



# ANNUAL MEETING **ON WOMENS' CANCER**<sup>®</sup>

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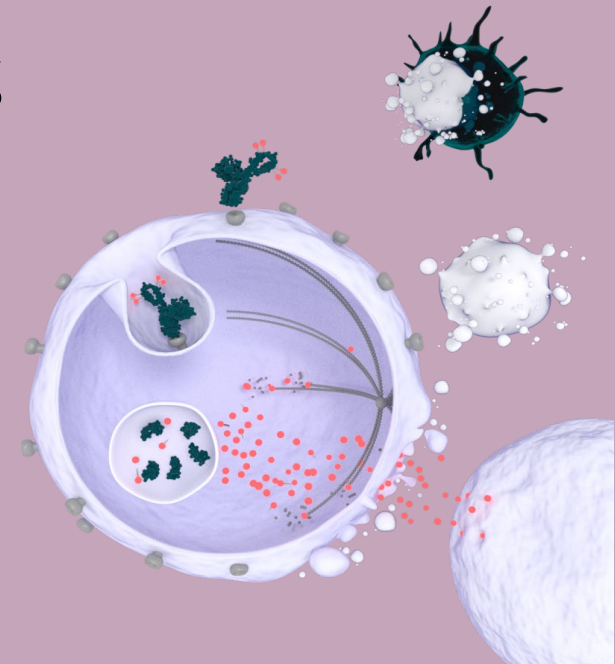
**BUILDING BRIDGES // BREAKING BARRIERS**

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# Mirvetuximab Soravtansine, a folate receptor alpha-targeting antibody drug conjugate, in combination with bevacizumab in patients with platinum-agnostic ovarian cancer: final analysis

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# SORAYA

# Financial Disclosures

- I have the following financial relationships with ACCME defined ineligible companies to report over the past 24 months:
  - List all financial relationships, your role, and current status (ongoing, ended)
- OR
- I have no financial relationships with ACCME defined ineligible companies to report

# Background

- The incorporation of PARPi into the treatment paradigm has resulted in an increasing population of women with recurrent ovarian cancer for whom a non-platinum based regimen would be appropriate
- Mirvetuximab soravtansine (MIRV) is a folate receptor- $\alpha$  (FR $\alpha$ ) targeting ADC that delivers the potent tubulin-targeting maytansinoid DM4 directly to the tumor
- MIRV has encouraging activity in platinum-resistant ovarian cancer (PROC):
  - Monotherapy in high FR $\alpha$  patients: 24% to 47% confirmed objective response rate (ORR)<sup>1,2</sup>
  - With bevacizumab (BEV) in medium and high FR $\alpha$  patients: 39% to 56% confirmed ORR<sup>3</sup>
- The AURELIA trial<sup>4</sup> showed that in patients with platinum-resistant ovarian cancer, the addition of BEV to chemotherapy:
  - Significantly improved progression-free survival (PFS) in comparison to chemotherapy alone (median PFS: 6.7 months vs. 3.4 months); and
  - Demonstrated a higher ORR over chemotherapy alone (27% vs. 12%)
- In this trial, MIRV was combined with BEV as a novel, targeted, non-platinum based regimen designed to address the unmet need in a broader population of recurrent ovarian cancer patients

# Objectives and Patient Population

## Primary objective:

- Assess preliminary response-based anti-tumor activity of MIRV in combination with BEV in recurrent epithelial ovarian, primary peritoneal, or fallopian tube cancer
- **Patient population:**
- Recurrent ovarian cancer with up to three prior regimens (prior BEV allowed)
- Patients for whom a non-platinum-based doublet with BEV would be appropriate
  - Platinum-sensitive ovarian cancer (PSOC): responded to the last platinum therapy and did not progress within 6 months; or
  - PROC: recurrence within 6 months after last platinum dose
- Tumor demonstrated medium or high FR $\alpha$  membrane staining with IHC PS2+ scoring\* (% of cells staining positive and intensity of staining)
  - Medium expressors  $\geq 50\%$  -  $<75\%$ ,  $\geq 2+$  intensity
  - High expressors  $\geq 75\%$ ,  $\geq 2+$  intensity
- **Treatment schedule:**
- MIRV (6 mg/kg, adjusted ideal body weight) + BEV (15 mg/kg) administered intravenously on Day 1 of a 3-week cycle (Q3W)

\*IHC PS2+ scoring: immunohistochemistry percent staining 2+ or 3+

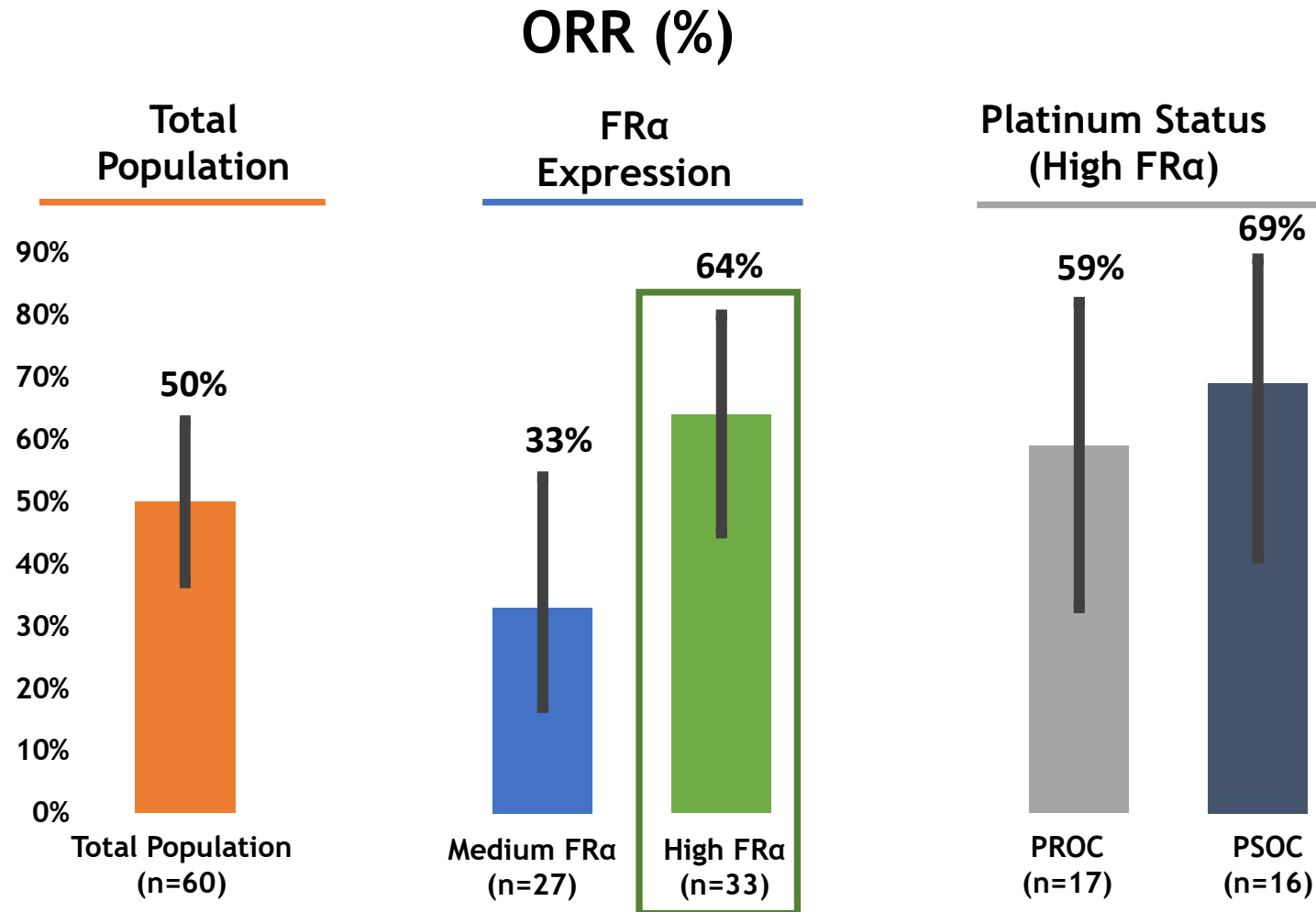
# Patient Demographics

Characteristic		All Patients (N = 60)
Age median (range)		60 (44-83 years)
Primary cancer diagnosis n (%) (Recurrent, High Grade)	Epithelial ovarian cancer	41 (68)
	Fallopian tube cancer	15 (25)
	Primary peritoneal	4 (7)
ECOG PS, n (%)	0	44 (73)
	1	16 (27)
No. of prior systemic therapies, n (%)	1	20 (33)
	2	21 (35)
	≥3*	19 (32)
	Median (range)	2 (1-4)
	High (≥75% PS2+) **	33 (55)
FRα expression n (%)	Medium (≥50% PS2+) **	27 (45)
Prior exposure, n (%)	Platinum compounds	60 (100)
	Taxanes	60 (100)
	Bevacizumab	24 (40)
	PARP inhibitor	21 (35)
Platinum free interval	≤ 6 months	32 (53)
	> 6 - ≤ 12 months	20 (33)
	> 12 months	8 (13)

\*1 patient had 4 priors

\*\*PS2+ Scoring: ≥50 or ≥75% of tumor cells with FRα membrane staining with ≥ 2+ intensity

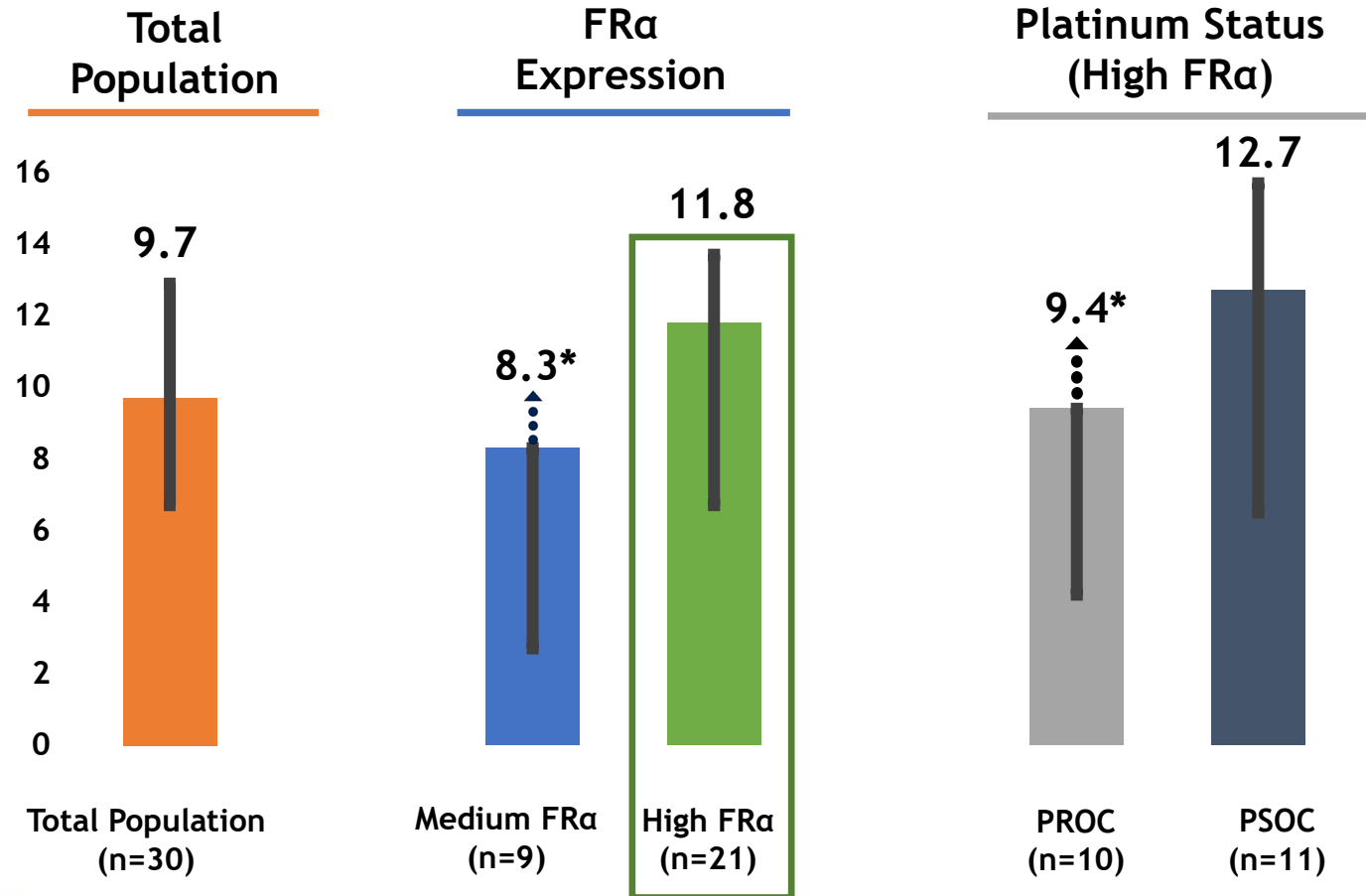
# Confirmed ORR by FR $\alpha$ Expression and Platinum Status



- 50% ORR (30/60) for overall cohort
- 64% ORR (21/33) in high FR $\alpha$  tumors
  - 59% ORR (10/17) in PROC subset
  - 69% ORR (11/16) in PSOC subset

# Median Duration of Response (mDOR) by FR $\alpha$ Expression and Platinum Status

Median DOR (months)



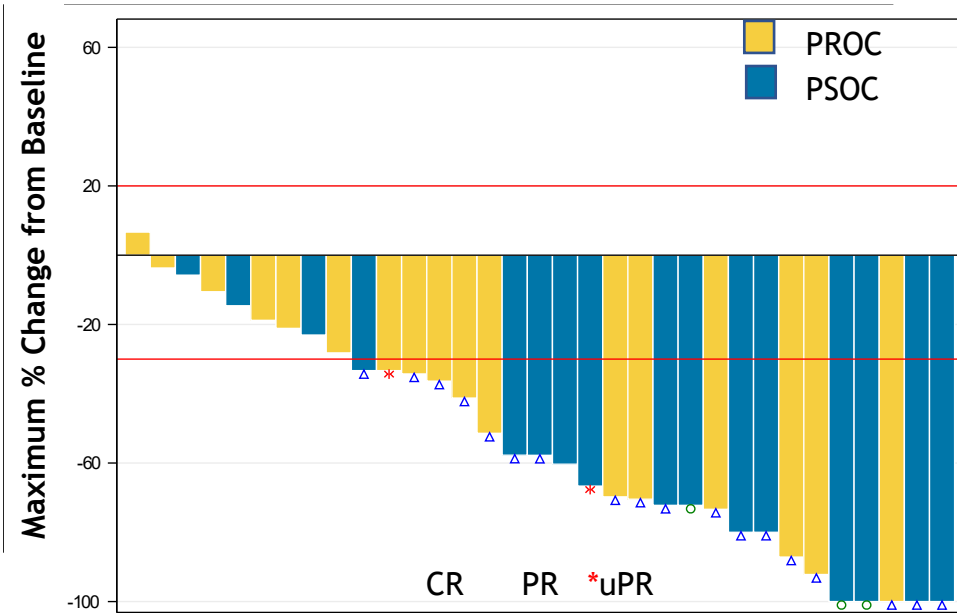
- 9.7 mo mDOR for overall cohort
- 11.8 mo mDOR in high FR $\alpha$  tumors
  - 9.4 mo mDOR in PROC subset
  - 12.7 mo mDOR in PSOC subset

\*Upper limit of 95% confidence interval not reached



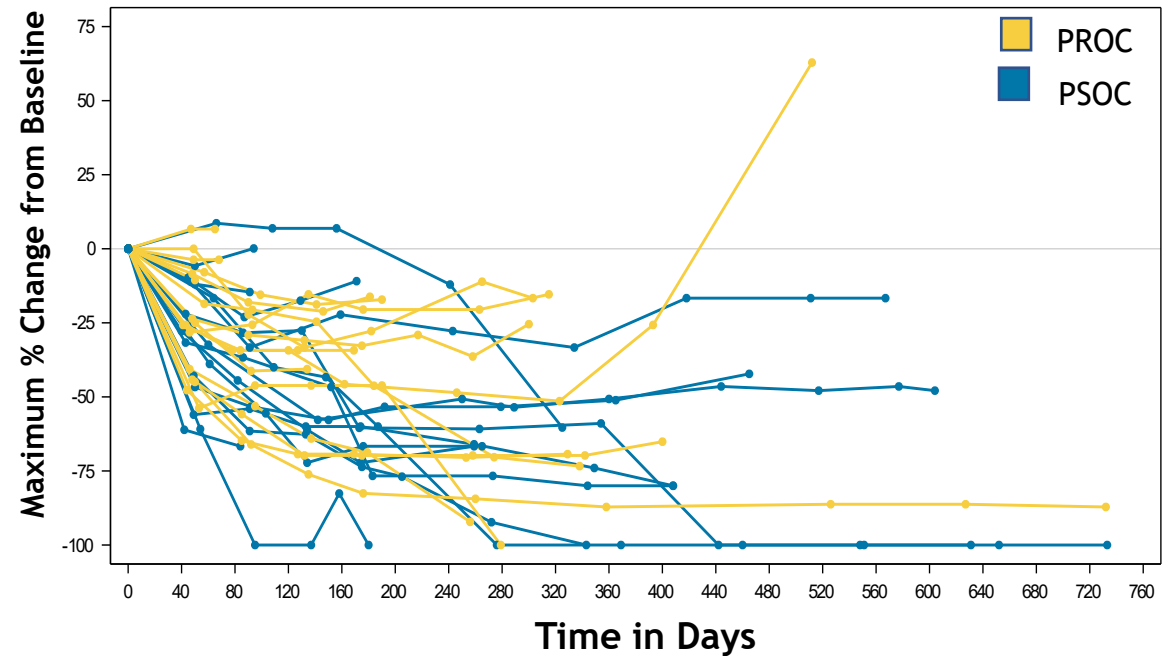
# High FR $\alpha$ Tumors Showed a Deep Response and Durable Benefit

## Maximum % Change from Baseline



- **97% (32/33)** of patients demonstrated tumor burden reduction

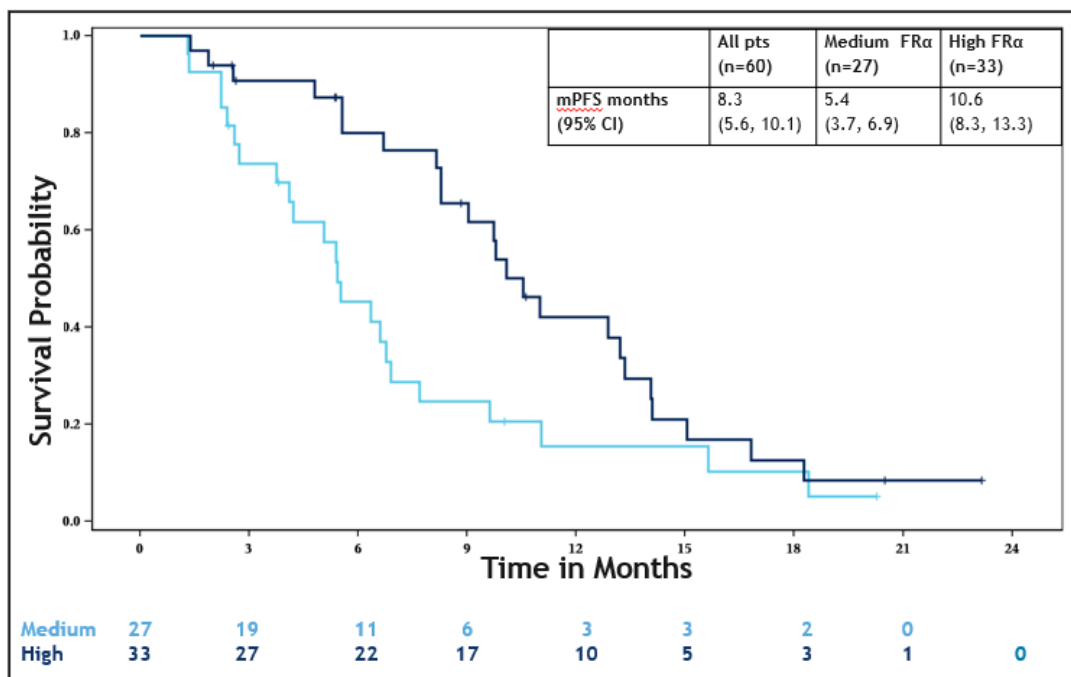
## Percent Change and Duration from Baseline



- Rapid tumor shrinkage, with early responses
- Durable benefit in both PSOC and PROC

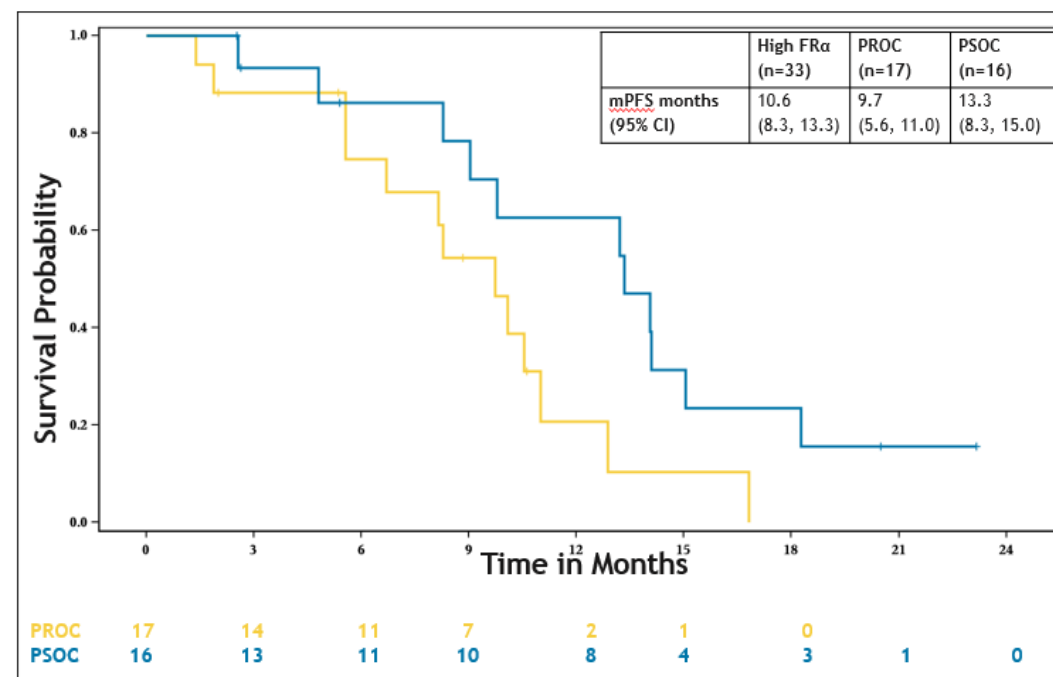
# Longer PFS in High FR $\alpha$ Tumors Regardless of Platinum Status

## Medium and High FR $\alpha$ Tumors



- mPFS 10.6 months in high FR $\alpha$  tumors
- mPFS 5.4 months in medium FR $\alpha$  tumors
- High FR $\alpha$  6-month and 12-month PFS rate of 80% and 42%, respectively

## High FR $\alpha$ Tumors (PROC and PSOC)



- mPFS 9.7 months in high FR $\alpha$  PROC tumors
- mPFS 13.3 months in high FR $\alpha$  PSOC tumors

# Treatment-Related Emergent Adverse Events >20%

Adverse Event	N (%)	N (%)
Diarrhea <sup>^</sup>	37 (62)	1 (2)
Blurred vision	36 (60)	0 (0)
Fatigue <sup>^</sup>	36 (60)	2 (3)
Nausea	34 (57)	0 (0)
Keratopathy <sup>†</sup>	26 (43)	0 (0)
Peripheral neuropathy <sup>*</sup>	24 (40)	1 (2)
Dry eye	20 (33)	3 (5)
Decreased appetite	20 (33)	0 (0)
Hypertension <sup>^</sup>	19 (32)	10 (17)
Headache	17 (28)	0 (0)
AST increased	17 (28)	2 (3)
Vomiting	17 (28)	0 (0)
Abdominal pain	16 (27)	0 (0)
Visual acuity reduced	14 (23)	0 (0)
Thrombocytopenia	14 (23)	2 (3)
Neutropenia	13 (22)	8 (13)
ALT increased	13 (22)	3 (5)
Dysphonia <sup>^</sup>	13 (22)	0 (0)
Asthenia	13 (22)	0 (0)
Weight decrease <sup>^</sup>	13 (22)	1 (2)

- Most AEs were low grade
  - GI and Ocular were most frequent
  - Ocular AE class effect of ADC manageable with eye drops
- Grade 3+ events were infrequent
  - 17% hypertension
  - 13% neutropenia
- Eighteen patients (30%) discontinued BEV and/or MIRV due to treatment-related AEs
  - Discontinuations occurred after a median of 13 cycles of treatment
  - Discontinuations by agent
    - MIRV: 23%
    - BEV: 18%

**AE rates are similar for MIRV/BEV compared with MIRV alone (n=243 from FORWARD I), when adjusted for exposure**  
**<sup>^</sup>Exceptions (p <0.05, not adjusted for multiplicity testing) include Diarrhea, Fatigue, Hypertension, Dysphonia, and Weight Decrease**

AST, aspartate aminotransferase; ALT, alanine aminotransferase;

\*Includes neuropathy peripheral, peripheral sensory neuropathy, paresthesia, and hypoesthesia

<sup>†</sup> Includes keratopathy, keratitis, corneal deposits, and corneal epithelial microcysts

# Conclusions

- MIRV was combined with BEV in a broad population of recurrent ovarian cancer patients in need of more effective non-platinum based treatments
- With a 64% ORR, 11.8 months mDOR, and 10.6 months mPFS, the combination of MIRV with BEV has promising activity in high FR $\alpha$  recurrent ovarian cancer with up to 3 priors, irrespective of platinum status, and is compelling in light of available therapies reported in less heavily pre-treated populations<sup>4,5,6</sup>
  - In high FR $\alpha$  PSOC patients, which represents a growing patient population, the combination of MIRV with BEV achieved a 69% ORR, 12.7 months mDOR and a 13.3 months mPFS
  - In high FR $\alpha$  PROC patients the combination of MIRV with BEV achieved a 59% ORR, 9.4 months mDOR and a 9.7 months mPFS
- Adverse events were manageable and consistent with the side effect profiles of each agent
- The strength of these mature data in a broader population of recurrent ovarian cancer, warrants further development of this novel, targeted combination and supports MIRV as the combination partner of choice for BEV

<sup>4</sup>Pujade-Lauraine *J Clin Oncol* 2014; <sup>5</sup>Aghajanian *J Clin Oncol* 2012; <sup>6</sup>Coleman *Lancet Oncol* 2017

# GLORIOSA

RANDOMIZED PHASE 3 TRIAL  
FOR MIRVETUXIMAB +  
BEVACIZUMAB MAINTENANCE  
IN FR $\alpha$ -HIGH PLATINUM-  
SENSITIVE OVARIAN CANCER

**INITIATING IN Q2 2022**

**PRIMARY ENDPOINT**  
PFS

**SECONDARY ENDPOINTS**  
OS, DOR

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

**We are indebted to the women and their families who chose to participate on the mirvetuximab plus bevacizumab clinical trial.**

**Thank you to all the clinical investigators.**

# Unlabeled/Investigational Uses

- I will/will not be discussing any unlabeled or investigational uses of any pharmaceutical products or medical devices.
  - If yes, describe the nature of what will be discussed.