



FolRa – Targeting ADC Phase 1

Potential Best-in-Class ADC for Ovarian and Endometrial Cancers





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STRO-002 Structure and Design Optimized molecule provides potential for best-in-class

- STRO-002 is a novel homogeneous antibody drug conjugate using precisely positioned non-natural amino acids
- STRO-002 has a drug-antibody ratio of 4:1, with a proprietary cleavable hemiasterlin linker-warhead that is stable in circulation
- Internalization of the ADC releases hemiasterlin in the tumor cell, resulting in immunogenic cell death of cancer cells





Structure of hemiasterlin linker-warhead following conjugation





Phase 1 Dose-Escalation Data Presented by Dr. Wendel Naumann





International Gynecologic Cancer Society Annual Meeting (Sept 10–13, 2020)

Phase 1 Dose-Escalation Study of STRO-002, an anti-Folate Receptor alpha (FRa) Antibody Drug Conjugate (ADC), in Patients with Advanced Platinum-Resistant / Refractory Epithelial Ovarian Cancer (OC)

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Phase 1 Clinical Trial Design

Fast Track FDA Registration Pathway Possible Based on Recent Precedents



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Heavily Pretreated Ovarian Cancer Patients: Demographics/Dose Levels Data as of August 31, 2020

Characteristic	Total N = 39 (%)		
Age, median (range), years	61 (48-79)		
Tumor type			
EOC	30 (77)		
Fallopian tube	7 (18)		
Primary peritoneal	2 (5)		
ECOG PS			
0	23 (59)		
1	16 (41)		
Median time from diagnosis (range)	3.9 years (0.6–17.1)		
Median time from diagnosis (range) Median lines of prior therapy (range)	3.9 years (0.6–17.1) 5 (2–10)		
Median lines of prior therapy (range)	5 (2–10)		
Median lines of prior therapy (range) Platinum	5 (2–10) 39 (100)		
Median lines of prior therapy (range) Platinum ≥ 3 prior platinum regimens	5 (2–10) 39 (100) 14 (36)		
Median lines of prior therapy (range)Platinum≥ 3 prior platinum regimensTaxanes	5 (2–10) 39 (100) 14 (36) 38 (97)		
Median lines of prior therapy (range)Platinum≥ 3 prior platinum regimensTaxanesBevacizumab	5 (2–10) 39 (100) 14 (36) 38 (97) 31 (79)		

Characteristic	Total N = 39 (%)
Dose Level of STRO-002	
0.5 mg/kg, 1.0 mg/kg, 1.8 mg/kg	5 (13)
2.9 mg/kg	3 (8)
4.3 mg/kg	5 (13)
5.2 mg/kg	12 (31)
5.6 mg/kg	3 (8)
6.0 mg/kg	10 (26)
6.4 mg/kg	1 (3)

STRO 002

Generally Well Tolerated Without Ocular DLTs or SAEs Treatment Emergent AEs in \geq 25% of Patients (without causality attribution)

The emerging STRO-002 safety profile includes mostly mild adverse events - 87% of all AEs reported are grade 1 or 2

Treatment Emergent Adverse Events (TEAE)					
TEAE >20%	Grade 1	Grade 2	Grade 3	Grade 4*	N= 39 (%)
Fatigue	7 (18)	16 (41)	4 (10)		27 (69)
Nausea	15 (38)	9 (23)			24 (62)
Neutropenia/ Neutrophil count decreased		2 (5)	10 (26)	12 (31)	24 (62)
Constipation	12 (31)	9 (23)			21 (54)
Decreased appetite	11 (28)	9 (23)			20 (51)
Arthralgia	6 (15)	7 (18)	5 (13)		18 (46)
Abdominal pain	6 (15)	4 (10)	3 (8)		13 (33)
AST increased	10 (28)	2 (3)	1 (3)		13 (33)
Diarrhea	8 (21)	3 (8)	1 (3)		12 (31)
Dizziness	9 (23)	3 (8)			12 (31)
Peripheral neuropathy	2 (5)	7 (18)	2 (5)		11 (28)
Vomiting	7 (18)	4 (10)			11 (28)
Headache	7 (18)	3 (8)			10 (26)

2 DLTs have been reported: neuropathy (6.0 mg/kg); bone pain (6.4 mg/kg)

*Only other Grade 4 events reported include WBC decrease (N=1), febrile neutropenia (N=1), and GI hemorrhage (N=1)

2 Grade 5 events have been observed, both reported as unrelated to study drug: Death NOS (not otherwise specified); Patient above with Grade 4 GI hemorrhage and progressive disease developed Grade 5 Acute GI bleed

Data as of August 31, 2020



Robust Anti-Tumor Activity in Heavily Pre-Treated, Unselected Patients



Patients

4 pts off study before post baseline scan 1 pt ongoing, not yet at first post baseline scan Data as of August 31, 2020

SUTRO

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Partial Response Achieved in 24% of Unenriched, Heavily Pre-Treated Ovarian Cancer Patients





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Partial Response with 74% Tumor Reduction Patient Continues on Treatment





57-year-old woman with platinum resistant ovarian cancer progressing after 4 prior regimens received STRO-002 at 5.2 mg/kg and remains on study treatment

Long Duration on Study and Disease Control Observed in Unenriched, Heavily Pre-Treated Ovarian Cancer Patients





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High Rates of CA-125 Responses are Associated with Anti-Tumor Activity



72% (18/25) of patients with elevated CA-125 levels at baseline had ≥ 50% reduction in CA-125 in at least 1 post-treatment timepoint

- 10/25 (40%) have confirmed CA-125 reductions ≥ 50% that is maintained and confirmed 28 days later
- 9 pts not evaluable for CA-125 response per GCIG criteria*

CA-125 decreases ≥ 50% from baseline are associated with tumor control with RECIST responses and stable disease

*Gynecologic Cancer InterGroup (GCIG) criteria requires an elevated baseline CA-125 level of at least twice the upper limit of normal



STRO 002

Promising Efficacy in a Heavily Pre-treated, Resistant/Refractory Unenriched Patient Population

Improved efficacy outcomes (increased ORR and DCR) observed as data matures with longer follow-up

- Overall response rate is 24% (8/33)
- High DCR of 60% at \geq 12 weeks and 47% at \geq 16 weeks
- Population not enriched for high FRα expression
- 38% (13/34) of patients still on study with potential to further improve efficacy outcomes

Heterogeneity of tumor regression and response, with some delayed partial responses observed after initial and variable period of stable disease

High rate of CA-125 responses (\geq 50%) are associated with anti-tumor activity

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Safety Profile Is Encouraging

- 87% of AEs were Grade 1–2
- No need for prophylactic corticosteroid eyedrops
- Neutropenia readily reverses within 1 week, without the need for G-CSF
- Peripheral neuropathy/arthralgia can be managed with dose reduction/delay without evidence of compromised efficacy



Our gratitude to the women who chose to participate in this study and their families

Thank you to the STRO-002-GM1 investigators and study staff for their diligence in caring for these patients





Summary and Next Steps Arturo Molina, MD, MS





Improved Efficacy Outcomes (Increased ORR and DCR) Observed as Data Matures with Longer Follow-Up

STRO-002 Clinical Data Readout						
		April 20th, 2020 Interim Analysis	August 31st, 2020 Interim Analysis			
N ≥ 2.9 mg/kg*		25 (20 evaluable)	34 (33 evaluable)			
Median Age		61 (47–76)	61 (48–79)			
Median Prior Lines		5 (2–10)	5 (2–10)			
	_					
RECIST	Responses	1 PR	8 PRs			
	ORR	5% (1/20) of evaluable pts	24% (8/33) of evaluable pts			
	DCR @ ≥12 Wks	40% (8/20) of evaluable pts	60% (20/33) of evaluable pts			
Dur. on Study	Pts on Study @ 16 Wks	32% (8/25)	44% (15/34)			
	Pts on Study @ 52 Wks	n/a	12% (4/34)			
CA-125	Reduction in level of ≥50%	57% (12/21)	72% (18/25)			

*38% (13/34) of patients still on study with potential to further improve efficacy outcomes



STRO 002

Summary and Next Steps in Clinical Development

- STRO-002 is clinically efficacious at multiple doses, starting at 2.9 mg/kg
 - Dose reductions or delays were not associated with loss of anti-tumor activity
- Further dose optimization will be explored during dose expansion
 - Anticipate RP2D will be in 4.3 5.2 mg/kg range
- Expansion cohort will seek to enroll less heavily pre-treated patients
 - Monotherapy unenriched expansion cohort in ovarian cancer planned for 4Q20
- Two FRα IHC assays are being compared for accuracy and consistency
- EOP1/2 FDA meeting planned for next year







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