



PHASE 1 DOSE-ESCALATION STUDY OF STRO-002, AN ANTI-FOLATE-RECEPTOR ALPHA ANTIBODY DRUG CONJUGATE, IN PATIENTS WITH ADVANCED, PROGRESSIVE, PLATINUM-RESISTANT/-REFRACTORY EPITHELIAL OVARIAN CANCER

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Disclosures

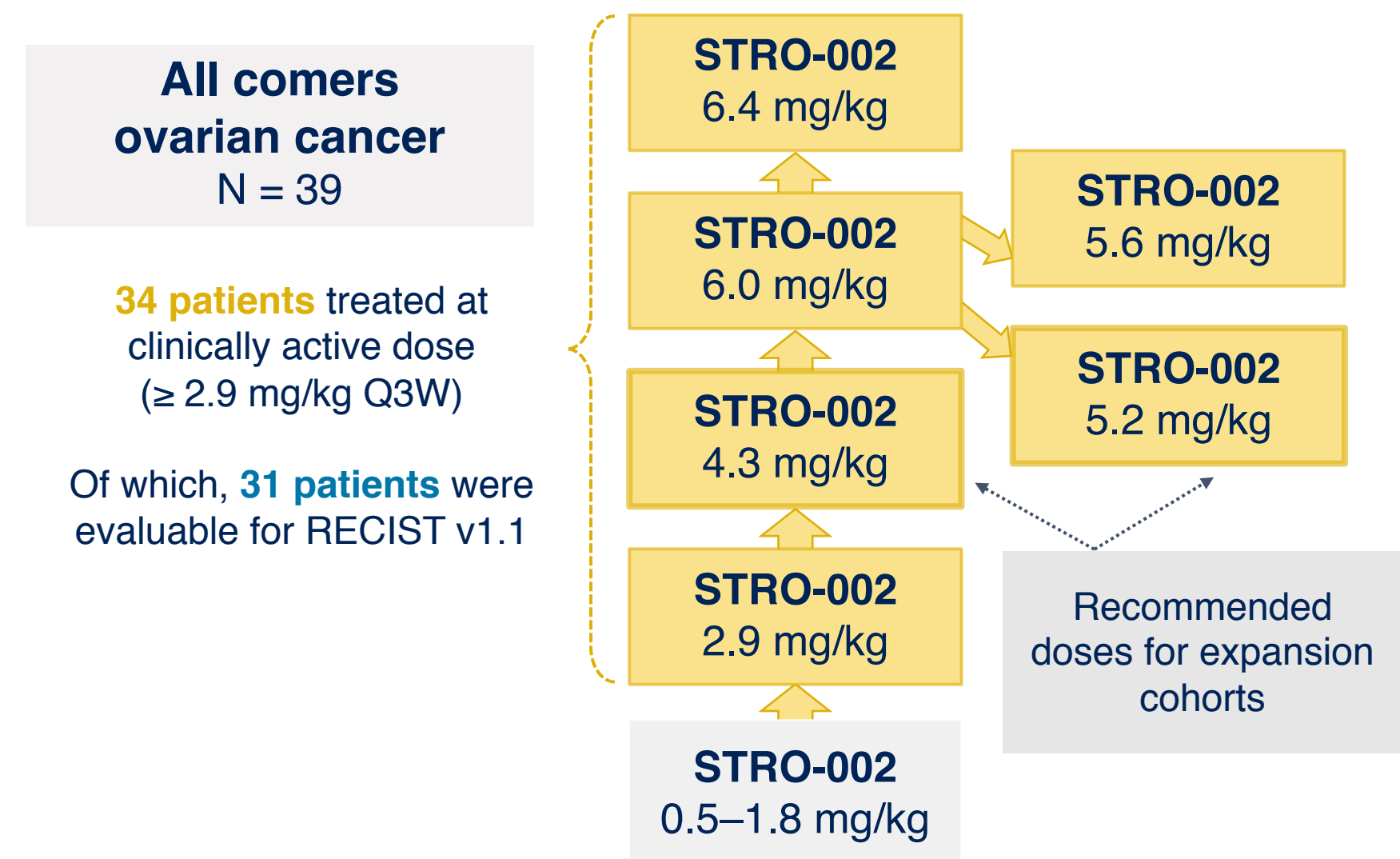
Dr. Naumann has received

- **Consulting fees:** Genentech, AstraZeneca, Clovis, Sutro, Merck, OncoMed, Janssen, and Tesaro
- **Research funding:** Bristol Myers Squibb, OncoMed, and Merck
- **Speaker fees:** Genentech

Introduction

- FR α is a cell surface glycoprotein overexpressed in ovarian cancer and endometrial adenocarcinoma^{1,2}
- STRO-002 is a novel FR α -targeting ADC with a precise drug-antibody ratio of 4 using site-specific conjugation technology circumventing limitations of current ADCs^{3,4}
- Potential dual MOA: 1) potent cytotoxin tubulin-targeting hemiasterlin payload (SC209) which is weak substrate for P-glycoprotein and 2) immunogenic response upon cell death
- STRO-002-GM1 (NCT03748186) is an ongoing phase 1, open-label study in patients with advanced platinum-resistant or -refractory epithelial ovarian cancer (EOC)

Part 1: Dose-escalation cohort in ovarian cancer



Key endpoints: Safety (DLTs and TEAEs), ORR, PK profile, DOR, PFS, OS, biomarkers

1. Kalli KR et al. *Gynecol Oncol.* 2008;108:619-626. 2. O'Shannessy DJ et al. *Int J Gynecol Pathol.* 2013;32:258-268. 3. Li X et al. *Cancer Res.* 2018;78(13 suppl):abstract 1782. 4. Zimmerman ES et al. *Bioconjug Chem.* 2014;255:351-361. ADC, antibody drug conjugate; DLT, dose-limiting toxicity; DOR, duration of response; FR α , folate-receptor alpha; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PK, pharmacokinetic; RECIST, Response Evaluation Criteria in Solid Tumors; Q3W, every 3 weeks; TEAE, treatment-emergent adverse event.

Results (1)

Baseline characteristics

Baseline characteristic	All patients (N = 39)
Age, median (range), years	61 (48–79)
Time since diagnosis, median (range), years	3.9 (0.7–17.0)
No. of prior lines of therapy, median (range)	6 (1–11)
Previous therapies, n (%)	
Platinum	39 (100)
≥ 3 prior platinum regimens	18 (46)
Taxanes	38 (97)
Bevacizumab	32 (82)
Poly (ADP-ribose) polymerase inhibitors	23 (59)
Checkpoint inhibitors	8 (21)
Experimental therapy	14 (36)

- The novel FR α -targeting ADC STRO-002 exhibited a generally well-tolerated safety profile in heavily pretreated patients with progressive EOC

Most frequent TEAEs > 25% by grade^a

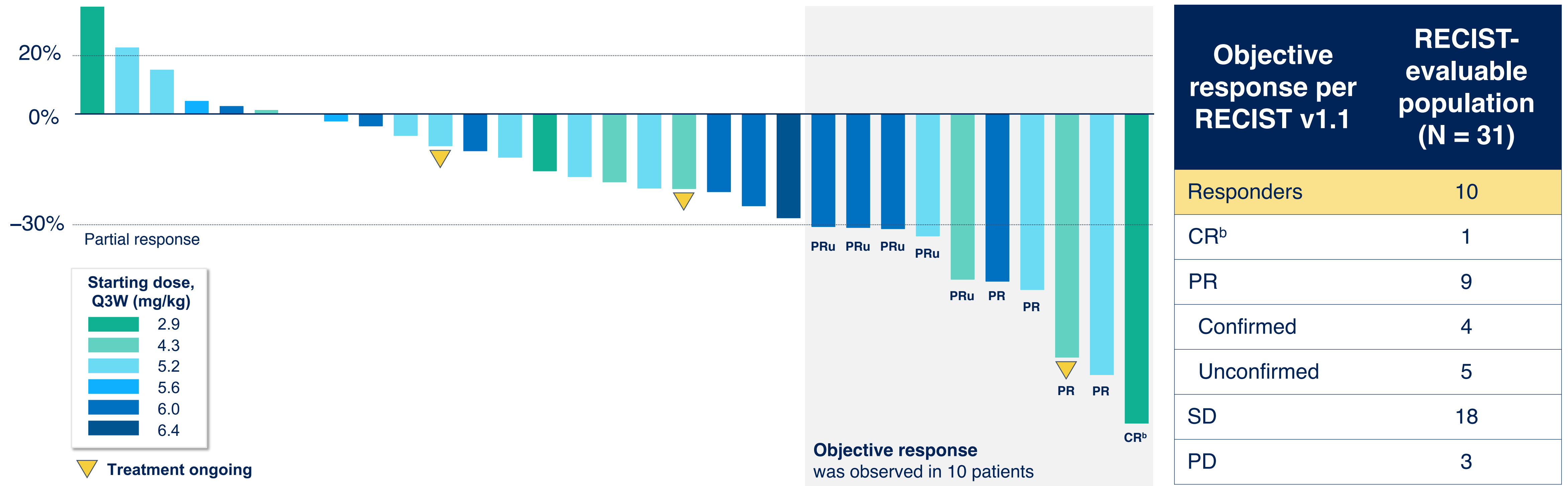
All safety-evaluable patients, n (%)	Grade 1	Grade 2	Grade 3	Grade 4	Overall (N = 39)
Fatigue	7 (18)	19 (49)	4 (10)	0	30 (77)
Nausea	15 (39)	11 (28)	0	0	26 (67)
Constipation	12 (31)	13 (33)	0	0	25 (64)
Neutropenia ^b	0	0	8 (21)	17 (44)	25 (64)
Decreased appetite	10 (26)	10 (26)	0	0	20 (51)
Arthralgia	7 (18)	7 (18)	5 (13)	0	19 (49)
Neuropathy ^c	3 (8)	13 (33)	3 (8)	0	19 (49)
Abdominal pain	7 (18)	6 (15)	3 (8)	0	16 (41)
Vomiting	8 (21)	7 (18)	0	0	15 (39)
AST increased	10 (26)	3 (8)	2 (5)	0	15 (39)
Diarrhea	8 (21)	3 (8)	1 (3)	0	12 (31)
Dizziness	9 (23)	3 (8)	0	0	12 (31)
Dry eye	4 (10)	8 (21)	0	0	12 (31)
Anemia	3 (8)	6 (15)	2 (5)	0	11 (28)
Pyrexia	8 (21)	3 (8)	0	0	11 (28)
Headache	7 (18)	3 (8)	0	0	10 (26)
Insomnia	6 (15)	4 (10)	0	0	10 (26)

^aTwo grade 5 events were reported as unrelated to study drug by investigator assessment, 1 death not otherwise specified and 1 acute gastrointestinal bleed. ^bNeutropenia included the following preferred terms: neutropenia, febrile neutropenia, and neutrophil count decreased. ^cNeuropathy included the following preferred terms: neuropathy peripheral and peripheral sensory neuropathy. ADP, adenosine diphosphate; AST, aspartate aminotransferase.

Results (2)

- STRO-002 exhibited clinical efficacy as demonstrated by objective responses: 1 CR, 4 PR, and 5 PRu

Maximum change^a in tumor target lesions in RECIST-evaluable patients treated with STRO-002 $\geq$ 2.9 mg/kg Q3W (N = 31)

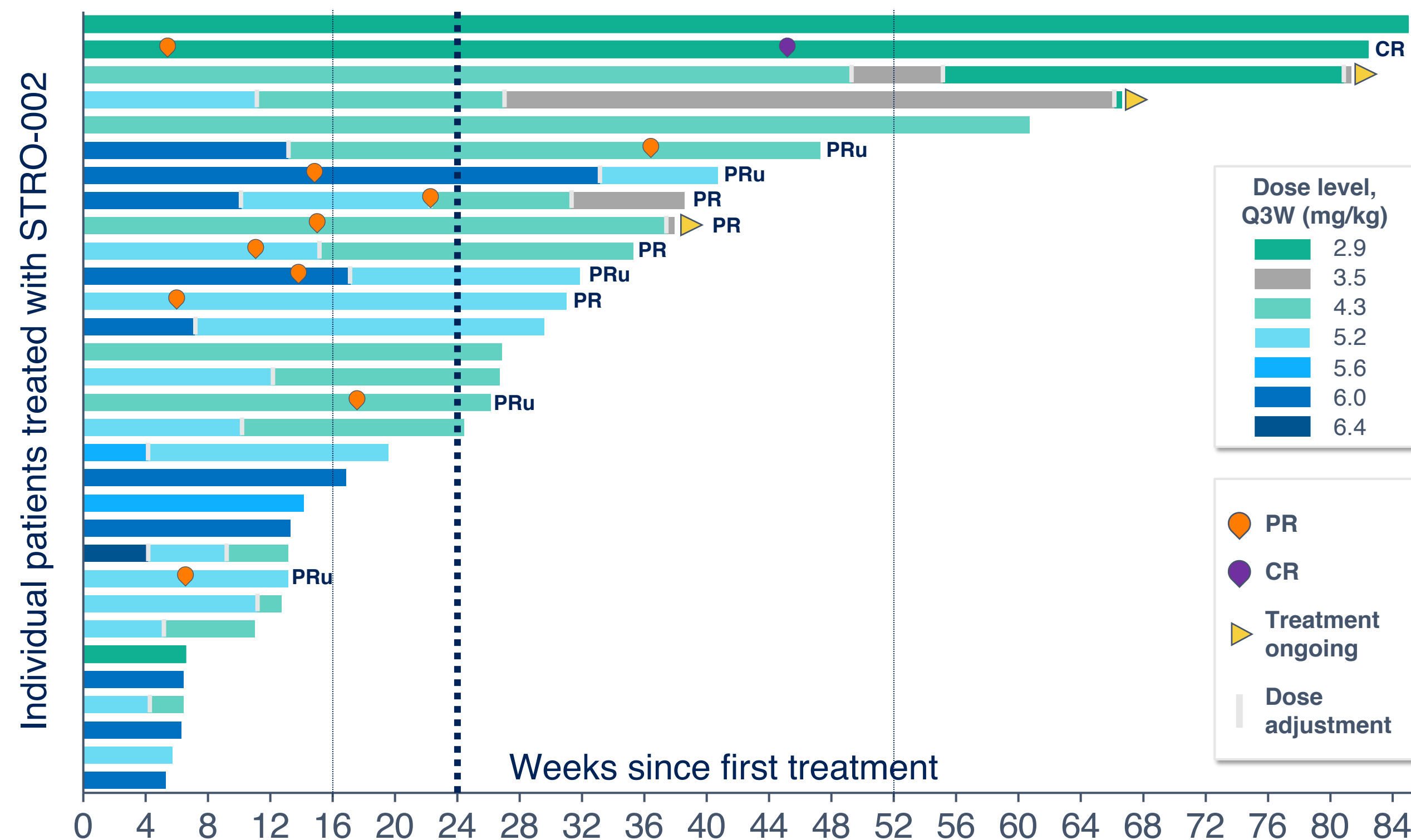


^aMaximum percentage change from baseline in sum of longest diameter in evaluable patients treated with STRO-002 at $\geq$ 2.9 mg/kg Q3W (N = 31). ^bCR in patient treated at 2.9 mg/kg with resolution of peritoneal disease. CR, complete response; PD, progressive disease; PR, partial response; PRu, unconfirmed partial response; SD, stable disease. Data cutoff was April 23, 2021.

Results (3)

- Disease control rate was 61% and 55% at ≥ 16 and 24 weeks, respectively
- Median PFS was 7.2 months (95% CI, 4.5–10.8)

Treatment duration^a and response in RECIST-evaluable patients treated with STRO-002 ≥ 2.9 mg/kg Q3W (N = 31)



Disease control rate (DCR, weeks)

RECIST-evaluable population, n (%)

≥ 52 weeks

5 (16)

≥ 24 weeks

17 (55)

≥ 16 weeks

19 (61)

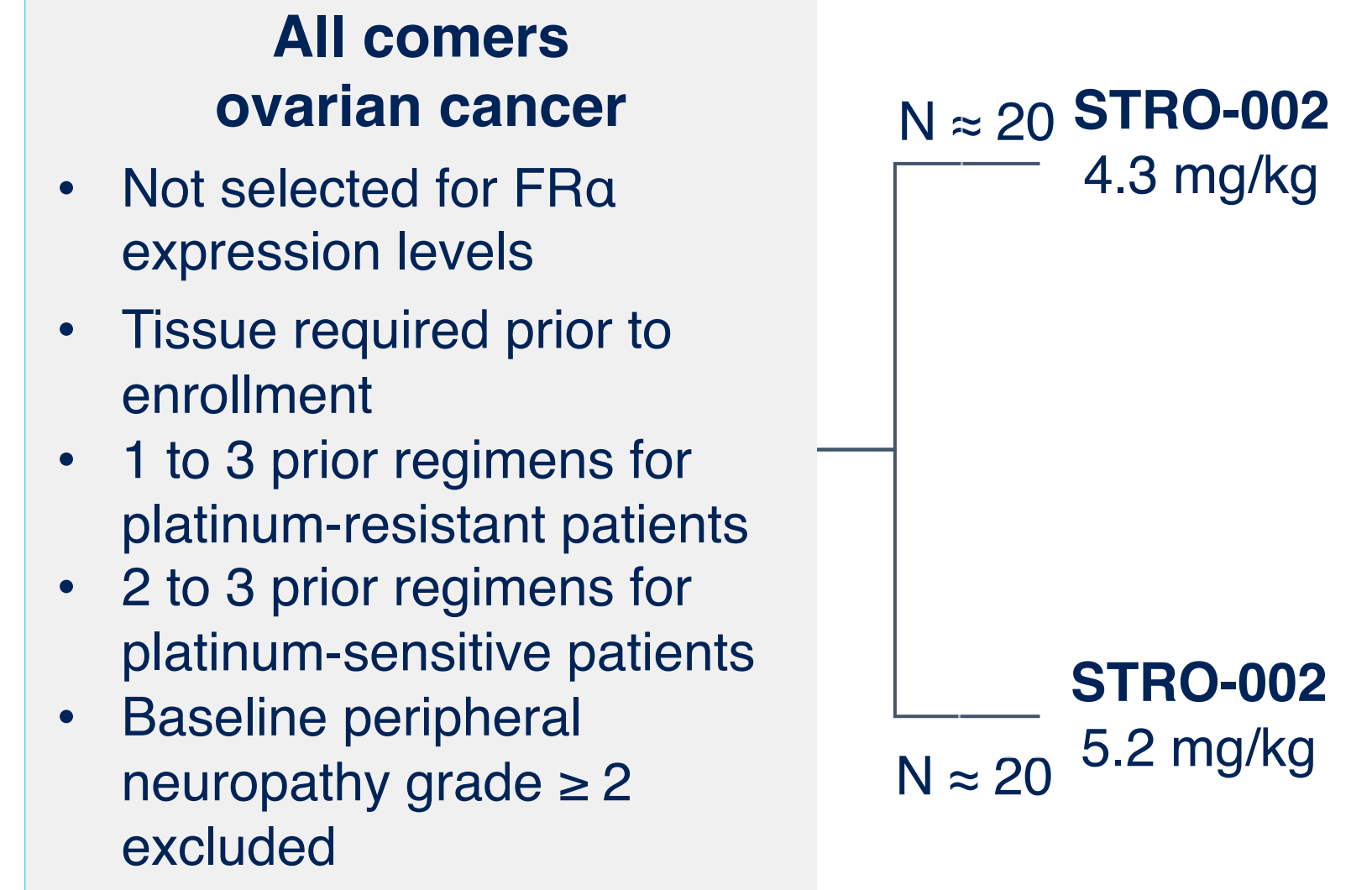
Most patients on treatment **beyond 12 weeks** were treated at the **2.9 to 5.2 mg/kg dose levels**

^aDuration calculated as date of PD or time from first dose to last dose given (including 4 patients deriving clinical benefit post progression per investigator assessment). Data cutoff was April 23, 2021.

Conclusions

- STRO-002 is a novel FR α -targeting ADC that showed preliminary clinical efficacy in patients with heavily pretreated relapsed/refractory EOC demonstrated by objective responses: 1 CR, 4 PRs, and 5 PRus
- STRO-002 treatment was well tolerated, including in 3 patients with long-term responses (≥ 74 weeks); the majority of TEAEs (86%) were grade 1 or 2
- Disease control rate was 61% and 55% at ≥ 16 and 24 weeks, respectively, and median PFS was 7.2 months (95% CI, 4.5–10.8)
- Dose reductions were not associated with loss of antitumor activity
- Antitumor activity was observed across a broad range of FR α expression levels based on PS2+ scoring and H-score (*see full poster*)
- STRO-002-GM1 Part 2 dose-expansion cohort is currently enrolling less heavily pretreated patients with ovarian cancer

Part 2: Dose-expansion cohort in ovarian cancer



Key endpoints: Safety (DLTs and TEAEs), ORR, PK profile, DOR, PFS, OS, biomarkers