

# Cervical Cancer – SGO and ASCO updates Relevant ongoing studies

**Leslie M. Randall, MD, MAS**

The Diane Harris Wright Professor and Director  
Division of Gynecologic Oncology  
Virginia Commonwealth University  
Cervical Cancer Trials Advisor, GOG Partners

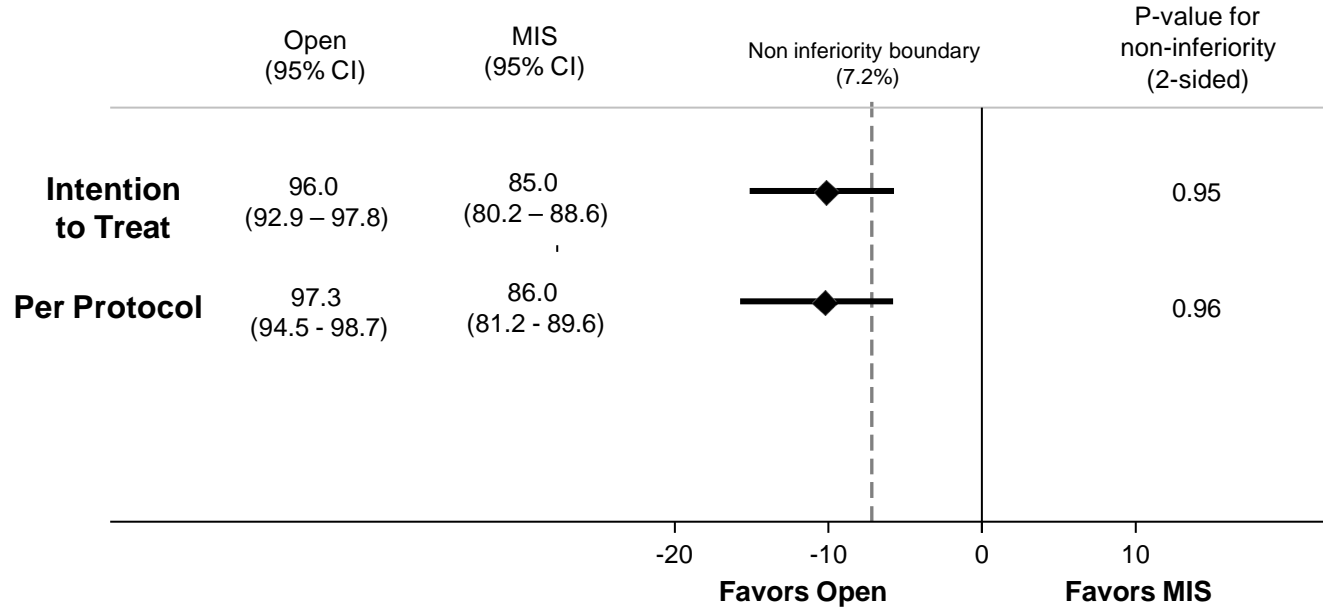
Friday, June 9, 2022

# **Open vs Minimally Invasive Radical Hysterectomy in Patients with Early-Stage Cervical Cancer (LACC Trial): Final Analysis**

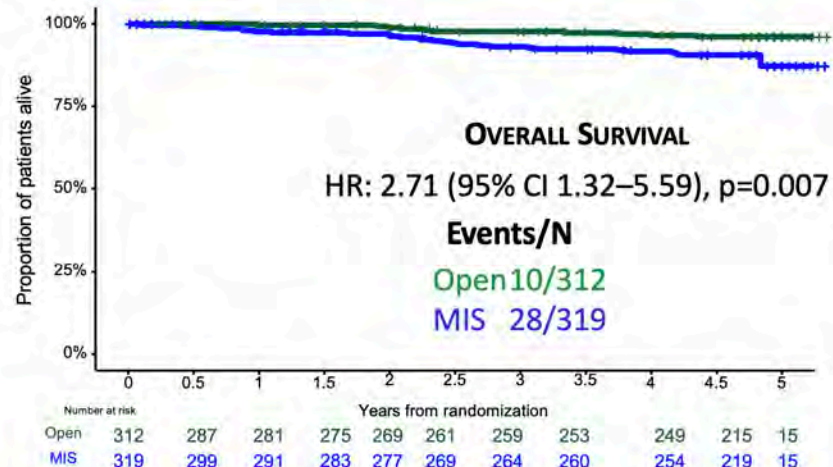
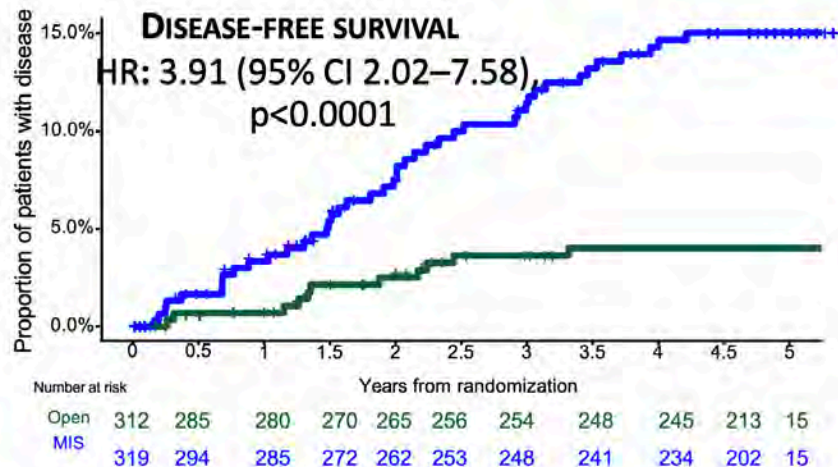
**Pedro T. Ramirez, MD**  
**Professor**  
**Department of Gynecologic Oncology & Reproductive Medicine**  
**The University of Texas MD Anderson Cancer Center**



## PRIMARY OUTCOME: DISEASE-FREE SURVIVAL AT 4.5 YEARS

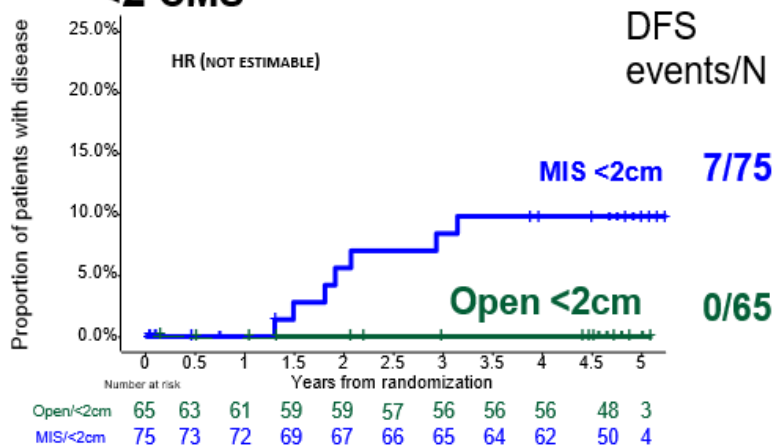


# LACC: Updated DFS and OS

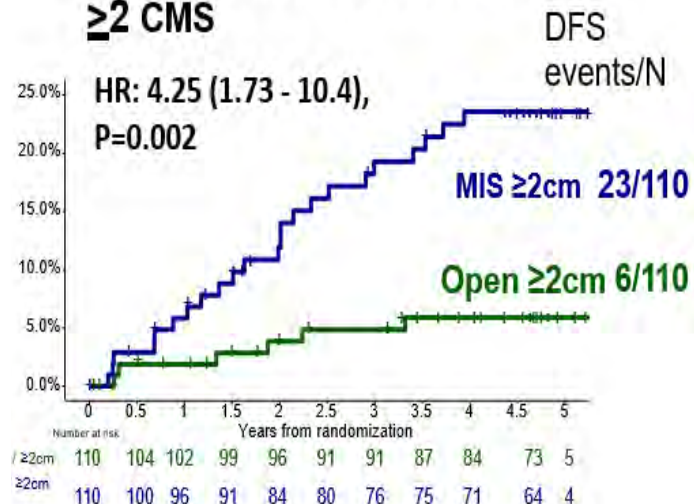


# DFS by tumor size (2 cm cutoff)

## TUMOR SIZE: OUTCOMES IN <2 CMS

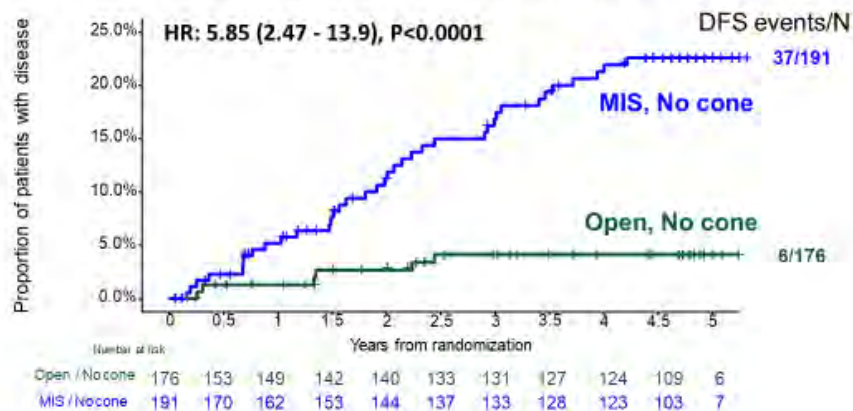


## TUMOR SIZE: OUTCOMES IN ≥2 CMS

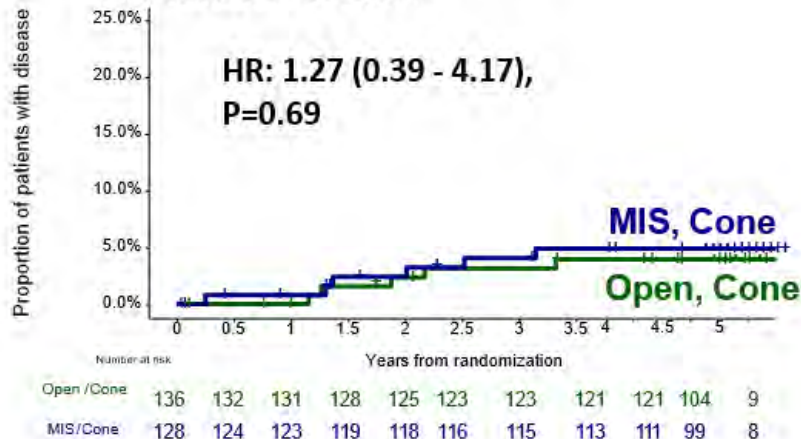


# DFS with or without prior cone biopsy

## CONIZATION OUTCOMES: NO PREVIOUS CONE



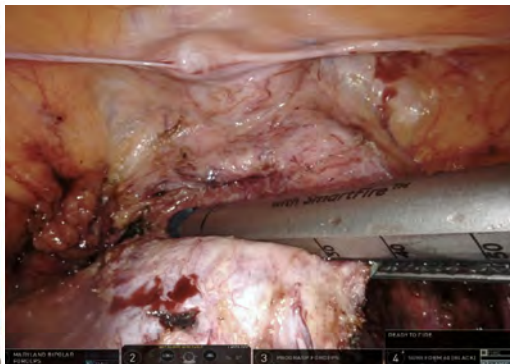
## CONIZATION OUTCOMES: PREVIOUS CONE



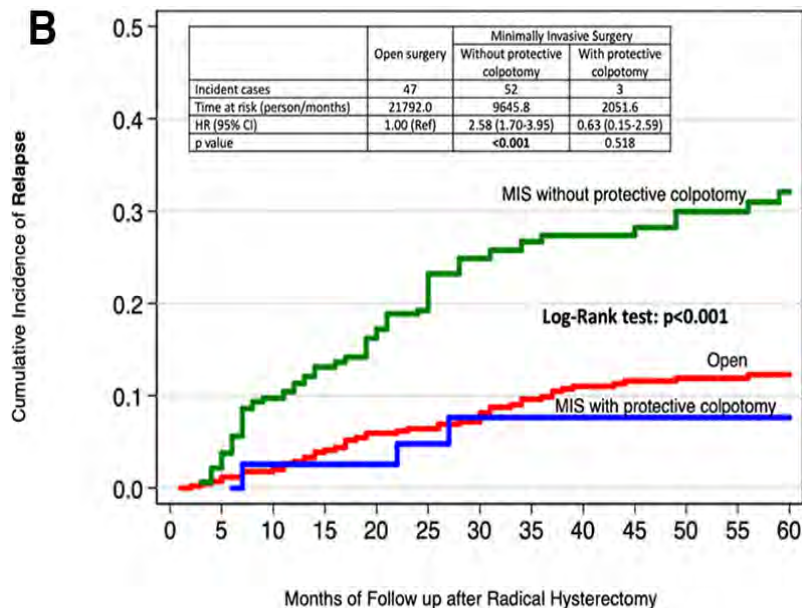
## CHARACTERISTICS OF RECURRENCE: CARCINOMATOSIS

	Open	MIS
Total recurrences	11	37
Carcinomatosis (randomized)	1 (9%)	8 (22%)
Carcinomatosis (received)	0	9 (24%)
Site of recurrence		
Vault	3 (27%)	6 (16%)
Pelvis	0 (0%)	10 (27%)
Abdomen	0 (0%)	2 (5%)
Distant	3 (27%)	2 (5%)
Multiple	3 (27%)	14 (38%)
Other	2 (18%)	3 (8%)

# Tumor containment: SUCCOR study



From video courtesy of Dr. Mario Leitao



Chiva L, Zanagnolo V, Querleu D, et al. Int J Gynecol Cancer 2020;30:1269–1277.





## GOG-3043 (ROCC Trial)

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

**GOG** FOUNDATION®  
Transforming the standard of care

**GOG** PARTNERS

**#GOGROCC**

PI: Kristin Bixel  
Mario Leitao

IA2-IB2 (FIGO 2018) (4cm cutoff)

- Histology: SCC, adeno, adenosquamous
- MRI required
- Uterus <12 cm

Randomized 1:1

Robotic radical  
hysterectomy\* +  
LN assessment  
(N=420)

Open radical  
hysterectomy\* +  
LN assessment  
(N=420)

↓ \*Tumor containment

**Primary Outcome: 3 year DFS**  
Secondary outcomes: DSS/OS, patterns  
of recurrence, complications,  
lymphedema, PRO's

**GOG** FOUNDATION®



### SYSTEMIC THERAPY FOR CERVICAL CANCER<sup>a</sup>

#### Squamous Cell Carcinoma, Adenocarcinoma, or Adenosquamous Carcinoma

Chemoradiation	Recurrent or Metastatic Disease		
	First-line Combination Therapy <sup>b,c</sup>	Possible First-line Single-agent therapy <sup>c</sup>	Second-line or Subsequent Therapy <sup>d</sup>
<b>Preferred Regimens</b> <ul style="list-style-type: none"> <li>• Cisplatin</li> <li>• Carboplatin if patient is cisplatin intolerant</li> </ul>	<b>Preferred Regimens</b> <ul style="list-style-type: none"> <li>• Pembrolizumab + cisplatin/paclitaxel ± bevacizumab for PD-L1–positive tumors (category 1)<sup>d,e,f,1</sup></li> <li>• Pembrolizumab + carboplatin/paclitaxel ± bevacizumab for PD-L1–positive tumors (category 1)<sup>d,e,f,1</sup></li> <li>• Cisplatin/paclitaxel/bevacizumab<sup>d,2</sup> (category 1)</li> <li>• Carboplatin/paclitaxel/bevacizumab<sup>d</sup></li> </ul> <b>Other Recommended Regimens</b> <ul style="list-style-type: none"> <li>• Cisplatin/paclitaxel (category 1)<sup>3,4</sup></li> <li>• Carboplatin/paclitaxel<sup>5,6</sup> (category 1 for patients who have received prior cisplatin therapy)</li> <li>• Topotecan/paclitaxel/bevacizumab<sup>d,2</sup> (category 1)</li> <li>• Topotecan/paclitaxel<sup>2</sup></li> <li>• Cisplatin/topotecan<sup>7</sup></li> </ul>	<b>Preferred Regimens</b> <ul style="list-style-type: none"> <li>• Cisplatin<sup>4</sup></li> </ul> <b>Other Recommended Regimens</b> <ul style="list-style-type: none"> <li>• Carboplatin<sup>8</sup></li> <li>• Paclitaxel<sup>9,10</sup></li> </ul>	<b>Preferred Regimens</b> <ul style="list-style-type: none"> <li>• Pembrolizumab for PD-L1–positive or MSI-H/dMMR tumors<sup>e,f,11</sup></li> <li>• Nivolumab for PD-L1–positive tumors<sup>e,f,12</sup></li> </ul> <b>Other Recommended Regimens</b> (All agents listed here are category 2B unless otherwise noted) <ul style="list-style-type: none"> <li>• Bevacizumab<sup>d</sup></li> <li>• Albumin-bound paclitaxel</li> <li>• Docetaxel</li> <li>• Fluorouracil</li> <li>• Gemcitabine</li> <li>• Ifosfamide</li> <li>• Irinotecan</li> <li>• Mitomycin</li> <li>• Pemetrexed</li> <li>• Topotecan</li> <li>• Vinorelbine</li> </ul> <ul style="list-style-type: none"> <li>• Tisotumab vedotin-tftv (category 2A)<sup>13</sup></li> </ul> <b>Useful in Certain Circumstances</b> <ul style="list-style-type: none"> <li>• Pembrolizumab for TMB-H tumors<sup>e,h</sup></li> <li>• Larotrectinib or entrectinib for <i>NTRK</i> gene fusion-positive tumors (category 2B)</li> </ul>

# 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)

R  
1:1

**Pembrolizumab 200 mg IV Q3W**  
for up to 35 cycles

+

**Paclitaxel + Cisplatin or Carboplatin IV Q3W**  
for up to 6 cycles<sup>a</sup>

±

**Bevacizumab 15 mg/kg IV Q3W**

**Placebo IV Q3W**  
for up to 35 cycles

+

**Paclitaxel + Cisplatin or Carboplatin IV Q3W**  
for up to 6 cycles<sup>a</sup>

±

**Bevacizumab 15 mg/kg IV Q3W**

## End Points

- **Dual primary:** OS and PFS per RECIST v1.1 by investigator
- **Secondary:** ORR, DOR, 12-mo PFS, and safety
- **Exploratory:** PROs assessed per EuroQol EQ-5D-5L VAS

<sup>a</sup>Paclitaxel: 175 mg/m<sup>2</sup>. Cisplatin: cisplatin 50 mg/m<sup>2</sup>. 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.

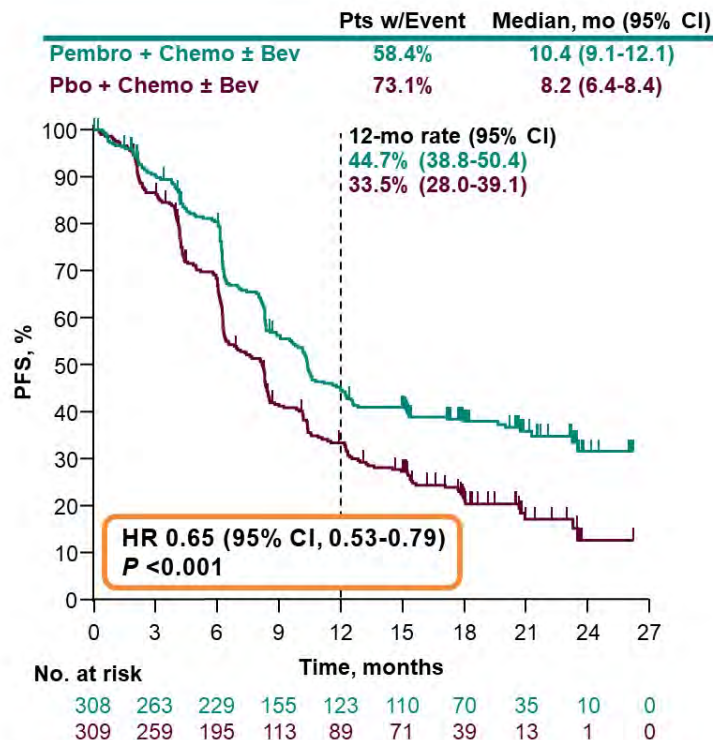
CPS, combined positive score (number of PD-L1–staining cells [tumor cells, lymphocytes, macrophages] divided by the total number of viable tumor cells, multiplied by 100);

PROs, patient-reported outcomes; VAS, visual analog scale. KEYNOTE-826 ClinicalTrials.gov identifier, NCT03635567.

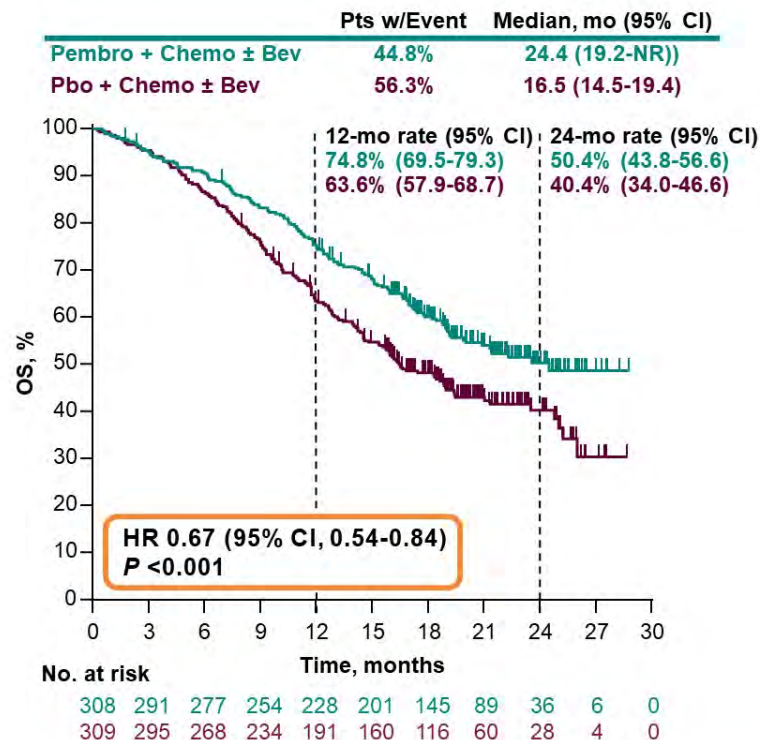


# Dual Primary Endpoints: All-Comer Population

## PFS<sup>a</sup>



## OS



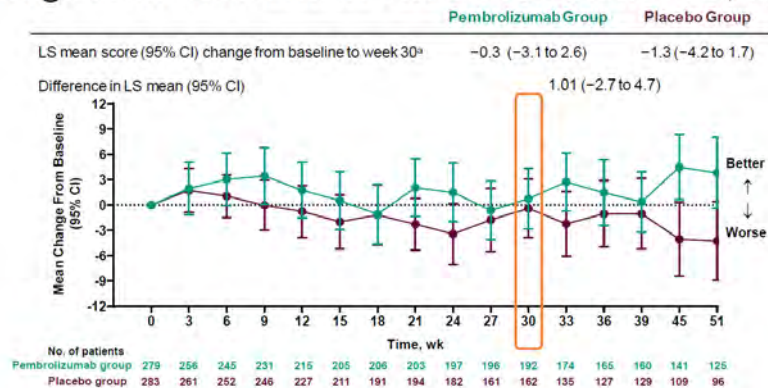
Colombo N et al. *N Engl J Med* 2021;385:1856-67.

<sup>a</sup>Response assessed per RECIST v1.1 by investigator review.

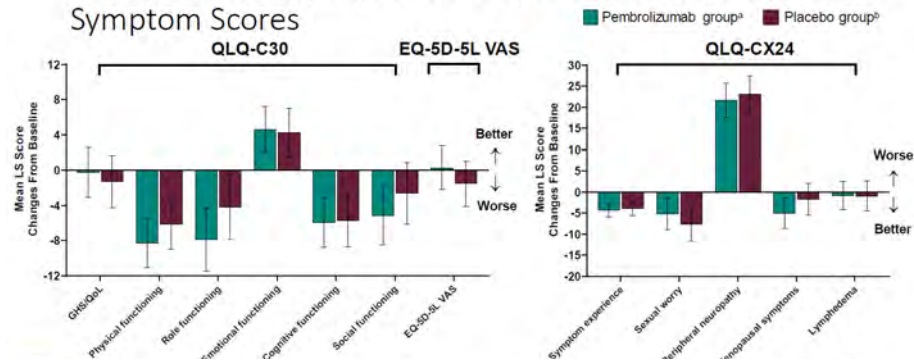
Data cutoff date: May 3, 2021.

# IMPROVED QoL/PROs with pembrolizumab

## Change From Baseline in EORTC QLQ-C30 GHS/QoL

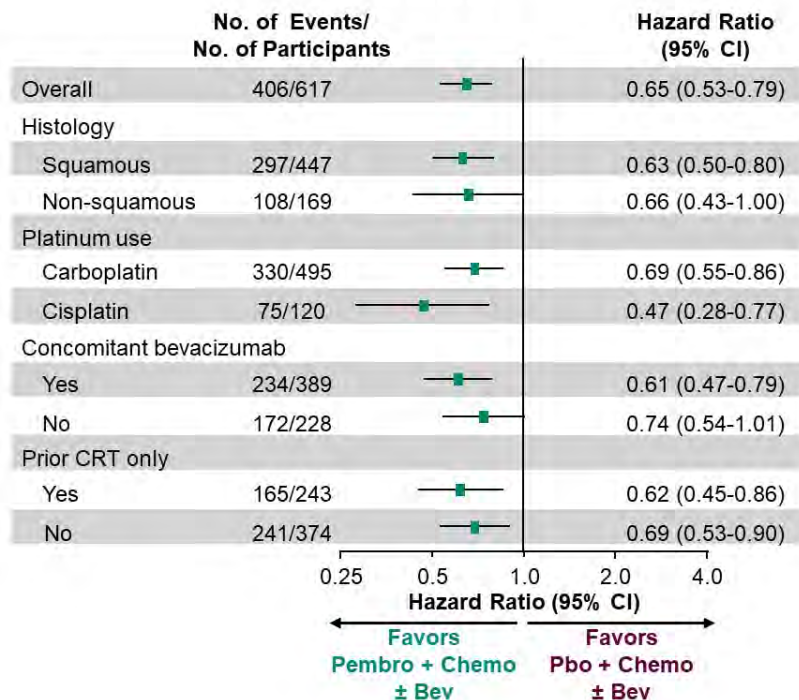


## Change From Baseline to Week 30 in QLQ-C30 Functional Scales, EQ-5D-5L VAS, and QLQ-CX24 Cervical Symptom Scores

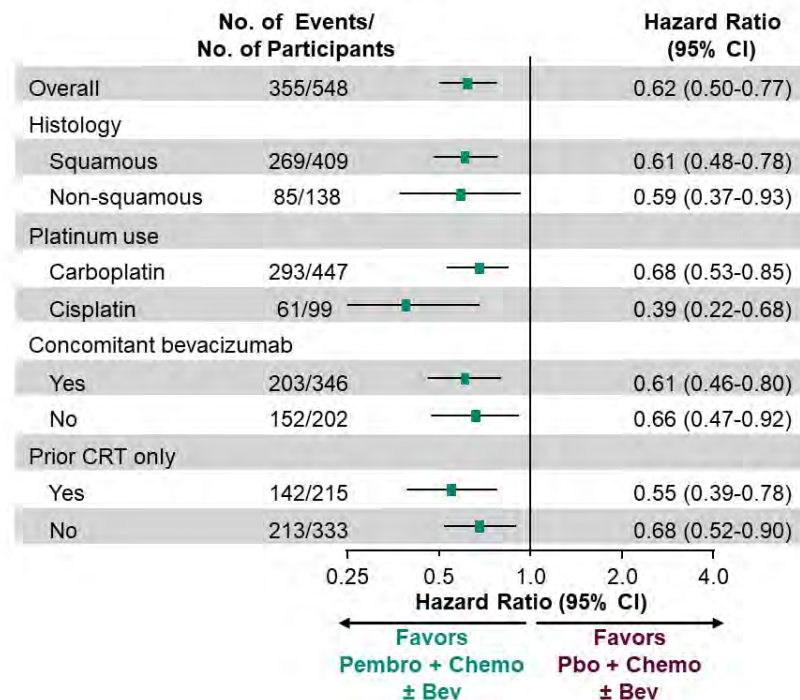


# PFS: Subgroups, All-Comer and CPS $\geq 1$ Populations

## All-Comer



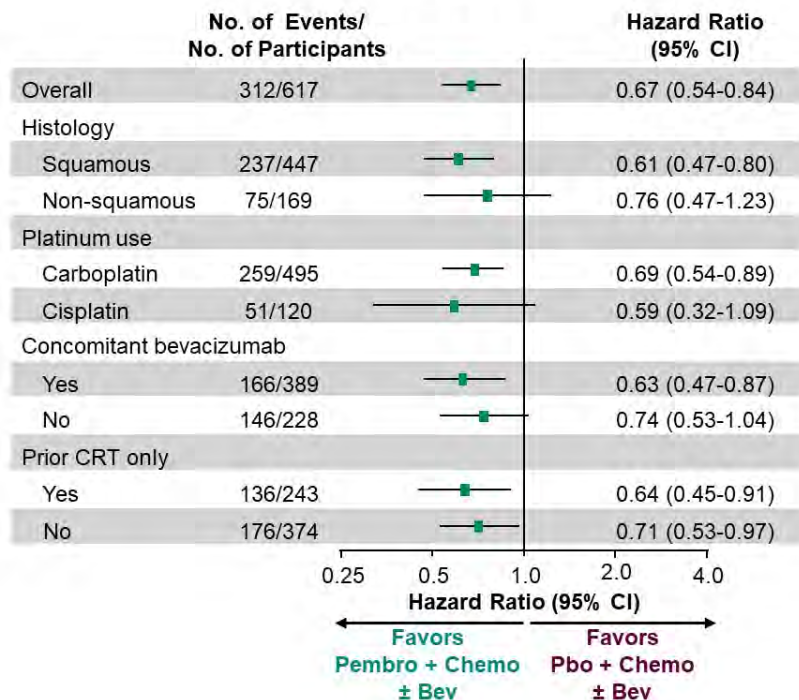
## CPS $\geq 1$



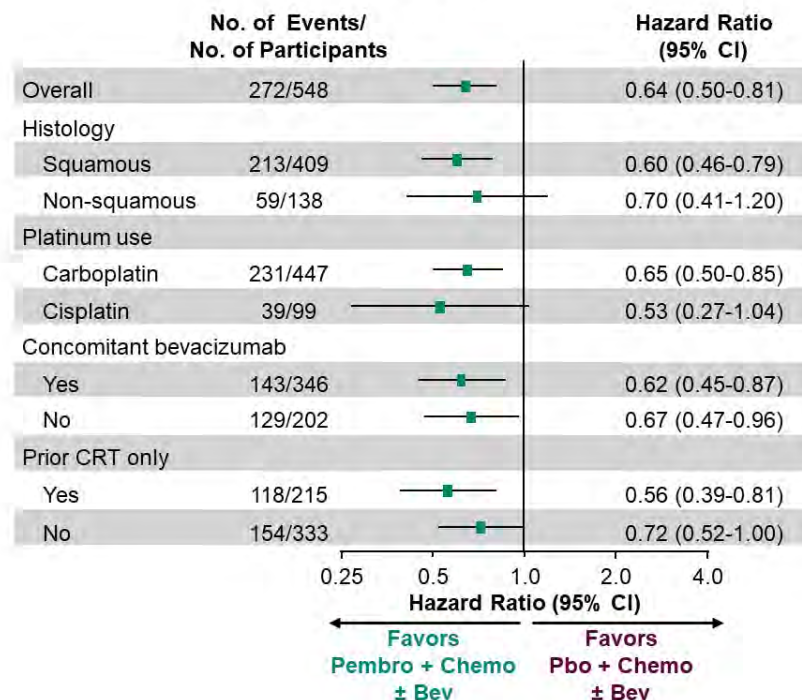
Response assessed per RECIST v1.1 by investigator review.  
Data cutoff date: May 3, 2021.

# OS: Subgroups, All-Comer and CPS $\geq 1$ Populations

## All-Comer



## CPS $\geq 1$

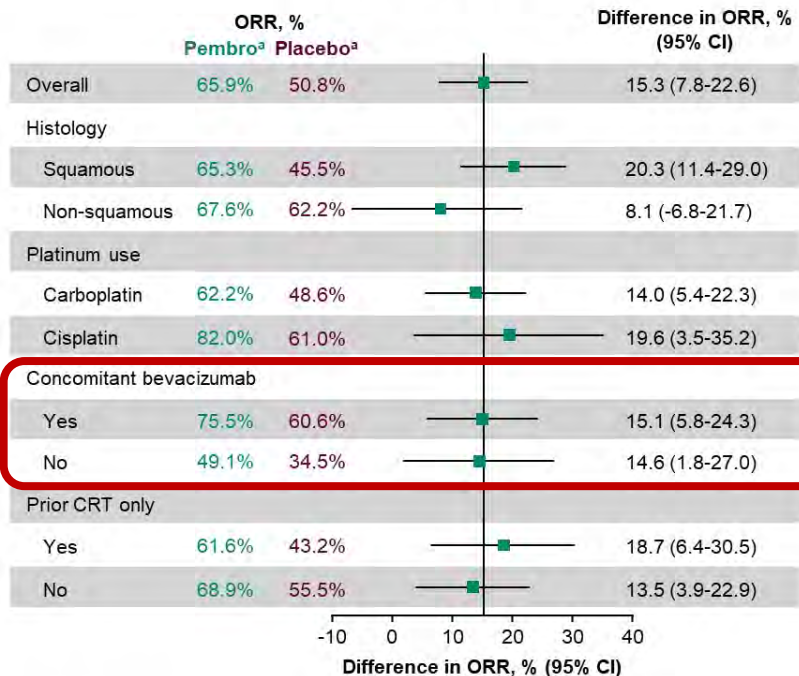


Data cutoff date: May 3, 2021.

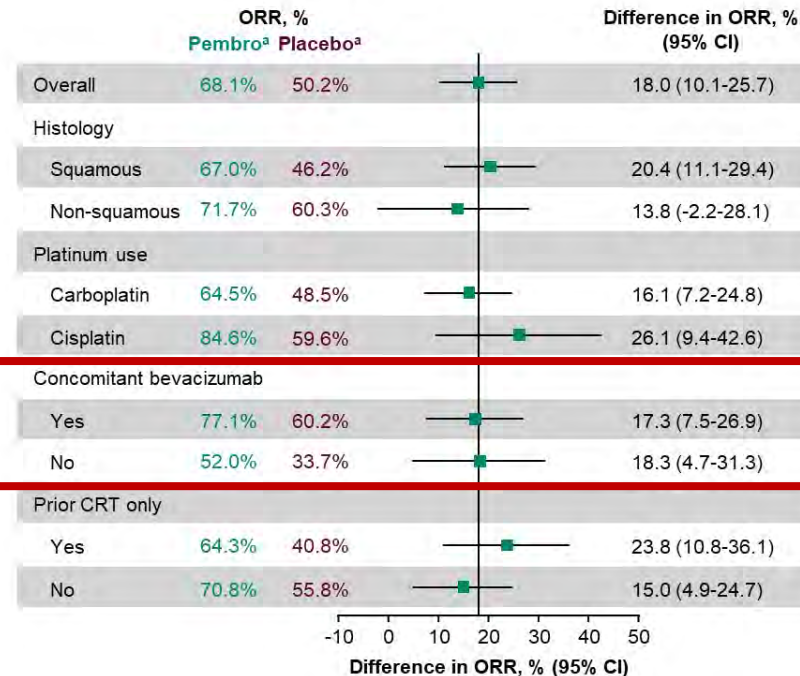


# ORR: All-Comer and CPS ≥1 Populations

## All-Comer



## CPS ≥1



Response assessed per RECIST v1.1 by investigator review.

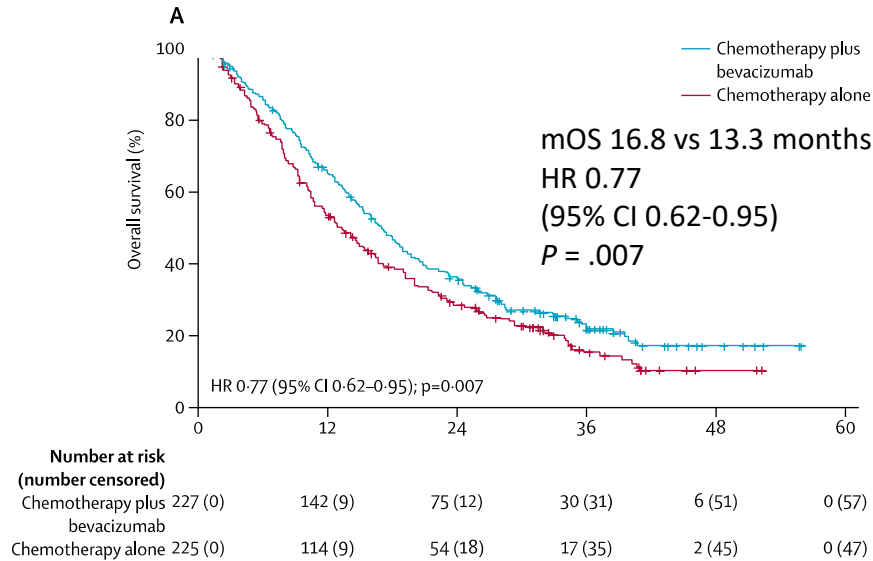
<sup>a</sup>The treatment regimen in both arms included chemo ± bev.

Data cutoff date: May 3, 2021.

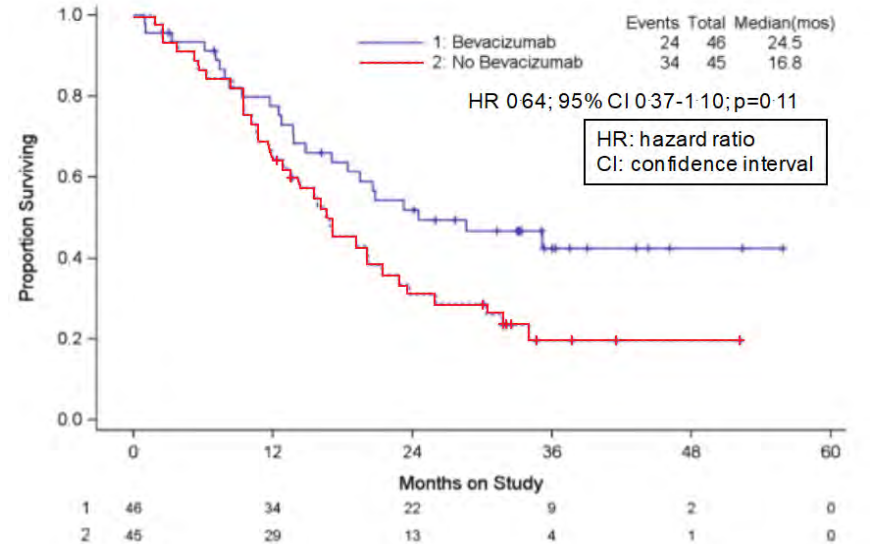


# GOG 240 : SOC for PDL1- and PDL1+

## Intent to Treat



## \*Not Previously Irradiated

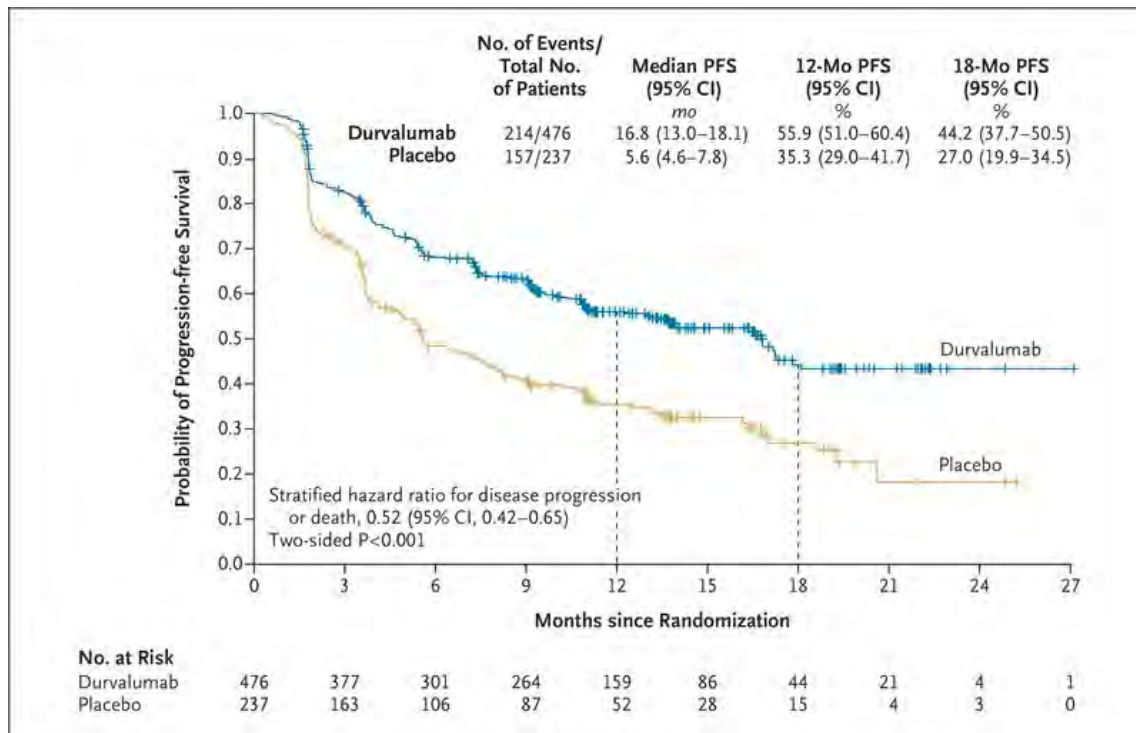


\*Not analytical

# From last Highlight Reel....



# PACIFIC: Anti-PD-L1 therapy post-CRT for locally-advanced lung cancer



# Press Release March 24, 2022



AstraZeneca Websites Global site

What science can do R&D ▾ Our therapy areas ▾ Our company ▾ Careers Investors ▾ Media ▾ Sustainability ▾ Partnering ▾

## *Update on CALLA Phase III trial of concurrent use of Imfinzi and chemoradiotherapy in locally advanced cervical cancer*

PUBLISHED  
24 March 2022

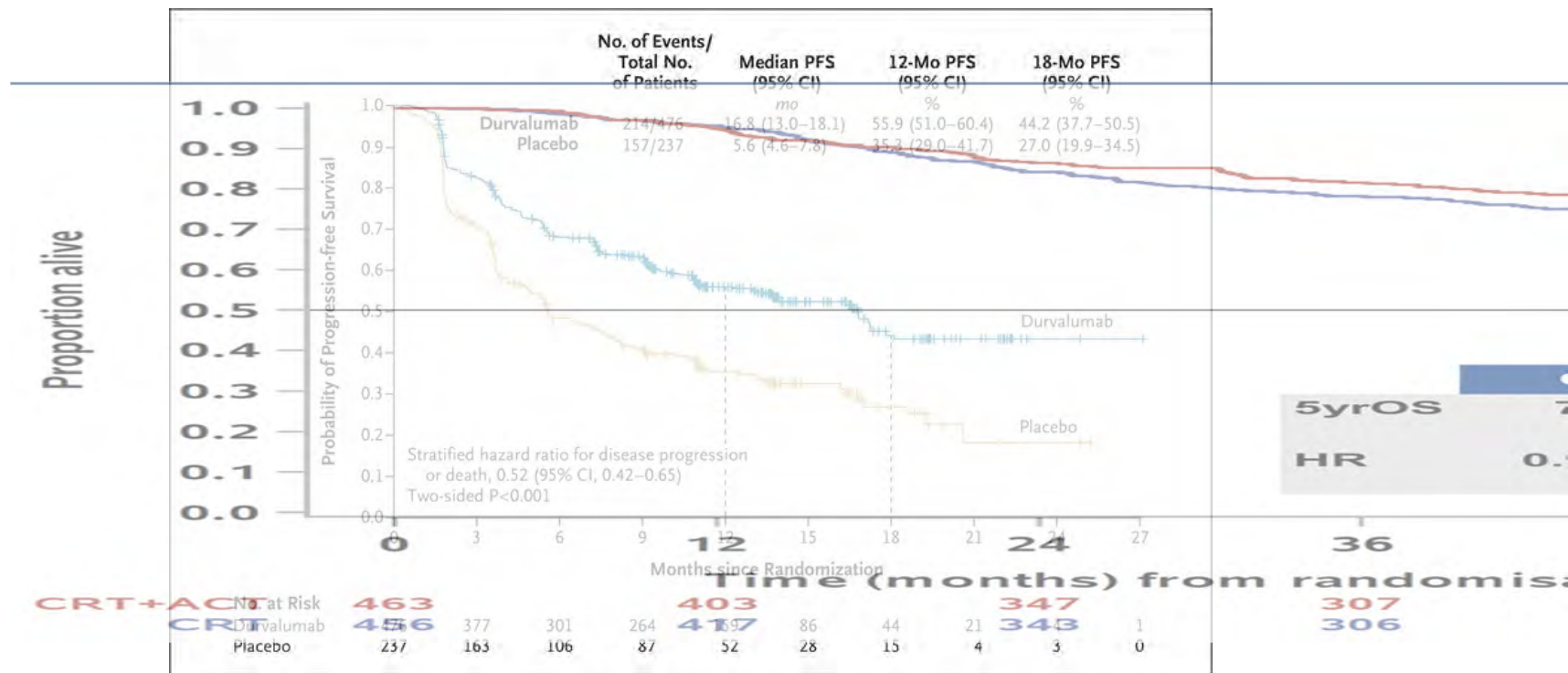
24 March 2022 07:00 GMT

The CALLA Phase III trial for AstraZeneca's *Imfinzi* (durvalumab) given concurrently with chemoradiotherapy (CRT) did not achieve statistical significance for the primary endpoint of improving progression-free survival (PFS) versus CRT alone in the treatment of patients with locally advanced cervical cancer.

<https://www.astrazeneca.com/content/astraz/media-centre/press-releases/2022>

**GOG** FOUNDATION\*

# PACIFIC<sup>1</sup> vs OUTBACK<sup>2</sup>



1. Antonia SJ et al. Engl J Med. 2017 Nov 16;377(20):1919-1929.

2. Mileszkin L et al. ASCO 2021



# #5531 Staging locally advanced cervical cancer with FIGO 2018 versus FIGO 2008 impact on overall survival and progression-free survival in the OUTBACK trial (ANZGOG 0902, RTOG 1174, NRG 0274)

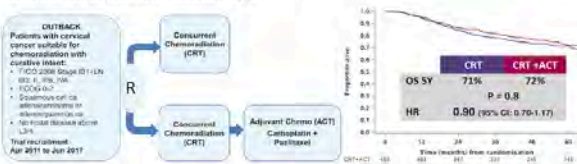


Linda R. Mileschkin, Kathleen N. Moore, Elizabeth H. Barnes, Yeh Chen Lee, Val GebSKI, Kailash Narayan, Nathan Bradshaw, Katrina Diamante, Anthony W. Fyles, William Small Jr., David K. Gaffney, Pearly Khaw, Susan Brooks, Spencer Thompson, Warner King Huh, Matthew Carlson, Katina Robison, Danny Rischin, Martin R. Stockler, Bradley J. Monk

## Background & Methods

The International Federation of Obstetrics and Gynecology staging system for cervical cancer (FIGO 2008) was revised in 2018 to incorporate lymph node involvement (FIGO 2018). We evaluated the effects of classifying participants (pts) with these 2 staging systems in the OUTBACK trial population.

OUTBACK is an international, randomized phase 3 trial of adjuvant chemotherapy versus observation after standard of care treatment with chemoradiation for women with locally advanced cervical cancer. OUTBACK found no benefit from the addition of adjuvant chemotherapy.



We assessed the effects of stage grouping into stage I, II, and III/IVa with FIGO 2008 versus FIGO 2018, on progression-free survival (PFS) and overall survival (OS) at 5 years using Kaplan-Meier estimates

We used Cox proportional hazard regression to perform univariable analyses, and multivariable analyses adjusting for important prognostic factors and randomly allocated treatment.

## Results

All 919 pts had complete data for staging according to the 2 staging systems and most prognostic factors for adjustment.

Among all participants, the 5-year outcomes were PFS = 62% and OS = 72%.

Classification according to FIGO 2018 rather than FIGO 2008 yielded higher 5-year PFS and OS in each stage group

	Number (%)		5-year PFS %		5-year OS %	
Stage	FIGO 2008	FIGO 2018	FIGO 2008	FIGO 2018	FIGO 2008	FIGO 2018
I	242 (26)	105 (11)	71	81	78	89
II	457 (50)	261 (28)	65	68	75	78
III/IVa	220 (24)	553 (60)	48	56	58	66

Both staging systems were the only independently significant prognostic factors in both univariable and multivariable analyses (all  $p < 0.0001$ ) for both PFS and OS.

## Conclusions

Staging locally advanced cervical cancer using FIGO 2018 rather than FIGO 2008 resulted in higher PFS and OS in each stage grouping that **reflected stage migration, rather than a true improvement in outcomes.**

Compared with staging using FIGO 2008, reclassifying using FIGO 2018 resulted in more pts being classified as stage 3 due to the incorporation of nodal status.

FIGO stage remains the strongest predictor of OS after CRT but survival outcomes by stage in trials using the old vs new staging system are not comparable.

Predictor of OVERALL SURVIVAL		Univariable analysis		Multivariable analysis			
	Value	HR (95% CI)	P-value	FIGO 2008		FIGO 2018	
FIGO 2008 (Ref=Stage I)	Stage II (2008)	1.15 (0.81-1.64)	0.43	1.20 (0.85-1.70)	0.31		
	Stage III-IV (2008)	2.37 (1.65-3.46)	<0.01	2.42 (1.68-3.49)	<0.01		
FIGO 2018 (Ref=Stage I)	Stage II (2018)	1.86 (0.97-3.62)	0.06			1.78 (0.83-3.45)	0.08
	Stage III-IV (2018)	3.23 (1.78-5.84)	<0.01			3.14 (1.75-5.73)	<0.01
Age (Ref=<60)	≥60	1.10 (0.77-1.56)	0.60	1.07 (0.75-1.53)	0.71	1.15 (0.81-1.65)	0.43
Histology (Ref=Non-squamous)	Squamous cell ca	1.14 (0.82-1.58)	0.44	1.01 (0.72-1.41)	0.97	1.05 (0.75-1.46)	0.78
Smoking status (Ref=Never smoked)	Current/ex-smoker/unknown	1.18 (0.80-1.73)	0.21	1.15 (0.80-1.65)	0.30	1.15 (0.80-1.65)	0.31
Race (Ref=White/Caucasian)	All other/unknown	0.90 (0.67-1.21)	0.49	0.94 (0.69-1.27)	0.68	0.92 (0.68-1.25)	0.60
Pelvic/common iliac node (Ref=No/unknown)	Yes	1.58 (1.13-2.05)	<0.01	1.59 (1.12-2.07)	<0.01		
Randomised treatment (Ref=CRT)	CRT + Adjuvant	0.90 (0.70-1.17)	0.43	0.86 (0.66-1.12)	0.25	0.88 (0.68-1.14)	0.34

Predictor of PROGRESSION FREE SURVIVAL		Univariable analysis		Multivariable analysis			
	Value	HR (95% CI)	P-value	FIGO 2008		FIGO 2018	
FIGO 2008 (Ref=Stage I)	Stage II (2008)	1.26 (0.89-1.68)	0.13	1.34 (0.97-1.85)	0.05		
	Stage III-IV (2008)	2.18 (1.60-2.97)	<0.01	2.35 (1.71-3.22)	<0.01		
FIGO 2018 (Ref=Stage I)	Stage II (2018)	1.82 (1.09-3.04)	0.02			1.80 (1.07-3.01)	0.03
	Stage III-IV (2018)	2.72 (1.69-4.40)	<0.01			2.80 (1.73-4.59)	<0.01
Age (Ref=<60)	≥60	1.04 (0.77-1.41)	0.79	1.03 (0.76-1.41)	0.83	1.09 (0.80-1.48)	0.58
Histology (Ref=Non-squamous)	Squamous cell ca	0.80 (0.62-1.04)	0.10	0.71 (0.54-0.93)	0.01	0.74 (0.56-0.96)	0.02
Smoking status (Ref=Never smoked)	Current/ex-smoker/unknown	1.10 (0.89-1.37)	0.38	1.11 (0.89-1.39)	0.35	1.12 (0.89-1.40)	0.33
Race (Ref=White/Caucasian)	All other/unknown	1.09 (0.80-1.50)	0.49	1.16 (0.86-1.56)	0.24	1.13 (0.86-1.47)	0.33
Pelvic/common iliac node (Ref=No/unknown)	Yes	1.44 (1.12-1.80)	<0.01	1.50 (1.12-1.88)	<0.01		
Randomised treatment (Ref=CRT)	CRT + Adjuvant	0.86 (0.69-1.08)	0.19	0.85 (0.68-1.05)	0.19	0.87 (0.69-1.08)	0.22

Contact: Linda.Mileschkin@petermac.org

We acknowledge and thank women participating and their families; Staff at sites in the USA, Australia, New Zealand, Canada, China, Singapore, Saudi Arabia; Staff at the NIMRC Clinical Trials Centre, Australia; New Zealand Gynaecological Oncology Group (ANZGOG), and NRG Oncology; NIMRC Project Grant (APP1044349) and US NCI for financial support; Hospira for providing paclitaxel in Australia and New Zealand; and IDSMC members



Predictor of <b>OVERALL SURVIVAL</b>		Univariable analysis		Multivariable analysis				
				FIGO 2008		FIGO 2018		
	Value	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value	
<b>FIGO 2008</b> (Ref=Stage I)	Stage II (2008)	1.15 (0.81 - 1.63)	0.43	1.20 (0.85 - 1.70)	0.31			
	Stage III-IV (2008)	2.37 (1.65 - 3.38)	<.01	2.42 (1.68 - 3.49)	<.01			
<b>FIGO 2018</b> (Ref=Stage I)	Stage II (2018)	1.86 (0.97 - 3.57)	0.06			1.78 (0.93 - 3.43)	0.08	
	Stage III-IV (2018)	3.23 (1.75 - 5.94)	<.01			3.14 (1.70 - 5.78)	<.01	
<b>Age</b> (Ref=<60)	≥60	1.10 (0.77 - 1.56)	0.60	1.07 (0.75 - 1.53)	0.71	1.15 (0.81 - 1.65)	0.43	
<b>Histology</b> (Ref=Non-squamous)	Squamous cell ca	1.14 (0.82 - 1.59)	0.44	1.01 (0.72 - 1.41)	0.97	1.05 (0.75 - 1.46)	0.78	
<b>Smoking status</b> (Ref=Never smoked)	Current/ex-smoker/unknown	1.18 (0.91 - 1.53)	0.21	1.15 (0.88 - 1.50)	0.30	1.15 (0.88 - 1.49)	0.31	
<b>Race</b> (Ref=White/Caucasian)	All other/unknown	0.90 (0.67 - 1.21)	0.49	0.94 (0.69 - 1.27)	0.68	0.92 (0.68 - 1.25)	0.60	
<b>Pelvic/common iliac node</b> (Ref=No/unknown)	Yes	1.58 (1.21 - 2.05)	<.01	1.59 (1.22 - 2.07)	<.01			
<b>Randomised treatment</b> (Ref=CRT)	CRT + Adjuvant	0.90 (0.70 - 1.17)	0.43	0.86 (0.66 - 1.11)	0.25	0.88 (0.68 - 1.14)	0.34	

# Benchmarks in higher risk population (PA node +)

Study	Design	PA nodal status Histology (H), Imaging (I), either (E)	PF at 30 months (%)*
Berman et al.	Retrospective/obs	Positive (H)	25 (36 mos)
Perry et al	Retrospective/obs	Positive (H)	28
Varia et al GOG 125	Prospective/CRT with extended field	Positive (H)	42(FIGO II) 24 (FIGO III/IV)
Walker et al. GOG 9804	Prospective/CRT with paclitaxel	Positive (H)	71 (OS)
Boardman et al. GOG 98	Prospective/CRT with OUTBACK cis/paclitaxel	Positive (E)	60 (projected)

**Berman ML et al. Gynecol Oncol. 1984 Sep;19(1):8-16. Perry LJ et al. Int J Gynecol Cancer. 2014 Mar;24(3):564-9. Varia MA et al. Int J Radiat Oncol Biol Phys. 1998 Dec 1;42(5):1015-23. Walker J et al. Gynecol Oncol. 2009 Jan;112(1):78-84. Boardman CH et al. Gynecol Oncol. 2018 Nov;151(2):202-207. Rose PG et al. J Clin Oncol. 2007 Jul 1;25(19):2804-10. Mileschkin and Moore KN et al. ASCO 2021 LBA 3.**

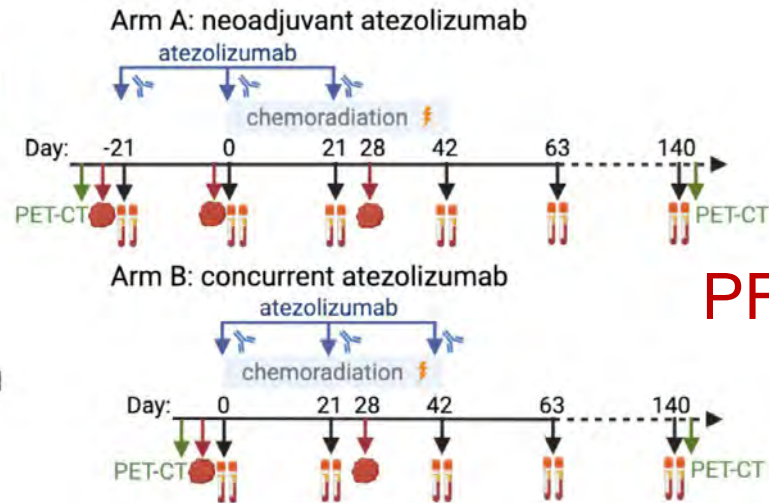


# PA node + focus-highest risk



Cervical cancer:  
Stage IB-IVA, +PALN  
Stage IIB-IVA, + PLN, +/-PALN

Biopsy   
Blood 



PFS at 30 months  
62-78%

Frontline ICI trial	Population	Investigational Agent Duration	Design (n)	Primary endpoint(s)
CALLA (NCT03830866) PI Brad Monk	FIGO 2009 IB2-IIIB node + IIIA-IVA node +/-	Durvalumab During CRT + 24 months	Phase 3 2 arm 1:1 CRT control (714)	PFS
ENGOT cx11/GOG 3047/ KEYNOTE-A18 (NCT04221945) PI Ketta LoRusso		Pembrolizumab During CRT + 24 months	Phase 3 2 arm 1:1 CRT control (980)	PFS/OS
ATEZOLACC (NCT03612791) PI Cyrus Chhargari		Atezolizumab During CRT + 14 months	Phase 2 2 arm 1:1 CRT control (189)	PFS
GEICO 78-C/ATOMICC (NCT03833479) PI Ana Oaknin		Dostarlimab Following CRT 24 months	Phase 2 2 arm 1:2 CRT control (132)	PFS

# GOG-3028 - A Two Arm, Randomized, Non Comparative Blinded Phase 2 Trial of Balstilimab +/- Zalifrelimab in Second Line Cervical Cancer

## RaPiDS

### Patient Eligibility

- Cervical cancer that has relapsed after a platinum-based treatment (first line) regimen for advanced (recurrent, unresectable, or metastatic) disease
- Measurable disease on imaging based on RECIST version 1.1
- ECOG PS  $\leq 1$
- sufficient and adequate formalin-fixed paraffin embedded (FFPE)

Randomization 1:1

### Treatment up to 24 months

Balstilimab (300 mg) every 3 weeks  
Placebo every 6 weeks

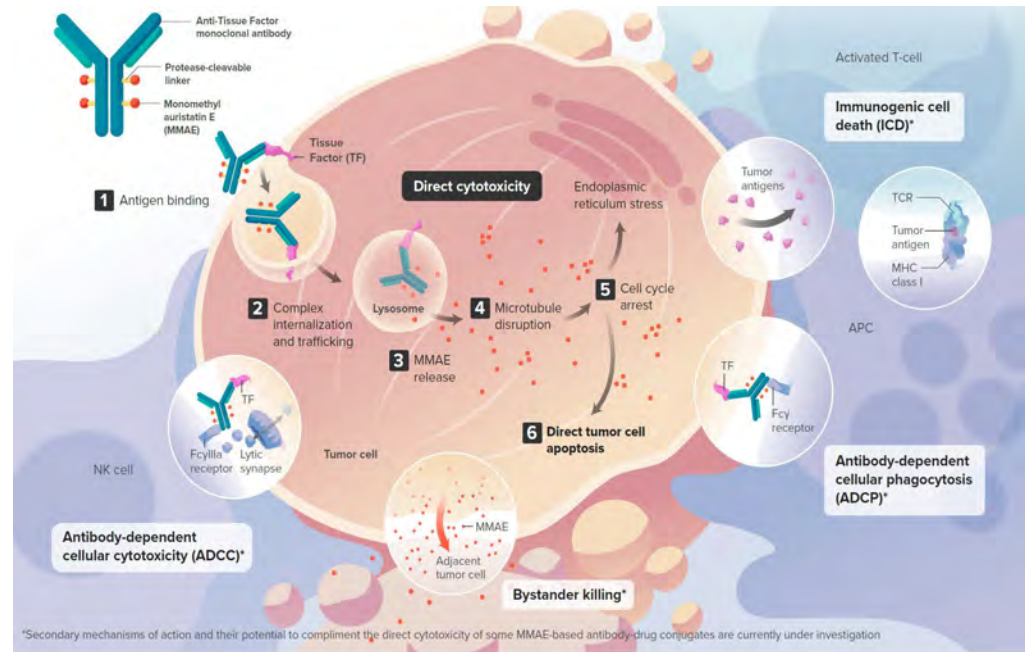
Balstilimab (300 mg) every 3 weeks  
Zalifrelimab (1 mg/kg) every 6 weeks

### Primary Endpoint

- ORR according to RECIST 1.1

# Tisotumab Vedotin (TV)

- Tisotumab vedotin is an investigational antibody–drug conjugate directed to TF and covalently linked to the microtubule-disrupting agent, MMAE, via a protease-cleavable linker<sup>1,2</sup>
  - TF is a protein highly expressed in cervical cancer and other solid tumors<sup>3-6</sup>
- Multimodal MOA of tisotumab vedotin<sup>1,2,7</sup>
  - Direct cytotoxicity
  - Bystander killing
  - Immunogenic cell death
  - ADCC
  - ADCP



.ADCC, antibody-dependent cellular cytotoxicity; ADCP, antibody-dependent cellular phagocytosis; MMAE, monomethyl auristatin E; MOA, mechanism of action; TF, tissue factor

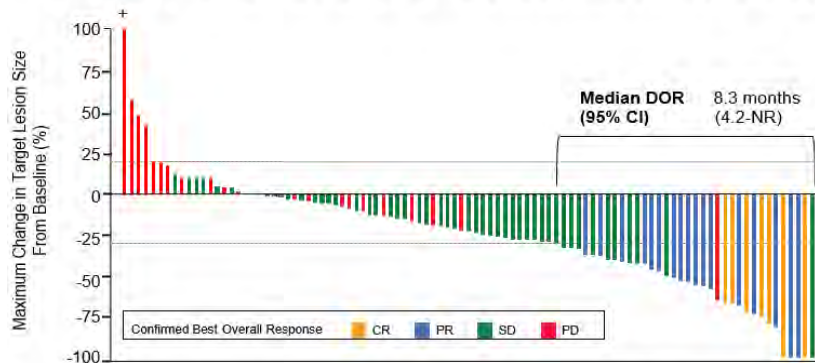
1. Breij EC et al. *Cancer Res.* 2014;74(4):1214-1226.
2. De Goeij BE et al. *Mol Cancer Ther.* 2015;14(5):1130-1140.
3. Forster Y et al. *Clin Chim Acta.* 2006;364:12-21.
4. Pan L et al. *Mol Med Rep.* 2019;19:2077-2086.
5. Cocco E et al. *BMC Cancer.* 2011;11:263.
6. Zhao X et al. *Exp Ther Med.* 2018;16:4075-4081.
7. Alley SC et al. AACR 2019; Abstract 221.



# Genmab and Seagen Announce FDA Accelerated Approval for TIVDAK™ (tisotumab vedotin-tftv) in Previously Treated Recurrent or Metastatic Cervical Cancer

September 20, 2021 17:00 ET | Source: [Genmab A/S](#)

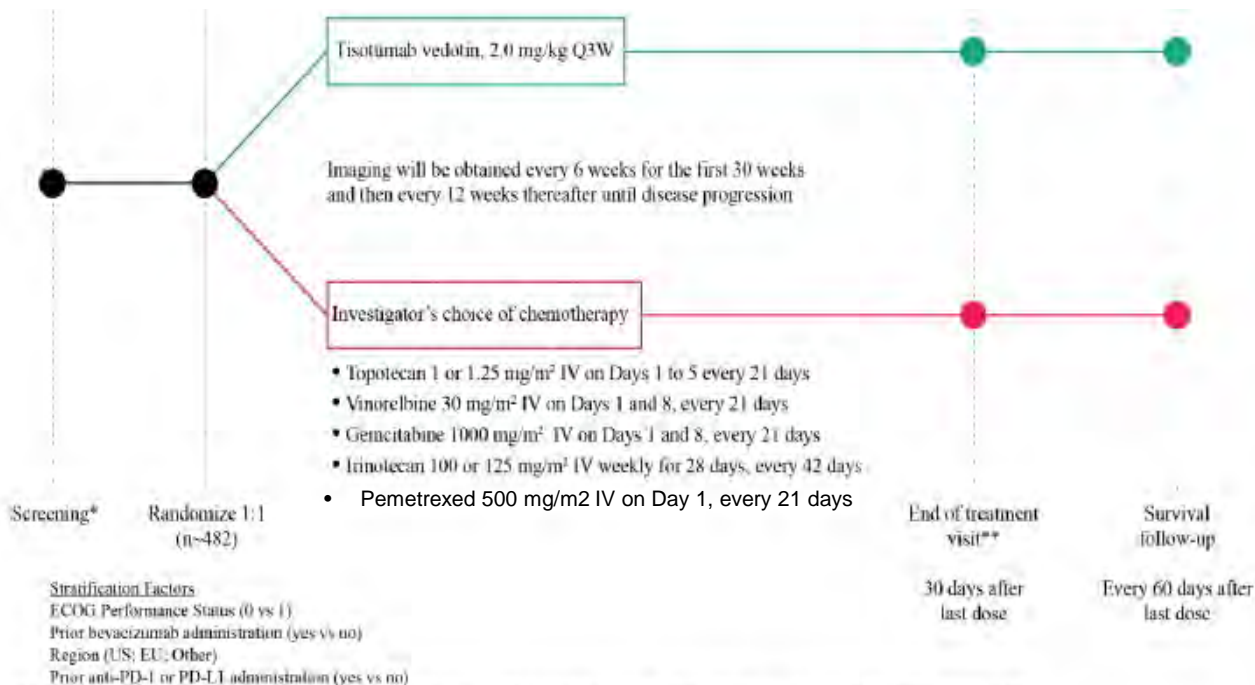
## ENGOT cx6/GOG 3023/innovaTV204



	N=101
Confirmed ORR (95% CI), %	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)

Data cutoff: February 06, 2020. Median duration of follow-up: 10.0 months. + indicates a change greater than 100%. Horizontal dashed lines indicate 20% increase and 30% decrease in target lesion diameters from baseline for RECIST v1.1 assessment. Colored bars represent the best overall confirmed response. CR, PR, SD, and PD were based on RECIST v1.1 as evaluated by IRC. CR, complete response; IRC, independent review committee; PD, disease progression; PR, partial response; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1; SD, stable disease.

# ENGOT cx12/GOG-3057/innovaTV 301: Schema



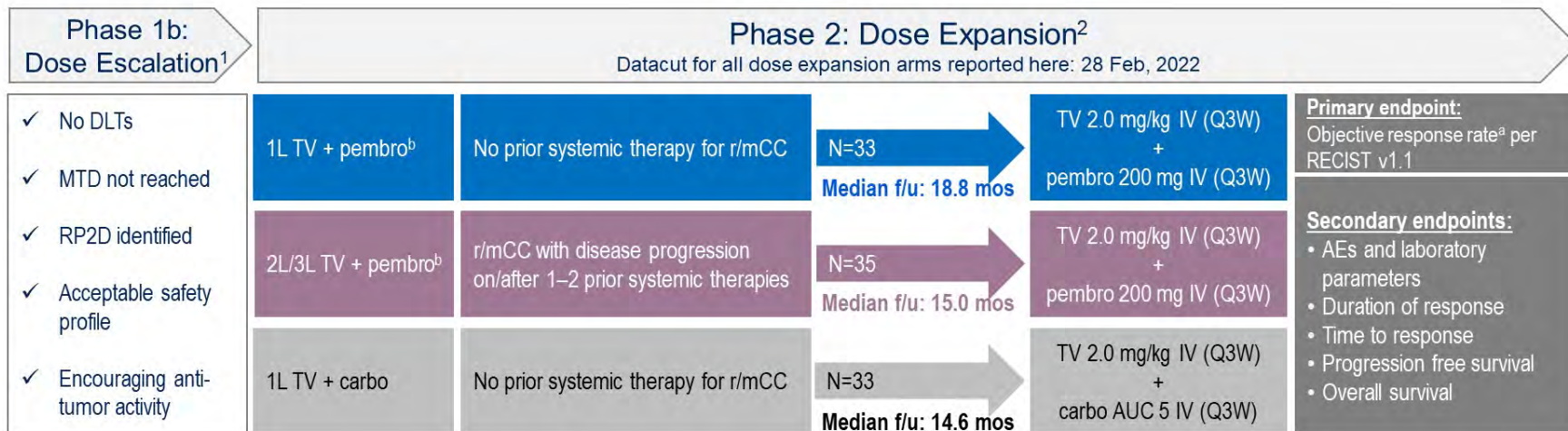
**Primary  
Endpoint = OS**

\*The proportion of participants who have not received prior bevacizumab in combination with chemotherapy as 1L treatment will be capped at 50%.

\*\* Some AEs may be followed longer than 30 days until resolution, improvement, or stabilization.



# ENGOT-cx8/GOG-3024 /innovaTV 205: Dose-expansion phase



1L TV + pembro in patients with r/mCC: First disclosure  
 2L/3L TV + pembro & 1L TV + carbo: Updated with longer follow-up

<sup>a</sup>Tumor response assessed every 6 weeks; <sup>b</sup>Pembro will be administered up to 35 cycles, approximately 2 years.

f/u, follow-up; r/mCC, recurrent or metastatic cervical cancer; TV, tisotumab vedotin.

1. Monk B, et al. International Gynecologic Cancer Society: 2021; 2. Vergote I, et al. European Society for Medical Oncology 2021. (initial disclosure of 1L TV + carbo and 2L/3L TV + pembro)

# Baseline demographics and clinical characteristics

Demographics and characteristics	1L TV + Pembro (N = 33)	2L/3L TV + Pembro (N = 35)	1L TV + Carbo (N = 33)
Age, median (range), years	47 (29 - 76)	47 (31 - 73)	51 (25 - 78)
Race (White), n (%)	31 (93.9)	27 (77.1)	28 (84.8)
Ethnicity (Not Hispanic/Latino), n (%)	32 (97.0)	29 (82.9)	29 (87.9)
ECOG performance status, n (%)			
0	25 (75.8)	22 (62.9)	21 (63.6)
1	8 (24.2)	13 (37.1)	12 (36.4)
Cancer recurrence at the time of screening, n (%)	26 (78.8)	31 (88.6)	30 (90.9)
Histology, n (%)			
Squamous	22 (66.7)	19 (54.3)	24 (72.7)
Adenocarcinoma	11 (33.3)	15 (42.9)	8 (24.2)
Adenosquamous	0	0	1 (3.0)
Other	0	1 (2.9)	0
PD-L1 positive, <sup>a</sup> n (%)	28 (96.6) <sup>b</sup>	22 (81.5) <sup>b</sup>	NA
Prior radiotherapy, n (%)	25 (75.8)	30 (85.7)	27 (81.8)
Prior chemoradiation, n (%)	24 (72.7)	19 (54.3)	23 (69.7)
Prior lines of systemic regimen, <sup>c</sup> n (%)			
0	33 (100)	0	33 (100)
1	0	25 (71.4)	0
2	0	10 (28.6) <sup>d,e</sup>	0
Prior bevacizumab, <sup>f</sup> n (%)	NA	19 (54.3)	NA

<sup>a</sup>Prevalence of CPS PD-L1  $\geq 1$ . <sup>b</sup>Based on evaluable biopsies, n=29 and 27 for 1L and 2L/3L TV + pembro respectively. <sup>c</sup>Systemic regimen administered in the metastatic or recurrent setting, excludes chemoradiation. <sup>d</sup>Includes 1 patient receiving prior 1L treatment with nivolumab + ipilimumab. <sup>e</sup>Includes 1 patient receiving prior 2L treatment with pembro. <sup>f</sup>Adjuvant and neoadjuvant settings are excluded.

There were 2 Asian patients each in the 1L and 2L TV+pembro arms, and 1 in the 1L TV + carbo arm. The number of Hispanic/Latino patients was 1, 0, and 0, respectively; ethnicity is missing for 0, 6, and 4 patients; respectively. TV, tisotumab vedotin.



# Anti-tumor activity – 1L TV + Pembro

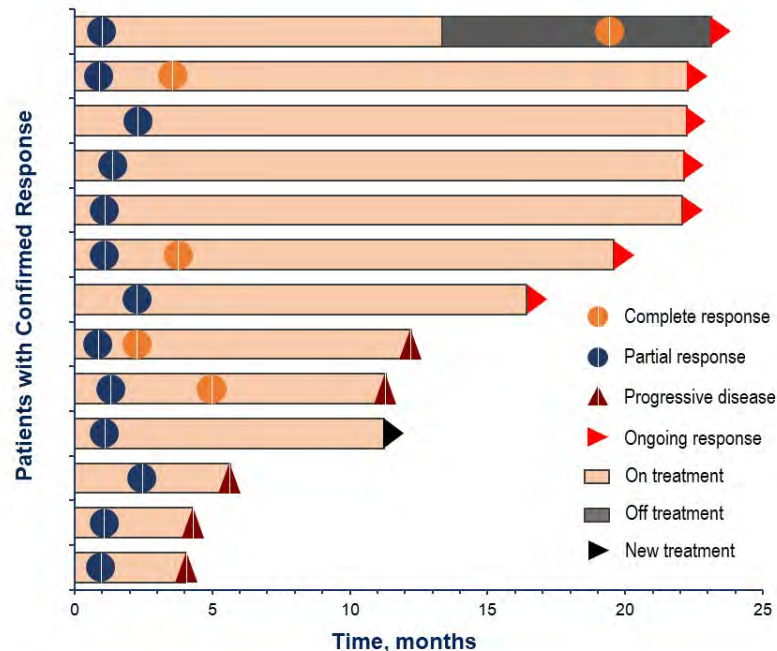
Efficacy parameter	1L TV + Pembro (N = 32*)
	Median f/u: 18.8 months
Confirmed ORR, % [95% CI]	40.6 [23.7 – 59.4]
Complete response	5 (15.6)
Partial response	8 (25.0)
Stable disease	14 (43.8)
Progressive disease	1 (3.1)
Not evaluable	4 (12.5)
DCR <sup>a</sup> , % [95% CI]	84.4 [67.2 – 94.7]
Median DOR <sup>b</sup> , months (range)	NR (2.8 – 21.9+)
Median time to response, months (range)	1.4 (1.2 – 2.8)
Median PFS <sup>c</sup> , months [95% CI]	5.3 [4.0 – 12.2]
Median OS <sup>d</sup> , months (range)	NR (0.5 – 24.9+)

+, censored; NR, not reached.

\*1 patient was excluded from the full-analysis set due to receiving incorrect study drug.

<sup>a</sup>Defined as SD (at least 5 weeks after the first dose of study treatment) or confirmed CR or PR.

<sup>b</sup>8 patients are censored; <sup>c</sup>12 patients are censored; <sup>d</sup>19 patients are censored.



With 18.8 months median follow-up, compelling, durable preliminary efficacy was observed in 1L with >50% of responders with ongoing response

DCR, disease control rate; f/u, follow-up; TV, tisotumab vedotin.

# Anti-tumor activity – 1L TV + Carbo

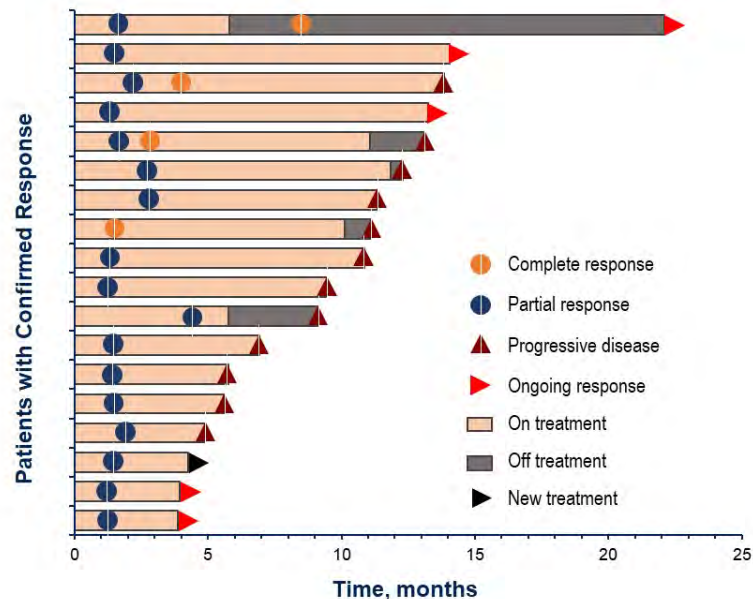
ORR plt/tax/Pembro +/-bev 68/77/52  
cis/tax/bev GOG 240 50%

Efficacy parameter	1L TV + Carbo (N = 33)  Median f/u: 14.6 months
Confirmed ORR, % [95% CI]	54.5 [36.4 – 71.9]
Complete response	4 (12.1)
Partial response	14 (42.4)
Stable disease	12 (36.4)
Progressive disease	2 (6.1)
Not evaluable	1 (3.0)
DCR <sup>a</sup> , % [95% CI]	90.9 [75.7 – 98.1]
Median DOR <sup>b</sup> , months [95% CI]	8.6 [4.2; 11.5]
Median time to response, months (range)	1.4 (1.1 – 4.4)
Median PFS <sup>c</sup> , months [95% CI]	6.9 [4.0 – 11.1]
Median OS <sup>d</sup> , months (range)	NR (0.8+ – 22.1+)

+, censored; NR, not reached.

<sup>a</sup>Defined as SD (at least 5 weeks after the first dose of study treatment) or confirmed CR or PR.

<sup>b</sup>4 patients are censored; <sup>c</sup>9 patients are censored; <sup>d</sup>22 patients are censored.



Compelling antitumor activity was observed in 1L patients with >50% experiencing a response and >90% with disease control

DCR, disease control rate; f/u, follow-up; TV, tisotumab vedotin.

# Anti-tumor activity – 2L/3L TV + Pembro

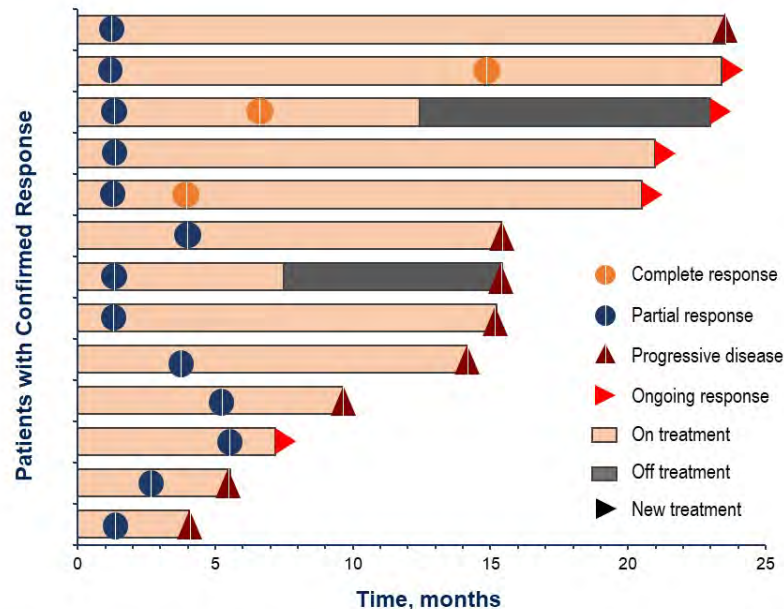
Efficacy parameter	2L/3L TV + Pembro (N = 34*)
	Median f/u: 15.0 months
Confirmed ORR, % [95% CI]	38.2 [22.2 – 56.4]
Complete response	3 (8.8)
Partial response	10 (29.4)
Stable disease	12 (35.3)
Progressive disease	7 (20.6)
Not evaluable	2 (5.9)
DCR <sup>a</sup> , % [95% CI]	73.5 [55.6 – 87.1]
Median DOR <sup>b</sup> , months [95% CI]	14.0 [2.8 – NR]
Median time to response, months (range)	1.4 (1.3 – 5.8)
Median PFS <sup>c</sup> , months [95% CI]	5.6 [2.7 – 14.2]
Median OS <sup>d</sup> , months [95% CI]	15.3 [9.9 – NR]

+, censored; NR, not reached

\*1 patient was excluded from the full analysis set as they had no target lesions at baseline.

<sup>a</sup>Defined as SD (at least 5 weeks after the first dose of study treatment) or confirmed CR or PR.

<sup>b</sup>5 patients are censored; <sup>c</sup>10 patients are censored; <sup>d</sup>14 patients are censored



With 15 months median follow-up, compelling, durable preliminary efficacy was observed in 2L/3L with ~40% of responders ongoing in response

DCR, disease control rate; f/u, follow-up; TV, tisotumab vedotin.

2022 ASCO  
ANNUAL MEETING

#ASCO22

PRESENTED BY:

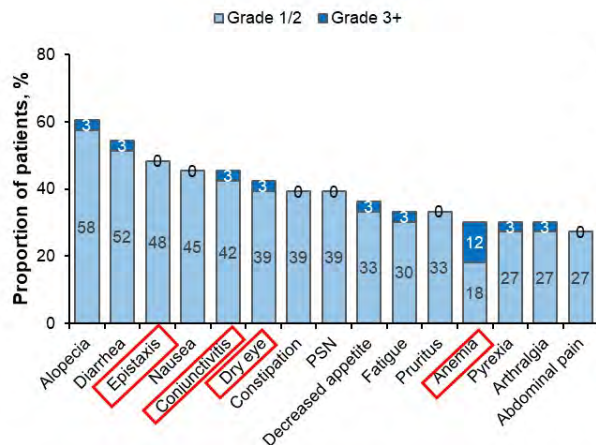
Content of this presentation is the property of the author, licensed by ASCO. Permission required for reuse.

ASCO  
AMERICAN SOCIETY OF  
CLINICAL ONCOLOGY  
KNOWLEDGE CONQUERS CANCER

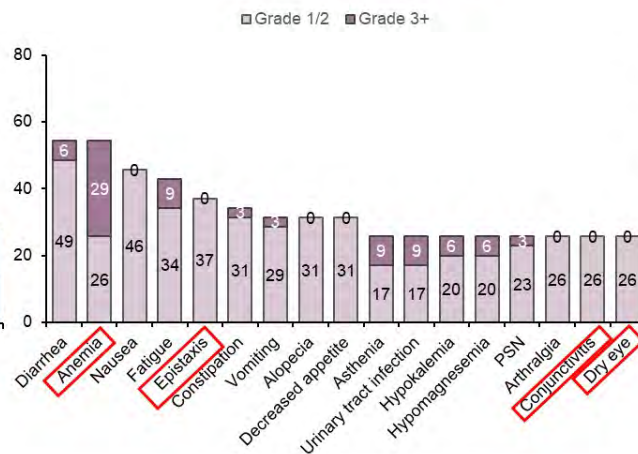


# Safety summary of common AEs reported >25% of patients

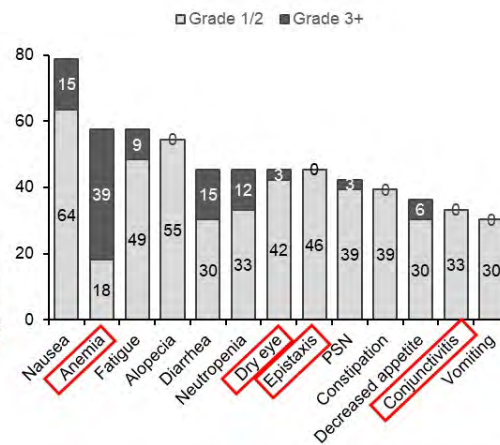
## 1L TV + Pembro<sup>a</sup>



## 2L/3L TV + Pembro<sup>b</sup>



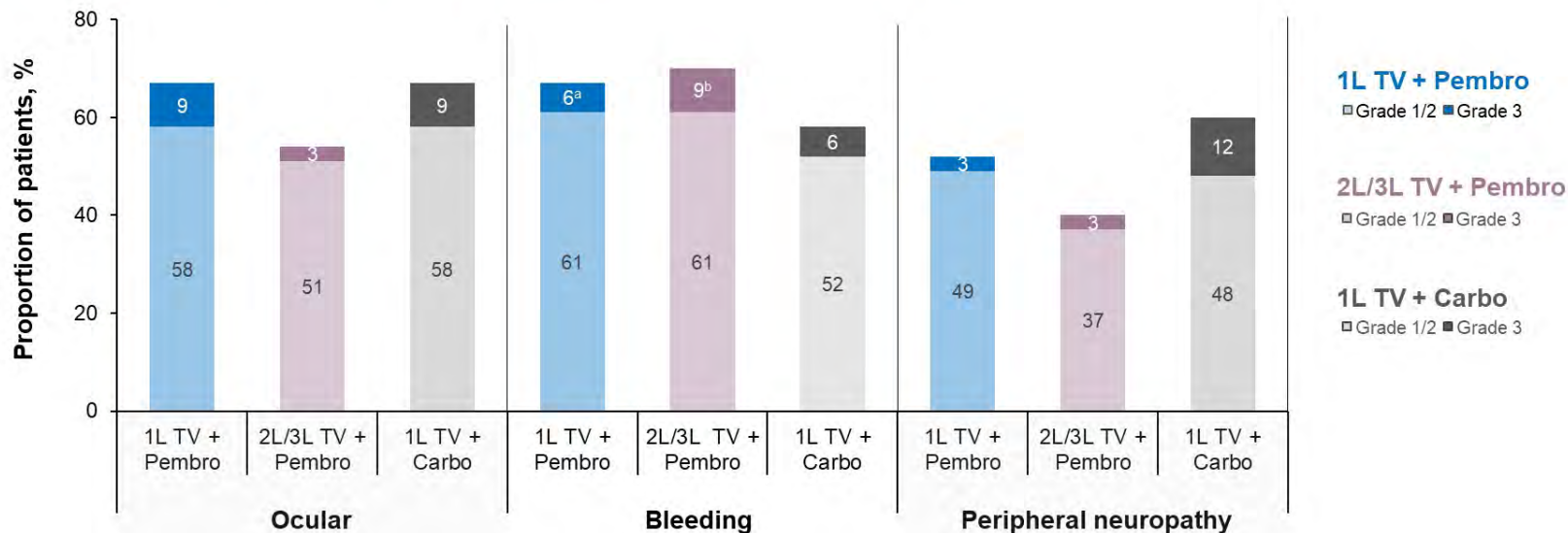
## 1L TV + Carbo<sup>c</sup>



- 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

<sup>a</sup>8 (24.2%) patients discontinued TV due to AEs; <sup>b</sup>12 (34.3%) patients discontinued TV due to AEs; <sup>c</sup>7 (21.2%) patients discontinued TV due to AEs; AEs leading to discontinuation of TV were mostly related to ocular or neuropathic events. PSN, peripheral sensory neuropathy; TV, tisotumab vedotin.

# Adverse events of special interest with TV



<sup>a</sup>Includes one patient with grade 5 disseminated intravascular coagulation; <sup>b</sup>Includes one patient with grade 4 hematuria

AEs of special interest with TV were generally consistent across cohorts and were mostly grade 1-2

TV, tisotumab vedotin.

# With Novel Therapies, Disparities Emerge or Widen

- Cancer care disparities emerge or worsen with discoveries of new, more effective approaches to cancer treatment.
- Rapidly expanding use of immunotherapy for many different cancers across the spectrum from late to early stages has, predictably, been followed by emerging evidence of disparities in access to these highly effective but expensive treatments.
- The danger that these new treatments will further widen preexisting cancer care and outcome disparities requires urgent corrective intervention.

Karjalainen, 1990; Erikson et al., 2007



# Geographic Disparities in Gynecologic Cancer Survival Observed in Several Studies

- Knowing whether cancer incidence and survival vary geographically is important because health care is most often delivered locally
- Identification of areas with high cancer incidence and better or worse survival may reflect access to, and quality of, care
- Accordingly, understanding how location of cancer specialists influences survival outcomes for those with cancer is critical.

(Karjalainen, 1990; Erikson et al., 2007; Gunderson et al., 2013; Ward et al., 2004).

# Cervical Cancer Geographic Analyzer

- Novel, innovative public access tool to assess incidence of cervical cancer as well as recurrent and metastatic cervical cancer cases for potential policy intervention purposes
- Retrospective claims analysis was conducted using the MarketScan® Commercial and Medicare Supplemental Database for adult cervical cancer (CC) and r/mCC patients diagnosed between 1/1/15-12/31/20.
- Metropolitan Statistical Areas assessed: a core area containing a substantial population nucleus, together with adjacent communities having a high degree of economic and social integration with that core.

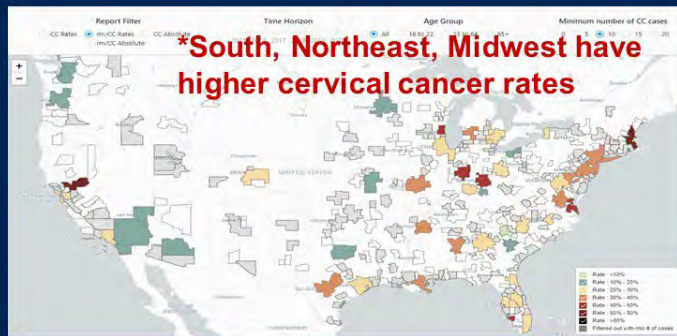


Table 1: Top 5 MSAs with highest burden and point prevalence of r/mCC in the US

MSA	2020	2019	2018	Average
Cape Coral-Fort Myers, FL	40%	31%	64%	45%
Sacramento-Roseville-Arden-Arcade, CA	50%	46%	33%	45%
Grand Rapids, MI	31%	36%	55%	42%
Boston-Cambridge-Newton, MA	50%	45%	41%	40%
Baltimore-Columbia-Towson, MD	38%	33%	39%	36%