



# Updates in Gynecologic Malignancies

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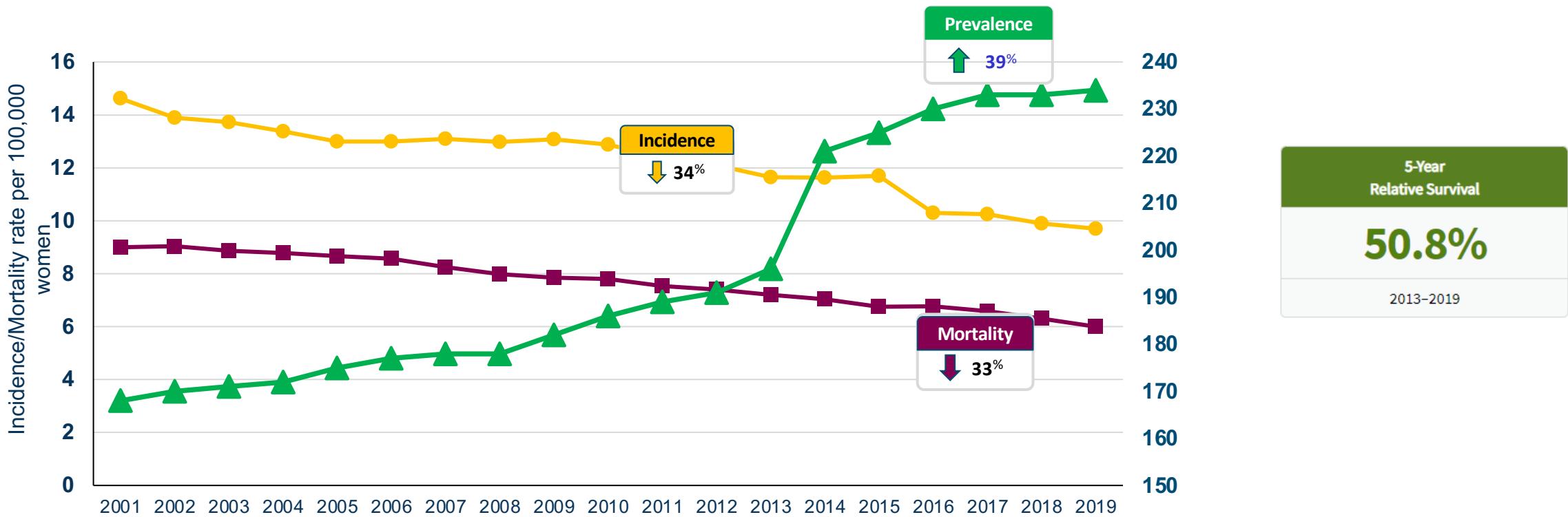
# Objectives

- Review updates in gynecologic malignancies
  - Ovarian cancer
  - Cervical cancer
  - Endometrial cancer
- Focus on targeted therapy and immunotherapy
- Explore future studies

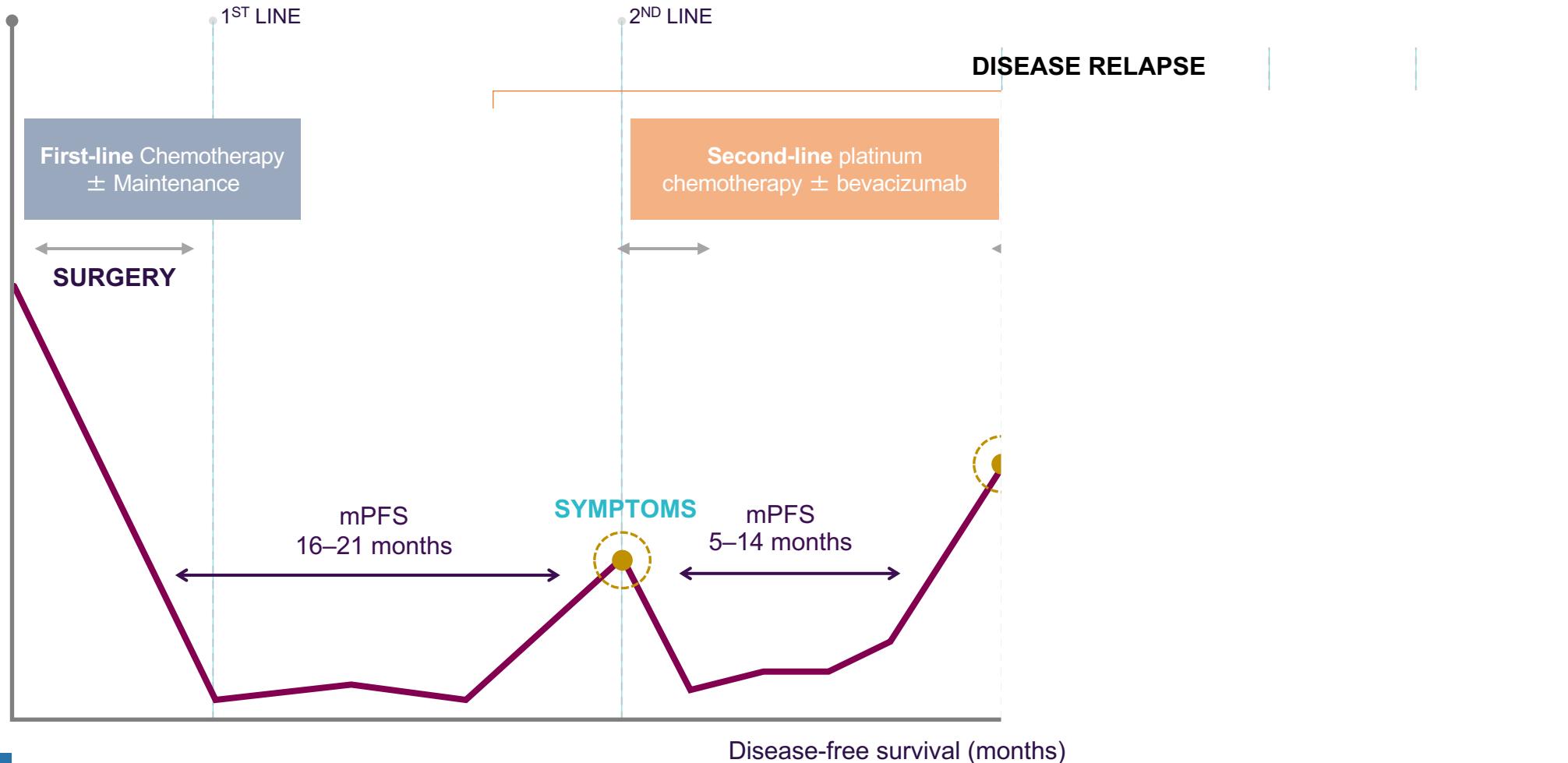
# Ovarian Cancer Updates

# Ovarian Cancer Overview

- In 2023, estimated 19,710 cases and 13,270 deaths
  - 75% diagnosed in advanced stages



# Ovarian Cancer Course

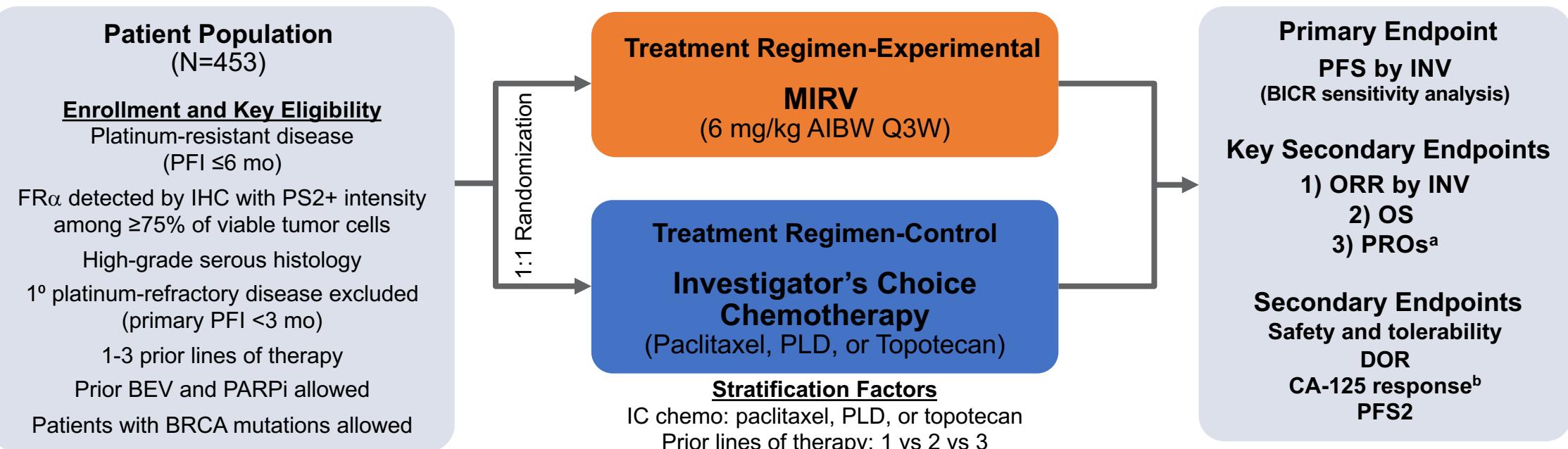


# Platinum Resistant Ovarian Cancer

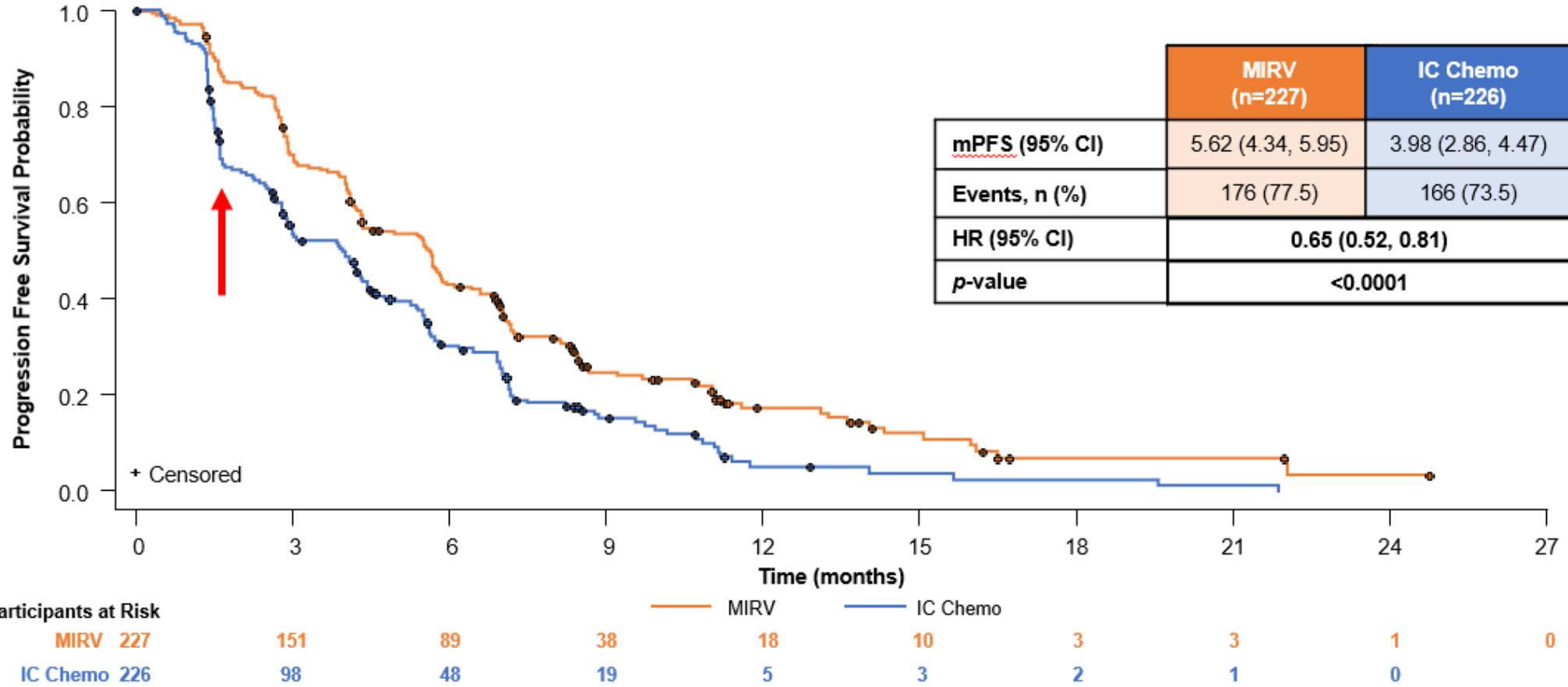
Trial	Agent	Result
OVAL study (VB-111)	Ofranergene obadenovec (TNFR1)	Negative
AXLerate-OC	Batiraxcept	Negative
UPLIFT	Upifitamab rilsodotin (NaPi2b)	Negative
INNOVATE-3	Tumor testing fields	Negative
ARTISTRY 7	Nemvaleukin and Pembrolizumab	Ongoing

# MIRASOL: Mirvetuximab Soravtansine

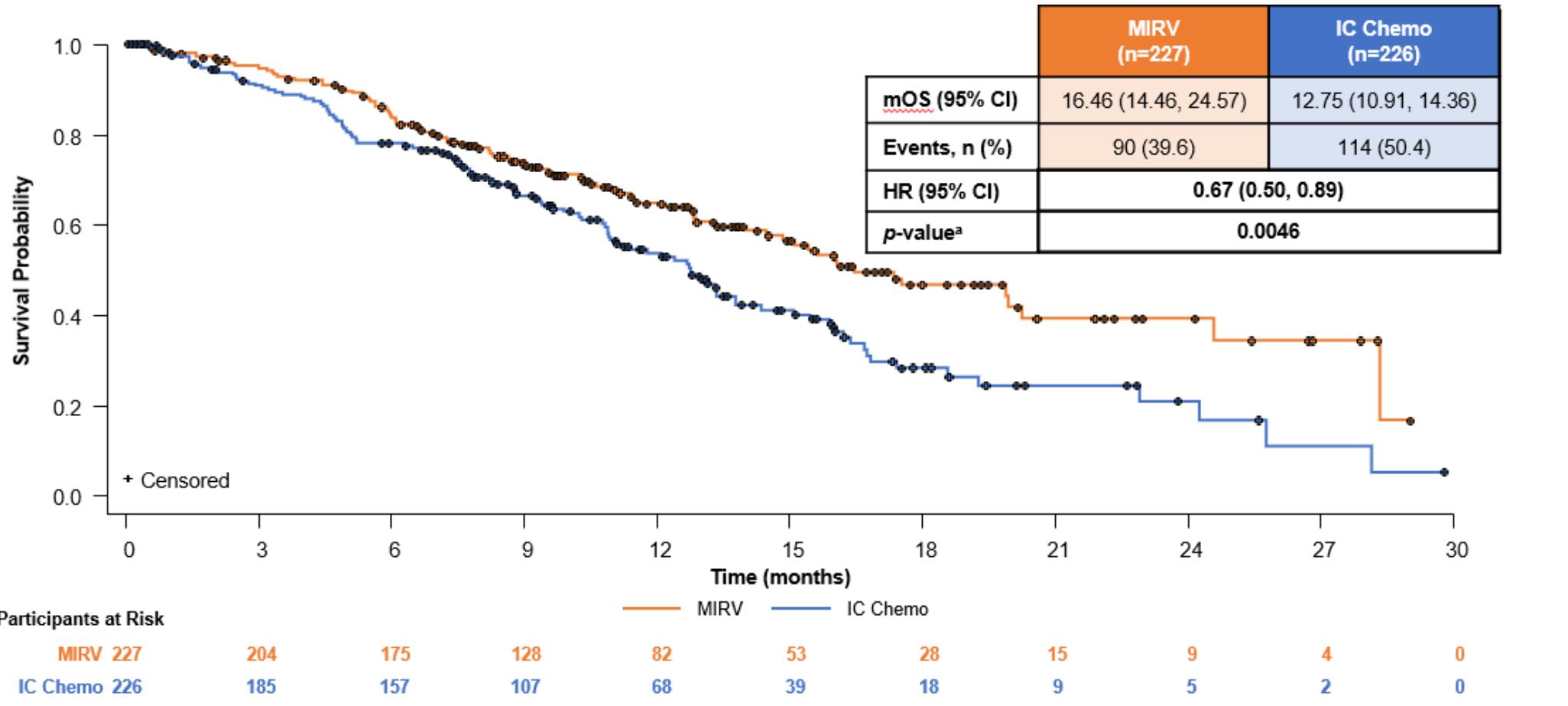
An open-label, phase 3 randomized trial of MIRV vs investigator's choice chemotherapy in patients with FR $\alpha$ -high platinum-resistant ovarian cancer



# MIRASOL: PFS



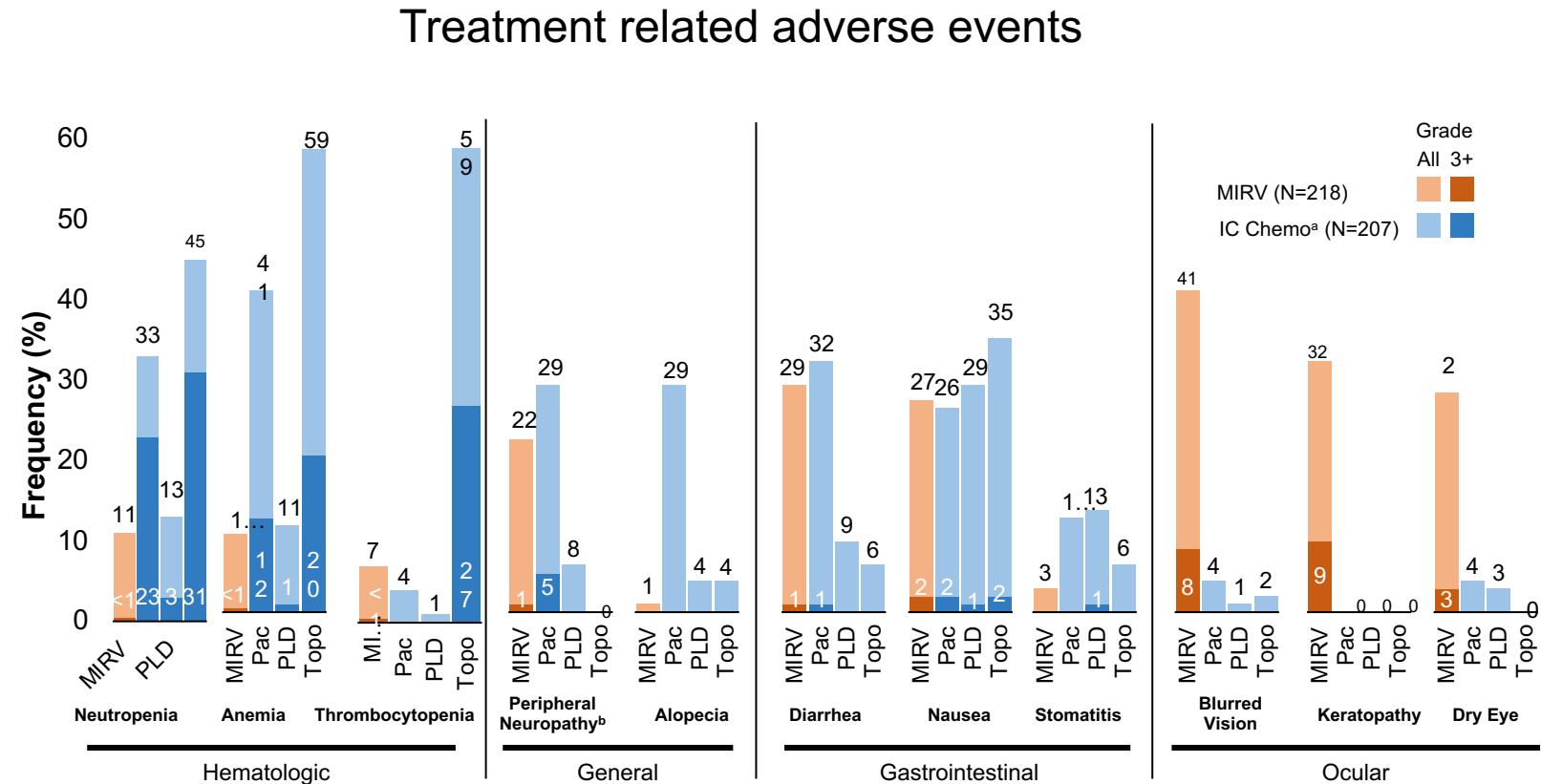
# MIRASOL: OS



# MIRASOL: Outcomes

	MIRV	IC Chemo
ORR	42%	16%
CR	5%	0%
PR	37%	16%
SD	38%	40%
PD	14%	27%

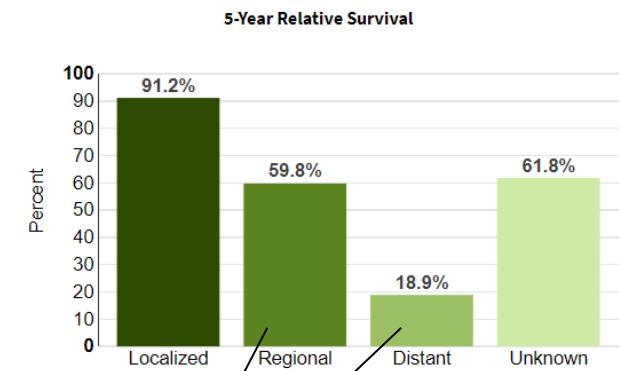
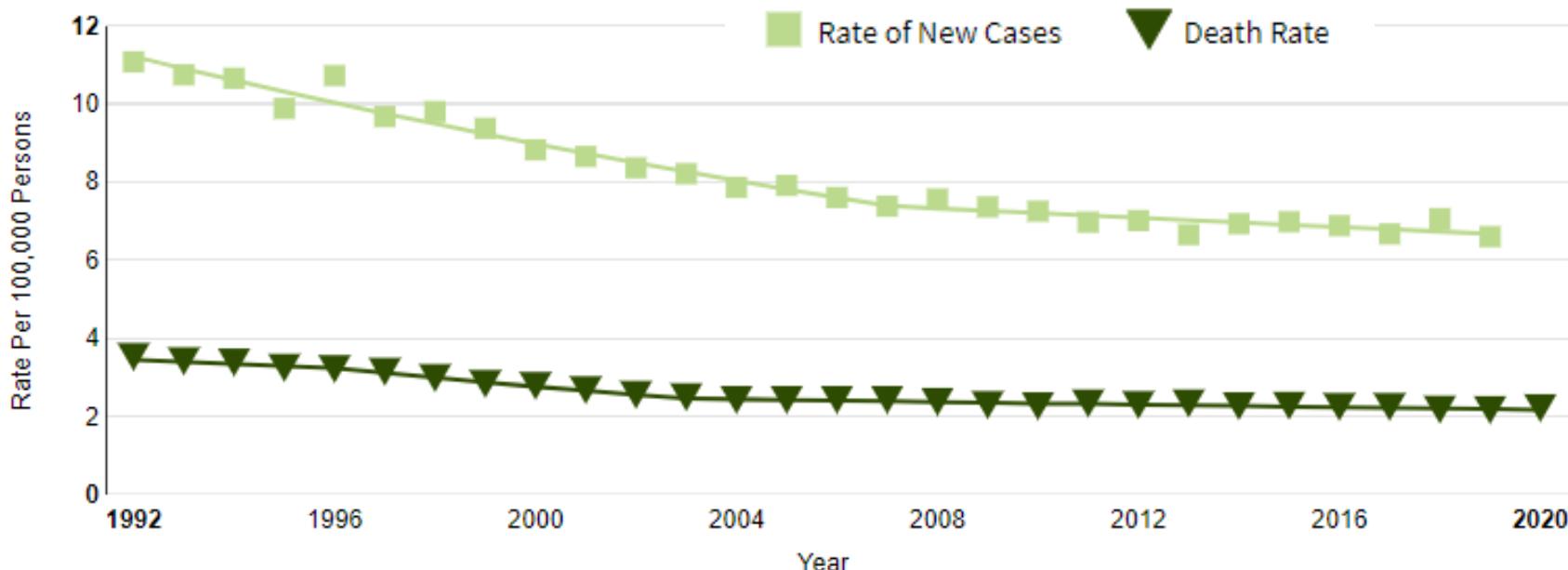
**ORR difference 26.4%**  
**OR 3.81**  
**P<0.0001**



# Cervical Cancer Updates

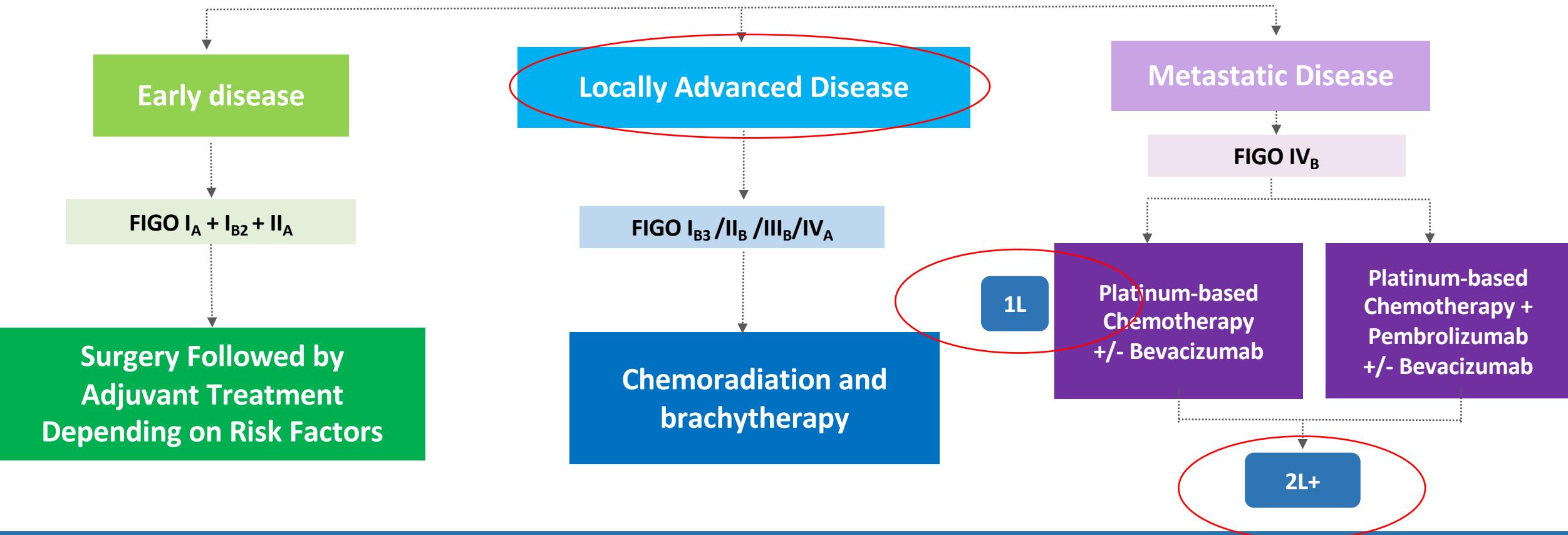
# Cervical Cancer Overview

- 13,960 new cases and 4,310 deaths



2013-2019  
67.2%

# Cervical Cancer: Treatment Overview



# KEYNOTE 826: Pembrolizumab

- Persistent, recurrent or metastatic cervical cancer
- No prior chemotherapy (prior chemoradiation permitted)

**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**

R  
1:1

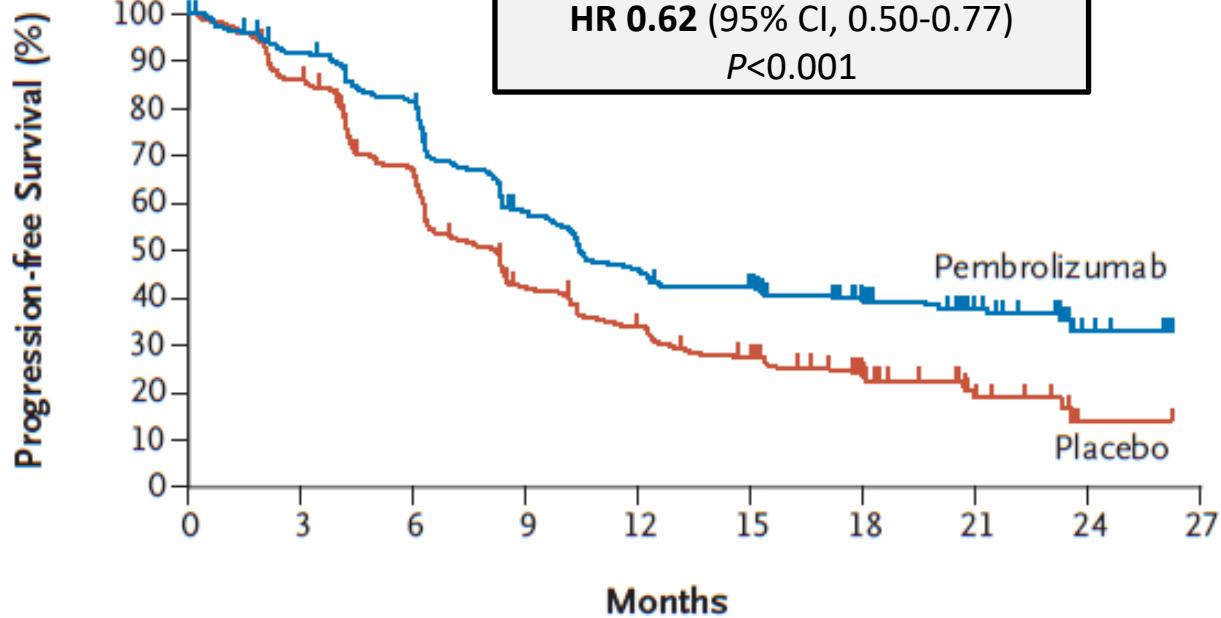
**Placebo IV Q3W**  
for up to 35 cycles  
+  
**Paclitaxel + Cisplatin or Carboplatin IV Q3W**  
for up to 6 cycles<sup>a</sup>  
±  
**Bevacizumab 15 mg/kg IV Q3W**

	<b>Pembrolizumab group (n=308)</b>	<b>Placebo group (n=309)</b>
Age, median (range), y	51 (25-82)	50 (22-79)
ECOG PS 1, No. (%)	128 (42)	139 (45)
SCC, No. (%)	235 (76)	211 (68)
PD-L1 CPS, No. (%)		
<1	35 (11)	34 (11)
1 to <10	115 (37)	116 (38)
≥10	158 (51)	159 (51)
Bevacizumab use during trial, No. (%)	196 (64)	193 (62)

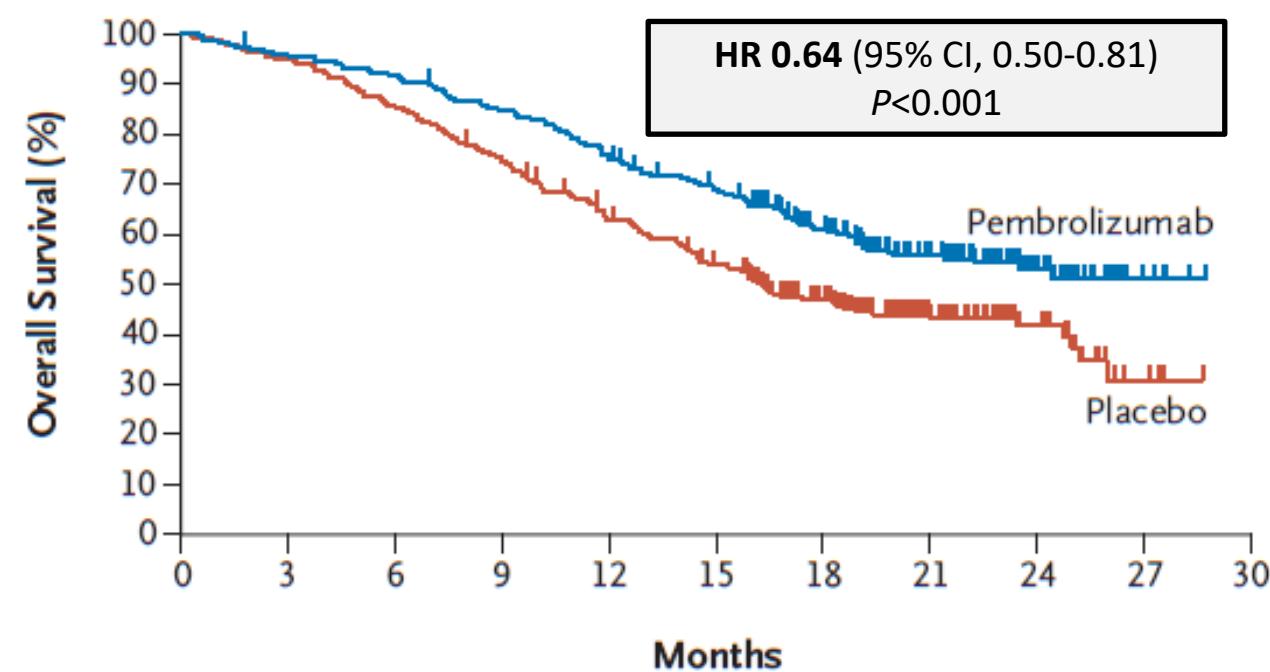
# KEYNOTE 826: Outcomes (CPS $\geq 1$ )

- FDA approval on 10/31/21

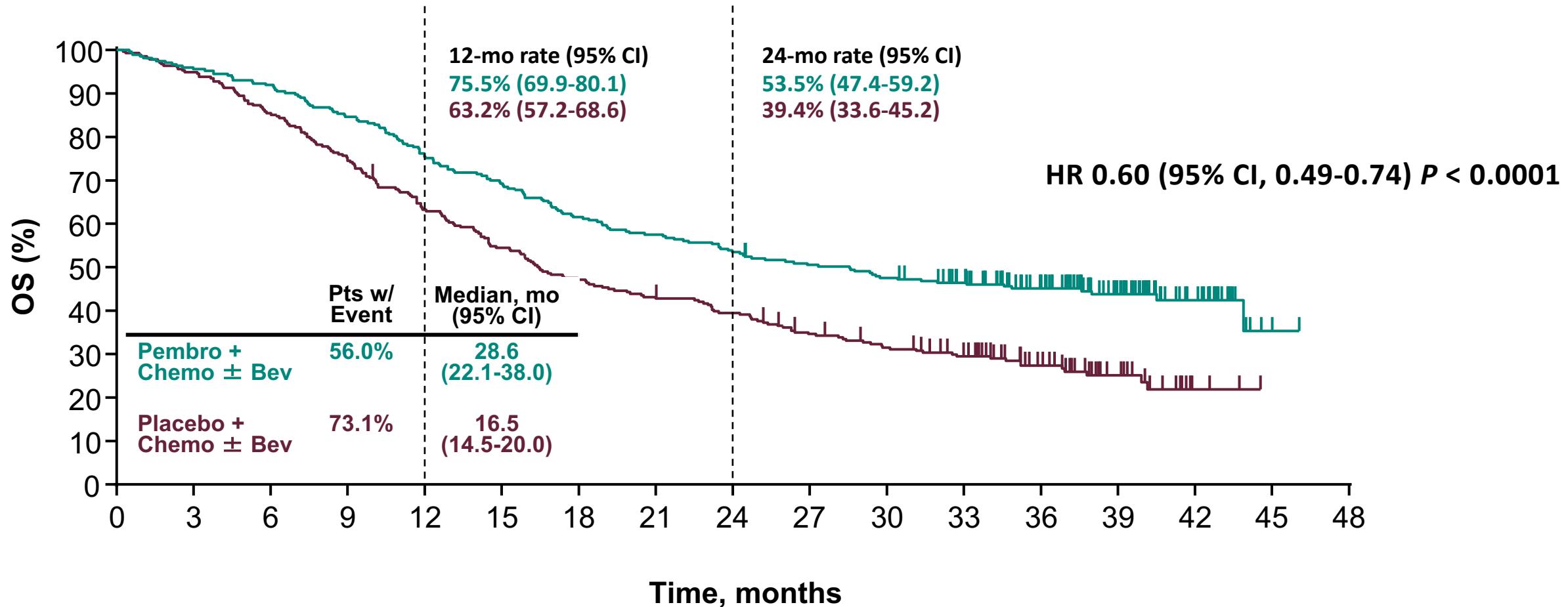
Progression free survival



Overall survival

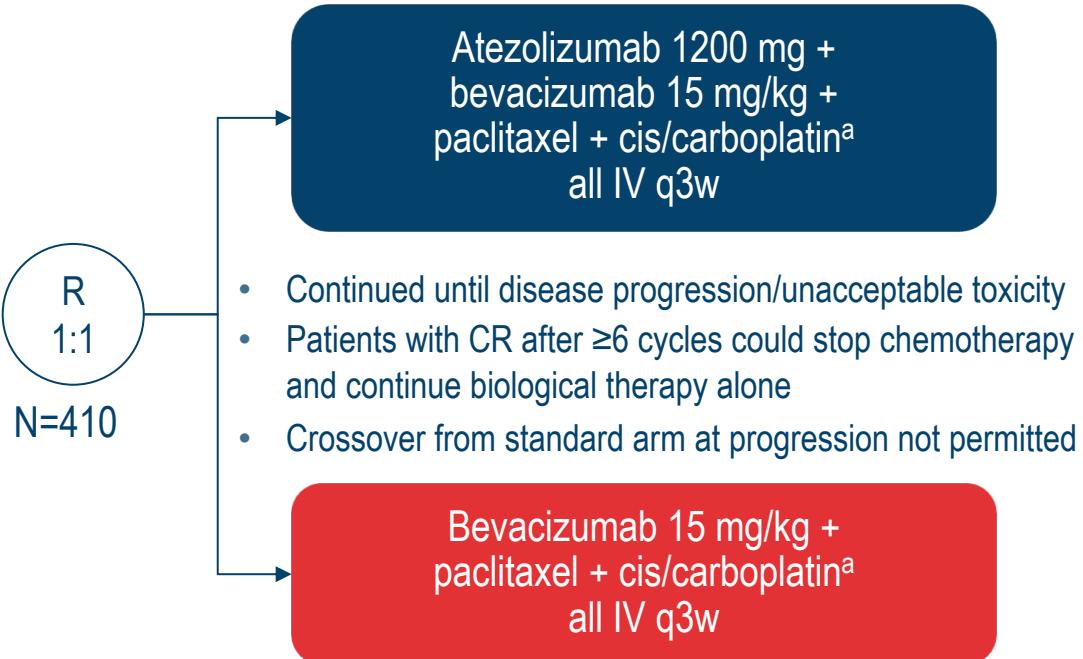


# KEYNOTE 826: Final Survival Analysis (CPS $\geq 1$ )



# BEATcc: Atezolizumab

- Metastatic, persistent or recurrent cervical cancer not amenable to curative therapy
- GOG/ECOG PS ≤1
- No prior systemic anti-cancer therapy for R/M CC
- In patients with pelvic disease, no bladder or rectal mucosa involvement
- Available archival or fresh tumour sample for PD-L1 expression



## Stratification factors:

- Prior concurrent chemoradiation (yes vs no)
- Histology (squamous cell carcinoma vs adenocarcinoma<sup>b</sup> including adenosquamous carcinoma)
- Chemotherapy backbone (cisplatin vs carboplatin)

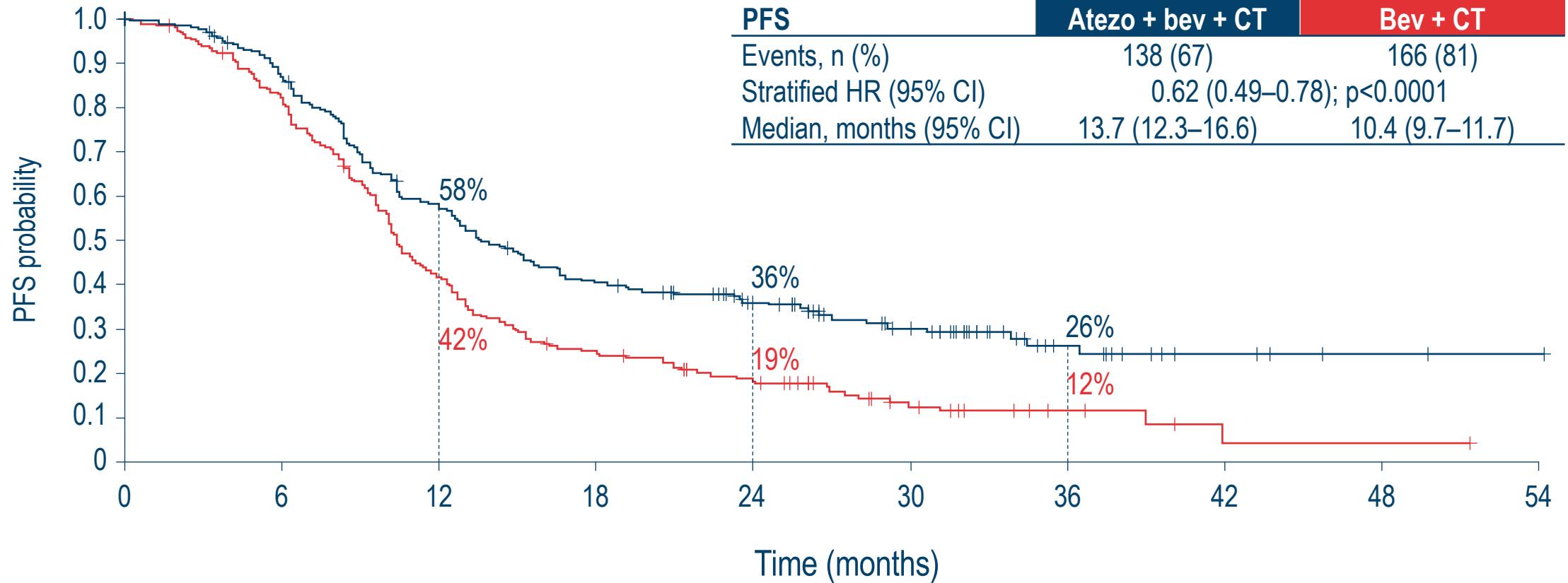
## Dual primary endpoints

- Investigator-assessed PFS (RECIST 1.1)
- OS

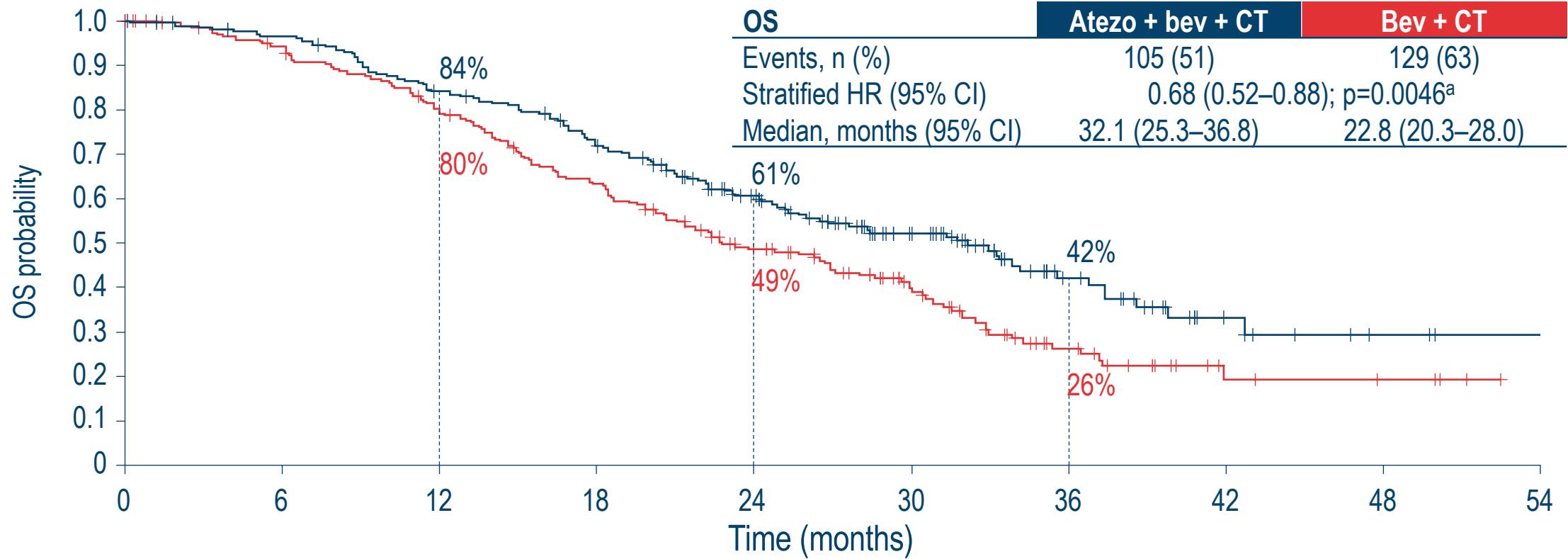
## Key secondary endpoints

- ORR (RECIST v1.1)
- DoR (RECIST v1.1)
- TFST
- PFS2
- Safety

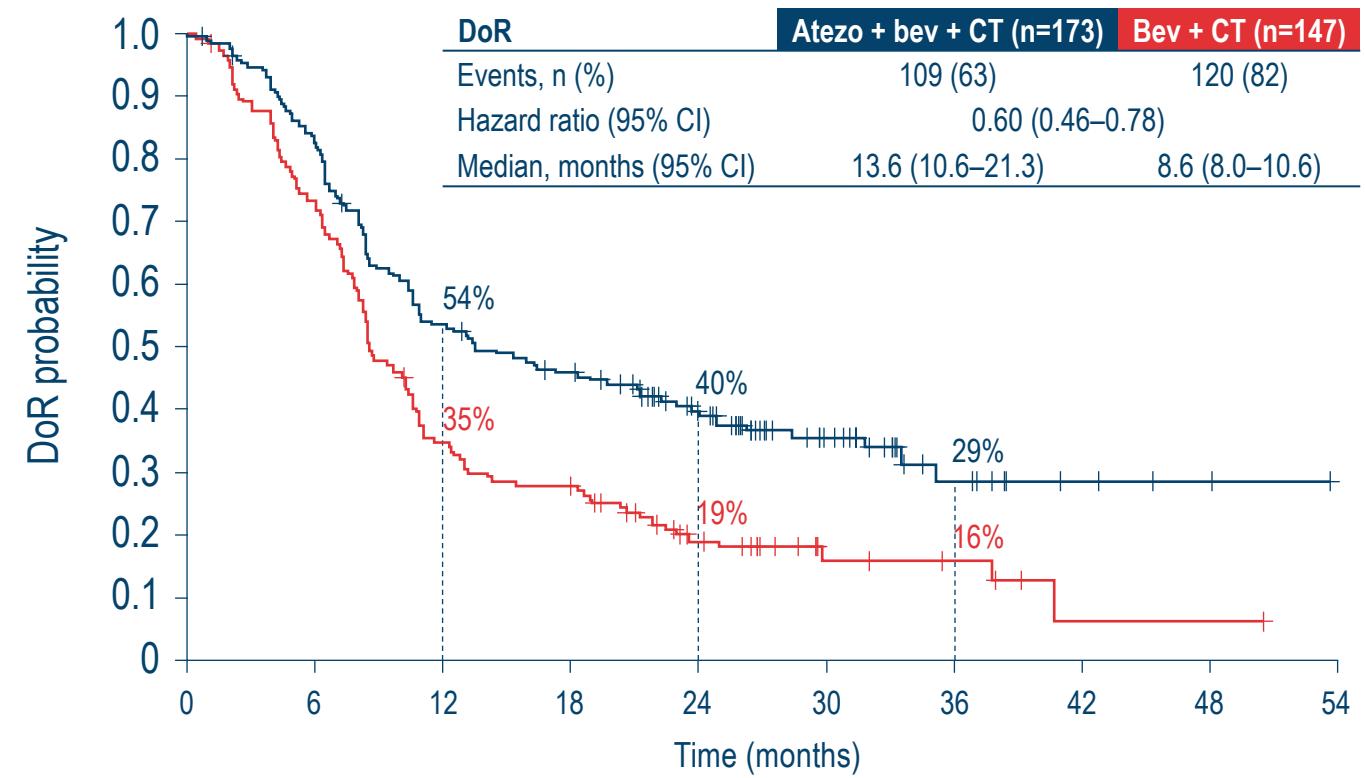
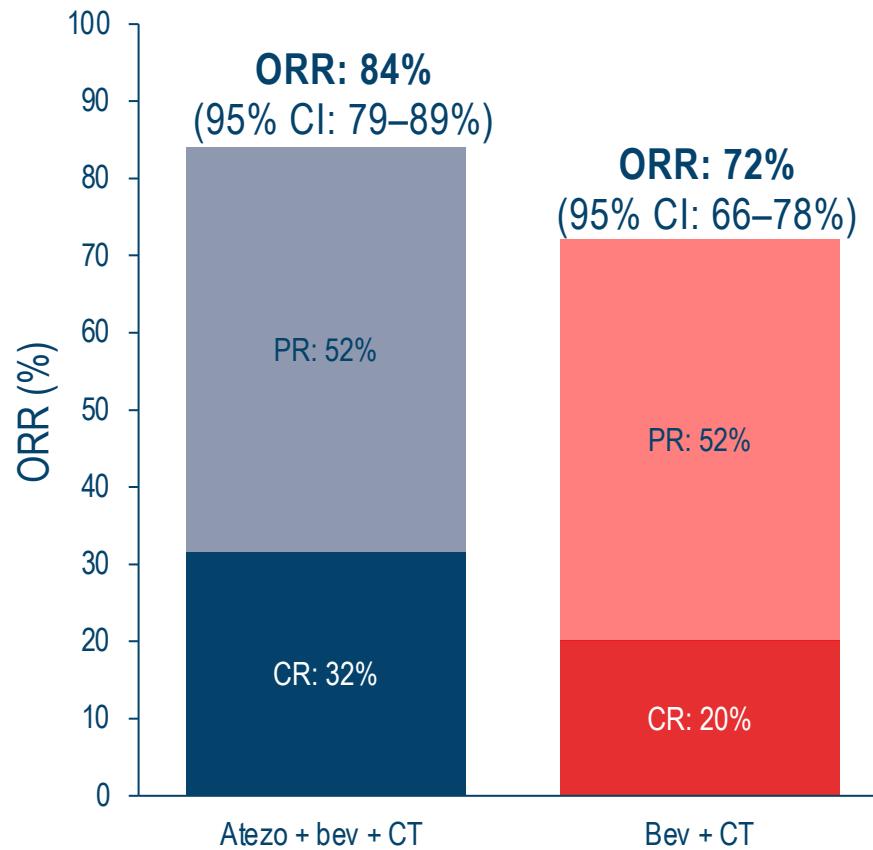
# BEATcc: PFS



# BEATcc: OS (Interim Analysis)



# BEATcc: ORR and DoR



# Locally Advanced Cervical Cancer

- Radiation with cisplatin has been the standard for 20+ years!
- Progression free survival: 60-80%

TRIAL	INTERVENTION	OUTCOME
GOG 109	Adjuvant RT vs CDDP-based RT	Superiority of Adjuvant ChemoRT
GOG 85	CDDP-based vs HU-based RT	Superiority of ChemoRT
GOG 120	CDDP-based vs HU-based RT	Superiority of ChemoRT
GOG 123	CDDP-based RT vs RT alone	Superiority of ChemoRT
RTOG 9001	CDDP+5FU-based RT vs RT alone	Superiority of ChemoRT
GOG 191	ChemoRT $\pm$ Erythropoietin	TERMINATED EARLY
GOG 219	ChemoRT $\pm$ Tirapazimine	TERMINATED EARLY
AIM2CERV	ChemoRT $\pm$ Axalimogene Filolisbac	TERMINATED EARLY
OUTBACK	ChemoRT $\pm$ consolidation ChemoRx	NEGATIVE (OS)
CALLA	ChemoRT $\pm$ anti-PD-L1 Durvalumab	NEGATIVE (PFS)
NRG-GY006	ChemoRT $\pm$ Triapine	NEGATIVE (OS)

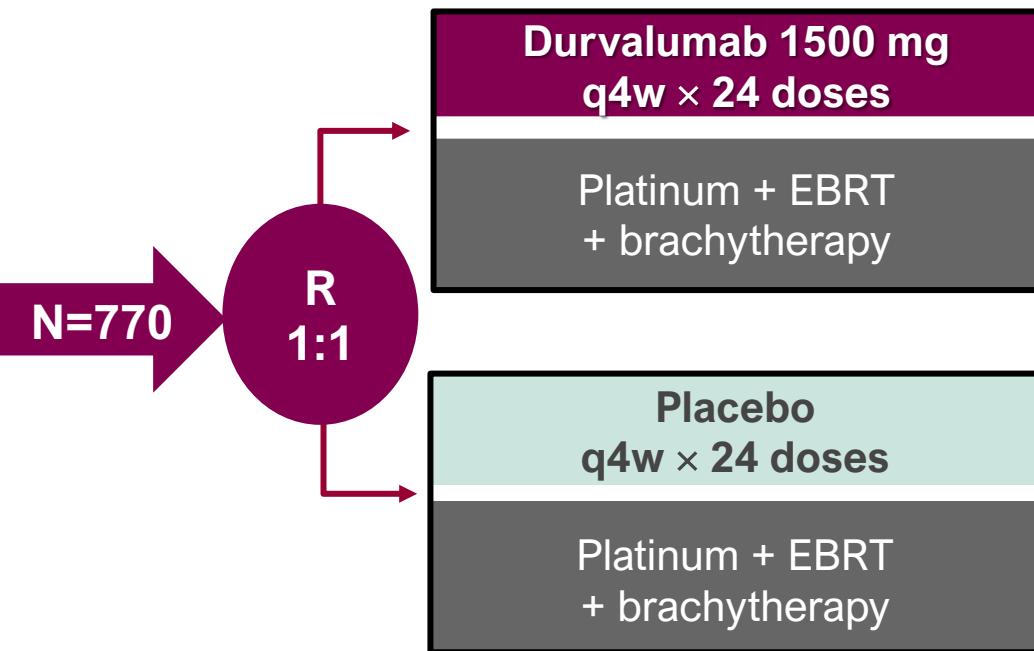
# CALLA: Durvalumab

## Eligible population

- Women aged  $\geq 18$  years
- Histologically confirmed cervical adenocarcinoma, squamous carcinoma, or adenosquamous carcinoma
- High-risk LACC (FIGO 2009)
  - Stages IB2 to IIB, node positive ( $N \geq 1$ )
  - Stages IIIA to IVA with any node ( $N \geq 0$ )
- WHO ECOG performance status of 0 or 1

## Stratification factors

- Disease stage
  - FIGO Stage IB2–IIB and LN+
  - FIGO Stage  $\geq$ III and LN–
  - FIGO Stage  $\geq$ III and LN+
- Region of world



**Primary Endpoint:**  
Progression-Free Survival<sup>a</sup>  
(Investigator-assessed)

## Key Secondary Endpoints:

- Overall survival
- Objective response rate
- Duration of response
- Incidence of local or distant progression / 2° malignancy
- Safety and tolerability

## **Chemoradiotherapy Regimen**

### **Platinum agent**

Cisplatin 40 mg/m<sup>2</sup> or carboplatin AUC2 q1w  $\times$  5 weeks

### **EBRT**

45 Gy in 25 fractions at 1.8 Gy/fraction, 5 fractions per week

### **Brachytherapy**

High-dose rate: 27.5–30 Gy; Low/pulsed-dose rate: 35–40 Gy

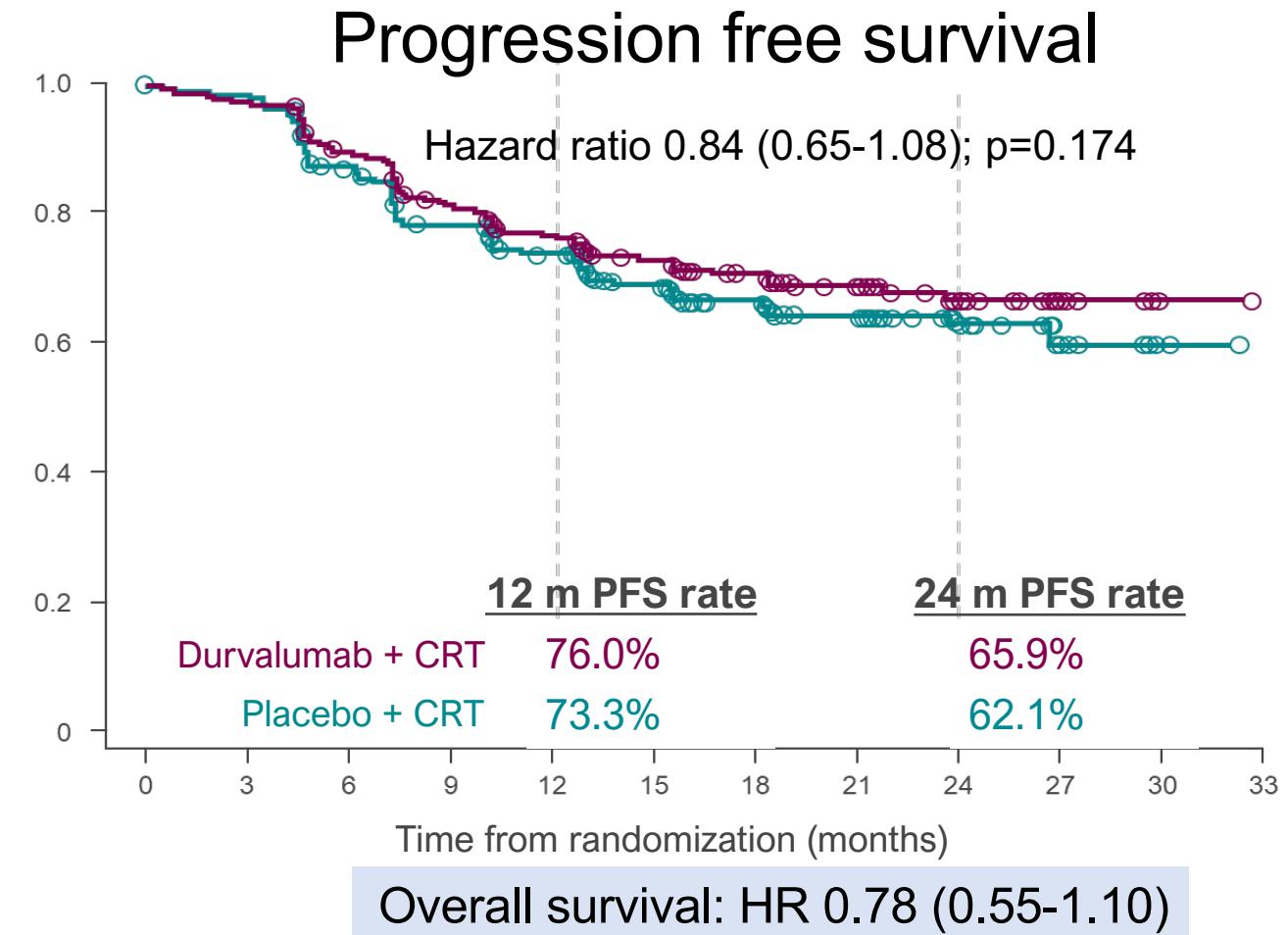
15 countries, 120 sites

**UCLA**

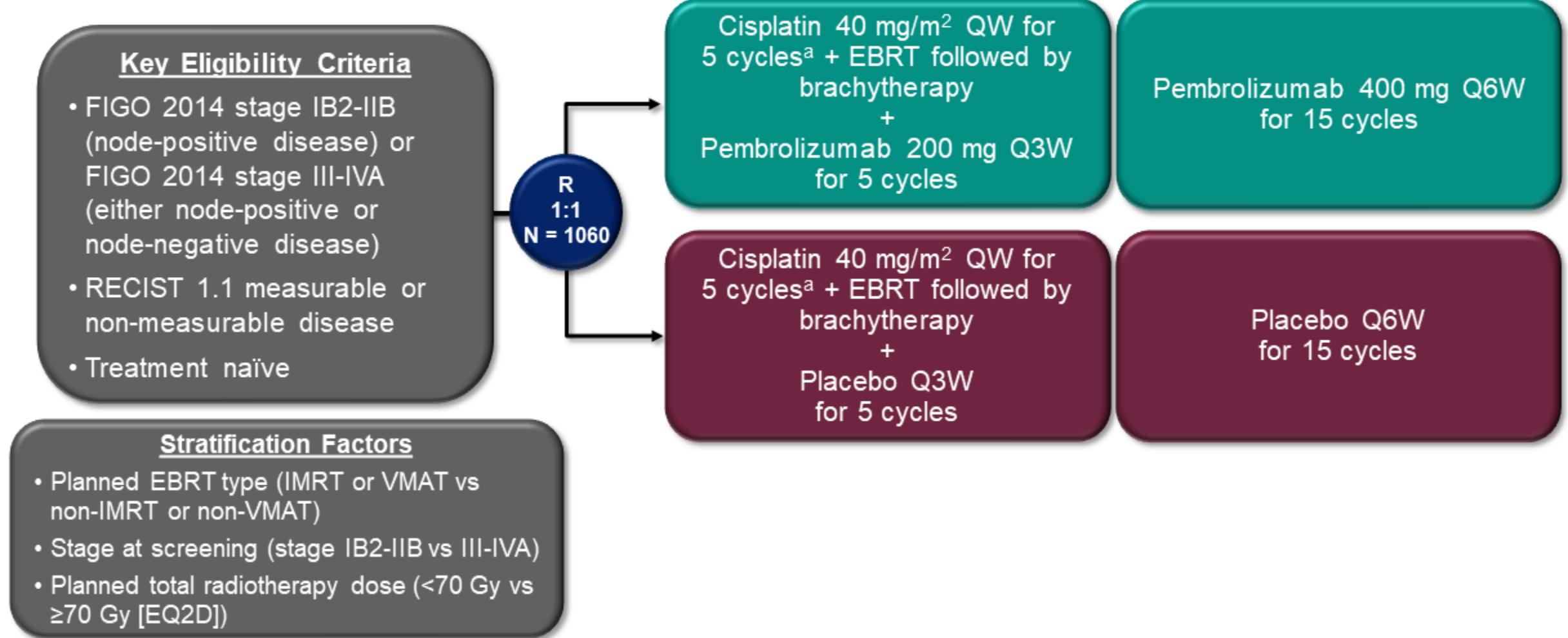
**Health**

# CALLA: Outcomes

	Durvalumab + CRT (N=385)	Placebo + CRT (N=385)
<b>Histology, n (%)</b>		
Squamous	<b>322 (83.6)</b>	<b>320 (83.1)</b>
Adeno	<b>55 (14.3)</b>	<b>58 (15.1)</b>
<b>Stage n (%)</b>		
IB2–IIB	<b>135 (35.1)</b>	<b>130 (33.8)</b>
III	<b>225 (58.4)</b>	<b>236 (61.3)</b>
IVA	<b>25 (6.5)</b>	<b>19 (4.9)</b>
<b>LN, n (%)</b>		
Pelvic	<b>246 (63.9)</b>	<b>268 (69.6)</b>
Para-aortic	<b>47 (12.2)</b>	<b>38 (9.9)</b>
<b>PD-L1 status, n (%)</b>		
TAP $\geq 1\%$	<b>356 (92.5)</b>	<b>352 (91.4)</b>
TAP $\geq 5\%$	<b>311 (80.8)</b>	<b>300 (77.9)</b>
Missing	<b>14 (3.6)</b>	<b>21 (5.5)</b>

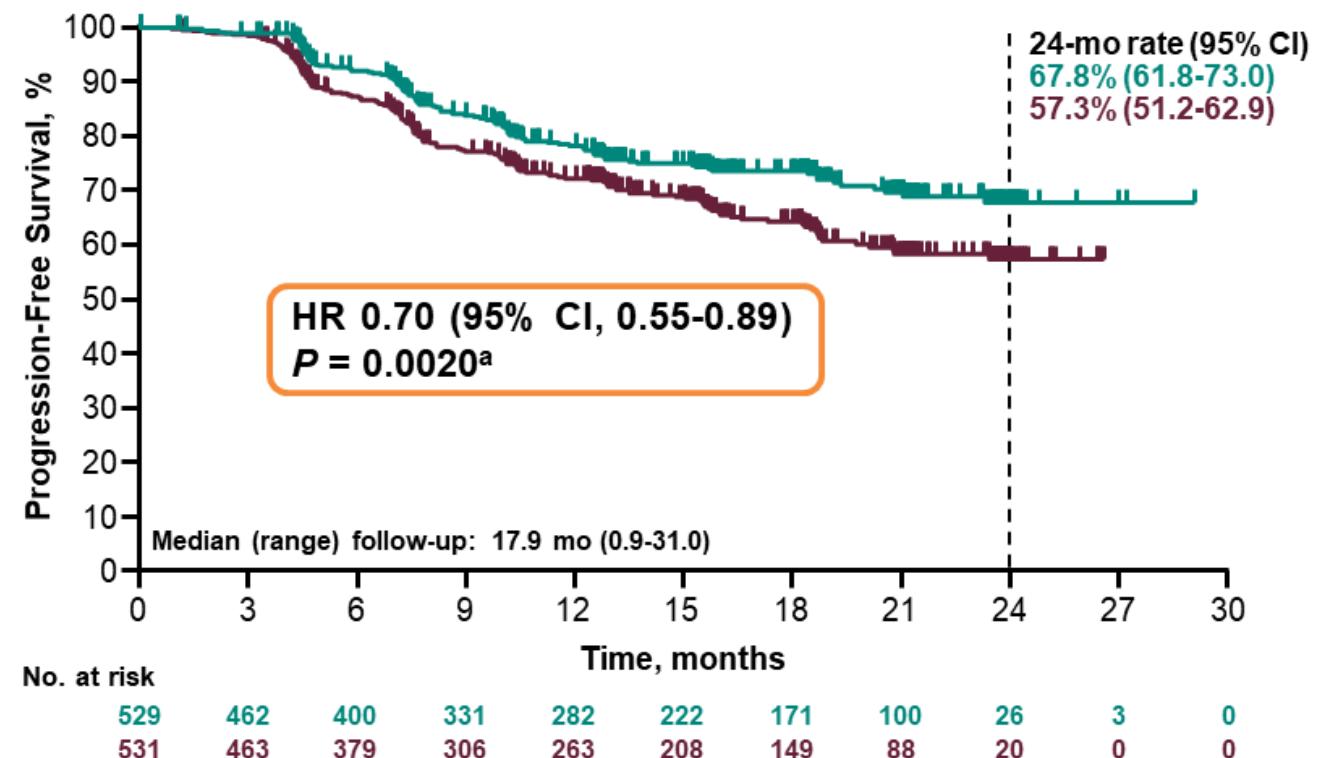


# KEYNOTE A18: Pembrolizumab



# KEYNOTE A18: PFS

	Pembro (n=529)	Placebo (n=531)
Age	49 (22-87)	50 (22-78)
PDL1 CPS>1	94.9%	93.8%
Stage IB2-I	44.4%	42.7%
Stage III-IVA	55.6%	57.3%
Positive lymph nodes	84.1%	82.5%
IMRT or VMAT	88.7%	88.5%
Radiation dose $\geq$ 70 Gy	91.1%	91.3%
Radiation within 56 days	74.5%	74.7%

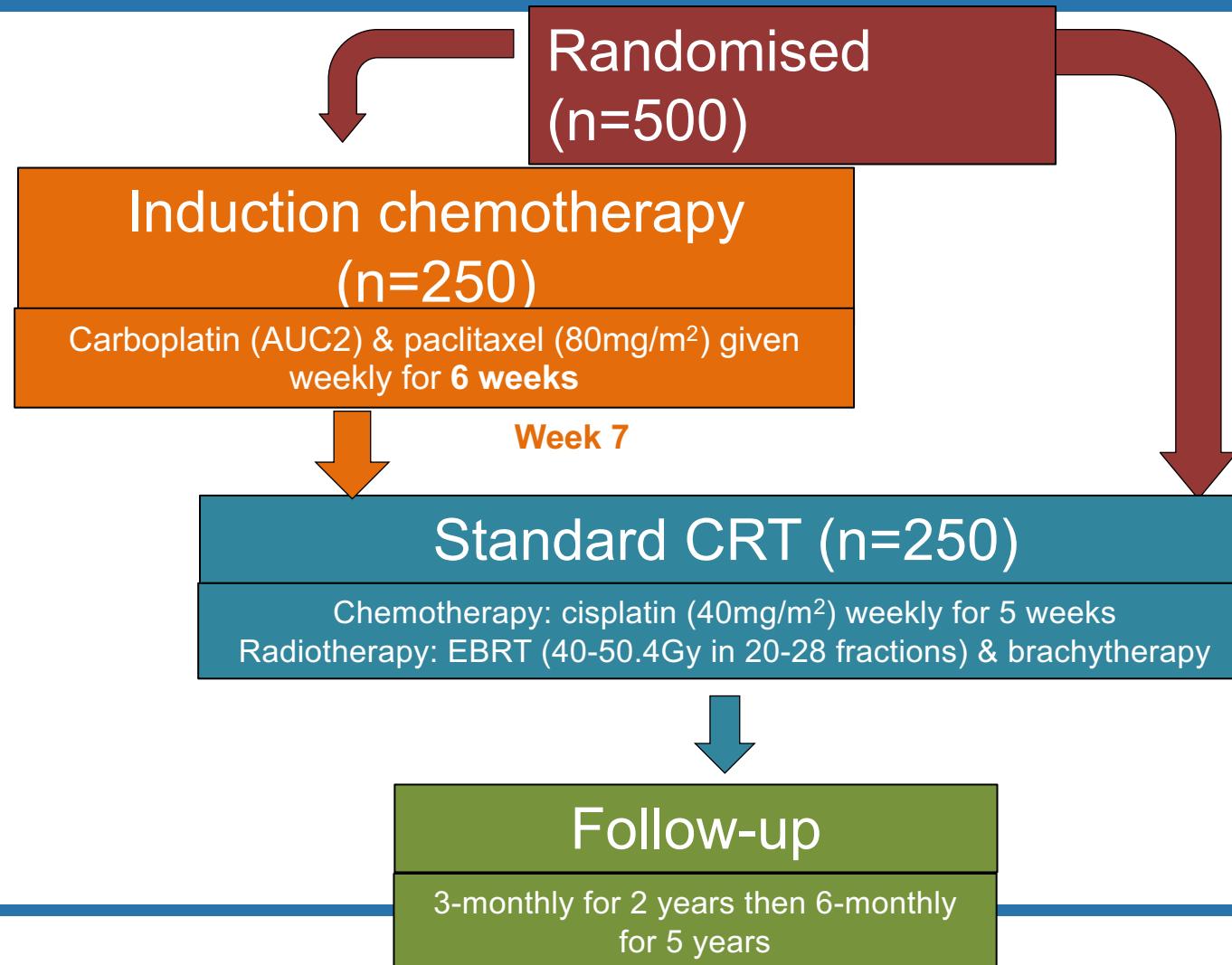


Overall survival: HR 0.73 (0.49-1.07)

# INTERLACE Trial: Induction chemotherapy

Newly diagnosed FIGO (2008) stage IB1 node+, IB2, II, IIIB, IVa cervical cancer

- Site
- Stage
- Nodal status
- 3D v IMRT EBRT
- 2D v 3D BT
- Tumour size
- SCC v other



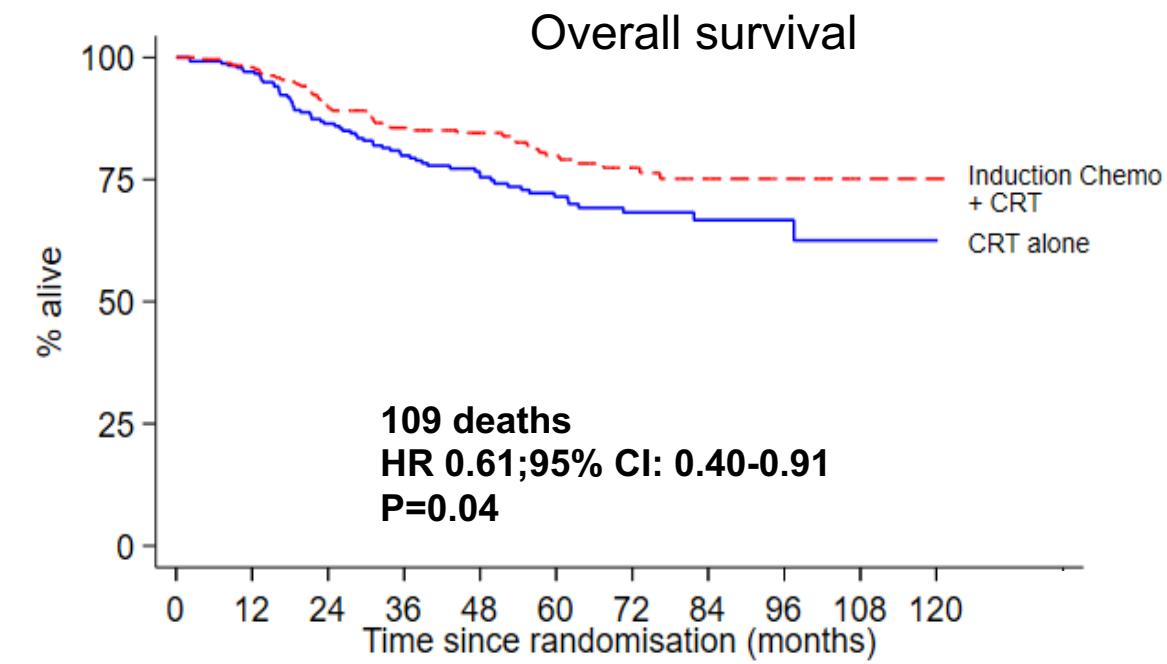
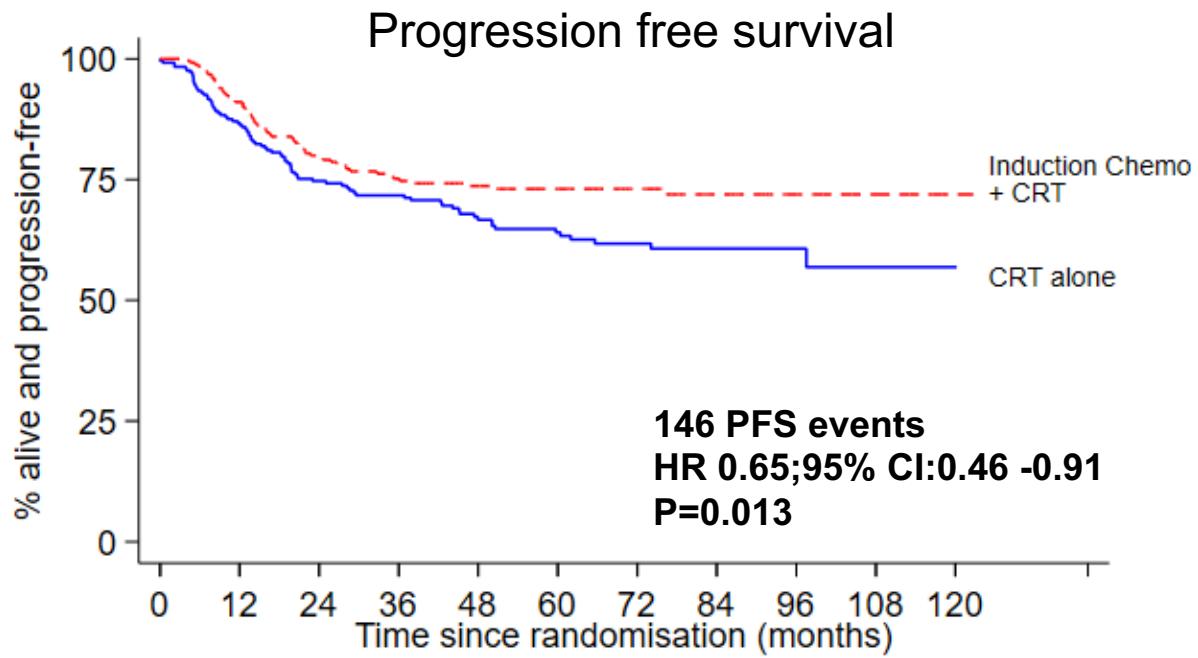
## Primary endpoints

- PFS
- OS

## Secondary endpoints

- Adverse events
- Pattern of relapse
- QOL
- Time to subsequent treatment

# INTERLACE Trial: Induction chemotherapy



	Induction Chemo + CRT (n=250)	CRT alone (n=250)
3yr PFS	75%	72%
5yr PFS	73%	64%

	Induction Chemo + CRT (n=250)	CRT alone (n=250)
3yr OS	86%	80%
5yr OS	80%	72%

# Recurrent Cervical Cancer: Tisotumab Vedotin (TV)

- Tissue factor ADC
  - Highly expressed in cervix cancer
  - Involved in progression and metastases

## Linker

Protease-cleavable val-citrulline maleimidocaproyl linker

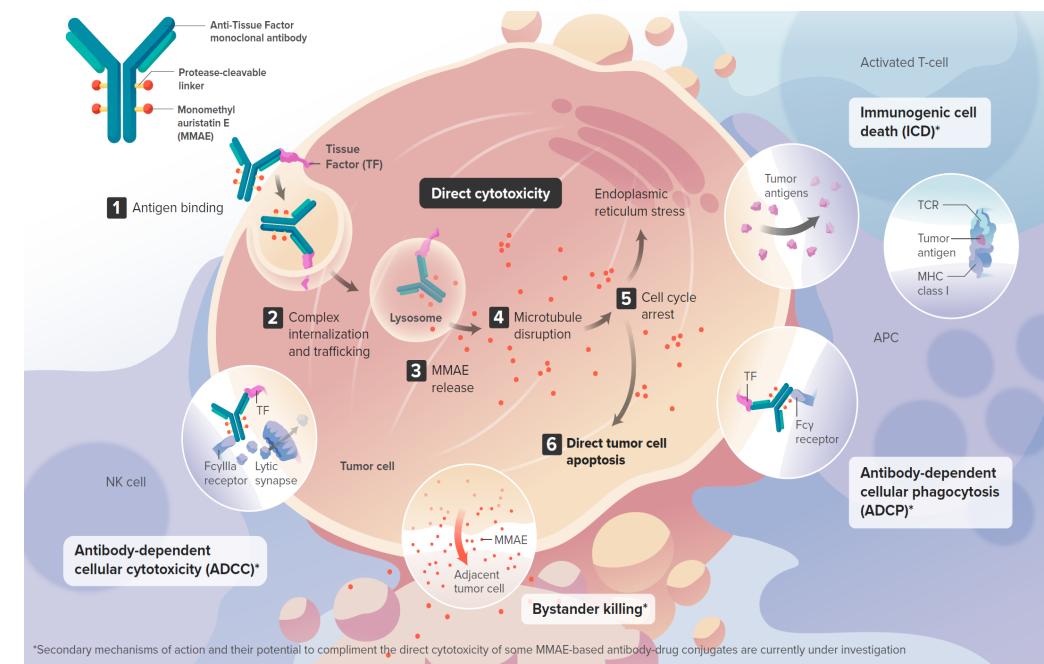
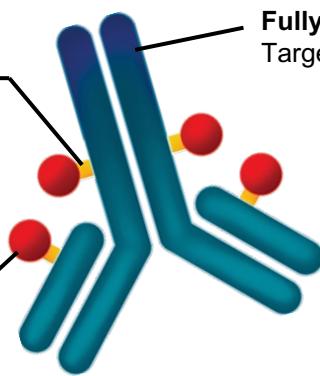
Conjugated to monoclonal antibody via cysteine residues

Fully human mAb  
Targets tissue factor

## Cytotoxic payload

Monomethyl auristatin E (MMAE), a microtubule-disrupting agent

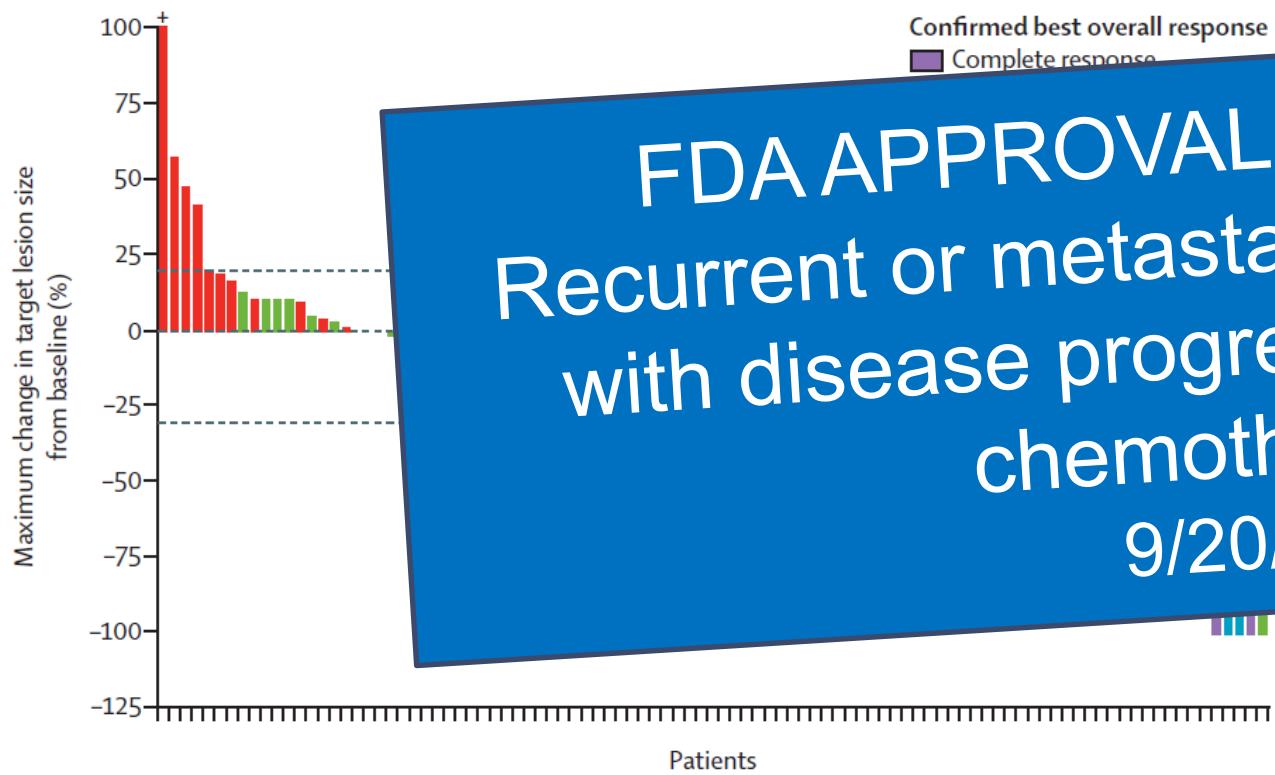
Drug-to-antibody ratio of approximately 4:1



\*Secondary mechanisms of action and their potential to compliment the direct cytotoxicity of some MMAE-based antibody-drug conjugates are currently under investigation

# TV: Phase 2 study

- Recurrent (2L+) cervical cancer



Response rates (IRC)	(N=101)
ORR (95% CI), %	24 (16-33)
CR, No. (%)	7 (7)
PR, No. (%)	17 (17)
SD, No. (%)	49 (49)
PD, No. (%)	24 (24)
Other, No. (%)	4 (4)
Median time to response (IQR), mo	72 (63-81)
Median PFS (95% CI), mo	8.3 (4.2-NR)
Median OS (95% CI), mo	1.4 (1.3-1.5)
Median PFS (95% CI), mo	4.2 (3.0-4.4)
Median OS (95% CI), mo	12.1 (9.6-13.9)

FDA APPROVAL (accelerated):  
Recurrent or metastatic cervical cancer  
with disease progression on or after  
chemotherapy  
9/20/21

# InnovaTV301: Tisotumab vedotin

## Key Eligibility Criteria

- 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

### Stratified by:

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

## Treatment

**Tisotumab Vedotin**  
(n=253)

2.0 mg/kg IV Q3W

**IC Chemotherapy**  
(n=249)

- Topotecan
- Vinorelbine
- Gemcitabine
- Irinotecan
- Pemetrexed

1:1  
N=502

## Outcomes/Endpoints

### Primary Endpoint

- OS

### Key Secondary Endpoints

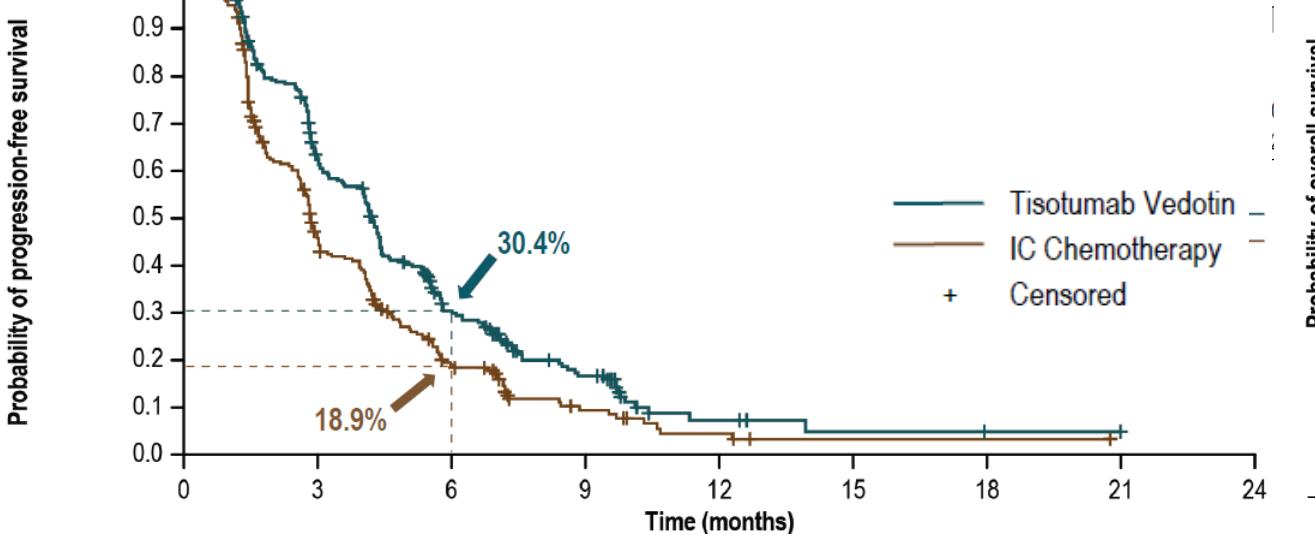
- PFS
- ORR
- Safety

## Patient Characteristics

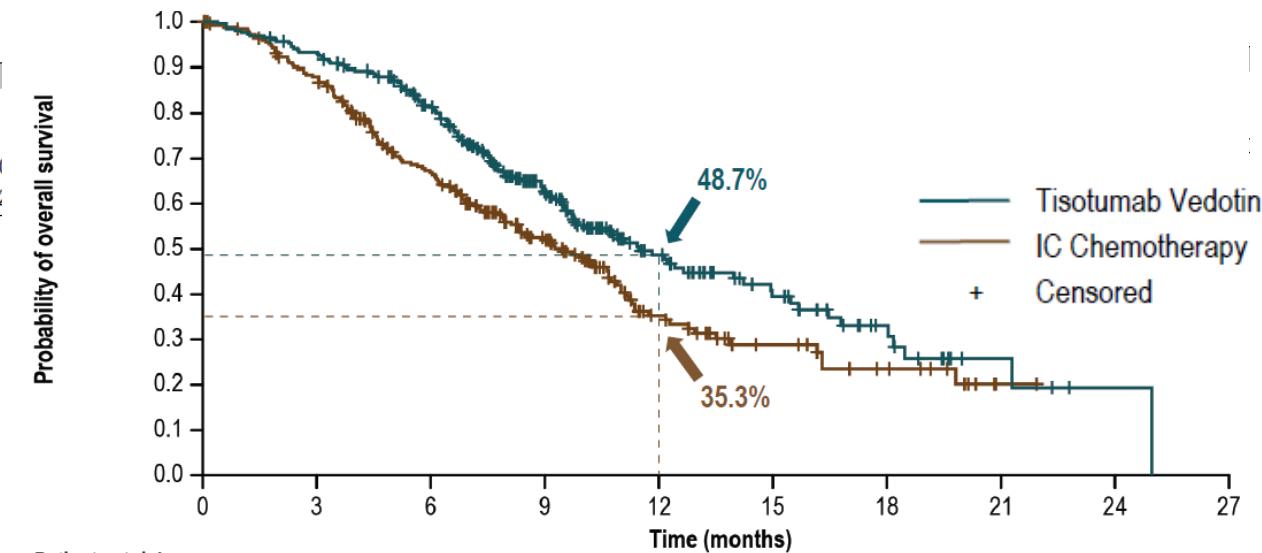
	<b>Tisotumab</b>	<b>IC Chemo</b>
Squamous cell carcinoma	63.2%	63.1%
1 prior regimen	62.8%	59.8%
Prior bevacizumab	64.8%	63.1%
Prior anti PD(L)1	28.1%	26.9%

# InnovaTV301: Survival Outcomes

Progression Free Survival



Overall Survival



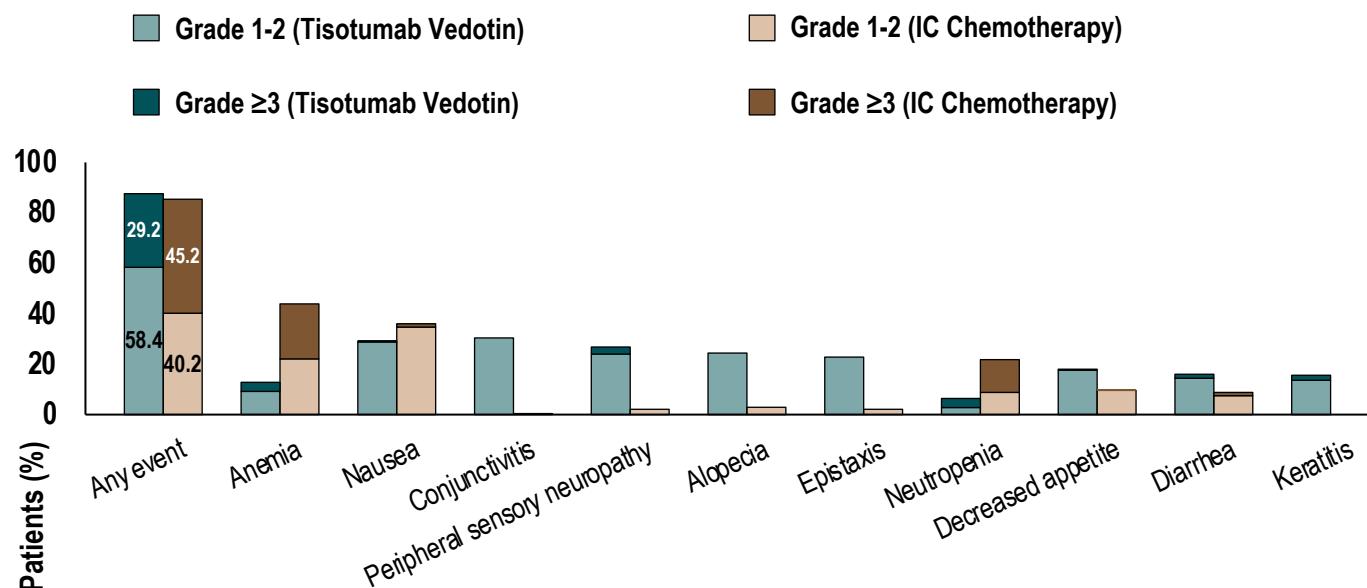
	mPFS (95% CI)	HR (95% CI)	P value
TV	<b>4.2</b> (4.0-4.4)	<b>0.67</b> (0.54-0.82)	<0.0001
Chemo	<b>2.9</b> (2.6-3.1)		

	mOS (95% CI)	HR (95% CI)	P value
TV	<b>11.5</b> (9.8-14.9)	<b>0.70</b> (0.54-0.89)	
Chemo	<b>9.5</b> (7.9-10.7)		0.0038

# InnovaTV301: Outcomes

	Tisotumab Vedotin (N=253)	IC Chemotherapy (N=249)
ORR, % (95% CI)	17.8 (13.3-23.1)	5.2 (2.8-8.8)
Odds ratio (95% CI) P value	4.0 (2.1-7.6) p<0.0001	
Best 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)
DCR, % (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)

## Adverse Events



# Ongoing Trials

## Immunotherapy Combinations

Tisotumab + Pembrolizumab

TILs (LN-145)\*\*

DNA Vaccines

GX-188E + Pembrolizumab

VB10.16 + Atezolizumab\*\*

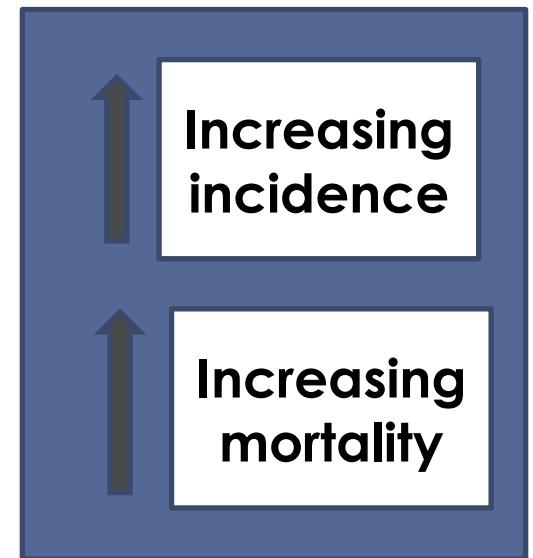
\*\*Prior checkpoint inhibitor therapy

# Endometrial Cancer

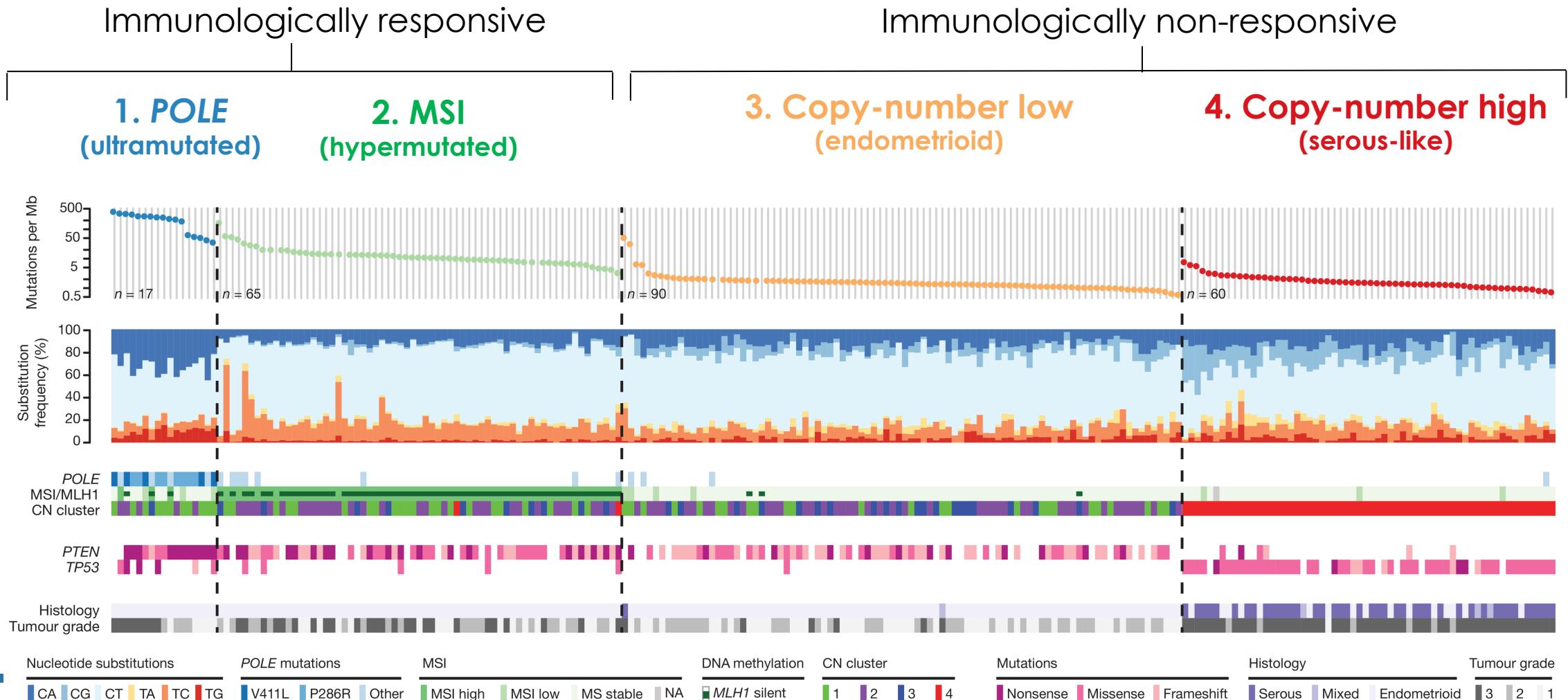
# Overview of Endometrial Cancer

- Estimated 66,200 new cases (3.4% of all cancers)
  - ~70% are diagnosed in early stages
  - ~1/3 are diagnosed with high grade or advanced disease
    - This is the population of interest
- Estimated 13,030 deaths

Only gynecologic malignancy  
with an increasing incidence  
and mortality



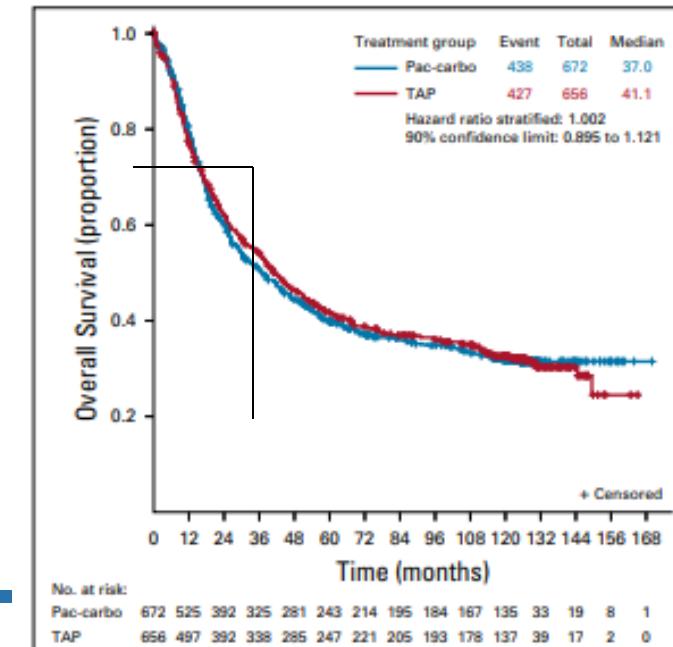
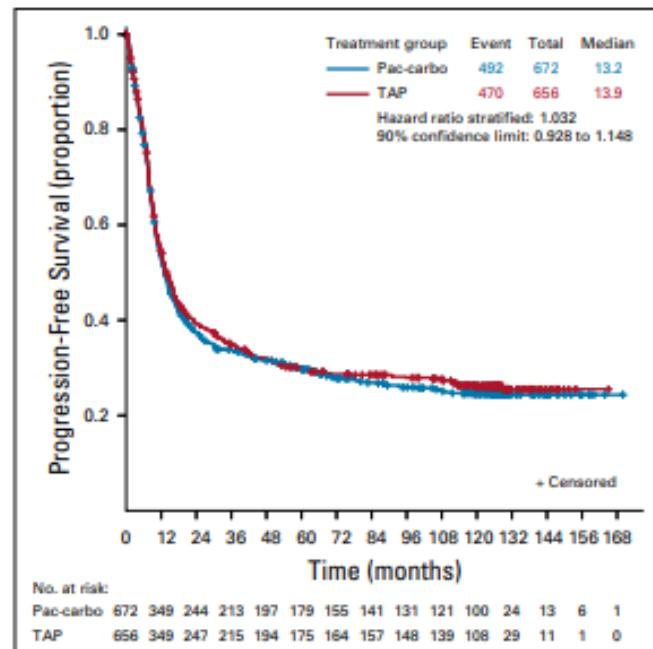
# Biomarkers in Endometrial Cancer



MSI, microsatellite instability. Levine et al, 2013.

# Advanced/Recurrent Endometrial Cancer

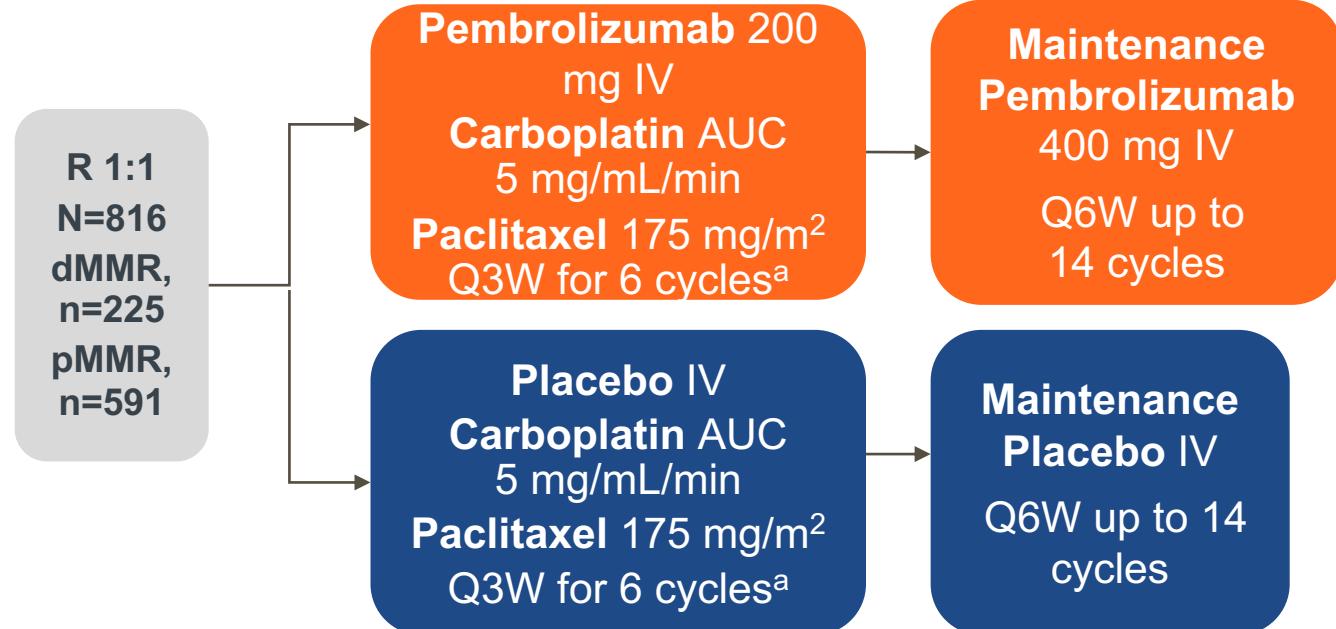
- 2000's: Chemotherapy has been standard of care
- 2010: Carboplatin and paclitaxel became the preferred regimen
  - Recurrence rates and median PFS ~8 months



# GY018 (KEYNOTE 868): Study Schema

## Eligible patients

- Histologically confirmed recurrent or advanced (stage III, IVA, or IVB) EC
- ECOG PS of 0-2
- Results of institutional MMR IHC testing
- Submission of tumor specimens for centralized MMR IHC testing
- No prior chemotherapy treatment for EC
- Prior adjuvant chemotherapy allowed if completed  $\geq 12$  months before enrollment



**Primary end point:** PFS (IA)

**Secondary end points:** AEs, ORR, DOR, OS, QOL, concordance between institutional MMR IHC and centralized MMR IHC

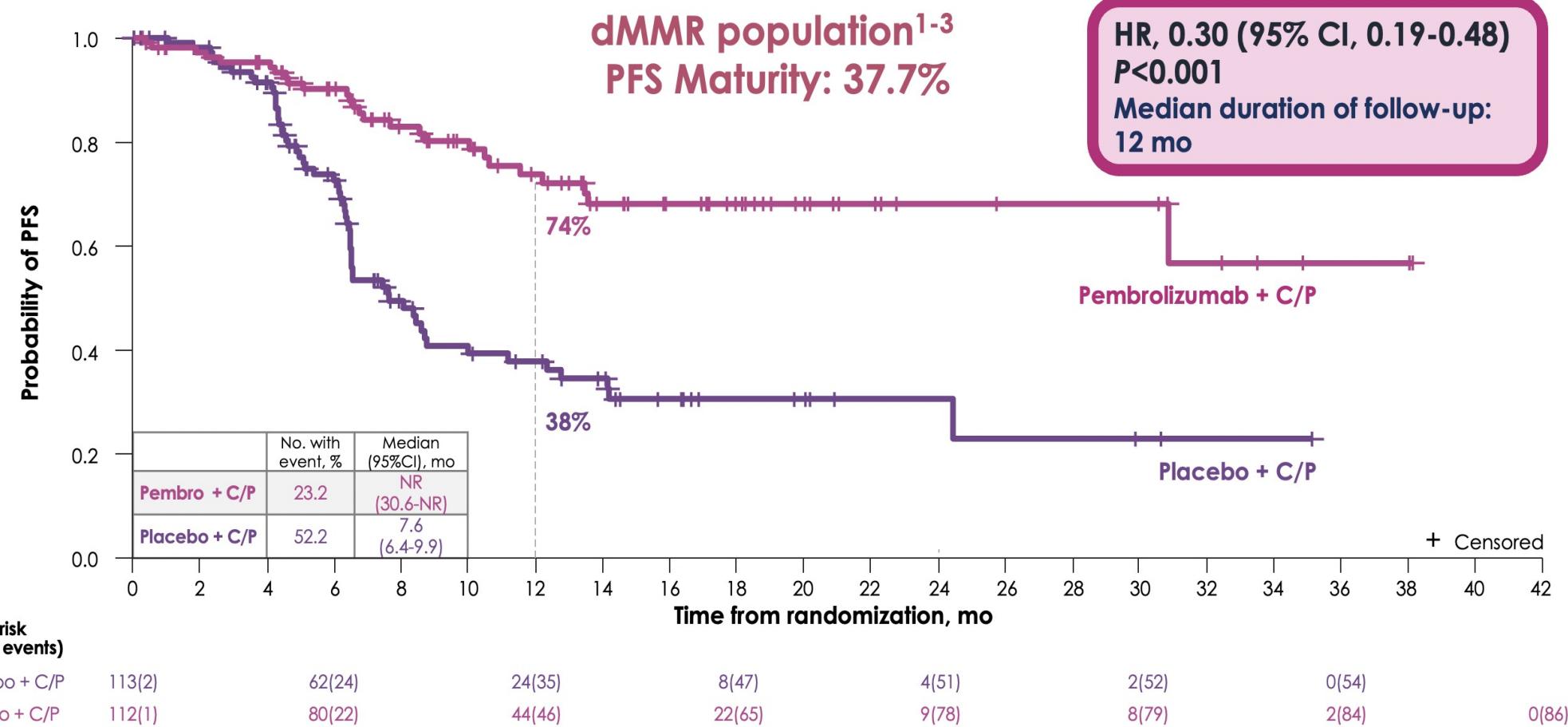
## Stratification

- MMR status
- ECOG PS (0, 1 or 2)
- Prior chemotherapy (yes/no)

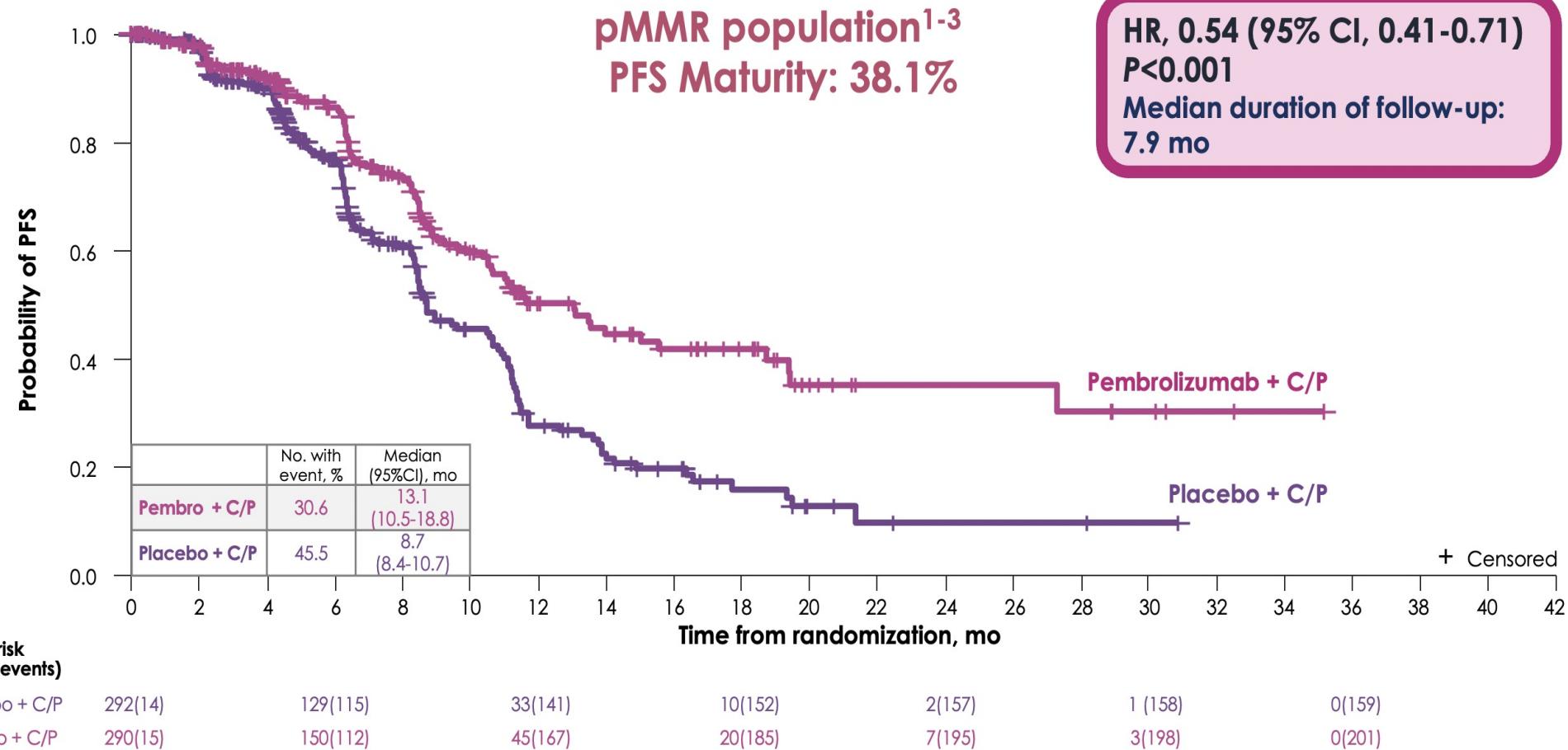
# GY018: Patient Characteristics

Patient Characteristics, n (%)		dMMR (n=225)		pMMR (n=588)	
		Pembro + CT (n=112)	Placebo + CT (n=113)	Pembro + CT (n=293)	Placebo + CT (n=295)
Median age (range), years		67 (38-81)	66 (37-85)	66 (31-93)	65 (29-90)
ECOG PS	0	72 (64.3)	73 (64.6)	196 (66.9)	198 (67.1)
	1	39 (34.8)	35 (31.0)	88 (30.0)	88 (29.8)
	2	1 (0.9)	5 (4.4)	9 (3.1)	9 (3.1)
Histology					
Clear cell		1 (0.9)	0	17 (5.8)	20 (6.8)
Endometrioid, G1		21 (18.8)	35 (31.0)	54 (18.4)	46 (15.6)
Endometrioid, G2		52 (46.4)	41 (36.3)	51 (17.4)	58 (19.7)
Endometrioid, G3		15 (13.4)	16 (14.2)	53 (18.1)	42 (14.2)
Serous		4 (3.6)	1 (0.9)	78 (26.6)	72 (24.4)
No prior chemotherapy		107 (95.5)	105 (92.9)	221 (75.4)	218 (73.9)

# GY018 PFS dMMR



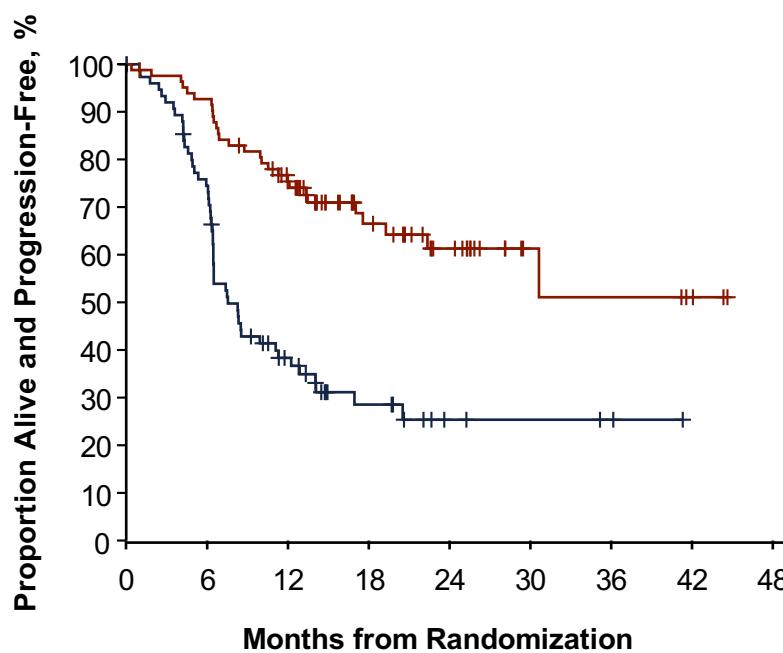
# GY018: PFS pMMR



# GY018: PFS by Methylation Status

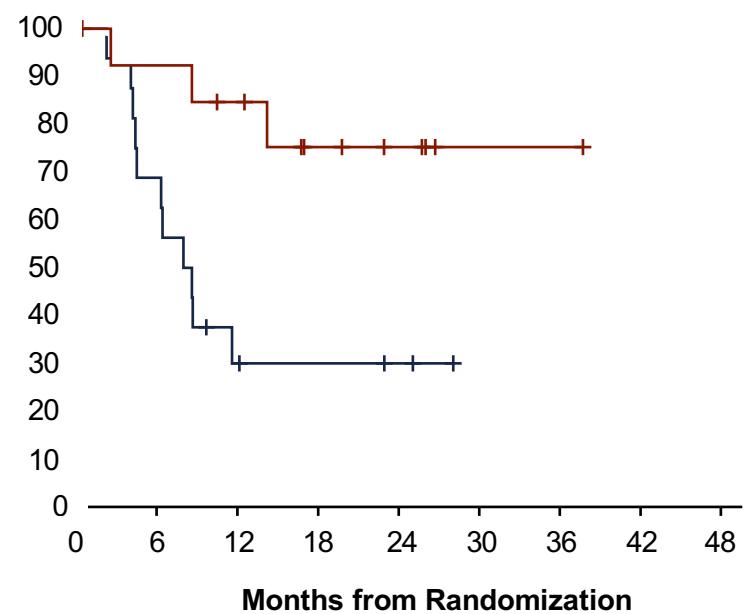
## Methylation

	Events n/N	Median (95% CI), mo	HR (95% CI)
Placebo + CP	51/77	7.5 (6.4–11.3)	0.307 (0.19–0.49) $P < 0.0001$
Pembro + CP	28/83	NR (22.3–NR)	



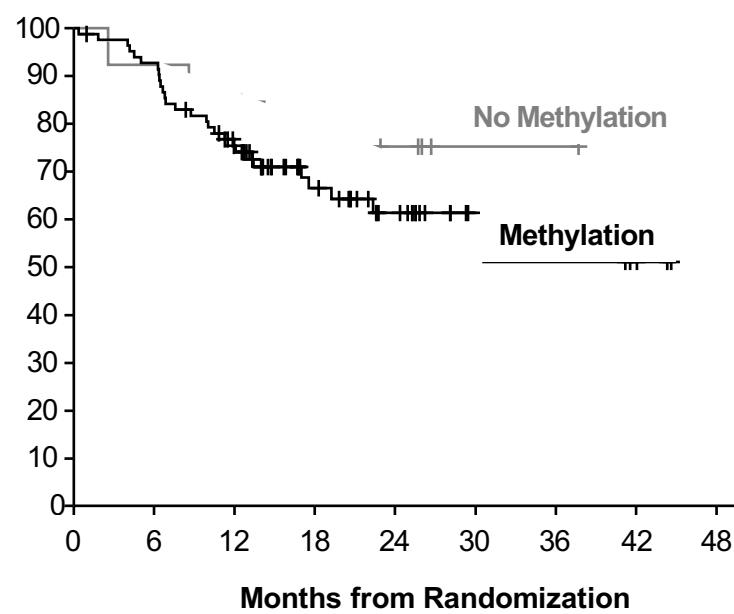
## No Methylation

	Events n/N	Median (95% CI), mo	HR (95% CI)
Placebo + CP	11/17	8.3 (4.4–NR)	0.263 (0.07–0.99)
Pembro + CP	3/13	NR (14.2–NR)	$P = 0.0172$



## Methylation Status

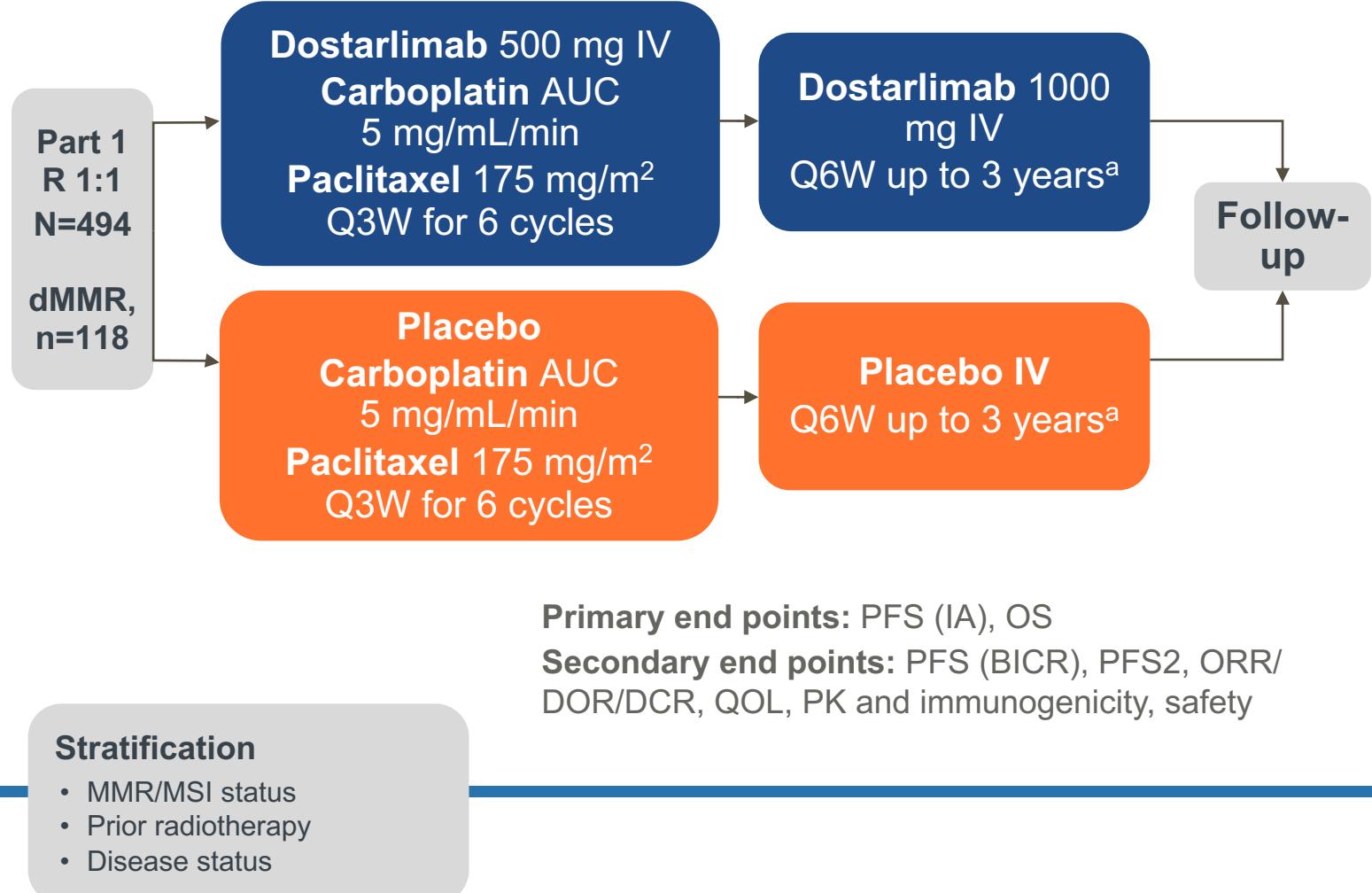
	Events n/N	Median (95% CI), mo
No Methylation	3/13	NR (14.2–NR)
Methylation	28/83	NR (22.3–NR)



# RUBY: ENGOT-en6/GOG 3031

## Eligible patients

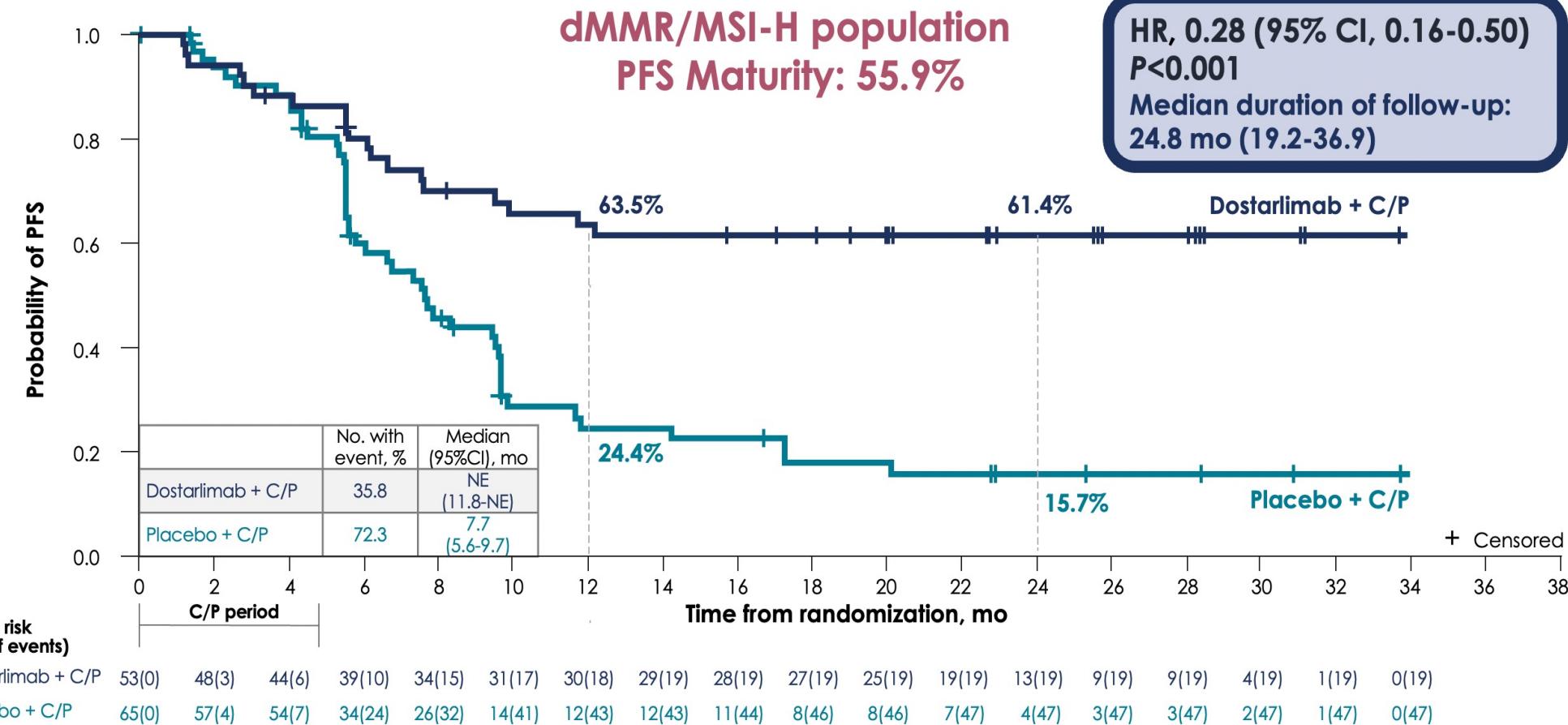
- Histologically or cytologically proven EC with recurrent or advanced disease
- Stage III or IV disease or first recurrence of EC with low potential for cure by use of radiation therapy or surgery alone or in combination
  - Carcinosarcoma, clear cell, serous, or mixed histology
- Naive to systemic therapy or systemic anticancer therapy and recurrence or PD  $\geq 6$  months after completing treatment
- ECOG PS 0 or 1
- Adequate organ function



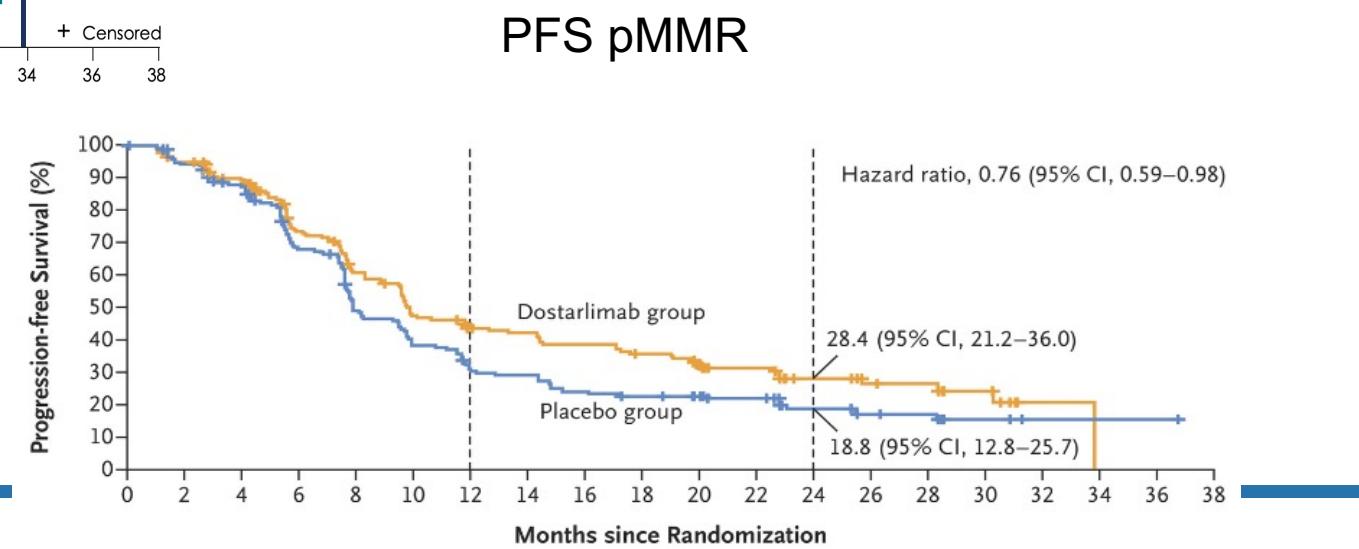
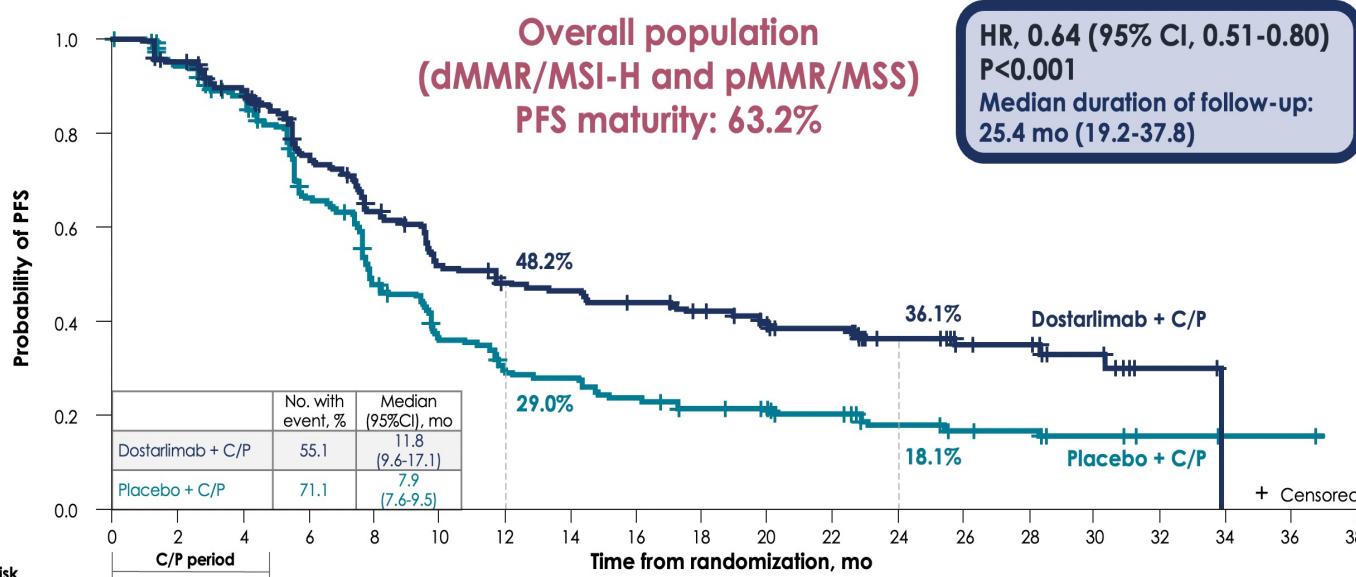
# RUBY: Patient Characteristics

Patient Characteristics n(%)		dMMR/MSI-H		Overall	
		Dostarlimab + CP (n=53)	Placebo + CP (n=65)	Dostarlimab + CP (n=245)	Placebo + CP (n=249)
Median age (range), years		61 (45-81)	66 (39-85)	64 (41-81)	65 (28-85)
ECOG PS	0	28 (53.8)	39 (60.0)	145 (60.2)	160 (65.0)
	1	24 (46.2)	26 (40.0)	96 (39.8)	86 (35.0)
Histology					
Clear cell		0	0	8 (3.3)	9 (3.6)
Carcinosarcoma		4 (7.5)	1 (1.5)	25 (10.2)	19 (7.6)
Endometrioid		44 (83.0)	56 (86.2)	134 (54.7)	136 (54.6)
Prior systemic therapy		7 (13.2)	10 (15.4)	48 (19.6)	52 (20.9)
Carboplatin/paclitaxel		4 (7.5)	6 (9.2)	36 (14.7)	39 (15.7)
Measurable disease at baseline		49 (92.5)	58 (89.2)	212 (86.5)	219 (88.0)

# RUBY: PFS dMMR

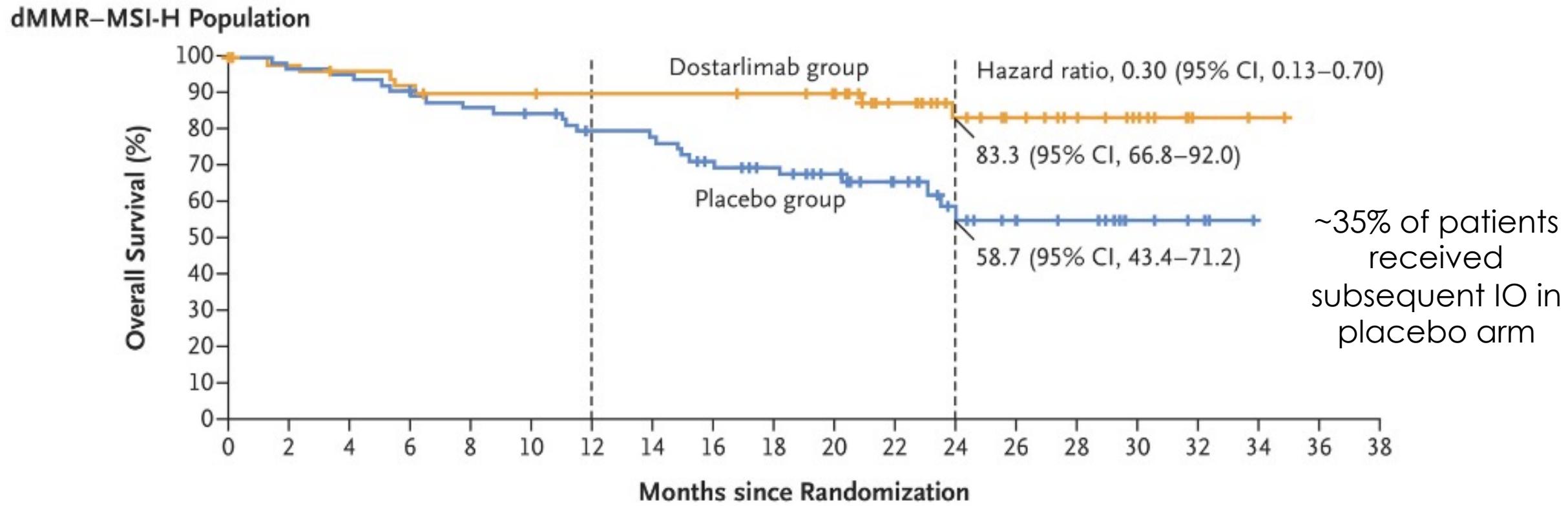


# RUBY: PFS ITT and pMMR

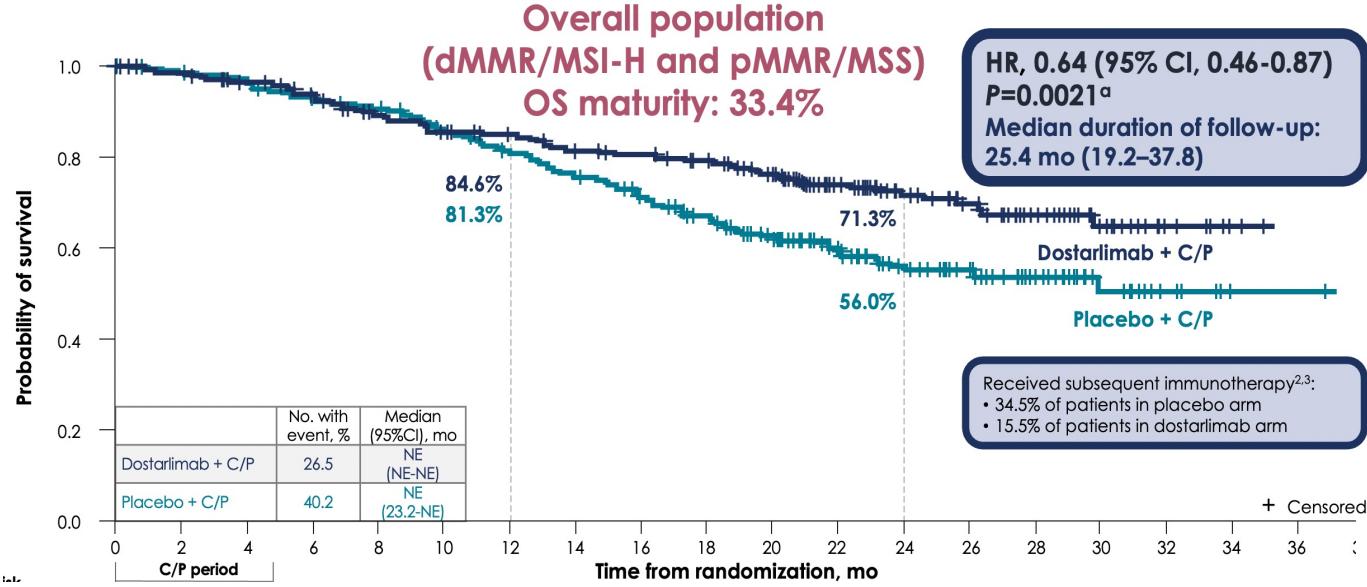


# RUBY Trial: OS dMMR

FDA approval in  
dMMR population  
on 7/31/2023



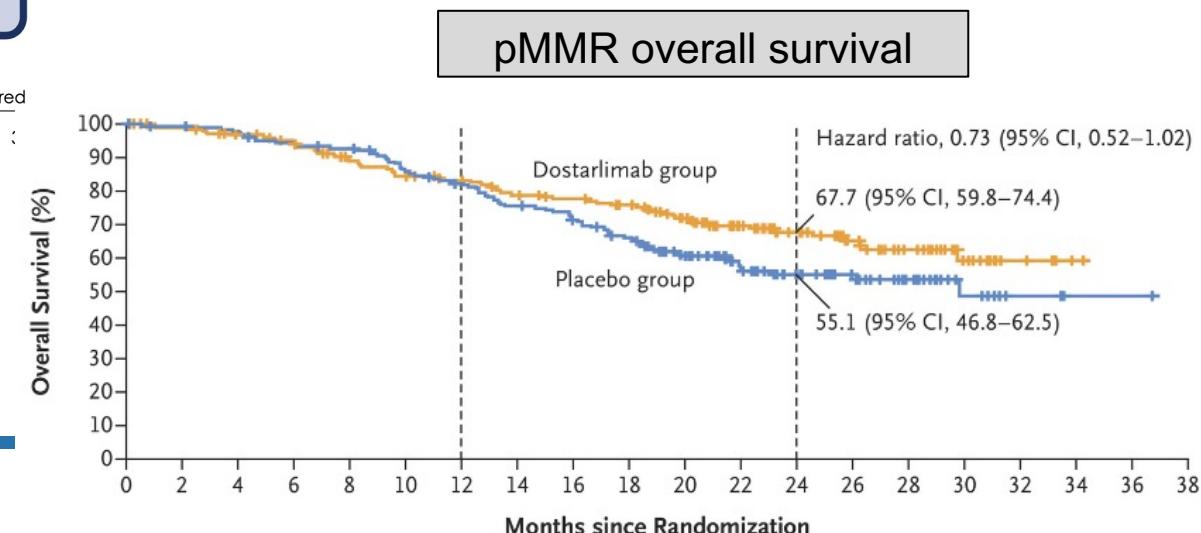
# RUBY OS ITT and pMMR



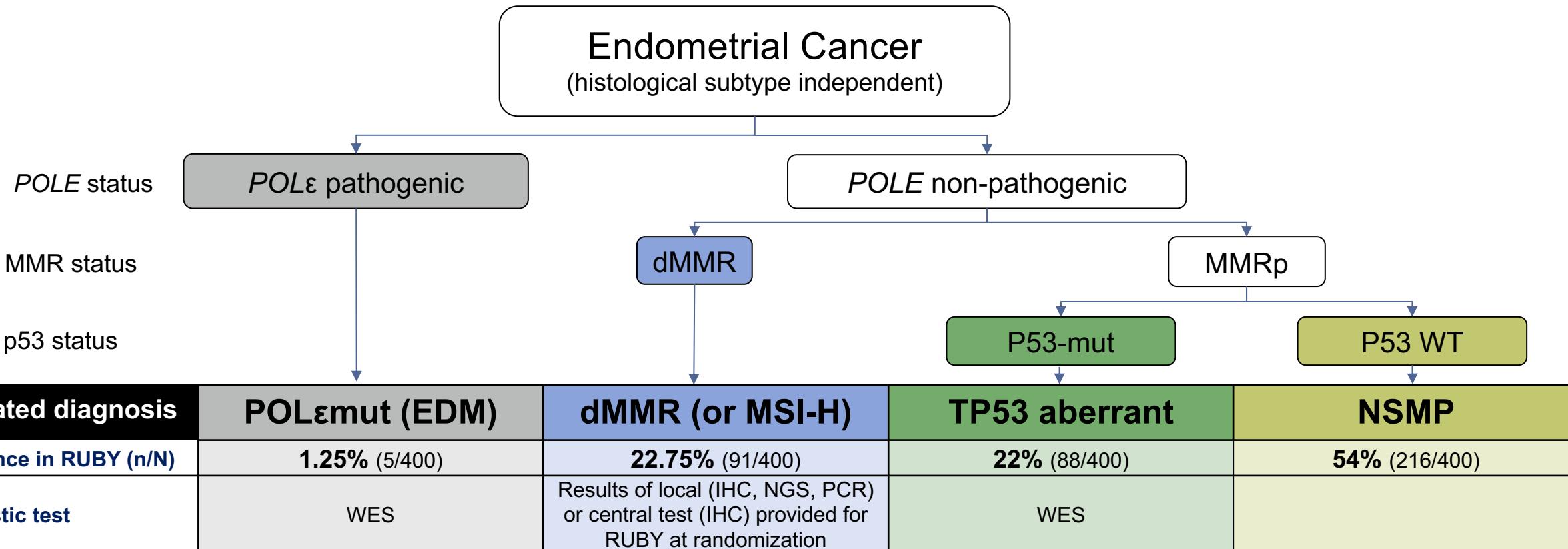
Issued: 30 October 2023, London UK

## Phase III RUBY trial of *Jemperli* (dostarlimab) plus chemotherapy meets endpoint of overall survival in patients with primary advanced or recurrent endometrial cancer

- Statistically significant and clinically meaningful overall survival benefit observed in the overall population in the trial
- Dostarlimab plus chemotherapy is the only immuno-oncology combination regimen to show an overall survival benefit in this patient population

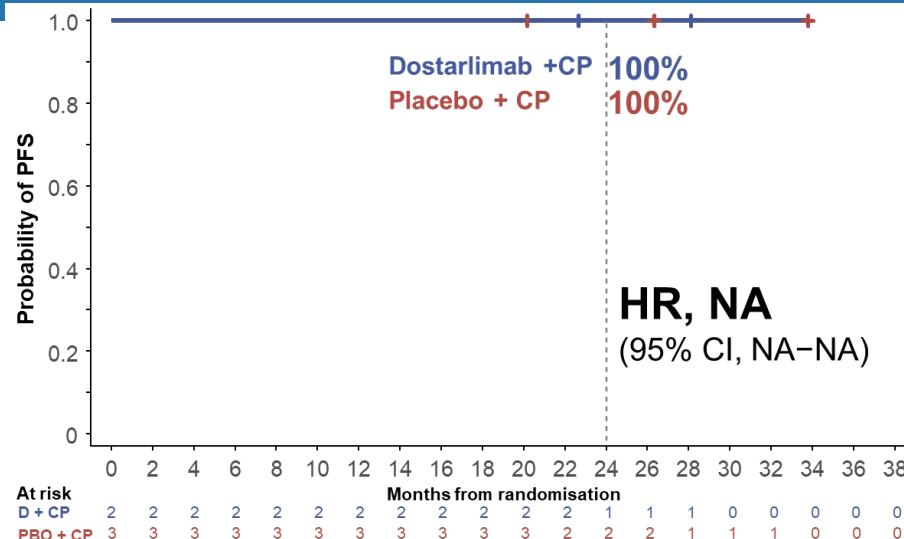


# RUBY: Molecular Subgroups

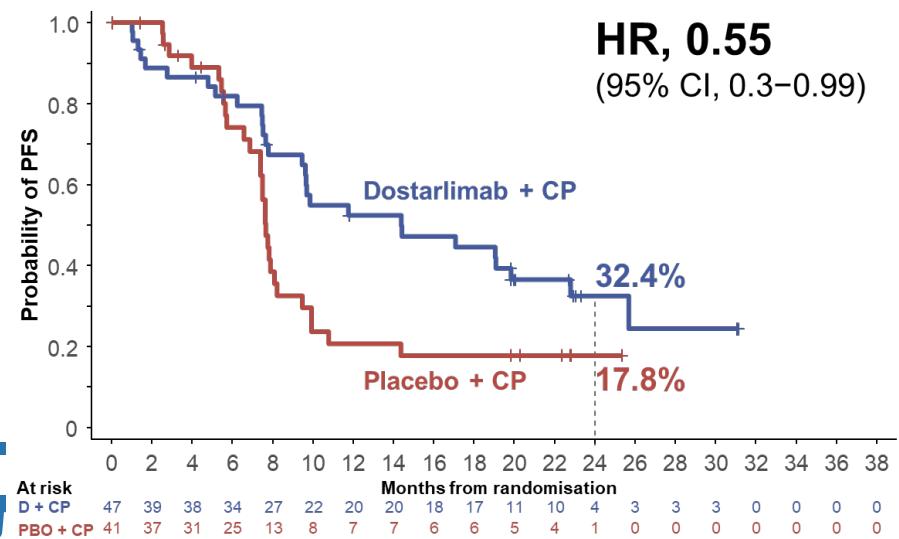


# RUBY: PFS Molecular Subgroups

POL $\varepsilon$  mut

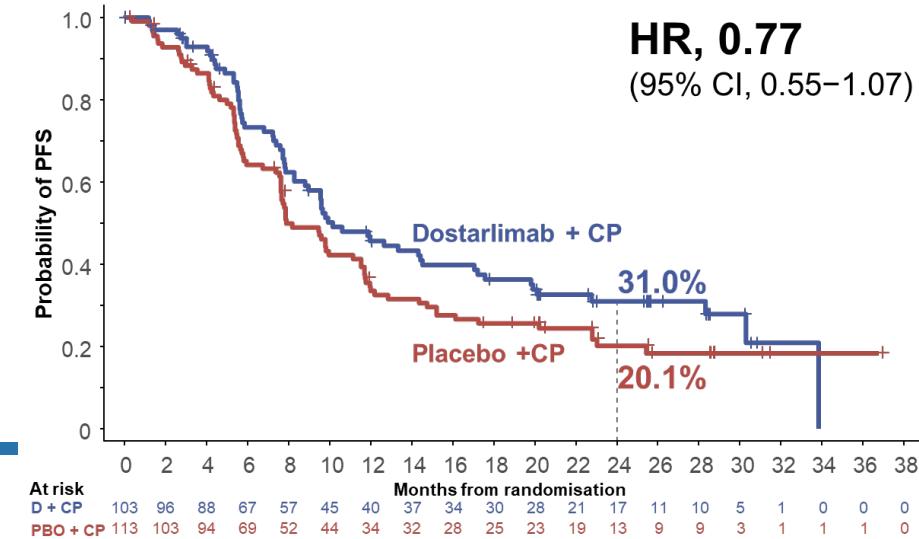
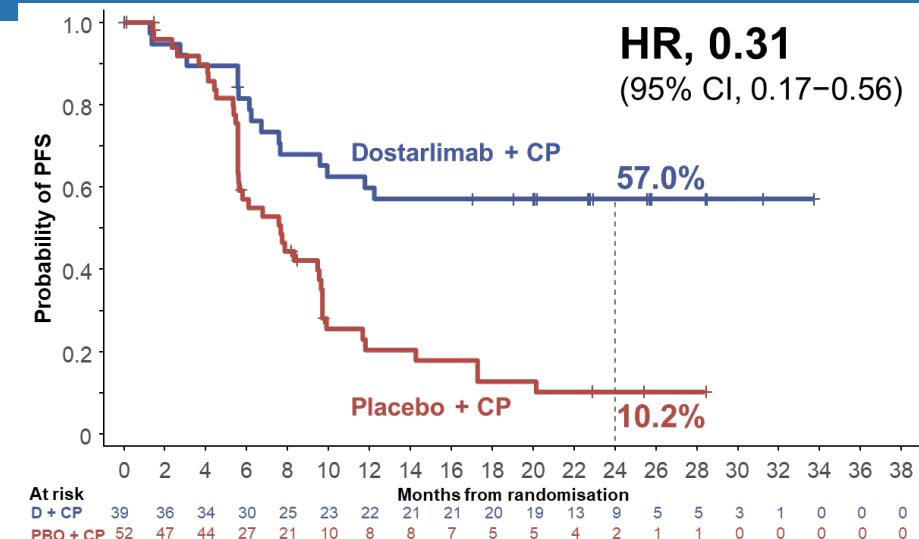


TP53 mut



L

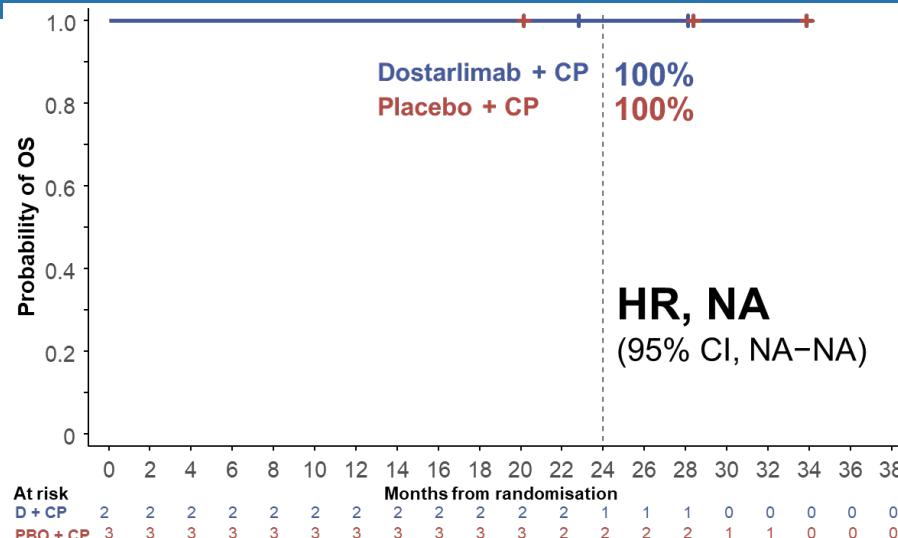
dMMR/MSI-H



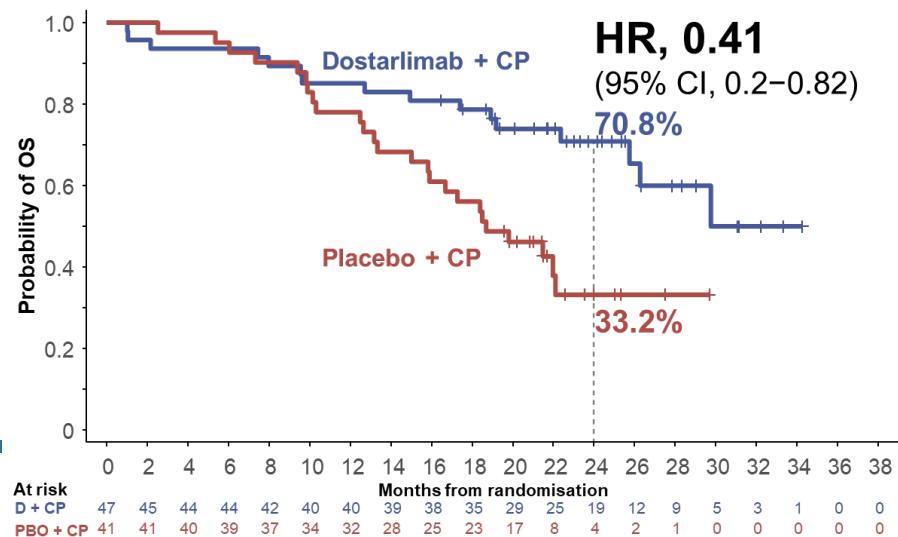
NSMP

# RUBY: OS Molecular Subgroups

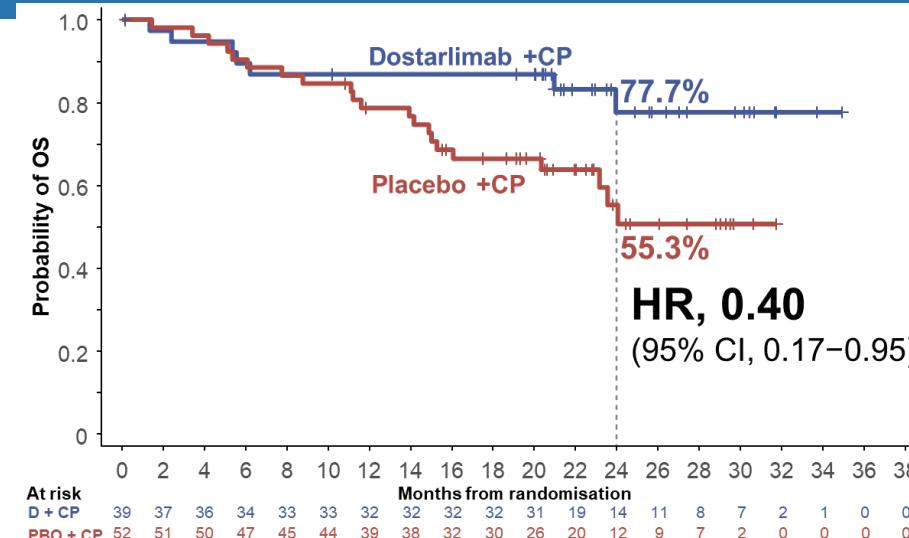
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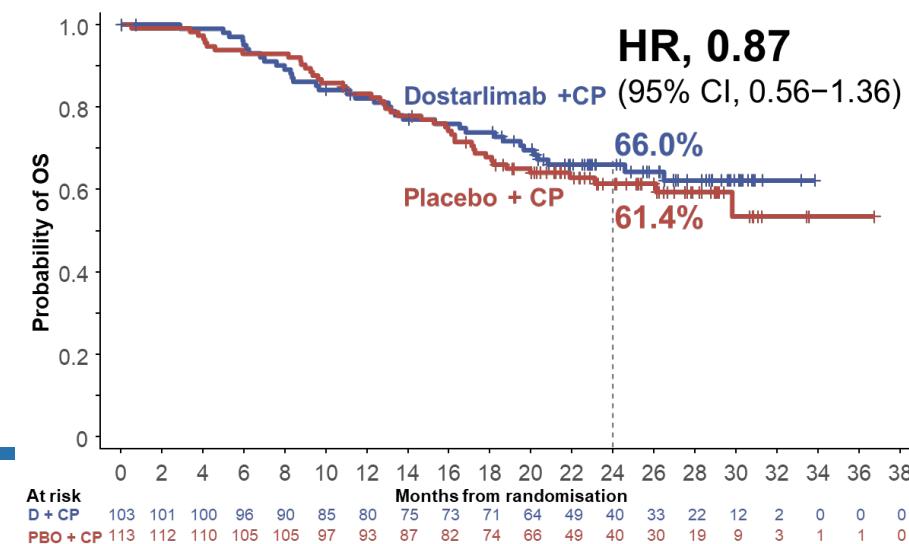
TP53 mut



dMMR/MSI-H



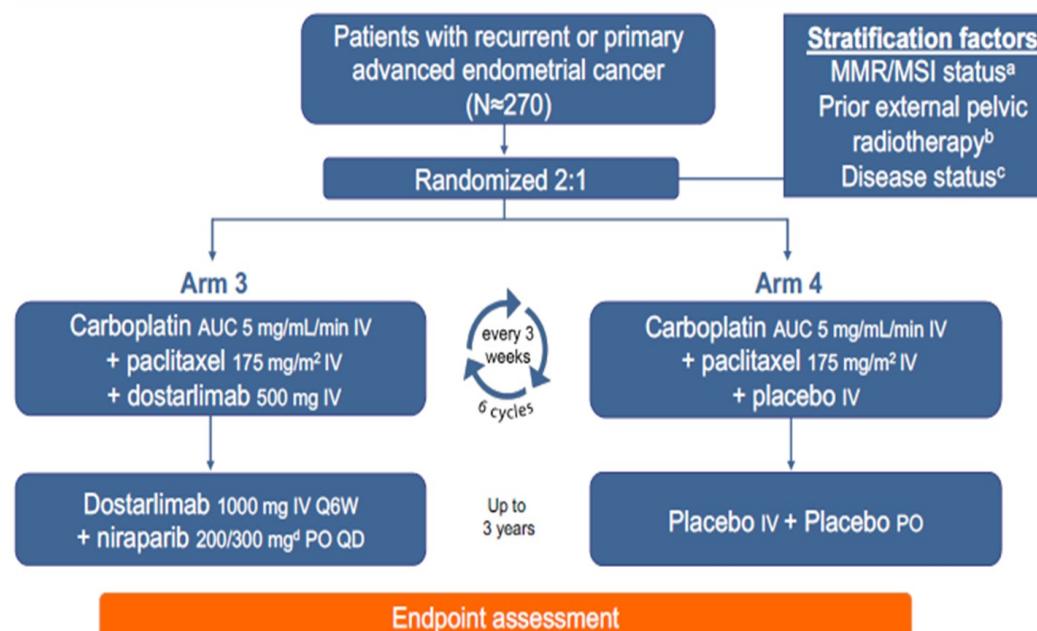
NSMP



# The Role of PARPi: RUBY Part 2

Multi-center Phase 3 study that will evaluate the efficacy and safety of DOSTARLIMAB + carboplatin-paclitaxel followed by DOSTARLIMAB + NIRAPARIB

## Trial Design for RUBY Part 2



### Primary endpoint

- Compare PFS evaluated by blinded independent review committee per Response Evaluation Criteria in Solid Tumors (RECIST) v1.1

### Secondary endpoints

- PFS by investigator assessment
- Overall survival
- Objective response rate
- Duration of response
- Disease control rate
- PFS-2<sup>e</sup>
- Patient-reported outcomes for quality of life assessment

### Safety assessment

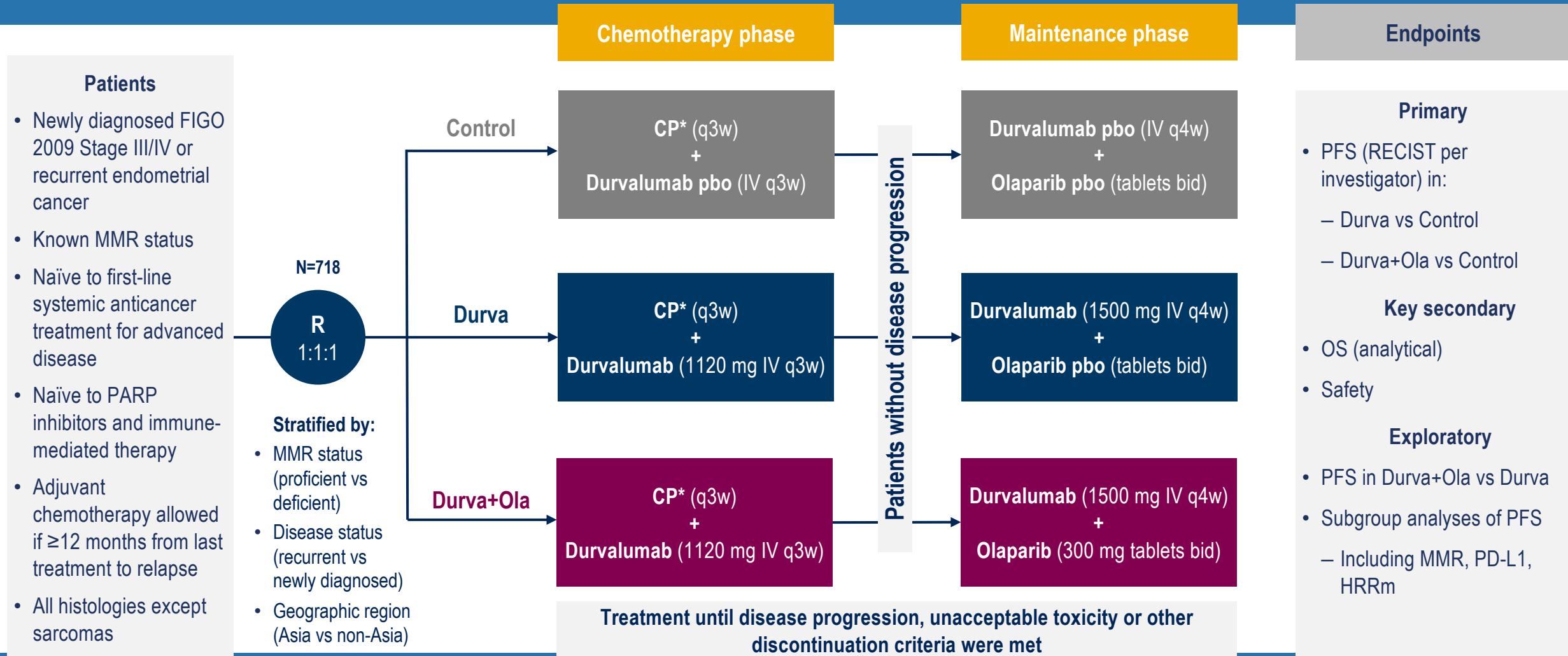
- All adverse events will be assessed for intensity according to Common Terminology Criteria for Adverse Events (CTCAE) v4.03



<sup>a</sup>MMR/MSI status: dMMR/MSI-H or MMRp/MSS; <sup>b</sup>Prior external pelvic radiotherapy: yes or no; <sup>c</sup>Disease status: recurrent, primary stage III, or primary stage IV; <sup>d</sup>Niraparib dosing is 200 mg PO QD for patients with baseline BW <77 kg or PC <150,000/µL or 300 mg QD for patients with baseline BW ≥77 kg and PC ≥150,000/µL; <sup>e</sup>PFS-2 is defined as the time from randomization to objective tumor progression on next-line treatment or death from any cause, whichever is earlier.

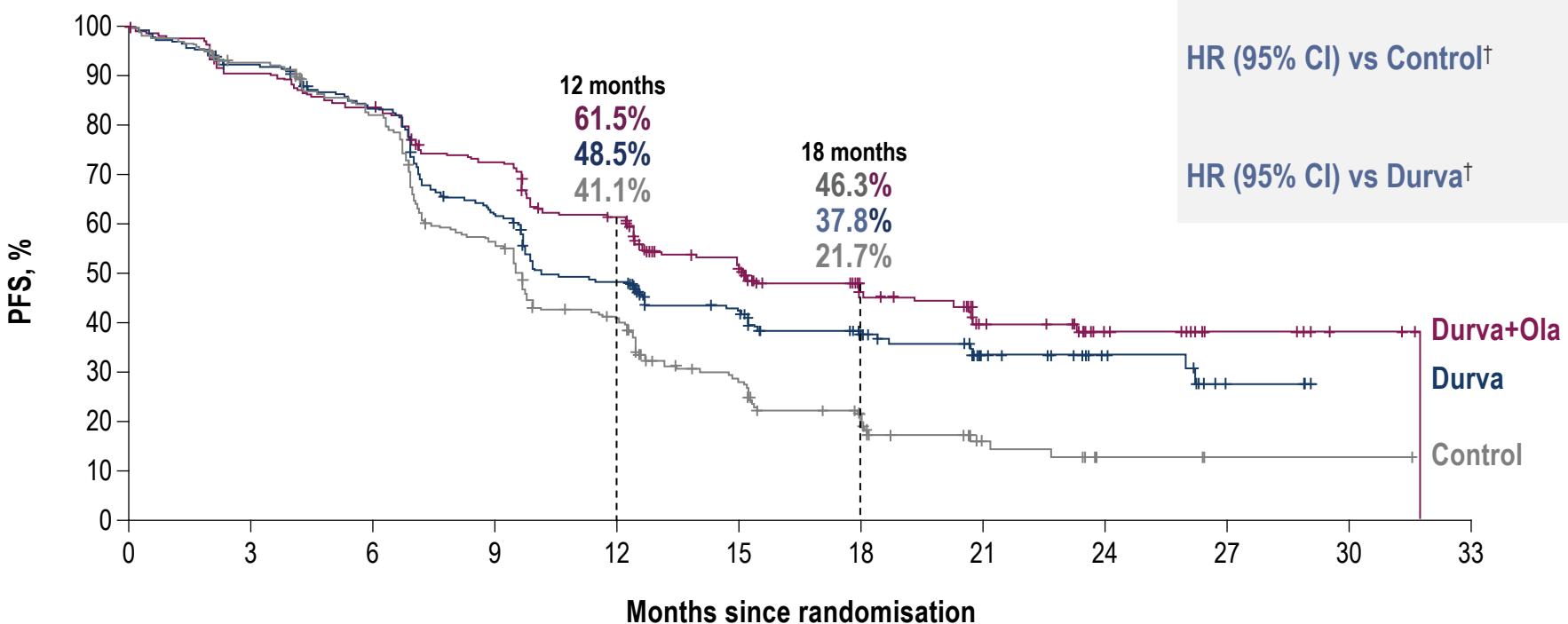
AUC, area under the curve; BW, body weight; dMMR, mismatch repair deficient; IV, intravenously; MMR, mismatch repair; MMRp, mismatch repair proficient; MSI, microsatellite instability; MSI-H, microsatellite instability high; MSS, microsatellite stable; PC, platelet count; PFS, progression-free survival; PO, by mouth; Q3W, every 3 weeks; Q6W, every 6 weeks; QD, once daily.

# DUO-E: Study Schema



# DUO-E: PFS ITT population

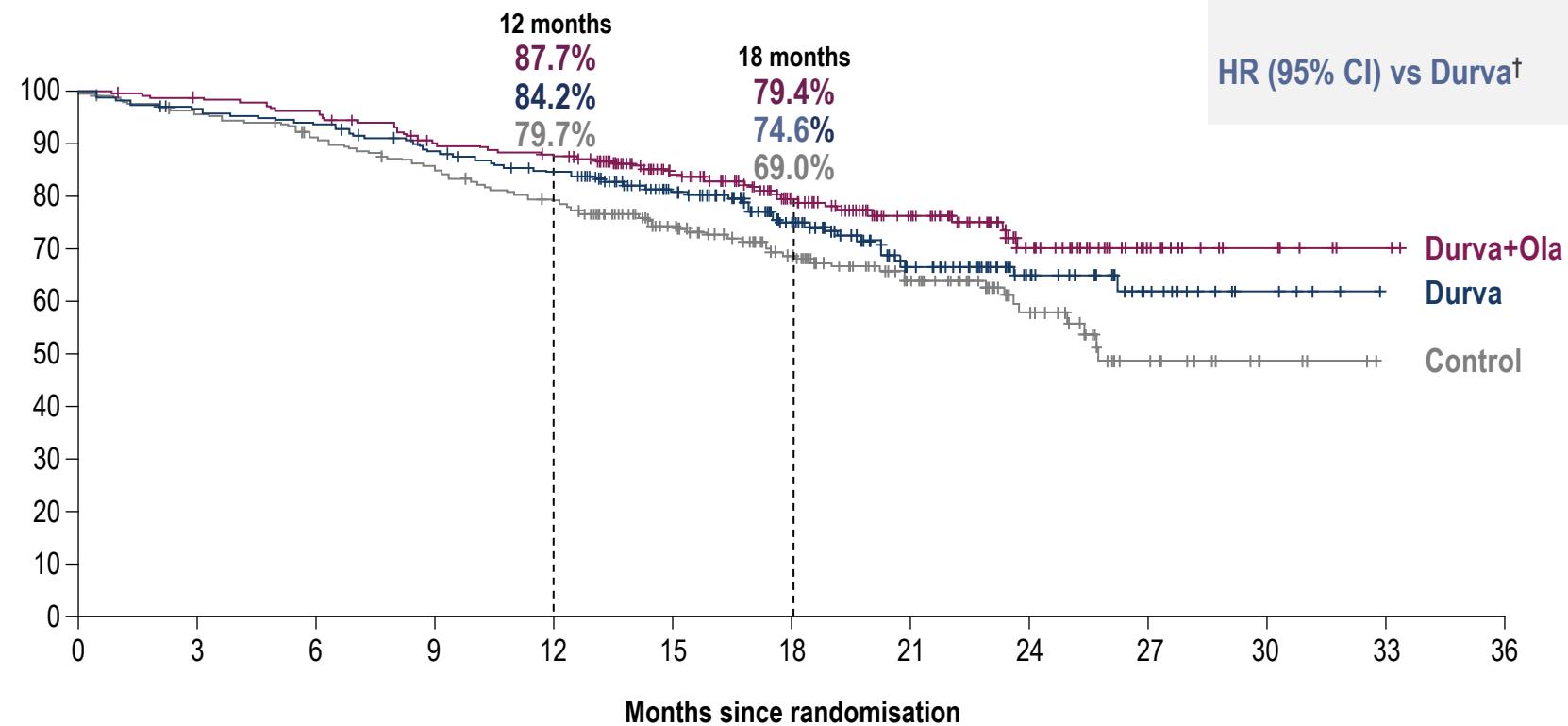
- Primary endpoint



	Control (N=241)	Durva (N=238)	Durva+Ola (N=239)
Events, n (%)	173 (71.8)	139 (58.4)	126 (52.7)
Median PFS (95% CI), * months	9.6 (9.0–9.9)	10.2 (9.7–14.7)	15.1 (12.6–20.7)
HR (95% CI) vs Control†		0.71 (0.57–0.89); $P=0.003$	0.55 (0.43–0.69); $P<0.0001$
HR (95% CI) vs Durva†			0.78 (0.61–0.99)

Overall data maturity 61.0%

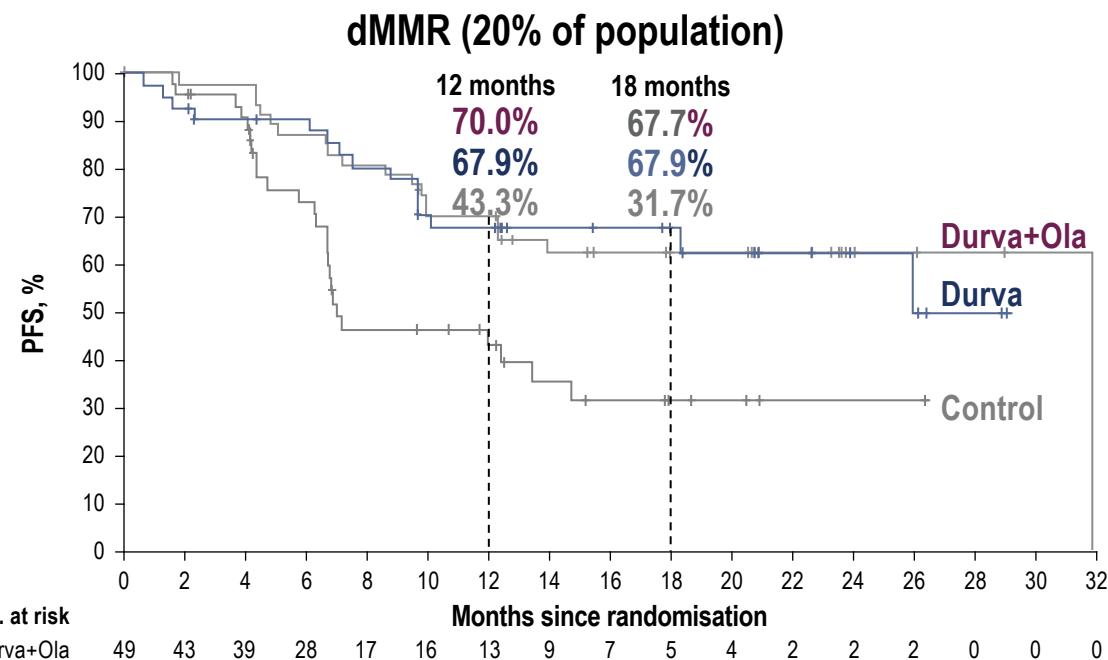
# DUO-E OS: ITT Population



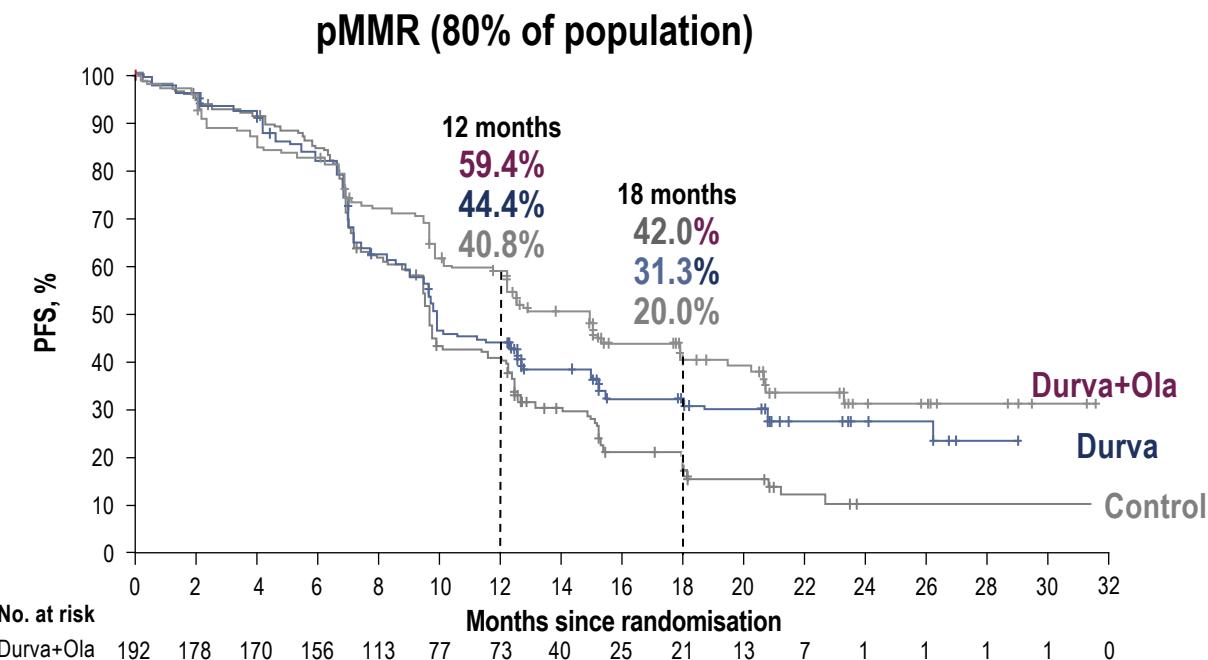
	Control (N=241)	Durva (N=238)	Durva+Ola (N=239)
Events, n (%)	82 (34.0)	65 (27.3)	52 (21.8)
Median OS (95% CI), <sup>*</sup> months	25.9 (23.9–NR)	NR (NR–NR)	NR (NR–NR)
HR (95% CI) vs Control <sup>†</sup>		0.77 (0.56– 1.07); $P=0.120$	0.59 (0.42– 0.83); $P=0.003$
HR (95% CI) vs Durva <sup>†</sup>			0.77 (0.53– 1.10)

Overall data maturity 27.7%

# DUO-E: Subgroup Analysis of PFS by MMR Status



	Control (N=49)	Durva (N=46)	Durva+Ola (N=48)
Events, n (%)	25 (51.0)	15 (32.6)	18 (37.5)
Median PFS (95% CI),* months	7.0 (6.7–14.8)	NR (NR–NR)	31.8 (12.4–NR)
HR (95% CI) vs Control†	0.42 (0.22–0.80)	0.41 (0.21–0.75)	
HR (95% CI) vs Durva†		0.97 (0.49–1.98)	



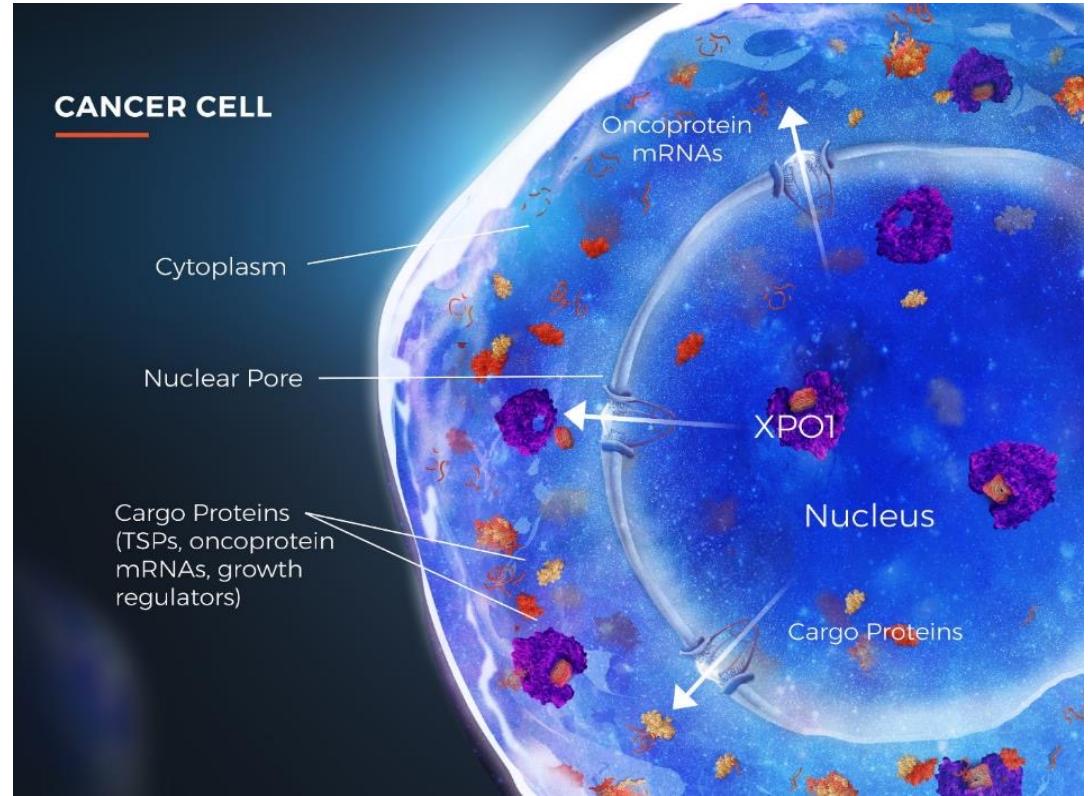
	Control (N=192)	Durva (N=192)	Durva+Ola (N=191)
Events, n (%)	148 (77.1)	124 (64.6)	108 (56.5)
Median PFS (95% CI),* months	9.7 (9.2–10.1)	9.9 (9.4–12.5)	15.0 (12.4–18.0)
HR (95% CI) vs Control†		0.77 (0.60–0.97)	0.57 (0.44–0.73)
HR (95% CI) vs Durva†			0.76 (0.59–0.99)

# Ongoing Trials: Is Chemotherapy Necessary?

	<b>Pembrolizumab KEYNOTE-C93</b>	<b>Dostarlimab DOMENICA</b>	<b>Lenvatinib/Pembrolizumab LEAP-001</b>
<b>Study treatment</b>	<ul style="list-style-type: none"><li>▪ Pembrolizumab 400 mg IV q6w for 18 cycles (2 years)</li><li>▪ Carboplatin AUC 5 or 6 mg/mL/min IV q3w + paclitaxel 175 mg/m<sup>2</sup> IV q3w for 6 cycles (with option for &gt;6 cycles)</li></ul>	<ul style="list-style-type: none"><li>▪ Dostarlimab 500 mg q3w (cycles 1-4) then dostarlimab 1000 mg q6w (for up to 2 years)</li><li>▪ Carboplatin AUC 5-6 + paclitaxel 175 mg/m<sup>2</sup> q3w (for 6 cycles)</li></ul>	<ul style="list-style-type: none"><li>▪ Lenvatinib 20 mg orally qd + pembrolizumab 200 mg IV q3w</li><li>▪ Carboplatin AUC 6 IV q3w + paclitaxel 175 mg/m<sup>2</sup> IV q3w</li></ul>
<b>Key eligibility criteria</b>	<ul style="list-style-type: none"><li>▪ dMMR status</li><li>▪ Stage III/IV or recurrent EC including carcinosarcoma</li><li>▪ Radiographically evaluable disease (measurable or nonmeasurable per RECIST v1.1)</li><li>▪ No prior systemic therapy</li><li>▪ ECOG PS 0-1</li></ul>	<ul style="list-style-type: none"><li>▪ dMMR/MSI-H status</li><li>▪ Stage IIIC2/IV disease or first recurrence</li><li>▪ Prior neo/adjuvant chemotherapy allowed if ≥6 months from last treatment to relapse</li><li>▪ All histologic subtypes of endometrial adenocarcinoma included</li><li>▪ ECOG PS 0-1</li></ul>	<ul style="list-style-type: none"><li>▪ Stage III-IV or recurrent EC</li><li>▪ Prior adjuvant Chemo ≥6 months before study</li><li>▪ ECOG 0-1</li></ul>

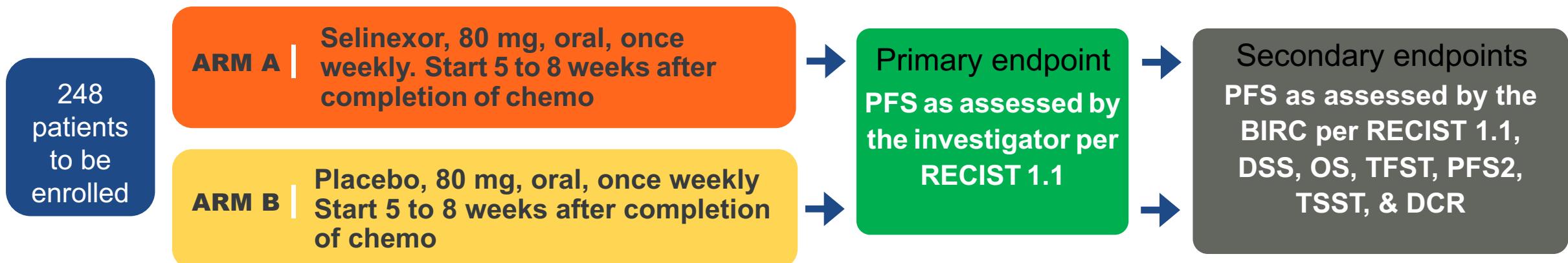
# Maintenance Therapy?

- XPO1 exports major tumor suppressor proteins away from nucleus
  - Overexpressed in cancer cells
- Selinexor
  - Stabilizes p53 in nucleus
  - Results in selective killing of cancer cells



# SIENDO Trial: Selinexor

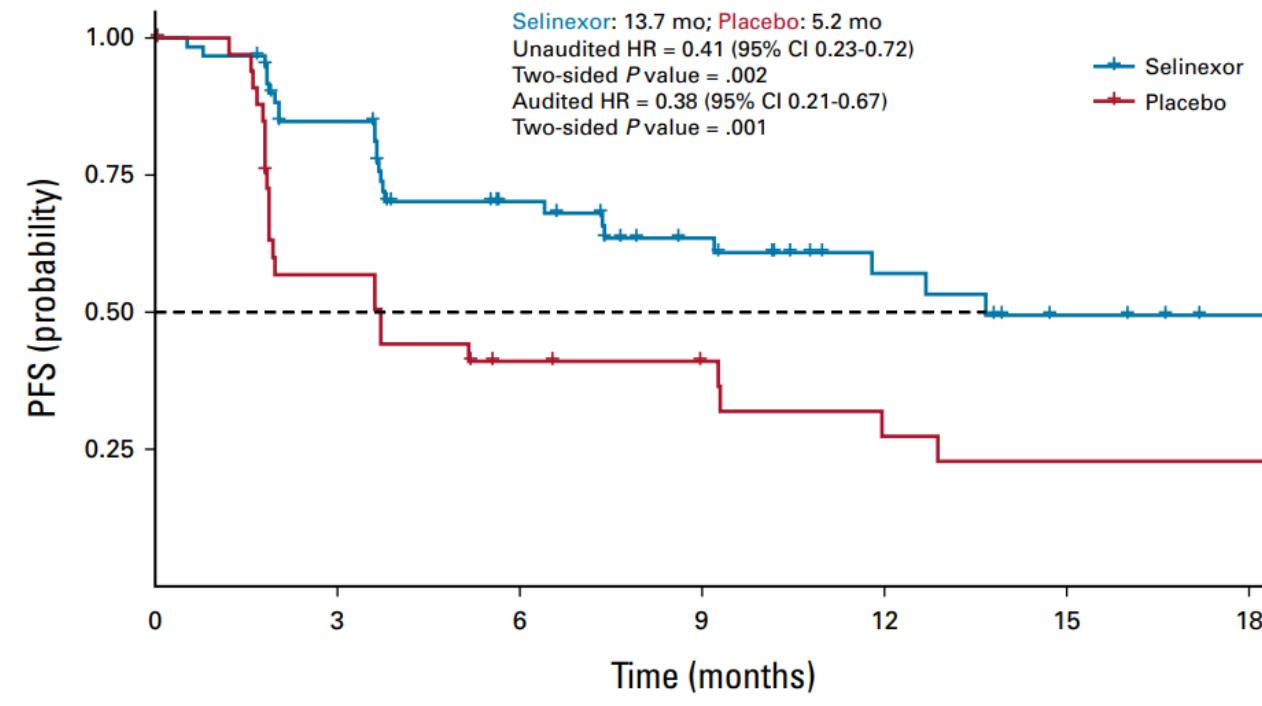
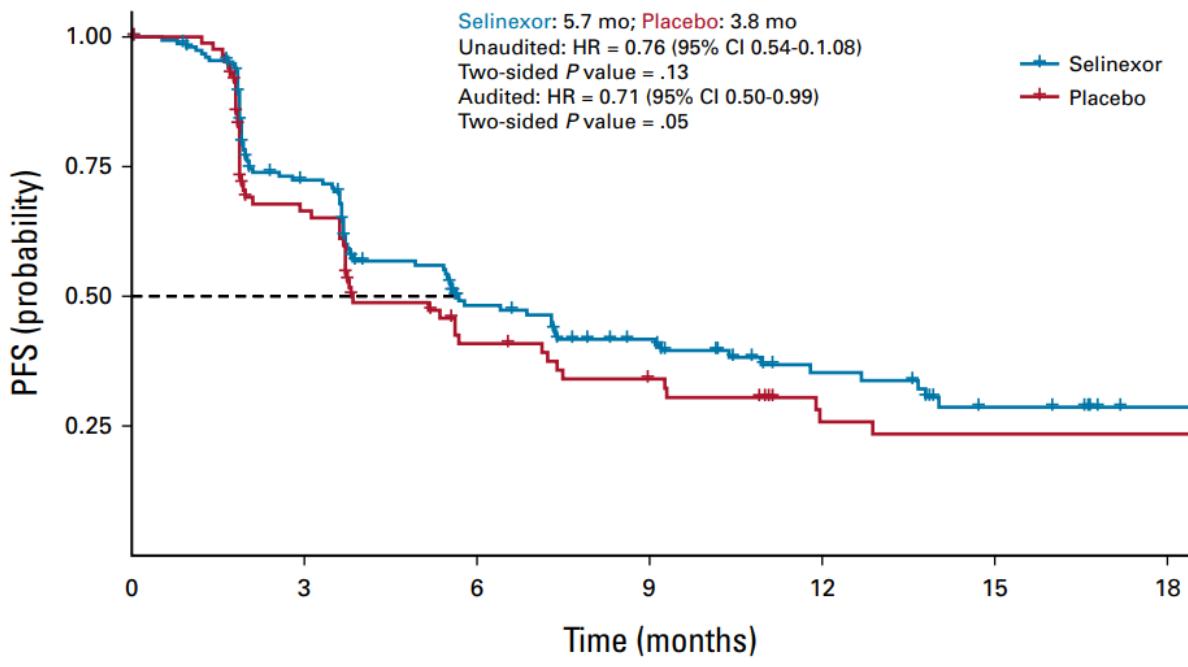
Randomized, Double-blinded, Phase 3 Trial of Maintenance with Selinexor/Placebo After Combination Chemotherapy for Participants with Advanced or Recurrent EC



## KEY INCLUSION CRITERIA:

- Histological confirmed endometrial cancer of the endometrioid, serous, or undifferentiated type. Carcinosarcoma of the uterus is also allowed.
- Completed a single line of at least 12 weeks of taxane-platinum combination therapy (not including adjuvant or neoadjuvant therapy), and achieved partial or complete remission (PR or CR) according to RECIST version 1.1 for:
  - Primary Stage IV disease, OR
  - At first relapse (i.e., relapse after primary therapy including surgery and/or chemotherapy therapy for Stage I-IV disease).
- Must be able to initiate study drug 5 to 8 weeks after completion of their final dose of chemotherapy.

# SIENDO: PFS ITT: Primary Endpoint



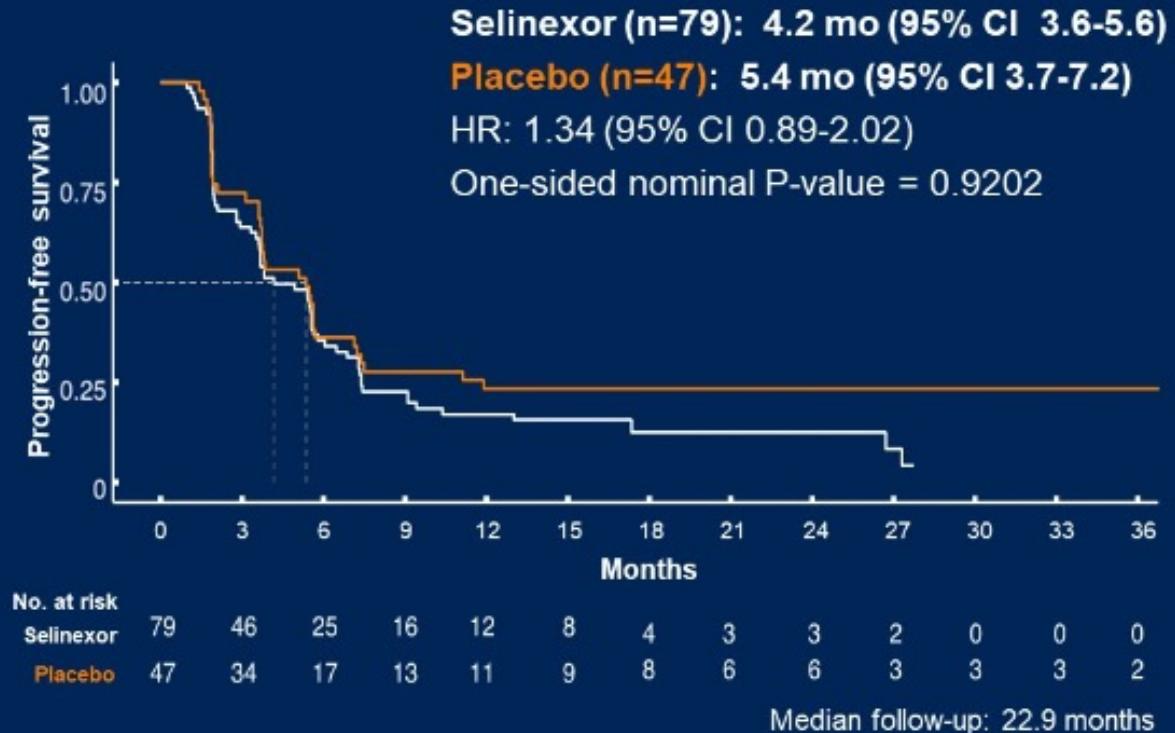
Pre-specified cohort: p53wt

# SIENDO: Long-term PFS, TP53

**TP53wt**



**TP53mut/abn**



Pre-specified subgroups

# ENGOT-EN20/GOG 3083/XPORT-EC-042

13

## ENGOT-EN20/GOG-3083/XPORT-EC-042 (NCT05611931)

### Selinexor in Maintenance Therapy After Systemic Therapy for Participants With p53 Wild-Type, Advanced or Recurrent Endometrial Carcinoma

Study is ongoing and actively enrolling.

**Planned enrollment  
(N = 220)**

Patients ≥ 18 years with

- Known TP53 wt EC by central NGS
- Primary stage IV disease or first recurrent EC
- Received ≥ 12 weeks of platinum-based chemotherapy ± immunotherapy



#### Stratification

- Primary stage IV vs recurrent
- PR vs CR

#### Primary endpoint

- PFS assessed by investigator

#### Key secondary endpoint

- OS

#### Other secondary endpoints

- Safety
- TFST
- TSST
- PFS2
- PFS assessed by BICR
- QoL (EQ-5D-5L)

#### Exploratory endpoints

- PFS per histology subtypes and per other molecular features
- CR rate
- Duration of CR
- Tumor biomarkers
- PK exposure parameters and efficacy/safety endpoints

# Gynecologic Malignancies

# Targeting HER2: Phase 2 DESTINY-PanTumor02

- Key eligibility criteria

Advanced solid tumors

Second line + population

HER2 expression (IHC 3 or 2+)

ASCO/CAP gastric cancer scoring

Prior HER2-targeting therapy allowed

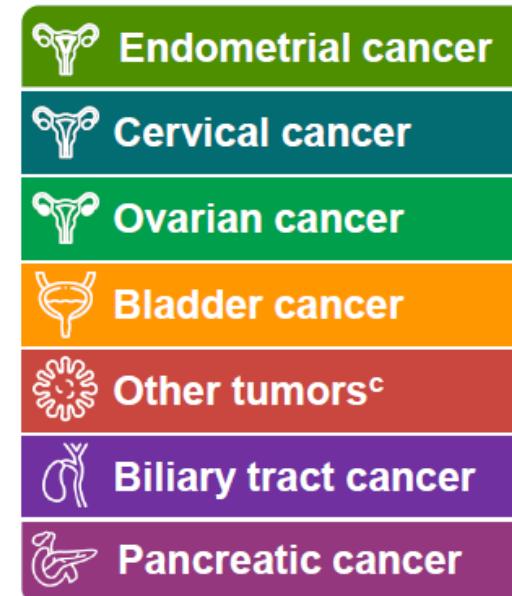
- Baseline characteristics

267 patients (75 patients 3+ based on central testing)

Median age 62 years

109 patients received  $\geq 3$  lines of therapy

T-DXd  
5.4 mg/kg Q3W  
40 per cohort<sup>b</sup>



**Primary endpoint**

- Confirmed ORR (investigator)

**Secondary endpoints**

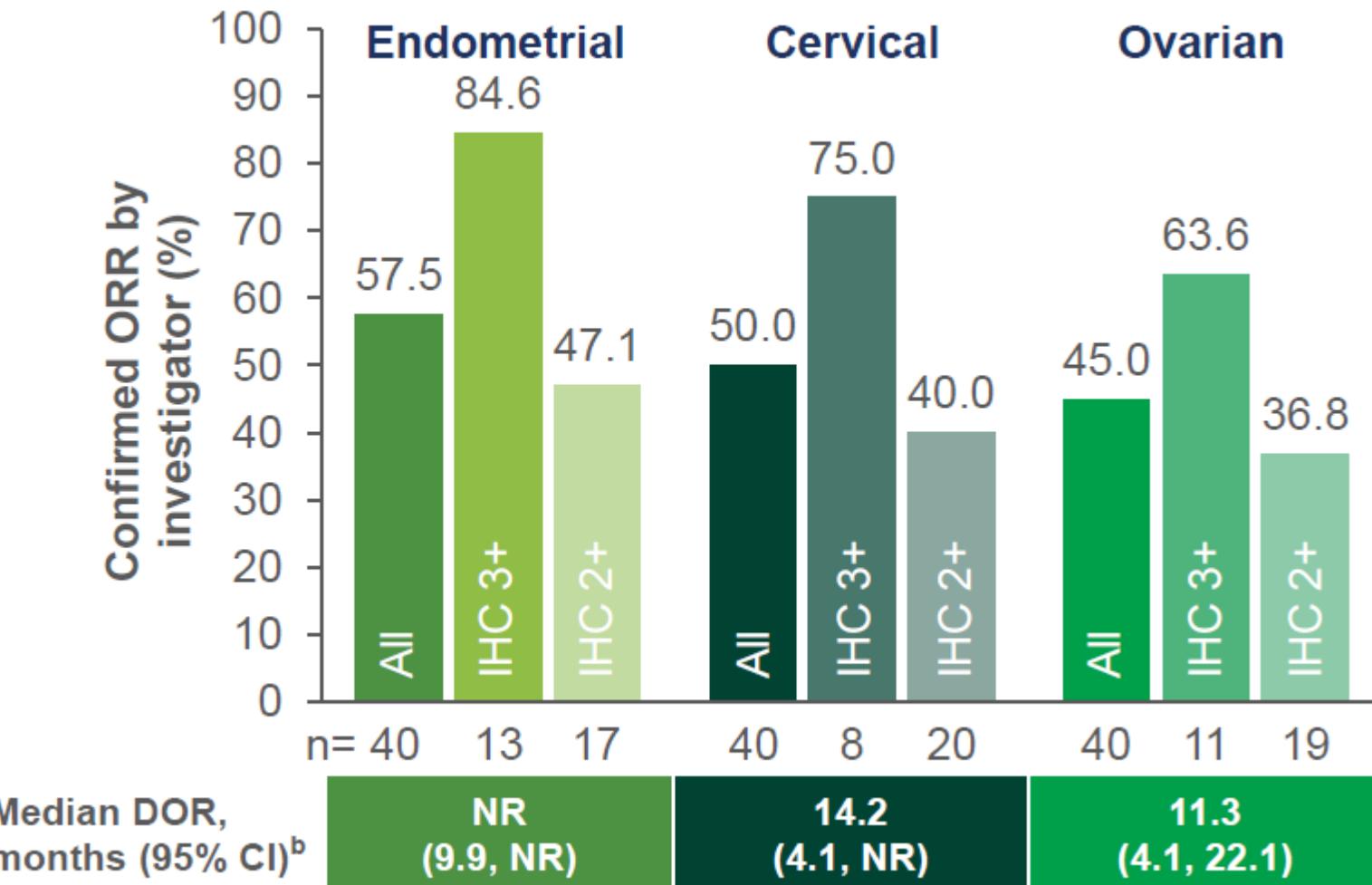
- DOR, DCR, PFS, OS
- Safety

**Exploratory analysis**

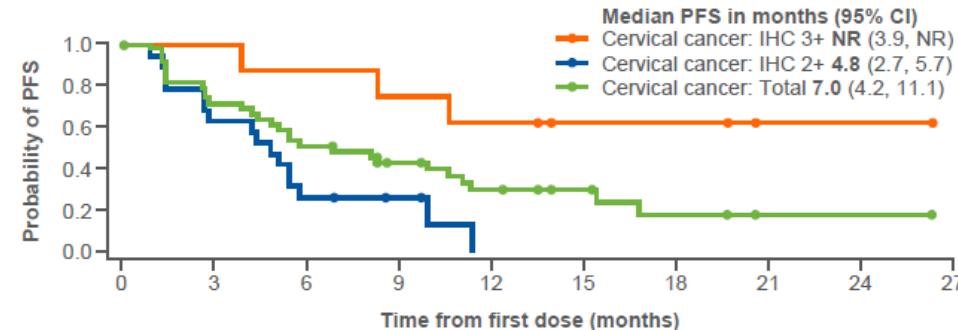
- Subgroup analyses by HER2 status

Primary analysis  
data cutoff: Jun 8, 2023  
Median follow up: 12.75 mo

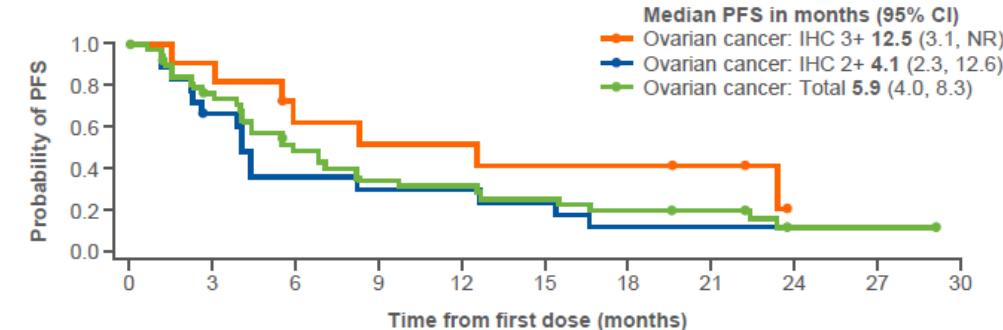
# Objective Response Rate



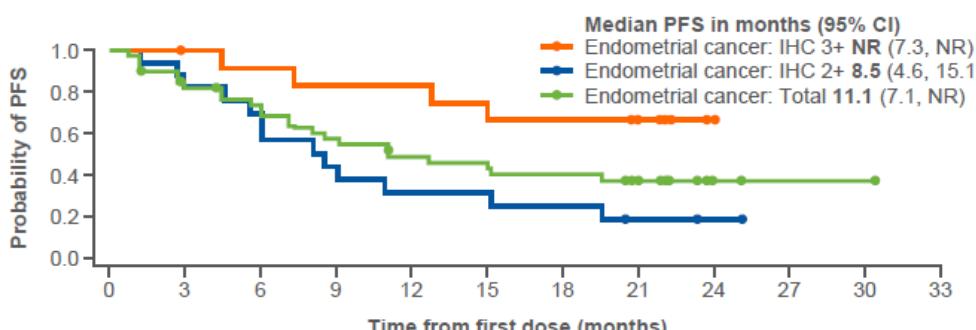
# PFS by HER2 status



Number at risk, month										
Cervical cancer: IHC 3+	8	8	7	6	5	3	3	1	1	0
Cervical cancer: IHC 2+	20	12	5	3	0					
Cervical cancer: Total	40	28	20	14	9	6	3	1	1	0



Number at risk, month											
Ovarian cancer: IHC 3+	11	10	6	5	5	4	4	3	0	1	0
Ovarian cancer: IHC 2+	19	11	6	5	5	4	2	2	1	1	0
Ovarian cancer: Total	40	28	17	12	11	9	7	6	1	1	0



Number at risk, month											
Endometrial cancer: IHC 3+	13	12	11	10	10	9	8	5	0	1	0
Endometrial cancer: IHC 2+	17	14	11	7	5	5	4	2	1	0	
Endometrial cancer: Total	40	31	27	21	17	16	14	8	2	1	0

- Potential tumor agnostic therapy for HER2 expressing tumors
- NCCN listed as an option for HER2 2 and 3+

# Conclusions

- Despite improvements, challenge remain
  - Platinum resistant disease remains a challenge
  - pMMR endometrial cancer
- Checkpoint inhibitors are moving to earlier lines of therapy in cervix and endometrial cancer
  - Creates a new needs gap which are being addressed
- Ongoing studies exploring new targets/approaches are needed

# Thank you

[rsalani@mednet.ucla.edu](mailto:rsalani@mednet.ucla.edu)



“It's always Sit, Stay, Heel - never  
Think, Innovate, Be yourself.”