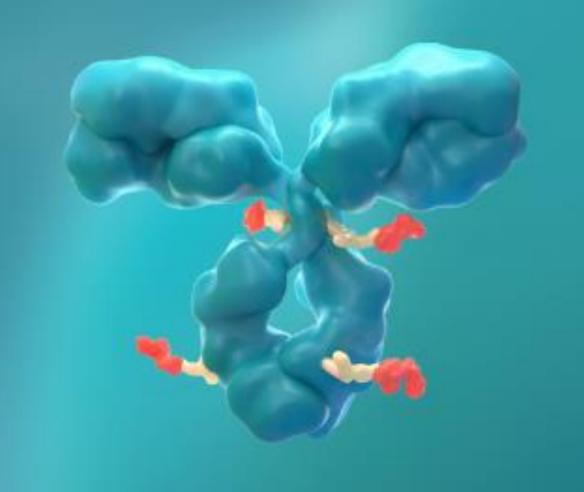


The Changing Landscape of Second-Line Therapies for Recurrent Cervical Cancer

Leslie Randall, MD
Ana Oaknin, MD, PhD



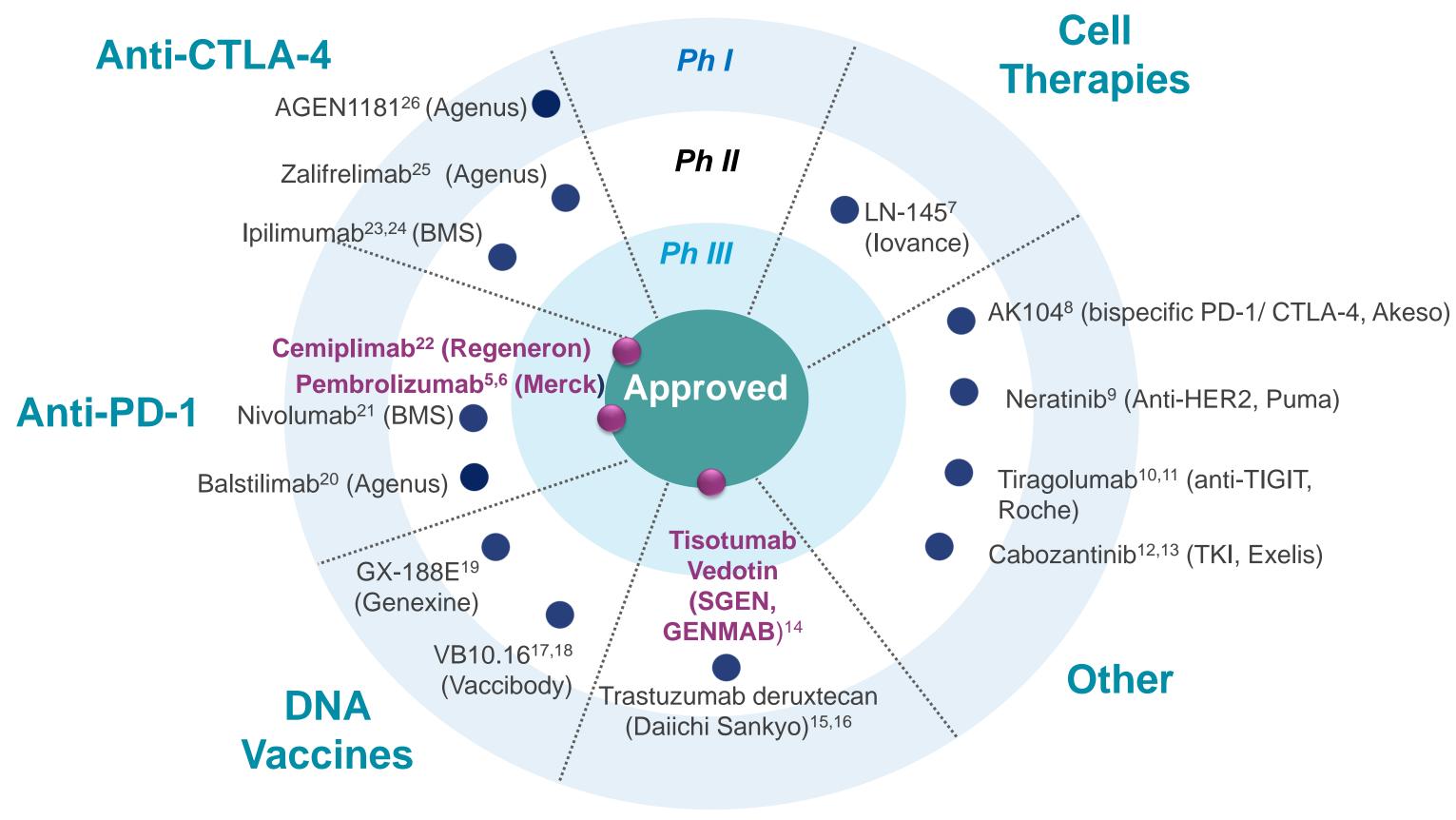




Current Treatment Regimen for 2L+ R/M CC

Spectrum of Therapies in Different Stages of Development in 2L+ R/M CC

Regimen 1-4	ORR (%)	PFS (months)	OS (months)
Paclitaxel	32	NS	7.3
Cisplatin	23	NS	NS
Irinotecan	21-24	NS	NS
Topotecan	12.5-18	2.1-3.5	4.66-7.0
Capecitabine	2-15.4	2.9-4.1	5.9-9.3
Vinorelbine	7.1-13.7	NS	NS
Pemetrexed	13.9-15	2.5-3.1	7.4-8.8
Bevacizumab	10.9	3.4	7.29
Gemcitabine	4.50	2.1	6.5





ADC, antibody-drug conjugates; CC, cervical cancer; CPS, combined positive score; CTLA, cytotoxic T-lymphocyte-associated protein; dMMR, DNA mismatch repair; FDA, federal drug administration; GOG, gynecological oncology group; ; MSI, microsatellite instability; NS, not stated; ORR, objective response rate; OS, overall survival; PARPi, poly (ADP-ribose) polymerase inhibitors; PD-1, programmed cell death protein 1; PD-L1, programmed death ligand 1; Ph, phase; PFS, progression-free survival; R/M, recurrent/metastatic; TIGIT, rocell immunoreceptor with Ig and IrIM domaci#; FDA, federal drug administration; TRI-1, prosine kinase inhibitor; TMB-H, tumor mutation, physical protein 1; PD-L1, programmed death ligand 1; Ph, phase; PFS, progression-free survival; R/M, recurrent/metastatic; TIGIT, rocell immunoreceptor with Ig and IrIM domaci#; FDA, federal drug administration; GOG, gynecological oncology group; ; MSI, microsatellite instability; NS, not stated; ORR, objective response rate; OS, overall survival; PARPi, poly (ADP-ribose) polymerase inhibitors; PD-1, programmed cell death protein 1; PD-L1, programmed cell death protein 1; PD-L1, programmed cell death protein 1; PN, phase; PFS, progression-free survival; R/M, recurrent/metastatic; TIGIT, rocell immunoreceptor with Ig and IrIM domaci#; All protein 1; PD-L1, programmed cell death protein 1; PD-L1, programmed cell death protein 1; PD-L1, programmed cell death protein 1; PN, phase; PFS, progression-free survival; R/M, recurrent/metastatic; TIGIT, rocel immunoreceptor with Ig and IrIM domaci#; All protein Irims, Irim

February 2023. 25. ClinicalTrials.gov. Accessed September 25, 2023. https://clinicaltrials.gov/study/NCT03495882. 26. ClinicalTrials.gov/study/NCT03495882. 26. ClinicalTrials.gov/study/NCT0349582. 26. ClinicalTrials.gov/study/NCT03495882. 26. ClinicalTrials.gov/study/NCT0349582. 26. ClinicalTrials.gov/study/NCT0349582. 26. ClinicalTrials.gov/study/NCT0349582. 2

https://clinicaltrials.gov/study/NCT02488759. 22. ClinicalTrials.gov. Accessed September 25, 2023. https://clinicaltrials.gov/study/NCT03257267. 23. ClinicalTrials.gov. Accessed September 25, 2023. https://clinicaltrials.gov. Accessed



EMPOWER-Cervical 1/GOG-3016/ENGOT-cx9: Study Design

An open-label, randomized, phase 3 clinical trial of REGN2810 versus investigator's choice of chemotherapy in recurrent or metastatic cervical carcinoma^{1,2}

Key Eligibility Criteria

- Recurrent and metastatic cervical cancer resistant to platinum-based chemotherapy ≥2nd line
- ECOG PS ≤1

N=608: 477 SCC, 131 AC Randomised 1:1

Stratified by:

- Histology (SCC/AC)
- Geographic region
- Prior bevacizumab (Y/N)
- ECOG PS (0 vs 1)

Previous anti-PD-1 or anti-PD-L1 therapy was not permitted

Cemiplimab 350 mg Q3W IV

Investigator's choice chemotherapy

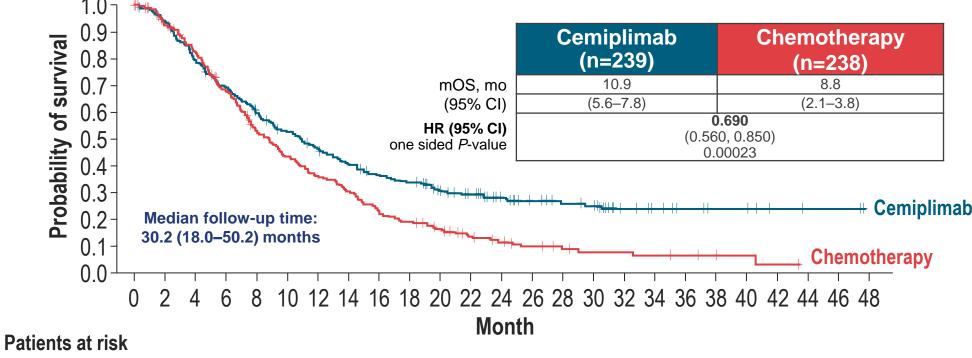
Options:

1. Tewari KS et al. N Engl J Med 2022;386:544-55. 2. Tewari K et al. N Engl J Med 2022;386:544-55. [Supplementary Appendix]. 3. Oaknin A et al. Presented at ESMO Congress 2022

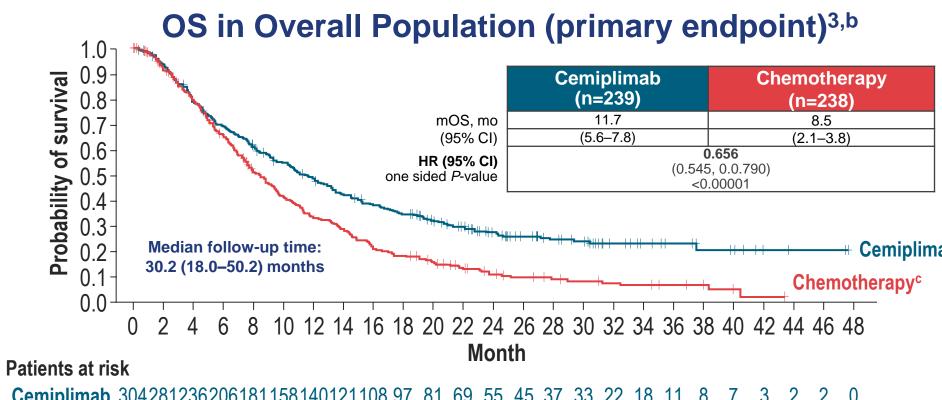
- Pemetrexed 500 mg/m² Q3W IV
- Gemcitabine 1,000 mg/m² IV on Days 1 and 8 and every 21 days
- Topotecan 1 mg/m² daily IV for 5 days, every 21 days
- Irinotecan 100 mg/m² IV weekly x 4, followed by 10–14 days rest
- Vinorelbine 30 mg/m² IV on Days 1 and 8 and every 21 days

Treat up to 96 weeks with option for re-treatment Tumour imaging conducted on Day 42 (±7 days) of cycles 1–4, 6, 8, 10, 12, 14, and 16^a

OS in Squamous Cell Histology (primary endpoint)^{3,b}



Cemiplimab 239223188163140120105 91 80 74 60 53 43 35 30 28 17 14 8 6 6 3 2 2 0 Chemotherapy 238209182149113 92 77 65 50 41 32 22 16 12 9 7 7 6 5 3 2 1 0 0

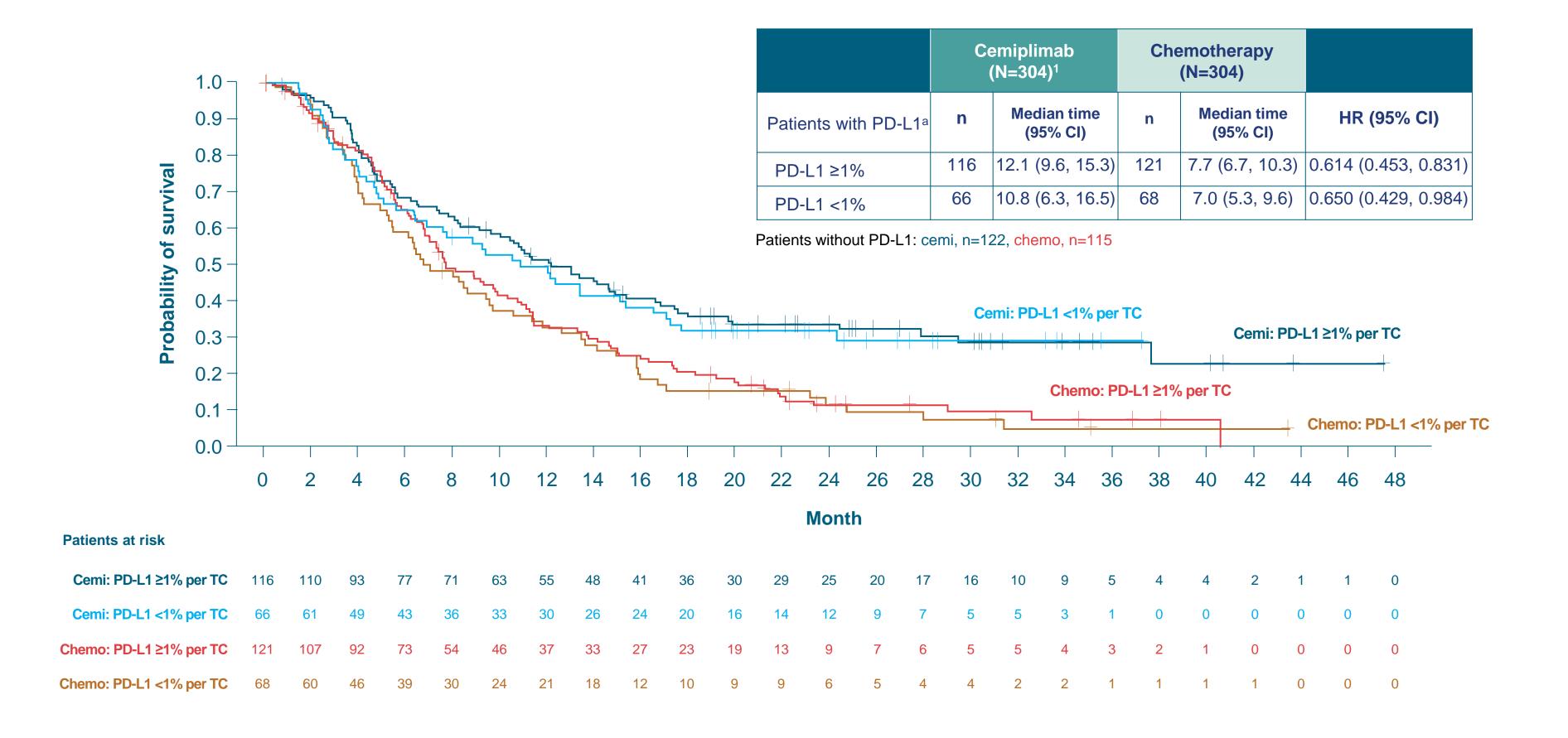


Cemiplimab 304281236206181158140121108 97 81 69 55 45 37 33 22 18 11 8 7 3 2 2 0 Chemotherapy 304264224183140113 92 79 60 50 40 30 21 17 14 12 10 9 7 5 2 1 0 0 0





EMPOWER-Cervical 1/GOG-3016/ENGOT-cx9: Overall Survival Regardless of PD-L1 Status







EMPOWER-Cervical 1/GOG-3016/ENGOT-cx9: PFS and Safety Summary

TEAEs

TEAEs in ≥10% Patients

mPFS in Overall Population and Squamous Cell carcinoma

	Cemiplimab	IC chemotherapy ²
mPFS Overall population	2.8 mon (95% CI, 2.6 –3.9)	2.9 mon (95% CI, 2.7 – 3.4)
HR: 0.75; 95% CI, 0.63-0.89) <i>P</i> <0.001		
mPFS Squamous-cell carcinoma	2.8 mon (95% CI, 2.6 – 4.0)	2.9 mon (95% CI, 2.7 – 3.9)

n (%)	Cemiplimab (n=300)¹	Chemotherapy (n=290)
Median duration of exposure (range), weeks ¹	15.2 (1.4–107.7)	10.1 (1.1–91.1)
Any treatment-emergent adverse events (TEAEs)		
Overall	269 (89.7)	266 (91.7)
Led to discontinuation	27 (9.0)	15 (5.2)
Led to death	5 (1.7)	2 (0.7)
Any treatment-related AEs		
Overall	172 (57.3)	237 (81.7)
Led to discontinuation	17 (5.7)	10 (3.4)
Led to death	0	2 (0.7)
Any treatment-emergent AEs of special interest (AESI)		
Overall	36 (12.0)	N/A
Led to discontinuation	12 (4.0)	N/A
Led to death	0	N/A

TEAEs in ≥10% of patients, n (%)¹	Cemiplimab (n=300)		Chemotherapy (n=290)	
	Any grade	Grade 3–5	Any grade	Grade 3–5
Anemia	76 (25.3)	36 (12.0)	128 (44.1)	79 (27.2)
Nausea	57 (19.0)	2 (0.7)	99 (34.1)	6 (2.1)
Vomiting	50 (16.7)	3 (1.0)	68 (23.4)	7 (2.4)
Pyrexia	39 (13.0)	1 (0.3)	62 (21.4)	0
Constipation	45 (15.0)	0	58 (20.0)	1 (0.3)
Decreased appetite	46 (15.3)	1 (0.3)	46 (15.9)	2 (0.7)
Fatigue	51 (17.0)	4 (1.3)	45 (15.5)	4 (1.4)
Neutropenia	6 (2.0)	3 (1.0)	45 (15.5)	27 (9.3)
Asthenia	35 (11.7)	7 (2.3)	44 (15.2)	3 (1.0)
Diarrhea	34 (11.3)	3 (1.0)	39 (13.4)	4 (1.4)
Urinary tract infection	35 (11.7)	15 (5.0)	25 (8.6)	8 (2.8)
Abdominal pain	30 (10.0)	3 (1.0)	33 (11.4)	3 (1.0)
Arthralgia	33 (11.0)	1 (0.3)	8 (2.8)	0
Back pain	32 (10.7)	4 (1.3)	28 (9.7)	2 (0.7)
Баск раш	32 (10.7)	4 (1.3)	20 (9.7)	2 (0.7)

Cemiplimab was approved by EMA and JAPAN for the 2L treatment of recurrent or metastatic cervical cancer that has progressed on or after platinum-based therapy, regardless of PD-L1 expression status or tumor histology²

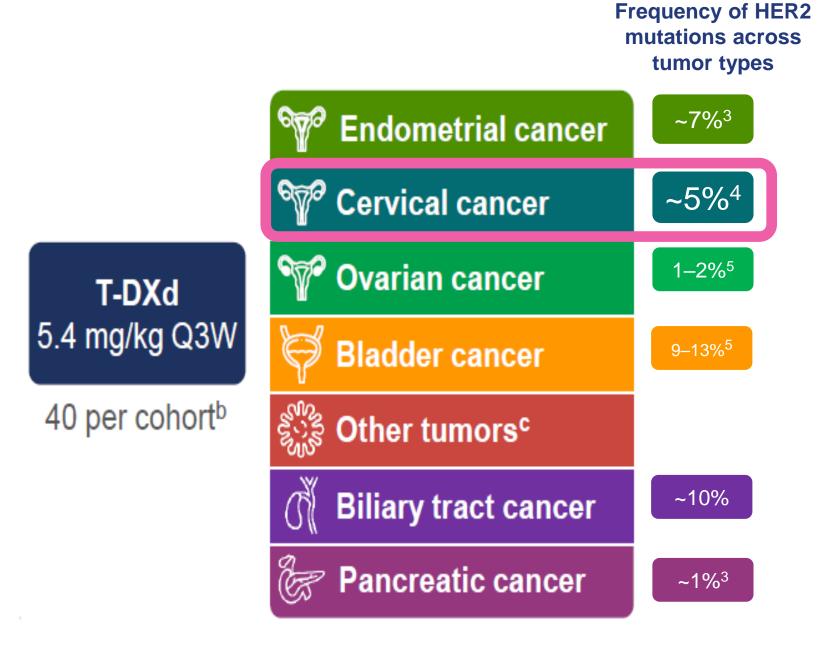


DESTINY-PanTumor02: Study Design

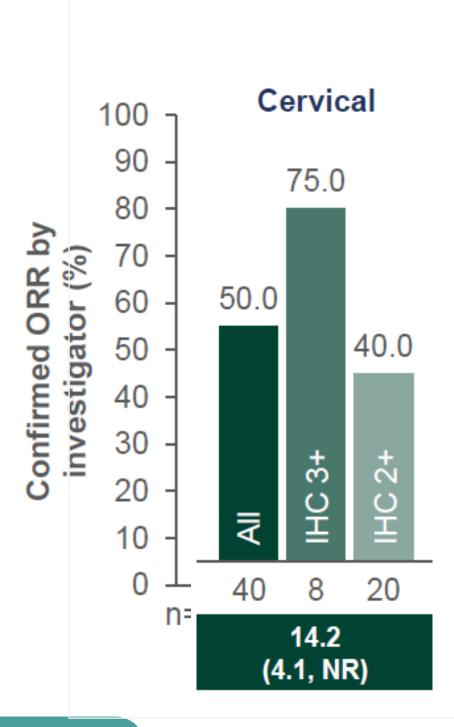
A phase 2, multicenter, open-label study to evaluate the efficacy and safety of trastuzumab deruxtecan for the treatment of selected HER2 expressing tumors^{1,2}

Key Eligibility Criteria

- 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 scoring
- Prior HER-targeting therapy allowed
- ECOG/WHO PS ≤1



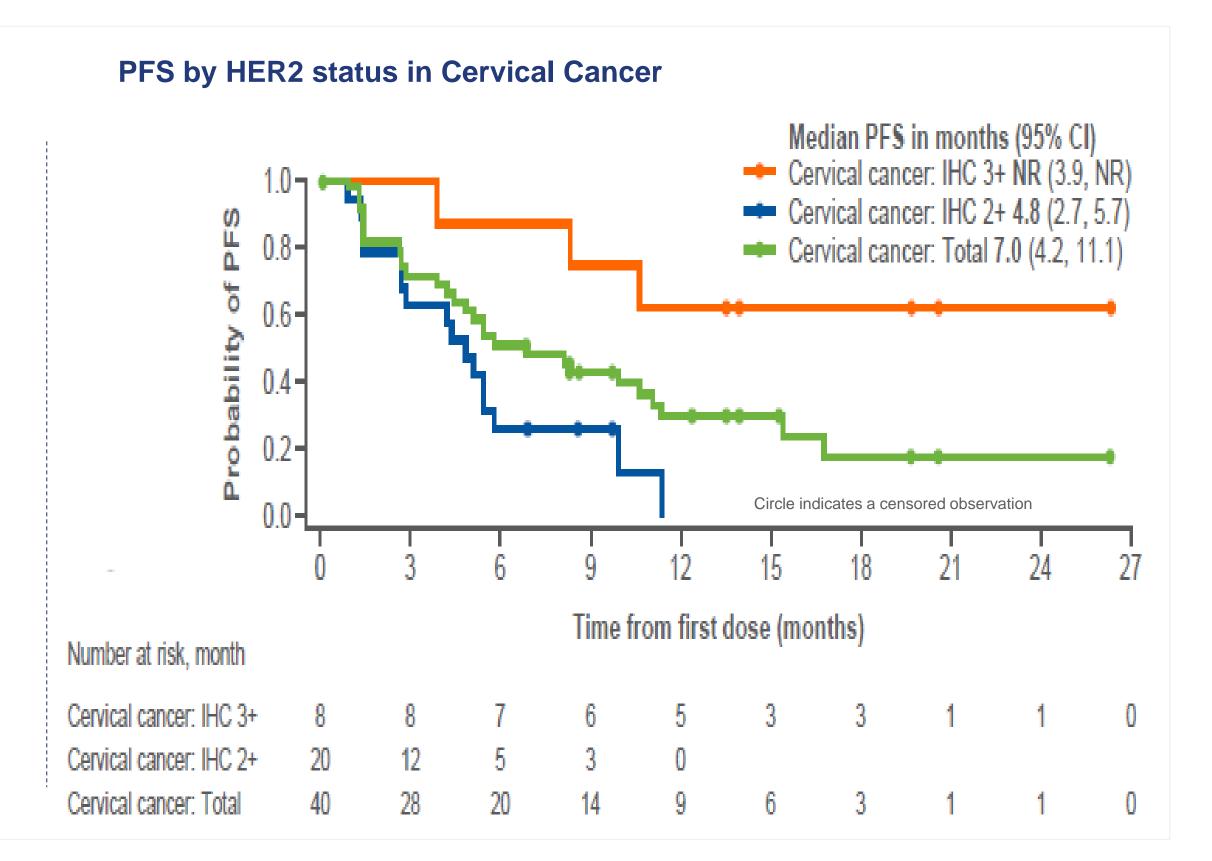
ORR by HER2 status in Cervical Cancer



All patients were HER2-positive per local determination



DESTINY-PanTumor02:



TEAEs	All patients (N=267); n (%)
Any drug-related TEAEs	226 (84.6)
Drug-related TEAEs Grade ≥3	109 (40.8)
Serious drug-related TEAEs	36 (13.5)
Drug-related TEAEs associated with dose discontinuations	23 (8.6)
Drug-related TEAEs associated with dose interruptions	54 (20.2)
Drug-related TEAEs associated with dose reductions	54 (20.2)
Drug-related TEAEs associated with deaths	4 (1.5) ^a

	Most common TEAEs	Any Grade	Grade ≥3
	Nausea	55.1	3.7
F	atigue	40.1	7.1
I	Neutropenia	32.6	19.1
/	Anemia	27.7	10.9
ı	Diarrhea	25.8	3.7
١	Vomiting	24.7	1.5
ı	Decreased appetite	17.6	1.5
-	Thrombocytopenia	17.2	5.6
/	Alopecia	16.9	
	Increased transaminases	10.1	0.4
	Leukopenia	10.1	2.6

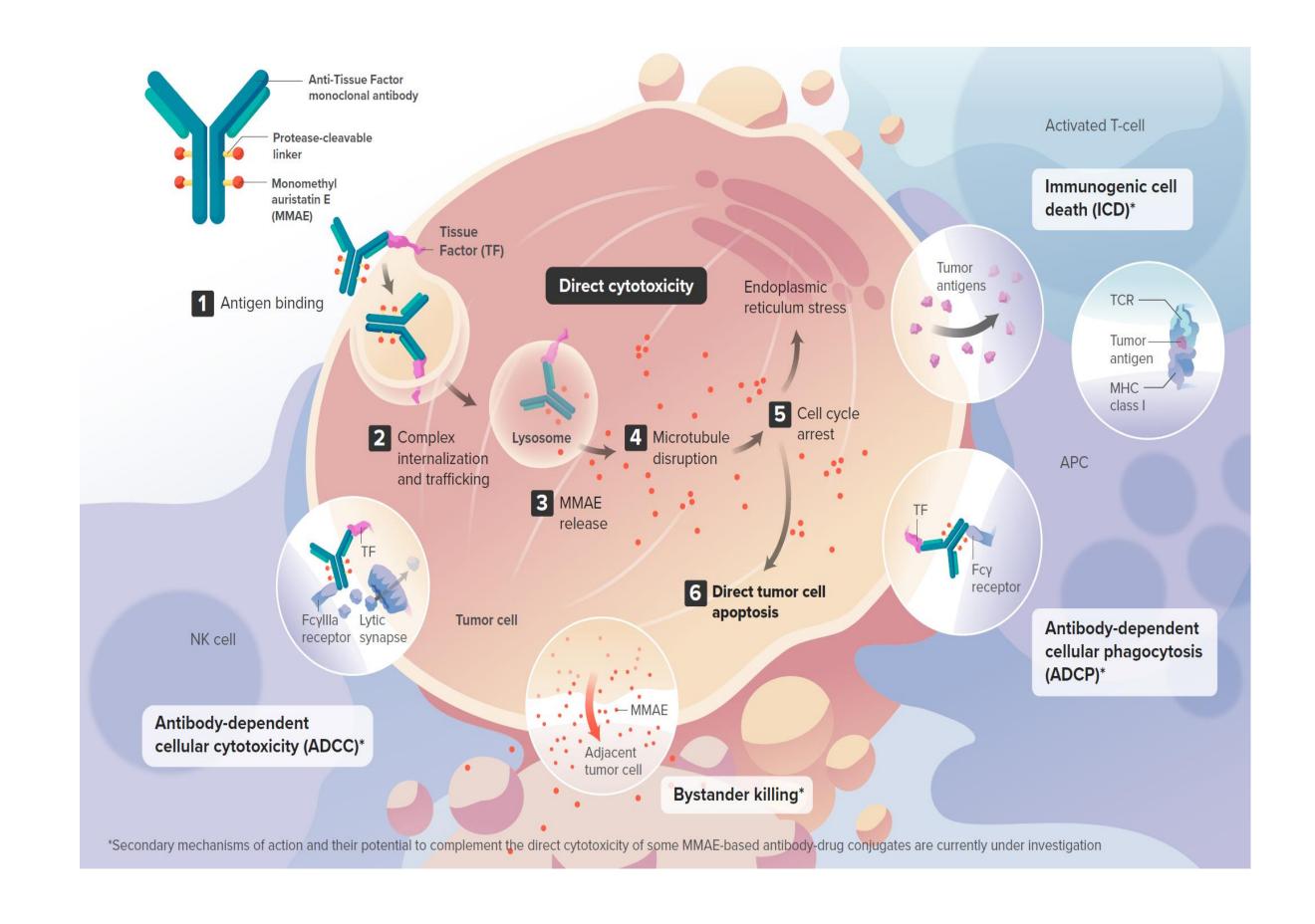
ILD/pneumonitis adjudicated as T-DXd related, n (%)	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any grade
All patients (N=267)	7 (2.6)	17 (6.4)	1 (0.4)	0	3 (1.1)	28 (10.5)



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Tisotumab Vedotin: Mechanism of Action

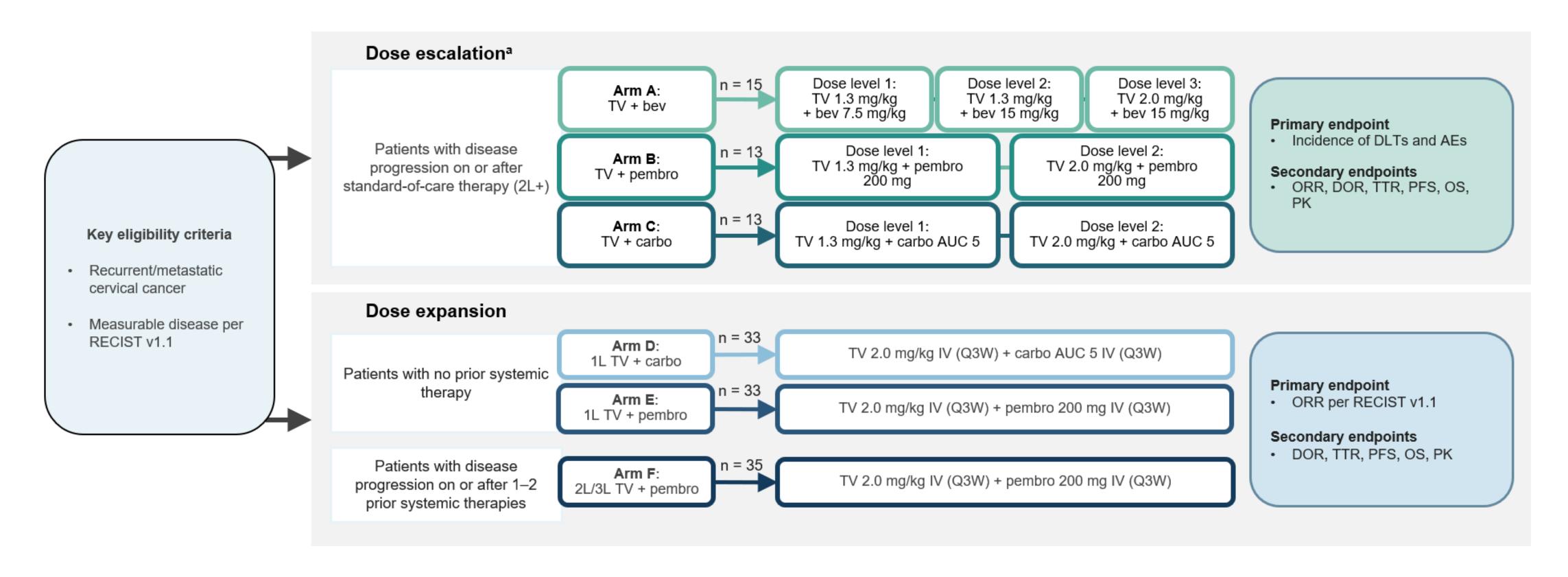
- Tisotumab vedotin is an ADC directed to tissue factor (TF) and covalently linked to the microtubuledisrupting agent MMAE via a protease-cleavable linker¹
- TF is highly prevalent in cervical cancer and other solid tumors and is associated with cancer pathophysiology and poor prognosis²⁻⁴
 - TF is co-opted by tumor cells to promote tumor growth, angiogenesis, and metastasis⁵
 - In normal physiology, TF's primary role is to initiate the coagulation cascade after vascular injury⁵
- Tisotumab vedotin has multiple anti-tumor effects⁶





InnovaTV 205: Study Design

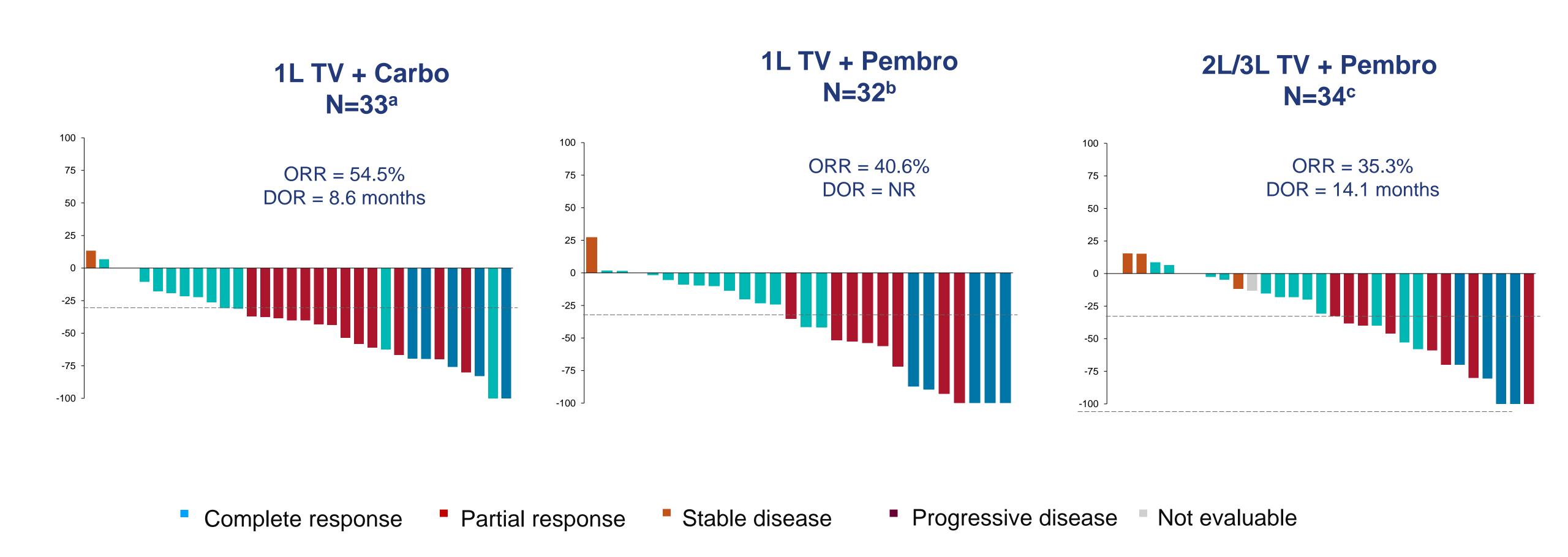
A phase 1b/2 open-label trial of tisotumab vedotin monotherapy and in combination with other agents in subjects with recurrent or stage IVB cervical cancer





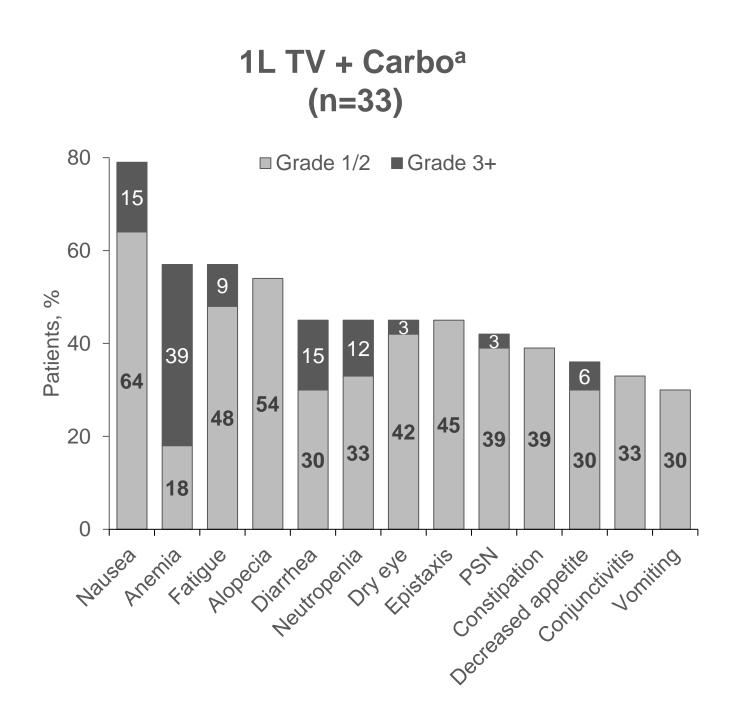
aTV + bev arm followed a 3 + 3 dose escalation design. TV + pembro and TV + carbo Arms followed a 6 + 6 dose escalation design. Drugs were administered IV on day 1 of each 21-day cycle. Patients were treated for ≥1 cycle to evaluate DLTs and 2 cycles to evaluate RP2D.

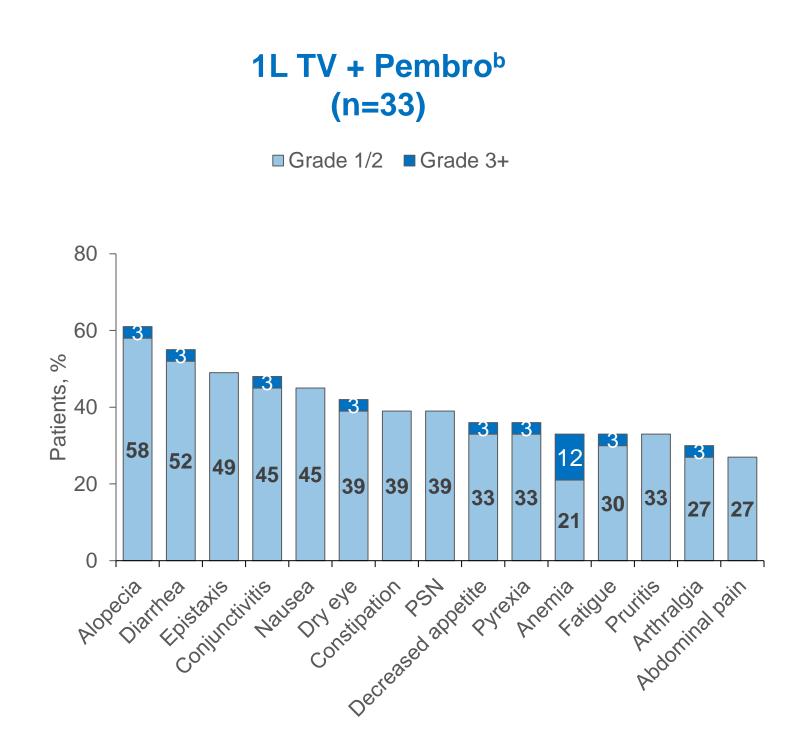
InnovaTV 205: Best Reduction in Target Lesion Size

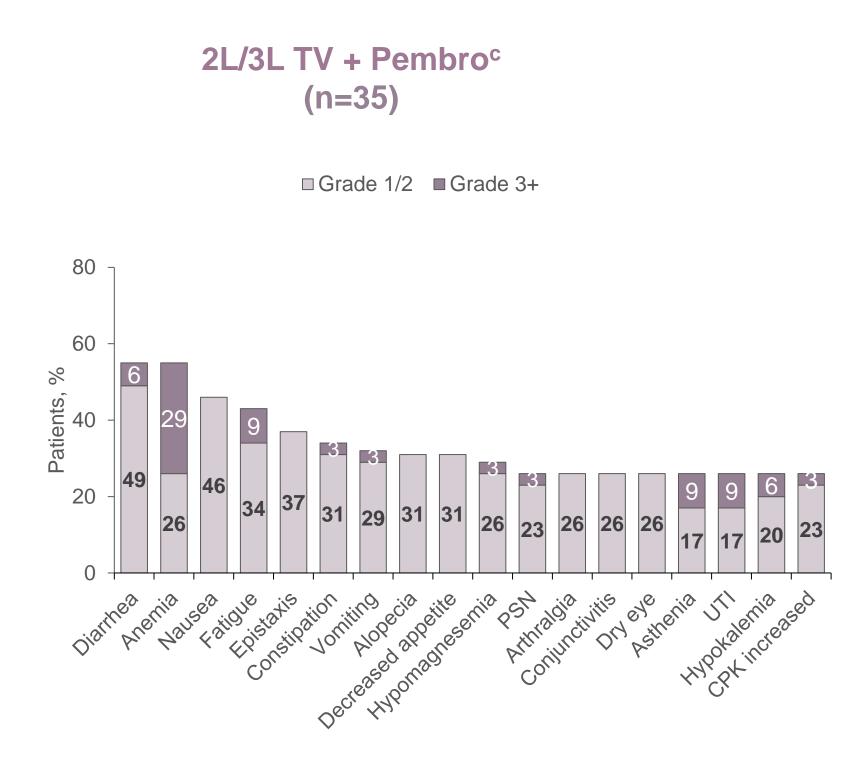




InnovaTV 205: Safety Summary of Common AEs Reported in >25% Patients







- Most TEAEs were grade 1 or 2
- Observed safety profile was generally consistent with those known for each individual agent
- There was a single grade 5 event with 1L TV + pembro considered by the investigator to be related to trial treatment (due to disseminated intravascular coagulation)
- Immune-mediated AEs observed with TV + pembro were consistent with known safety profile of checkpoint inhibitors





InnovaTV 301 (ENGOT cx-12/GOG 3057): Study Design

A randomized, open-label, phase 3 confirmatory trial of tisotumab vedotin vs investigator's choice chemotherapy in 2L/3L recurrent or metastatic cervical cancer¹

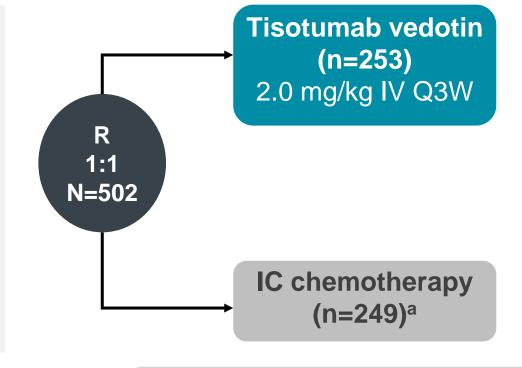
Key Eligibility Criteria²

- Recurrent or metastatic cervical cancer
- Disease progression on or after chemotherapy doublet ± bevacizumab and an anti-PD-(L)1 agent, if eligible and available
- ≤2 prior lines
- Measurable disease per RECIST v1.1
- ECOG PS 0-1

Stratification Factors

- ECOG PS (0 vs 1)
- Prior bevacizumab (yes vs no)
- Prior anti-PD-(L)1 therapy (yes vs no)
- Geographic region (US, Europe, Other)

Previous anti–PD-1 or anti–PD-L1 therapy was permitted



IC Chemotherapy

- Topotecan
- Vinorelbine
- Gemcitabine
- Irinotecan
- Pemetrexed

Primary endpoint: OS^b

Secondary endpoints: PFSc, ORRc, Safety

Baseline Patient and Disease Characteristics

	Tisotumab Vedotin (N=253)	IC Chemotherapy (N=249)
Number of prior r/m systemic regimens, n(%) 1 2 Unknown	159 (62.8) 93 (36.8) 1 (0.4)	149 (59.8) 100 (40.2) 0
Prior bevacizumab, n (%)	164 (64.8)	157 (63.1)
Prior anti-PD-(L)1 therapy, n (%)	71 (28.1)	67 (26.9)
Prior radiation therapy for cervical cancer, n (%)	205 (81.0)	203 (81.5)

Baseline patient demographics were balanced across both arms



Data presented herein are a planned interim analysis

Vergote I. Presented at ESMO 2023: Presidential Symposium (Oral Presentation) LBA9.

End of treatment visit occurred 30 days after the last dose of treatment. Survival follow-up occurred every 60 days after the last dose of treatment.

aChemotherapy regimens were given at the following doses: topotecan 1 or 1.25 mg/m² IV on Days 1 to 5 of a 21-day cycle; vinorelbine 30 mg/m² IV on Days 1 and 8 of a 21-day cycle; gemcitabine 1000 mg/m² IV on Days 1 and 8 of a 21-day cycle; irinotecan 100 or 125 mg/m² IV weekly for 28 days every 42 days; pemetrexed 500 mg/m² on Day 1 of a 21-day cycle; bOS was defined as the time from the date of randomization to the date of death due to any cause; cAssessed by investigator. ECOG PS, eastern cooperative oncology group performance status; IC, investigator's choice; IV, intravenous; ORR, objective response rate; OS, overall survival; PD-L1, programmed death-ligand 1; PFS, progression-free survival; Q3W, every 3 weeks; RECIST, response evaluation criteria in solid tumors; 2L, second-line; 3L, third-line.



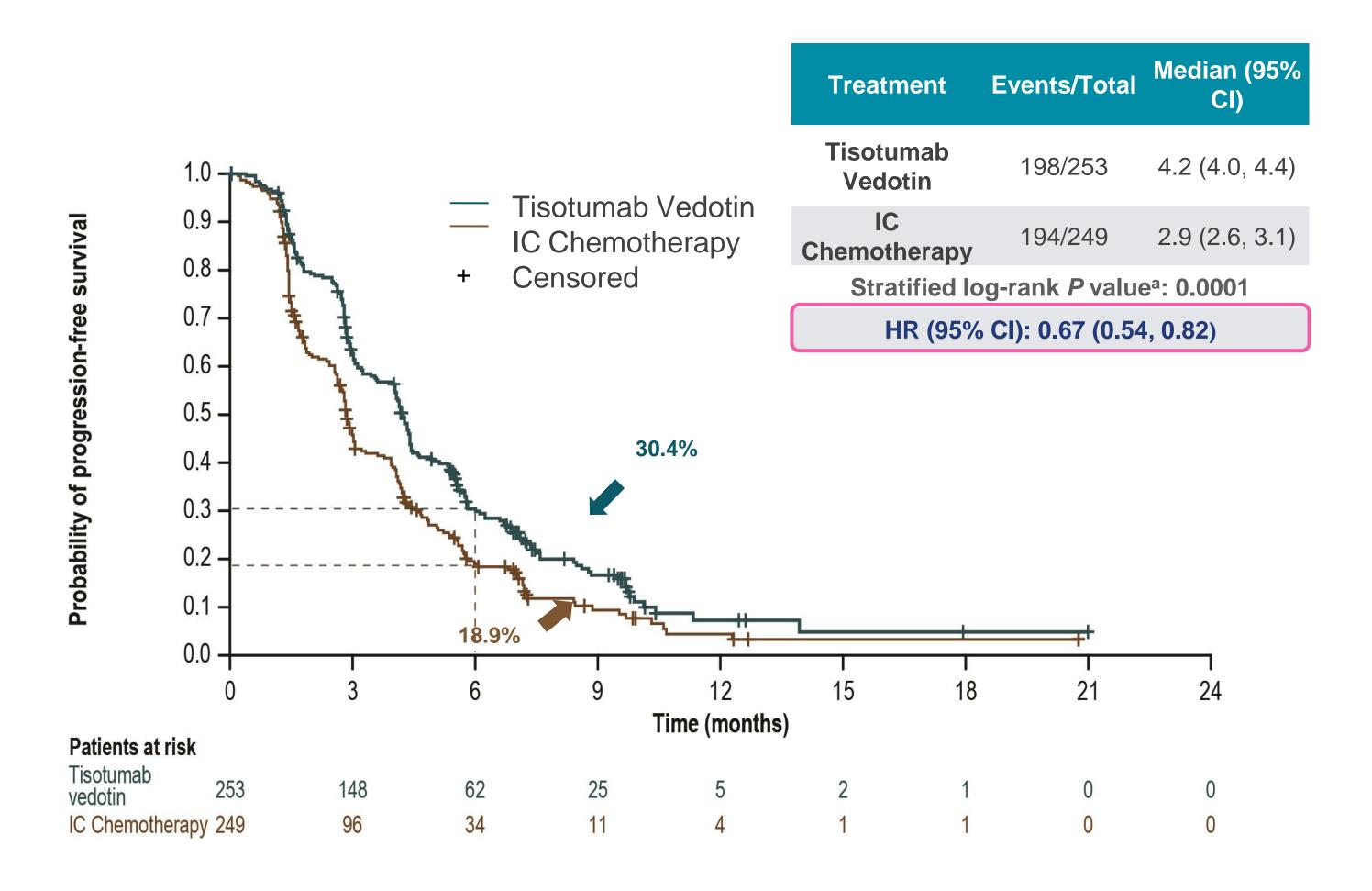
InnovaTV 301 (ENGOT cx-12/GOG 3057): Overall Survival

Overall Survival (Primary endpoint) Median (95% **Treatment Events/Total** CI) **Γisotumab Vedotin** IC Chemotherapy Censored 0.9 **Tisotumab** 123/253 11.5 (9.8, 14.9) Probability of overall survival 8.0 **Vedotin** 0.7 48.7% 0.6 **IC Chemotherapy** 140/249 9.5 (7.9, 10.7) 0.5 0.4 Stratified log-rank P value^a: 0.0038 0.3 0.2 -HR (95% CI): 0.70 (0.54, 0.89) 0.1 0.0 24 15 18 27 21 12 Time (months) Patients at risk Tisotumab 253 234 109 52 vedotin IC Chemotherapy 249 212 150 37





InnovaTV 301 (ENGOT cx-12/GOG 3057): PFS Per Investigator



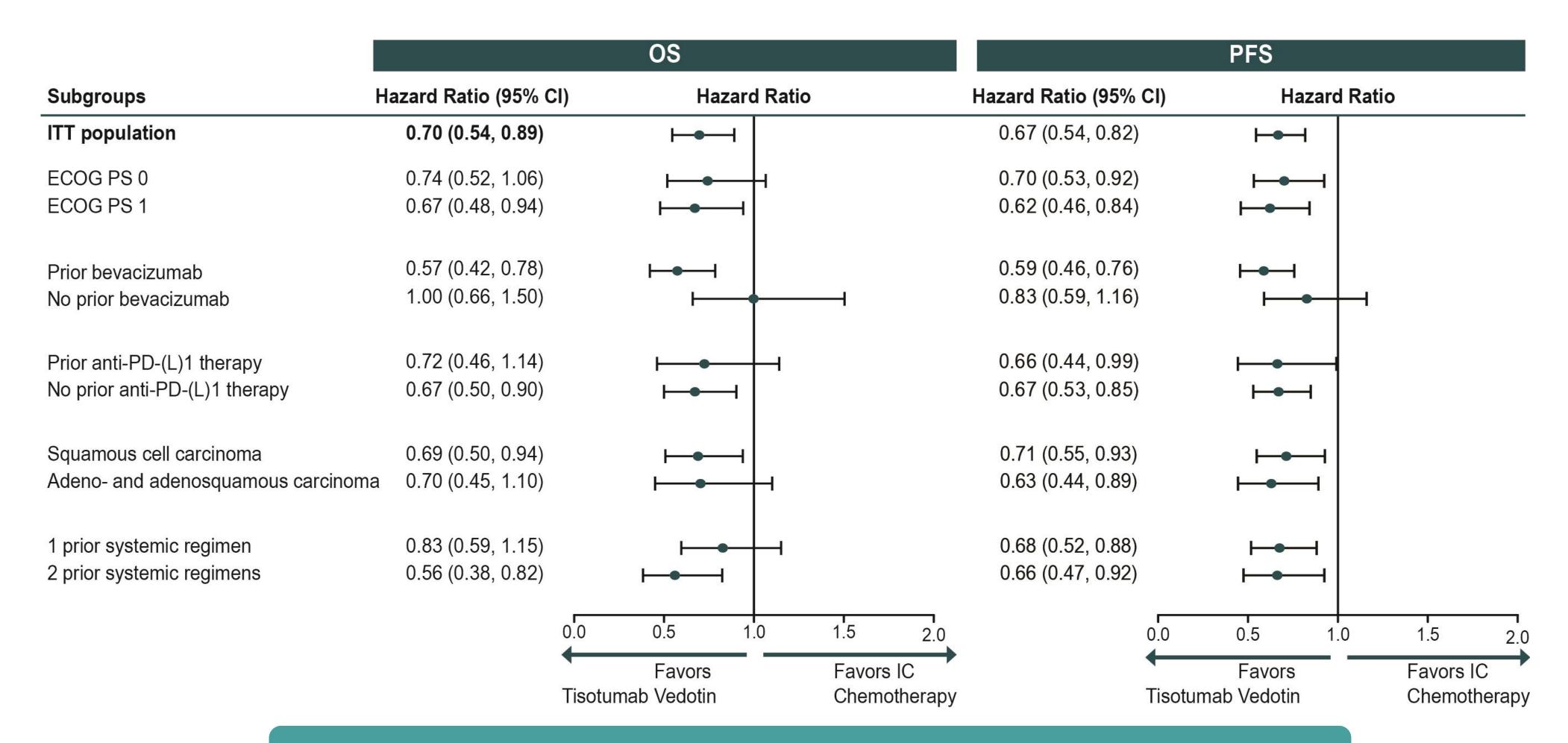
	Tisotumab Vedotin (N=253)	IC Chemotherapy
ORR, % (95% CI)	17.8 (13.3 - 23.1)	5.2 (2.8-8.8)
Odds ratio (95% CI) <i>P</i> value	4.0 (2.1-7.6) <i>P</i> <0.0001	
Best Overall Response, n (%)		
CR	6 (2.4)	0
PR	39 (15.4)	13 (5.2)
SD	147 (58.1)	132 (53.0)
PD	46 (18.2)	74 (29.7)
Not evaluable/Not available	15 (5.9)	30 (12.0)
DCRb, % (95% CI)	75.9 (70.1-81.0)	58.2 (51.8-64.4)
Median DOR (95% CI)	5.3 (4.2-8.3)	5.7 (2.8-NR)



CI, confidence interval; CR, complete response; DCR, disease control rate; HR, hazard ratio; IC, investigator choice; ORR, overall response rate; PD, progressive disease; PD-L1, programmed death-ligand 1; PFS, progression-free survival; PR, partial response; SD, stable disease.



InnovaTV 301 (ENGOT cx-12/GOG 3057): Key Subgroups – OS and PFS

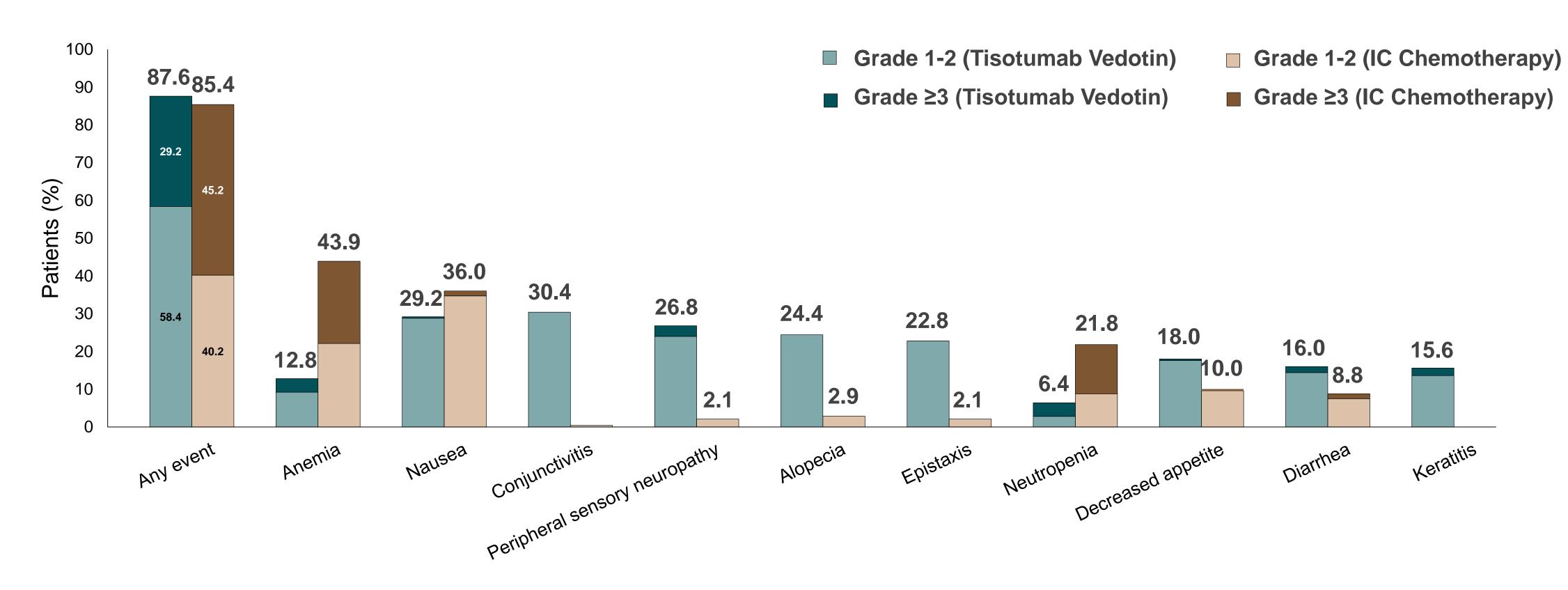


OS and PFS benefit was generally consistent across key subgroups





Most Common Treatment-Related Adverse Events

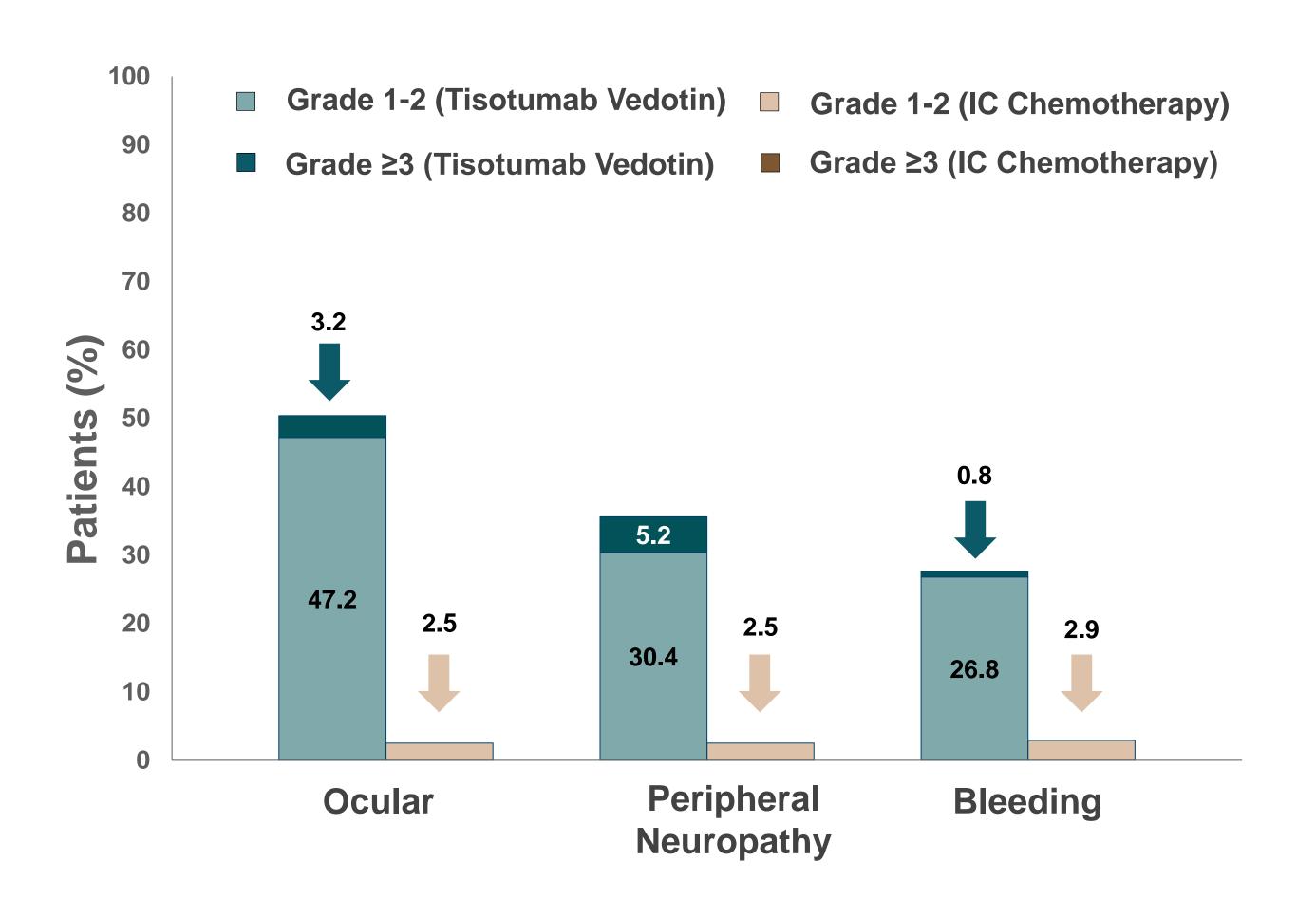


- Grade 5 TRAEs occurred in 2 (0.8%) and 1 (0.4%) patients in the Tisotumab vedotin and IC chemotherapy arms, respectively^{a,b}
- Median relative dose intensity was 96.1% and 90.0% in the Tisotumab vedotin and IC chemotherapy arms, respectively





Adverse Events of Special Interest for Tisotumab Vedotina



Three most common preferred terms for each AESI		
Ocular	Conjunctivitis (30.4%), keratitis (15.6%), dry eye (13.2%)	
Peripheral neuropathy	Peripheral sensory neuropathy (26.8%), paresthesia (2.8%), muscular weakness (2.4%), peripheral sensorimotor neuropathy (2.4%)	
Bleeding	Epistaxis (22.8%), hematuria (3.2%), vaginal hemorrhage (3.2%)	

- There were no grade 4 or 5 AESIs
- Dose discontinuation due to ocular and peripheral neuropathy events occurred in 5.6% of patients for each

