yokota, N., & Schaffner, F. (2011). Tissue factor and cell signalling in cancer progression and thrombosis. Journal of Thrombosis and Haemostasis, 9, 306-315. 6.

Jacobs, B., Zhang, X., Gaughan, J. P., & Bromberg, M. (2012). Association of tissue factor expression in squamous cell head and neck carcinomas with well-differentiated tumors. 7. 8.

Antitumor Activity by IRC Assessment

	N=101
Confirmed ORR (95% CI), ^a %	24 (15.9–33.3)
CR, n (%)	7 (7)
PR, n (%)	17 (17)
SD, n (%)	49 (49)
PD, n (%)	24 (24)
Not evaluable, n (%)	4 (4)
Disease control rate (95% CI), ^b %	72 (62.5–80.7)
Median duration of response (95% CI), mo	8.3 (4.2–NR)
Median time to response (range), mo	1.4 (1.1–5.1)

CI, confidence interval; CR, complete response; DOR, duration of response; IRC, independent review committee; NR, not reached; ORR, objective response rate; PD, disease progression; PR, partial response; SD, stable disease. ^a Based on the Clopper-Pearson method. ^b Patients with a confirmed response (CR or PR confirmed at least 4 weeks later) or SD (as measured at least 5 weeks after the first dose of tisotumab vedotin). ^c Median duration of follow-up: 10.0 months. + indicates a change greater than 100%. Colored bars represent the best overall confirmed response. CR, PR, SD, and PD were based on RECIST v1.1 as evaluated by IRC. Coleman, R. L., Lorusso, D., Gennigens, C., González-Martín, A., Randall, L., Cibula, D., ... & Bhatia, S. (2021). Efficacy and safety of tisotumab vedotin in previously treated recurrent or metastatic cervical cancer (innovaTV 204/GOG-3023/ENGOT-cx6): a multicentre, open-label, single-arm, phase 2 study. The Lancet Oncology, 22(5), 609-619.



Data cutoff: February 06, 2020.

FDA Grants Accelerated Approval to Tisotumab Vedotin in Recurrent Or Metastatic Cervical Cancer

September 20, 2021 Audrey Sternberg



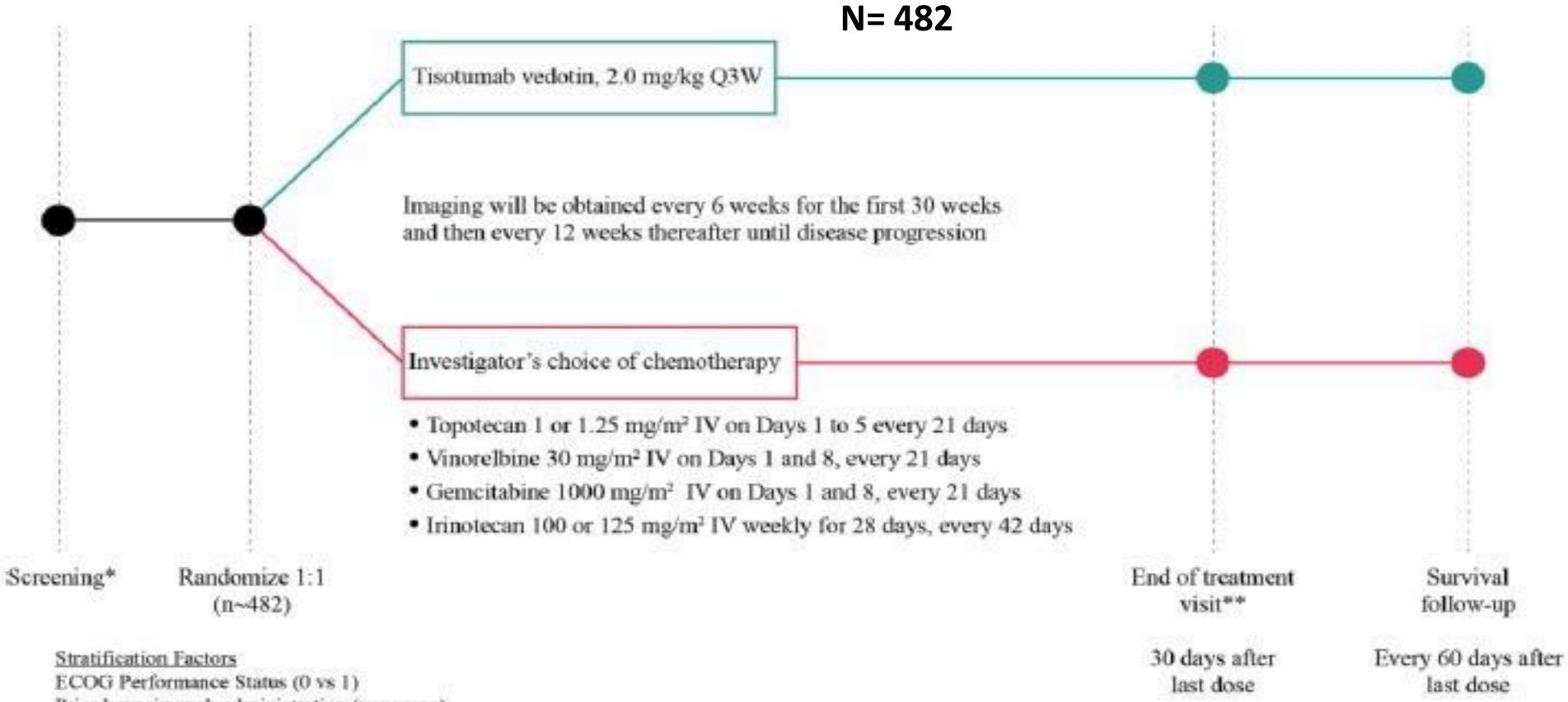
Tisotumab vedotin may now be used to treat patients with recurrent or metastatic cervical cancer after the FDA's decision to grant the agent an accelerated approval.

Accelerated approval has been granted to tisotumab vedotin-tftc for the treatment of patients with recurrent or metastatic cervical cancer following disease progression on or after chemotherapy, according the companies responsible for developing the agent.

The decision from the agency is supported by data from the single-arm phase 2 innovaTV 204 trial (NCT03438396) of tisotumab vedotin which resulted in a 24% (95% CI, 15.9%-33.3%) confirmed overall response rate by independent review committee in previously treated, recurrent or metastatic cervical cancer.

Sternberg, A. (2021, September 21). FDA Grants Accelerated Approval to Tisotumab Vedotin in Recurrent Or Metastatic Cervical Cancer. Cancer Network.

GOG-3057/InnovaTV 301: Schema



Stratification Factors ECOG Performance Status (0 vs 1) Prior bevacizumab administration (yes vs no) Region (US; EU; Other) Prior anti-PD-1 or PD-L1 administration (yes vs no)

*The proportion of participants who have not received prior bevacizumab in combination with chemotherapy as 1L treatment will be capped at 50%. ** Some AESIs may be followed longer than 30 days until resolution, improvement, or stabilization.

Tisotumab Vedotin vs Chemotherapy in Recurrent or Metastatic Cervical Cancer (innovaTV 301) - ClinicalTrials.gov Identifier: NCT04697628. ClinicalTrials.gov. (n.d.).

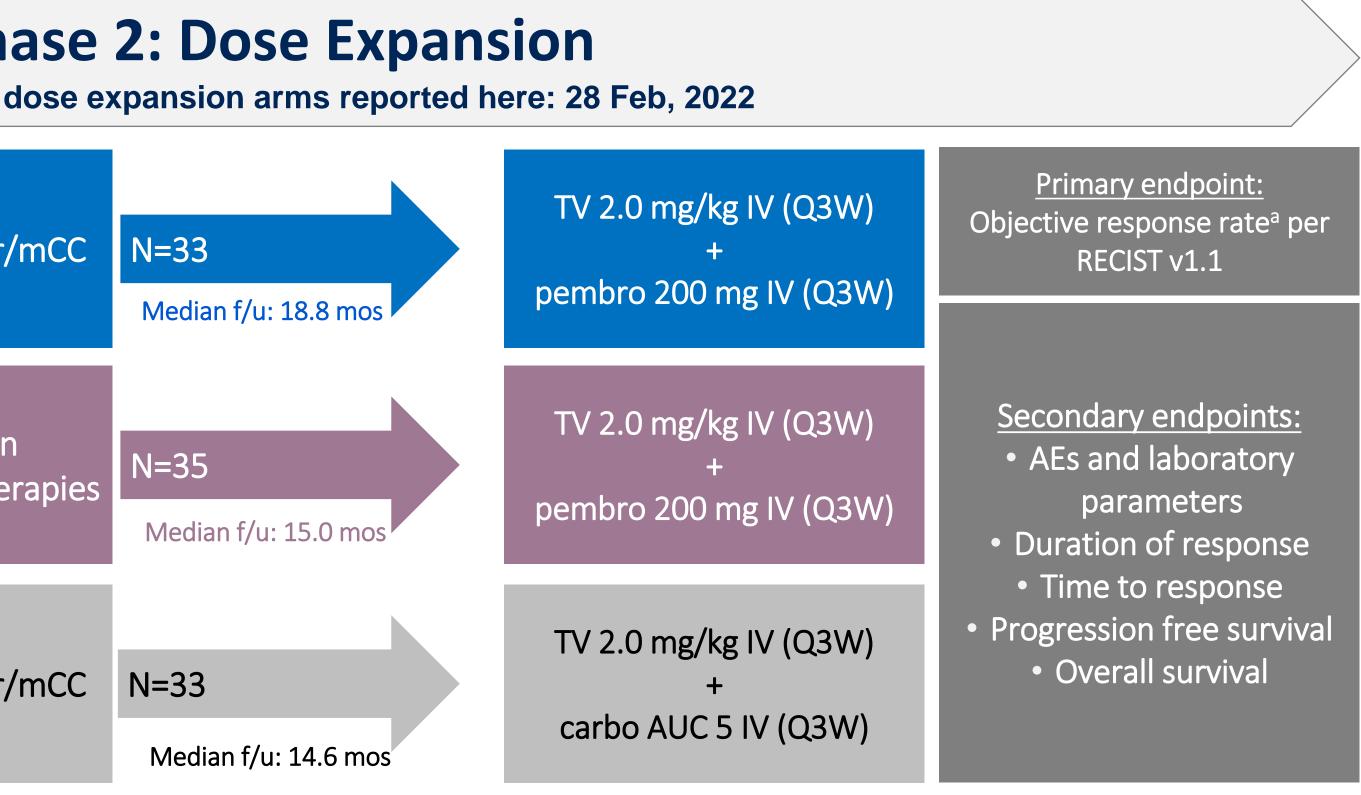
innovaTV 301 - Tisotumab Vedotin vs Chemotherapy in Recurrent or Metastatic Cervical Cancer. Larvol. (2021, April 28).

Primary Endpoint = OS

ENGOT-Cx8/GOG 3024/InnovaTV 205: Dose Expansion

Phase 1b: Dose Escalation		Pha Datacut for all d
No DLTsMTD not reached	1L TV + pembro ^b	No prior systemic therapy for r/
 RP2D identified Acceptable safety profile 	2L/3L TV + pembro ^b	r/mCC with disease progression on/after 1–2 prior systemic ther
 Encouraging anti- tumor activity 	1L TV + carbo	No prior systemic therapy for r/
		1L TV + pembro in pati 2L/3L TV + pembro & 1L TV +

f/u, follow-up; r/mCC, recurrent or metastatic cervical cancery angotiste turn als certain. Abstract TPS5603.



tients with r/mCC: First disclosure

+ carbo: Updated with longer follow-up

^a Tumor response assessed every 6 weeks. ^b Pembro will be administered up to 35 cycles, approximately 2 years.



Efficacy and safety of trastuzumab deruxtecan in patients with HER2-expressing solid tumors: **DESTINY-PanTumor02** interim results

Funda Meric-Bernstam

The University of Texas MD Anderson Cancer Center, Houston, TX, USA June 5, 2023

Additional authors: Vicky Makker, Ana Oaknin, Do-Youn Oh, Susana Banerjee, Antonio González-Martín, Kyung Hae Jung, Iwona Ługowska, Luis Manso, Aránzazu Manzano, Bohuslav Melichar, Salvatore Siena, Daniil Stroyakovskiy, Chiedozie Anoka, Yan Ma, Soham Puvvada, Jung-Yun Lee

On behalf of the DESTINY-PanTumor02 investigators





PRESENTED BY: Funda Meric-Bernstam, MD

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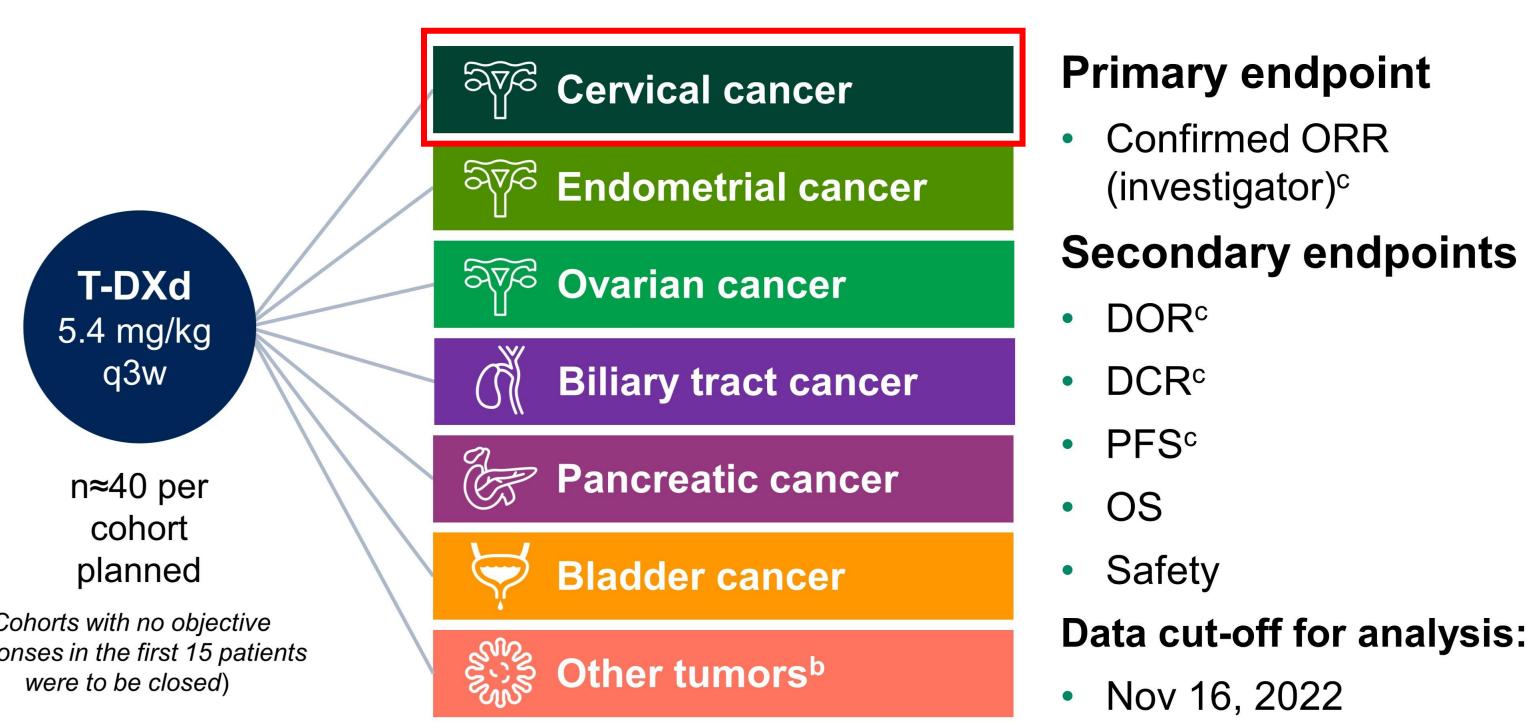




DESTINY-PanTumor02: A Phase 2 Study of T-DXd for HER2-Expressing Solid Tumors

An open-label, multicenter study (NCT04482309)

- Advanced solid tumors not eligible for curative therapy
- 2L+ patient population
- HER2 expression (IHC 3+ or 2+)
 - Local test or central test by Herceptest if local test not feasible (ASCO/CAP gastric cancer guidelines¹)^a
- Prior HER2-targeting therapy allowed



(Cohorts with no objective responses in the first 15 patients

ECOG/WHO PS 0–1

^aPatients were eligible for either test. All patients were centrally confirmed. ^bPatients with tumors that express HER2, excluding tumors in the tumor-specific cohorts, and breast cancer, non-small cell lung cancer, gastric cancer, and colorectal cancer. ^oInvestigator-assessed per Response Evaluation Criteria In Solid Tumors version 1.1.

2L, second-line; ASCO, American Society of Clinical Oncology; DCR, disease control rate; CAP, College of American Pathologists; DOR, duration of response; ECOG, Eastern Cooperative Oncology Group; HER2, human epidermal growth factor receptor 2; IHC, immunohistochemistry; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; PS, performance status; q3w, every 3 weeks; T-DXd, trastuzumab deruxtecan; WHO, World Health Organization. 1. Hofmann M, et al. *Histopathology* 2008;52(7):797–805.





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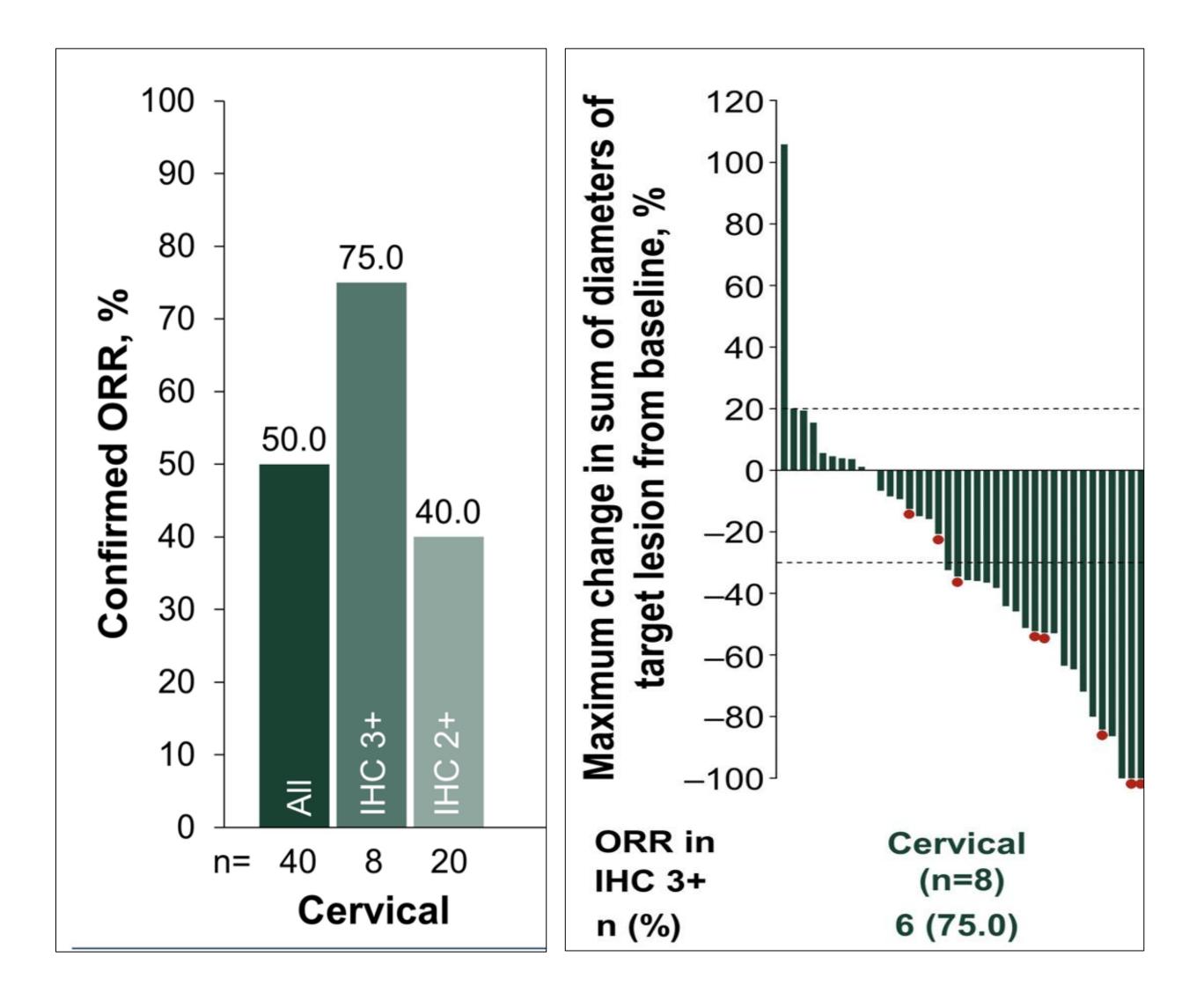
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Cervical Cancer Cohort (N=40): Efficacy T-Dxd

Investigator Assessment	
ORR N (%)	20 (50.0)
CR	2 (5.0)
PR	18 (45.0)
SD	11 (27.5)
PD	7 (17.5)
Not evaluable	1 (2.5)
DCR	27 (67.5)
Median DOR, month (95% CI)	9.8 (4.2- NR)
Independent Central Review ORR N (%)	16 (40)

T-Dxd Efficacy by HER2 status in Cervical Cancer



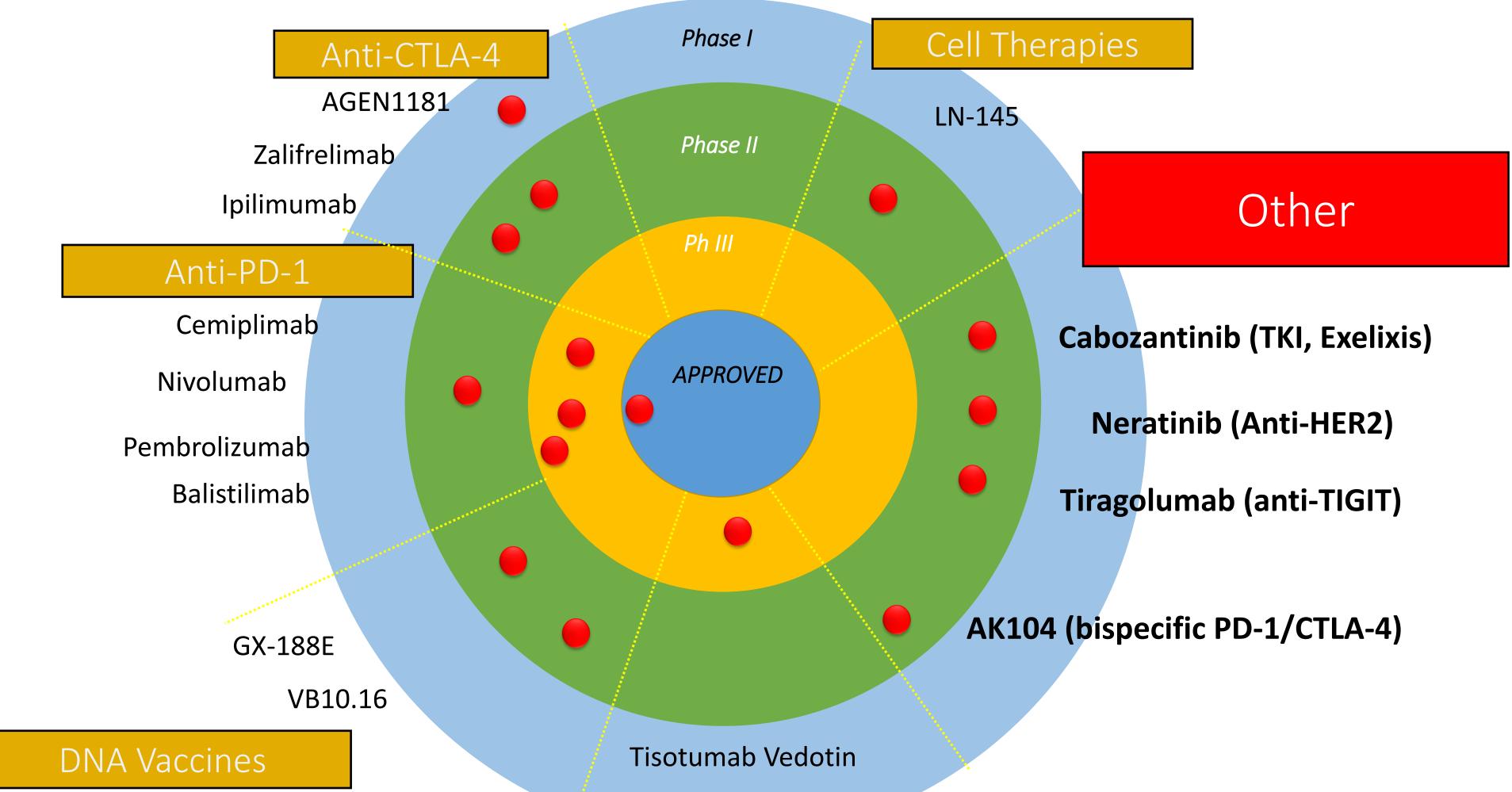


National Network®

Comprehensive NCCN Guidelines Version 1.2024 **Cervical Cancer**

SYSTEMIC THERAPY FOR CERVICAL CANCER^a

Chamaradiatianb	Squamous Cell Carcinoma, Adenocarcinoma		
Chemoradiation ^b	Recurrent or Metastatic Disease		
	First-line Therapy ^{b,d}	Second-line or Subsequent Therapy	
Preferred Regimens • Cisplatin if patient is cisplatin intolerant Other Recommended Regimens ^c (if cisplatin and carboplatin are unavailable) • Capecitabine/ mitomycin ¹ • Gemcitabine ² • Paclitaxel ^{3,4}	 Preferred Regimens PD-L1-positive tumors Pembrolizumab + cisplatin/paclitaxel ± bevacizumab (category 1)^{e,f,g,h,5} Pembrolizumab + carboplatin/paclitaxel ± bevacizumab (category 1)^{e,f,g,h,5} Cisplatin/paclitaxel/bevacizumab^{e,h,6} (category 1) Carboplatin/paclitaxel/bevacizumab^{e,h} Other Recommended Regimens Cisplatin/paclitaxel (category 1)^{7,8} Carboplatin/paclitaxel^{9,10} (category 1 for patients who have received prior cisplatin therapy) Topotecan/paclitaxel/bevacizumab^{e,h,6,11} (category 1) Cisplatin/topotecan¹¹ Cisplatin/topotecan¹¹ Cisplatin⁸ Carboplatin^{12,13} 	Preferred Regimens • Pembrolizumab for TMB-H tumors ^{f,j} or PD-L1–positive ^g or MSI-H/dMMR tumors ^{f,14} • Tisotumab vedotin-tftv ¹⁵ • Cemiplimab ^{f,16} Other Recommended Regimens • Bevacizumab ^e • Paclitaxel ^{13,17} • Albumin-bound paclitaxel • Docetaxel • Fluorouracil • Gemcitabine • Pemetrexed • Topotecan • Vinorelbine • Irinotecan Useful in Certain Circumstances • PD-L1–positive tumors • Nivolumab ^{f,g,18} • HER2-positive tumors (IHC 3+ or 2+) • Fam-trastuzumab deruxtecan-nxki ¹⁹ • RET gene fusion-positive tumors • Selpercatinib • NTRK gene fusion-positive tumors • Larotrectinib	

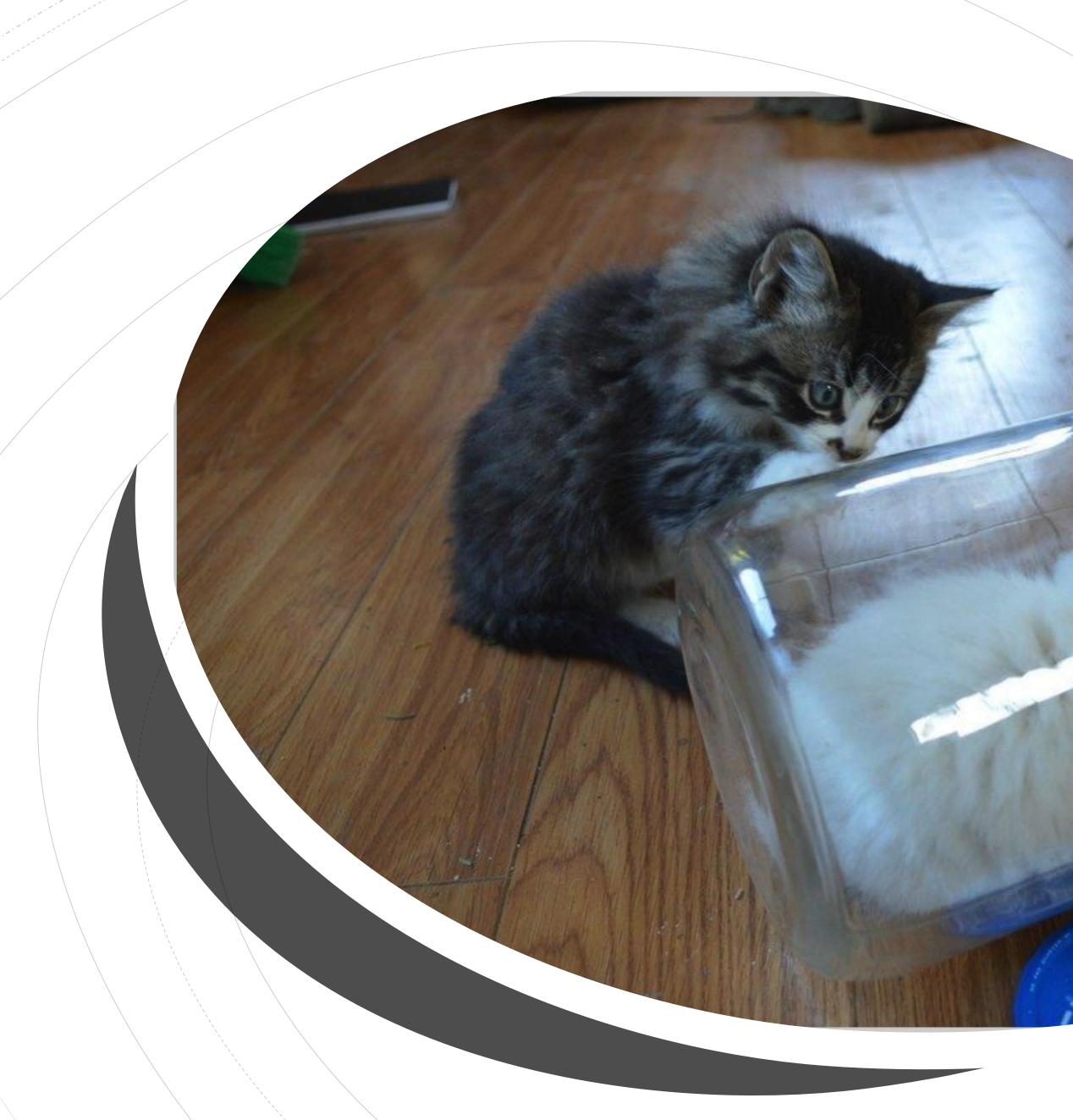


ADC

Summary

- Clinical trial activity in gynecologic cancers is robust and meaningful
 New targets, strategies, and agents are rapidly entering the clinical
- New targets, strategies, and agen domain
- Importance of clinical trial is evident in that through success/failure we define the new standards of care – increasing the efficacy/toxicity differential
- Thanks to all who have inquired about or participate in the investigative process

rcoleman@gog.org



Thank You!!

