

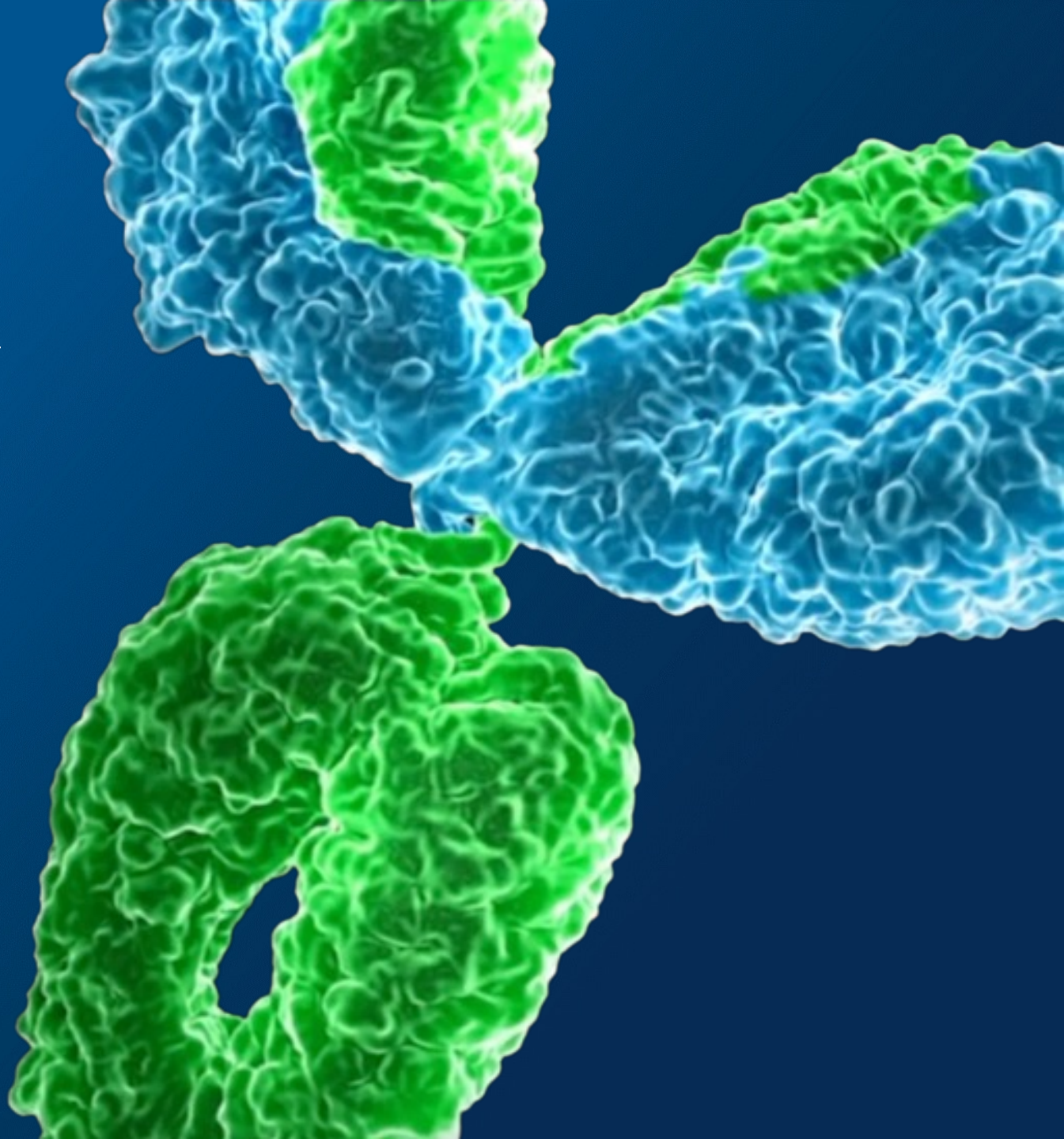


**Luveltamab Tazevibulin, a
Site Specific, Anti-Folate
Receptor Alpha
Hemiasterlin Conjugate**

Hans-Peter Gerber, Ph.D.

March 13, 2024

World ADC Meeting, London, UK



Forward Looking Statements

This presentation and the accompanying oral presentation contain “forward-looking” statements that are based on our management’s beliefs and assumptions and on information currently available to management. Forward-looking statements include all statements other than statements of historical fact contained in this presentation, including information concerning our future financial performance, business plans and objectives, current and future clinical activities, timing, design and success of our ongoing and planned clinical trials and related data, updates and results of our clinical trials and related data, timing and success of our planned development activities, our ability to obtain and maintain regulatory approval, the potential opportunities and benefits of Luvelta and the Company’s other product candidates and platform, financing plans, potential future milestone and royalty payments, competitive position, industry environment and potential market opportunities for Luvelta and the Company’s other product candidates.

Forward-looking statements are subject to known and unknown risks, uncertainties, assumptions and other factors, including risks and uncertainties related to our cash forecasts, our and our collaborators’ ability to advance our product candidates, the receipt, feedback and timing of potential regulatory submissions, designations, approvals and commercialization of product candidates, the design, and timing and results of preclinical and clinical trials. It is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. These factors, together with those that may be described in greater detail under the heading “Risk Factors” contained in our most recent Annual Report on Form 10-K, Quarterly Report on Form 10-Q and other reports the company files from time to time with the Securities and Exchange Commission, may cause our actual results, performance or achievements to differ materially and adversely from those anticipated or implied by our forward-looking statements.

You should not rely upon forward-looking statements as predictions of future events. Although our management believes that the expectations reflected in our forward-looking statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances described in the forward-looking statements will be achieved or occur. Moreover, neither we nor our management assume responsibility for the accuracy and completeness of the forward-looking statements. We undertake no obligation to publicly update any forward-looking statements for any reason after the date of this presentation to conform these statements to actual results or to changes in our expectations, except as required by law.

This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. In addition, projections, assumptions, and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.

Today's Agenda

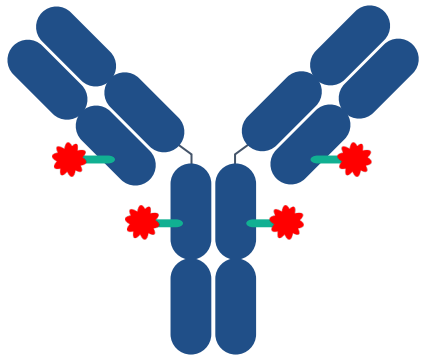
Luvelta: Clinical overview

- Platinum resistant ovarian cancer
- Endometrial cancer
- Pediatric CBF::Glis translocated AML

Impact of ADC Design on Safety and Efficacy

- ADC portfolio

Luvelta's Design Addresses Key ADC Limitations



Luvelta
FoIRa Targeted ADC



Toxic Payload
"Warhead"

DAR 4 hemiasterlin

- High potency tubulin inhibitor
- High ICD & bystander effect
- Low P-gp substrate



Linker

Utilizes proprietary, high value conjugation site to improve linker stability outside the tumor



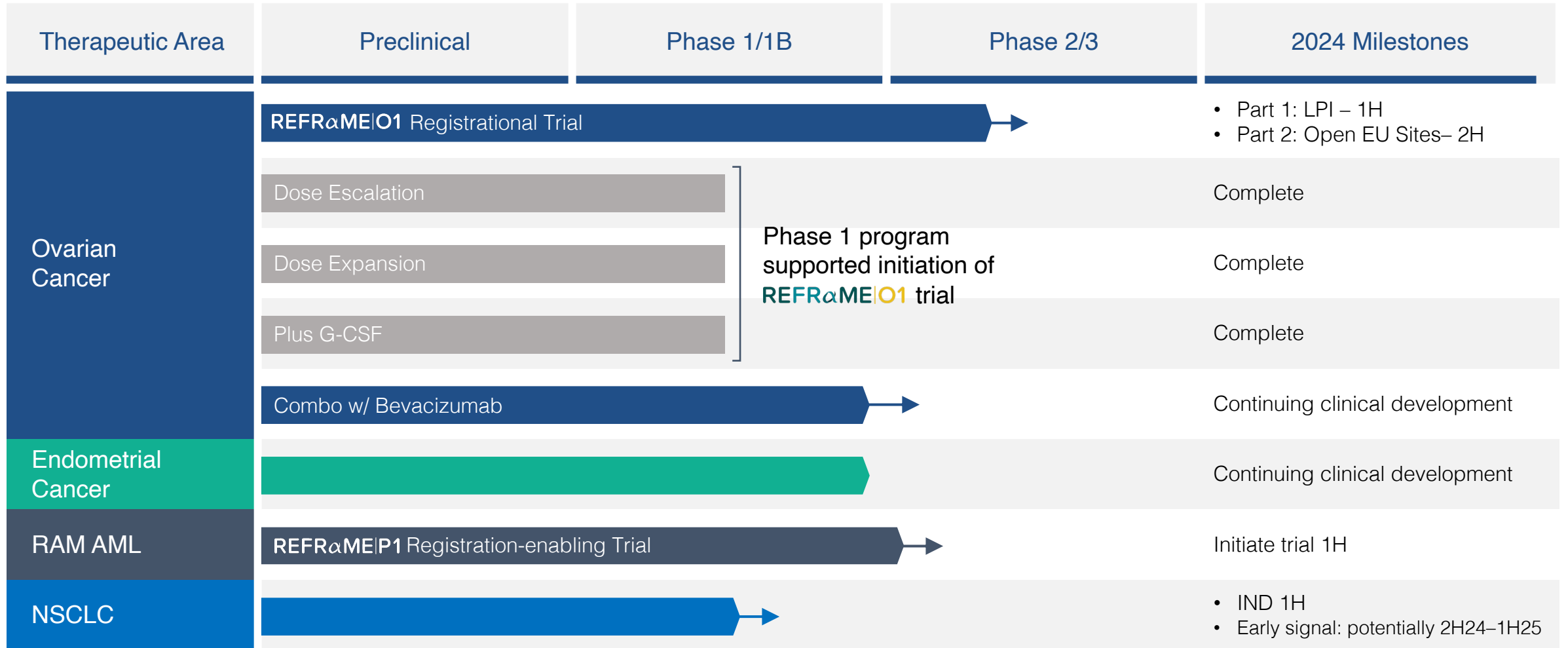
FC Domain

FcγR-deficient ADCs mitigates off-target toxicity

Source: Li & Hallam, Mol Cancer Ther 2023;22:155-67

Off-target Liability	Platforms Affected		Cause	Countermeasure	
<p>Eye toxicity</p>	WT IgG1	Tubulin: MMAE, MMAF, DM1, DM4	FcγR on corneal cells, pinocytosis	FcγR deficient mAbs	<ul style="list-style-type: none"> • Sutro (FRα-Tubulin/Luvelta)
<p>Neutropenia</p>	vc-linker & maleimide chemistry	Stochastic conjugation	Retro-Michael reaction & linker cleavage by bone marrow elastase	Site-specific & click-chemistry	<ul style="list-style-type: none"> • Sutro (Luvelta & TF-vc-Tubulin) • PFE (Her2-vc-Tubulin)

Luveltamab (STRO-02): Clinical Development

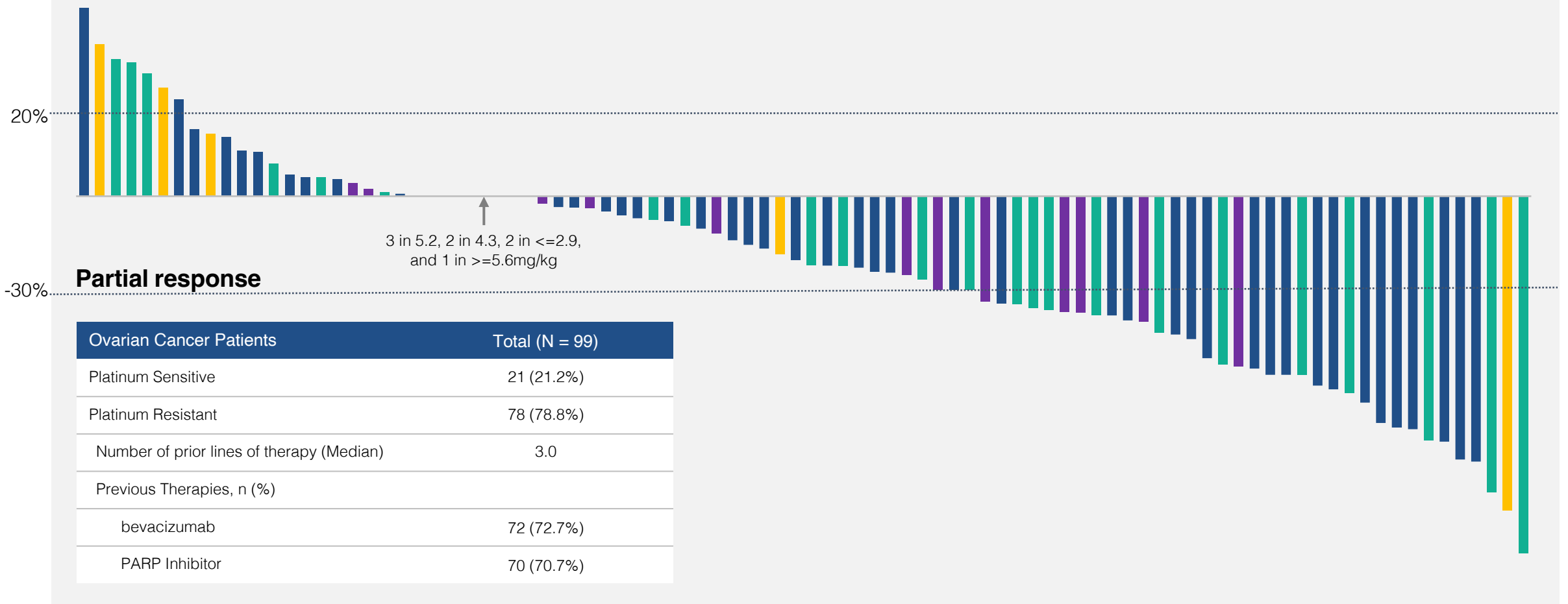


Sources: clinicaltrials.gov NCT05870748. Internal Sutro data on file.

→ Indicates trial enrolling or planned to begin enrolling

Anti-tumor Activity Demonstrated in Patients with Ovarian Cancer Across a Broad Dose Range

Maximum Reduction in Tumor Target Lesions in RECIST-Evaluable Patients (N=92 Evaluable)







Data as of Nov 8, 2023.

Starting dose, Q3W

■ ≤ 2.9 mg/kg
 ■ 4.3 mg/kg
 ■ 5.2 mg/kg
 ■ ≥ 5.6 mg/kg

Luvelta Demonstrated Compelling Anti-Tumor Activity and Tolerable Safety in Ovarian Cancer

Phase 1: Dose Escalation		Phase 1: Dose Expansion	
Escalation	Combo w/ Bevacizumab	Signal Seeking	Plus G-CSF (Neutropenia Mgt)
N = 39	N = 18	N = 44	N = 16
 Optimal dose range	 Tolerable and active	 Established FoIRa $\geq 25\%$ PROC	 Reduced high-grade neutropenia

Aggregated Analysis of Ovarian Cancer Patients

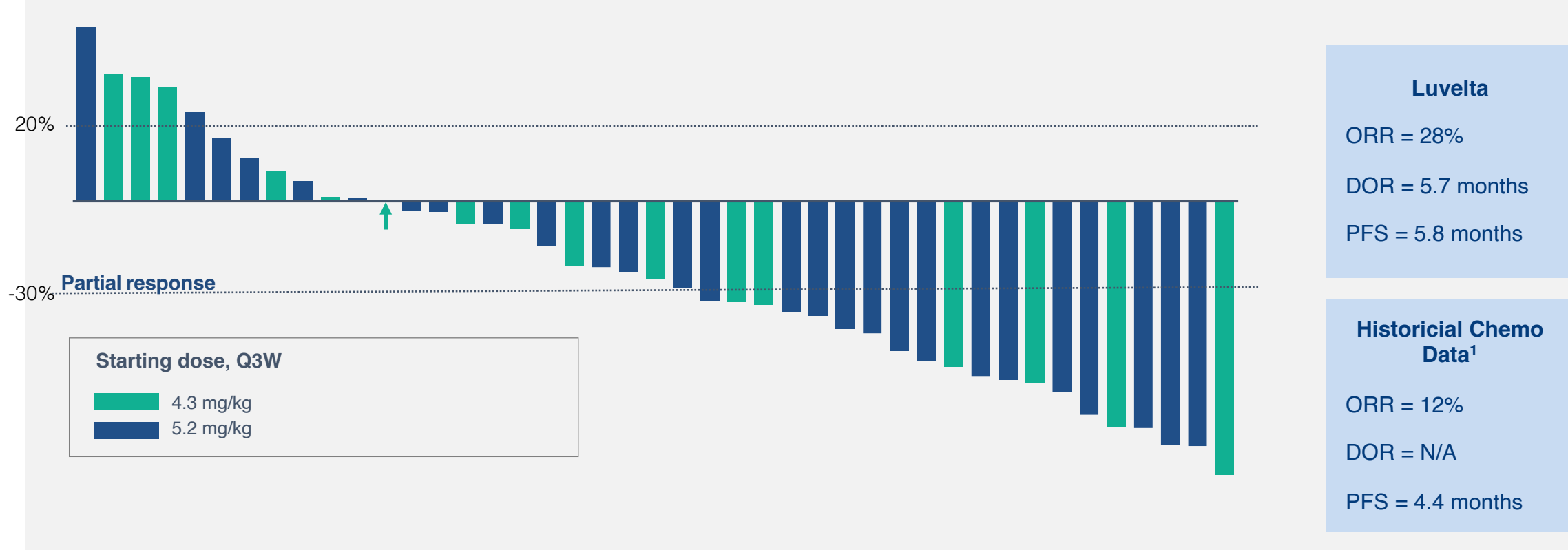
Improved clinical outcome vs. SoC chemotherapy (historical)

Improved tolerability profile vs. SoC chemotherapy (historical)

Clinical benefit shown in unmet need low-medium expressing patients

Substantial Improvement over Chemotherapy (Historical Data) in Women with Platinum Resistant Ovarian Cancer (PROC) with TPS $\geq 25\%$ at RPTD

Maximum Reduction in Tumor Target Lesions in RECIST-Evaluable Patients (N=43)



Data as of Oct 18, 2023, TPS= tumor proportion score

Sources: 1. Moore KN, et al. Ann Oncol 2021; 32(6):757-765. 2. Jun 2023 ASCO oral presentation. "Luveltamab tazevibulin (STRO-002), an anti-folate receptor alpha (FolRa) antibody drug conjugate (ADC), safety and efficacy in a broad distribution of FolRa expression in patients with recurrent epithelial ovarian cancer (OC): Update of STRO-002-GM1 phase 1 dose expansion cohort (Selected PROC patients with TPS $\geq 25\%$ (dose escalation, signal seeking and cohort with G-CSF)).

Luvelta Monotherapy Safety Profile has been Manageable, and is Characterized by Neutropenia, Arthralgia, and GI Adverse Events

TEAEs (N=99)

Preferred Term	All Grade Incidence $\geq 35\%$	Grade 3+
Patients reporting at least one event	99 (100.0%)	86 (86.9%)
Neutropenia*	69 (69.7%)	64 (64.6%) ‡
Nausea	69 (69.7%)	1 (1.0%)
Fatigue	63 (63.6%)	12 (12.1%) ‡
Arthralgia	57 (57.6%)	16 (16.2%) ‡
Constipation	53 (53.5%)	2 (2.0%)
Decreased appetite	45 (45.5%)	0
Abdominal pain	44 (44.4%)	6 (6.1%)
Neuropathy**	44 (44.4%)	7 (7.1%)
Anaemia	39 (39.4%)	11 (11.1%) ‡
Aspartate aminotransferase increased	38 (38.4%)	2 (2.0%)
Vomiting	35 (35.4%)	3 (3.0%)

SAEs (N=99)

Preferred Term	All Grade Incidence ≥ 3 Subjects	Grade 3+
Patients reporting at least one event	99 (100.0%)	86 (86.9%)
Abdominal pain	4 (4.0%)	3 (3.0%)
Dehydration	4 (4.0%)	4 (4.0%)
Febrile neutropenia	4 (4.0%)	4 (4.0%)
Small intestinal obstruction	4 (4.0%)	4 (4.0%)
Acute kidney injury	3 (3.0%)	2 (2.0%)
Anaemia	3 (3.0%)	3 (3.0%)
Constipation	3 (3.0%)	2 (2.0%)
Pneumonia	3 (3.0%)	2 (2.0%)

* Neutropenia included the following preferred terms: neutropenia, febrile neutropenia, and neutrophil count decreased.

** Neuropathy included the following preferred terms: neuropathy peripheral and peripheral sensory neuropathy.

‡ Most common Grade 3+ TEAEs

Neutropenia

- Primarily uncomplicated (febrile neutropenia < 5%)
- Well managed with G-CSF usage
- Led to discontinuation in 1.5% of patients

Arthralgia

- Managed conservatively
- Led to discontinuation in 1.5% of patients

Peripheral Neuropathy

- Expected event with microtubule inhibitor ADCs (pre-existing and on study)
- Actively managed with protocol-specified conservative management
- Led to discontinuation in 2.9% of patients

1 subject experienced grade 5 event: Probably luvelta related

- 1 death was reported as resulting from febrile neutropenia with concurrent SAEs of septic shock, pancytopenia, and acute respiratory failure; all assessed as related to luvelta

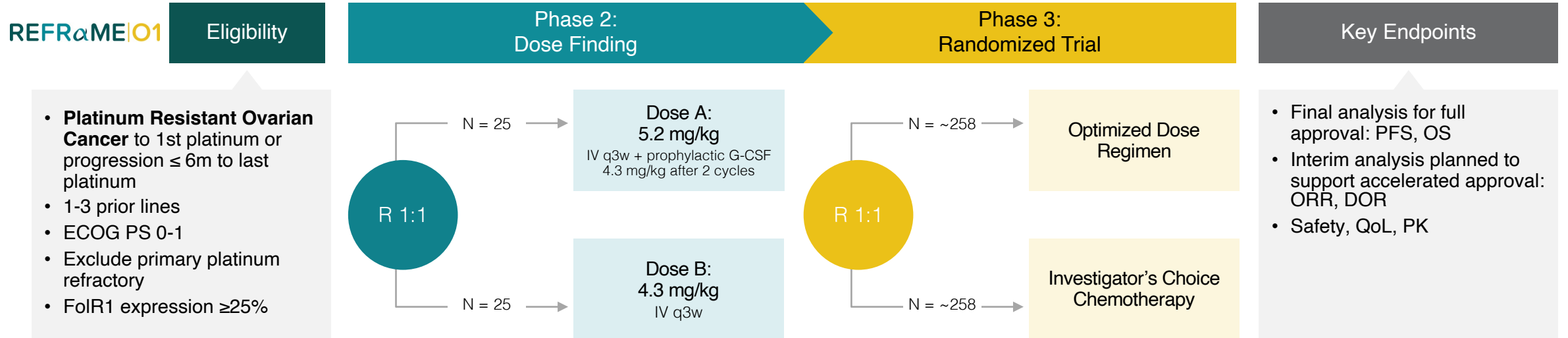
5 subjects experienced grade 5 events: Unrelated to luvelta

- 3 deaths were attributed to disease progression
- 1 death was reported as Death NOS; assessed as unrelated to luvelta
- 1 death was reported as resulting from a pulmonary infection; assessed as unrelated to luvelta

Data as of Nov 8, 2023

Source: Internal Sutro data on file

REFR α ME-O1 Ongoing Pivotal Trial in Platinum Resistant Ovarian Cancer



PRV: Pediatric Review Voucher

Sources: clinicaltrials.gov NCT05870748. ENGOT/GOG-OV79/GOG-3086 , Internal Sutro data on file.

Luvelta Has the Potential to Treat 8 out of 10 Women with Ovarian Cancer With FolR α Expression $\geq 25\%$

Treatment Eligibility is Driven by FolR α Biomarker Test

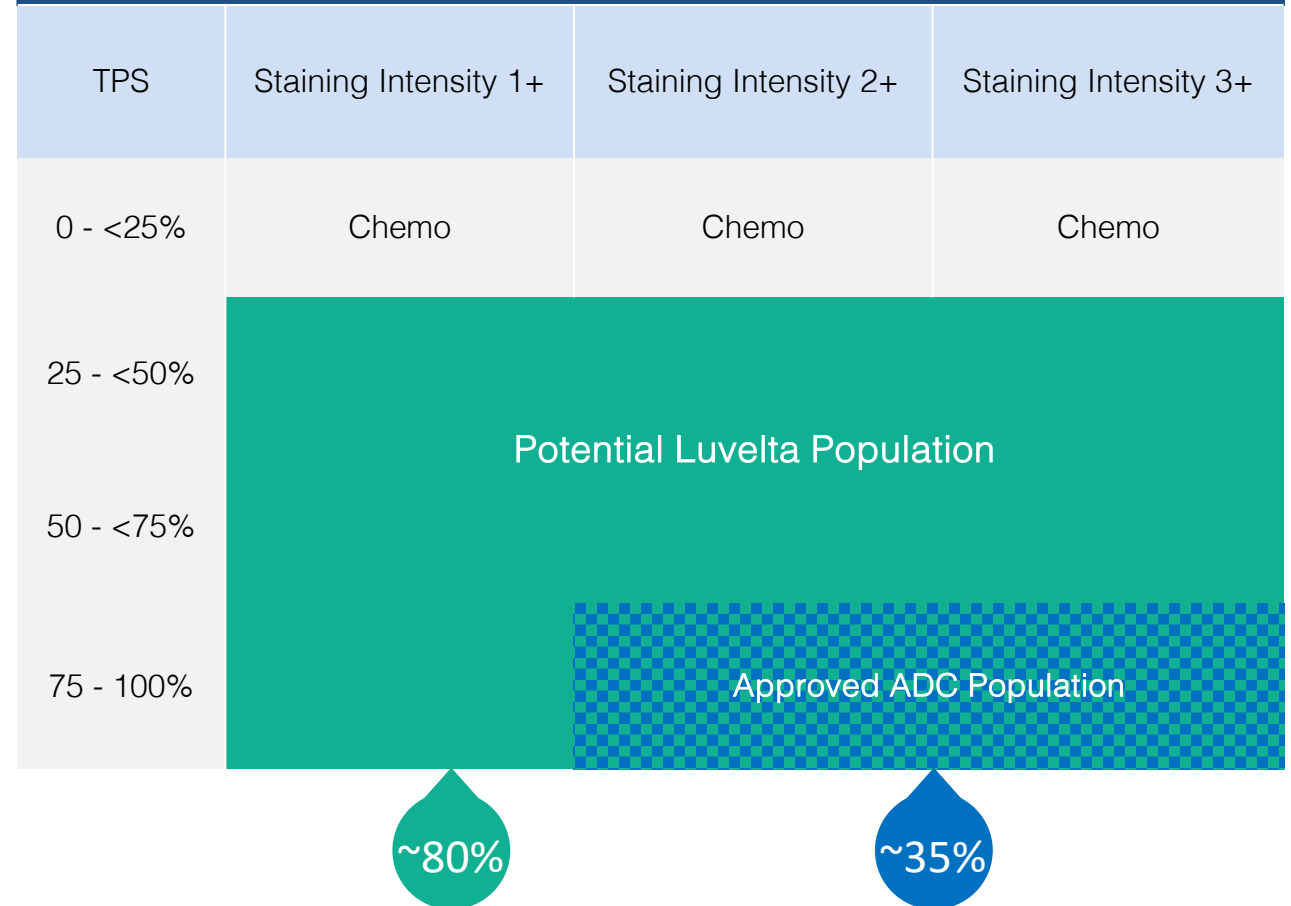
Luvelta has demonstrated clinical activity in PROC patients with **FolR α $\geq 25\%$**

Both Luvelta and FDA-approved ADC test patient FolR α levels via Ventana validated assay

Due to high frequency of testing of FolR α in OC, patient expression level may be known prior to developing platinum resistance

Luvelta addresses low and medium FolR α expression ($\geq 25\%$ TPS with any intensity) that currently receive chemotherapy, while approved ADC is limited to high expressing FolR α ($\geq 75\%$ TPS with PS 2+, 3+)

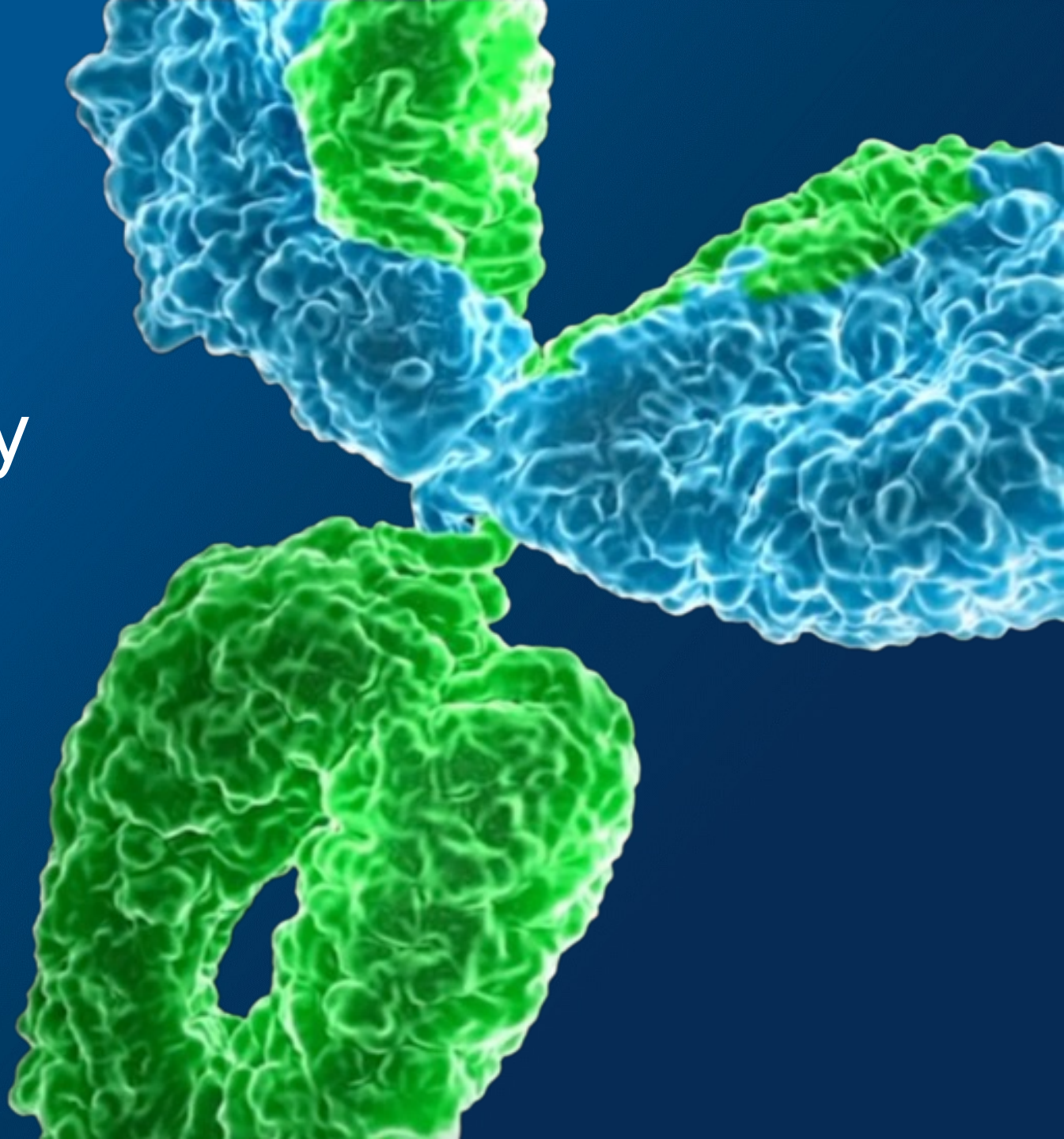
Comparison of Potential Luvelta Population with Approved ADC Population



Sources: 1. ImmunoGen Third Quarter 2023 Financial Results, Nov 2023. 2. Jun 2023 ASCO oral presentation “Luveltamab tazevibulin (STRO-002), an anti-folate receptor alpha (FolR α) antibody drug conjugate (ADC), safety and efficacy in a broad distribution of FolR α expression in patients with recurrent epithelial ovarian cancer (OC): Update of STRO-002-GM1 phase 1 dose expansion cohort.”.

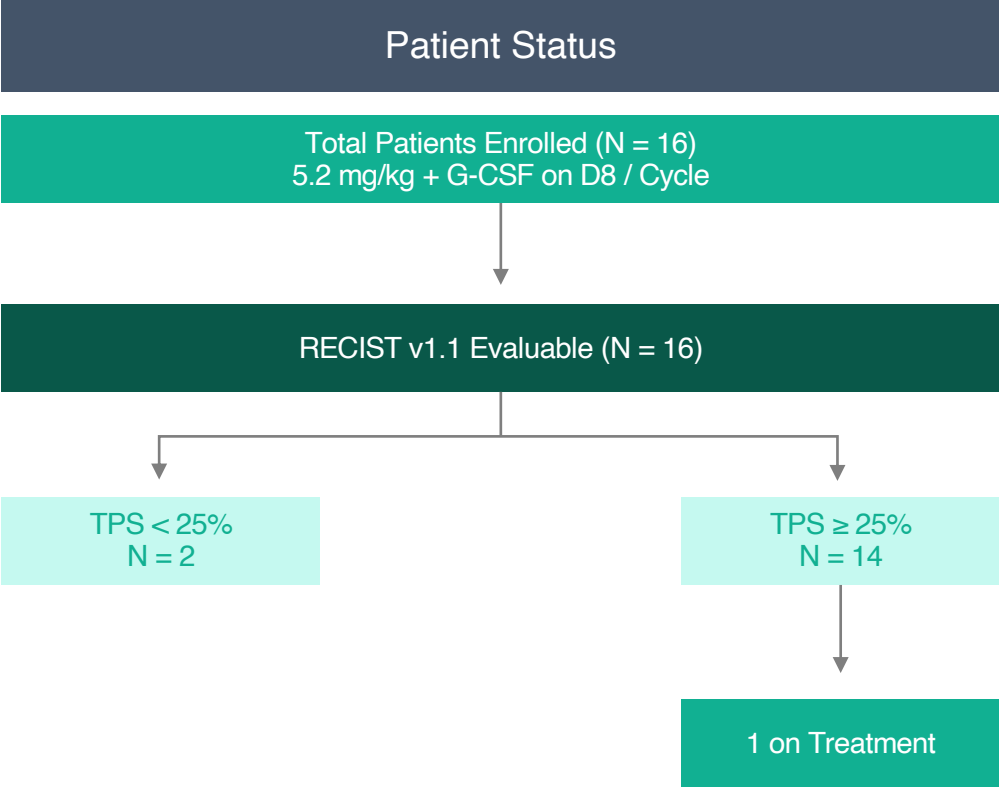


Cohort with G-CSF:
Designed to Effectively
Manage Tolerability



Safety Cohort Designed to Mitigate High-grade Neutropenia at Higher Dose of 5.2 mg/kg with Prophylactic G-CSF Support

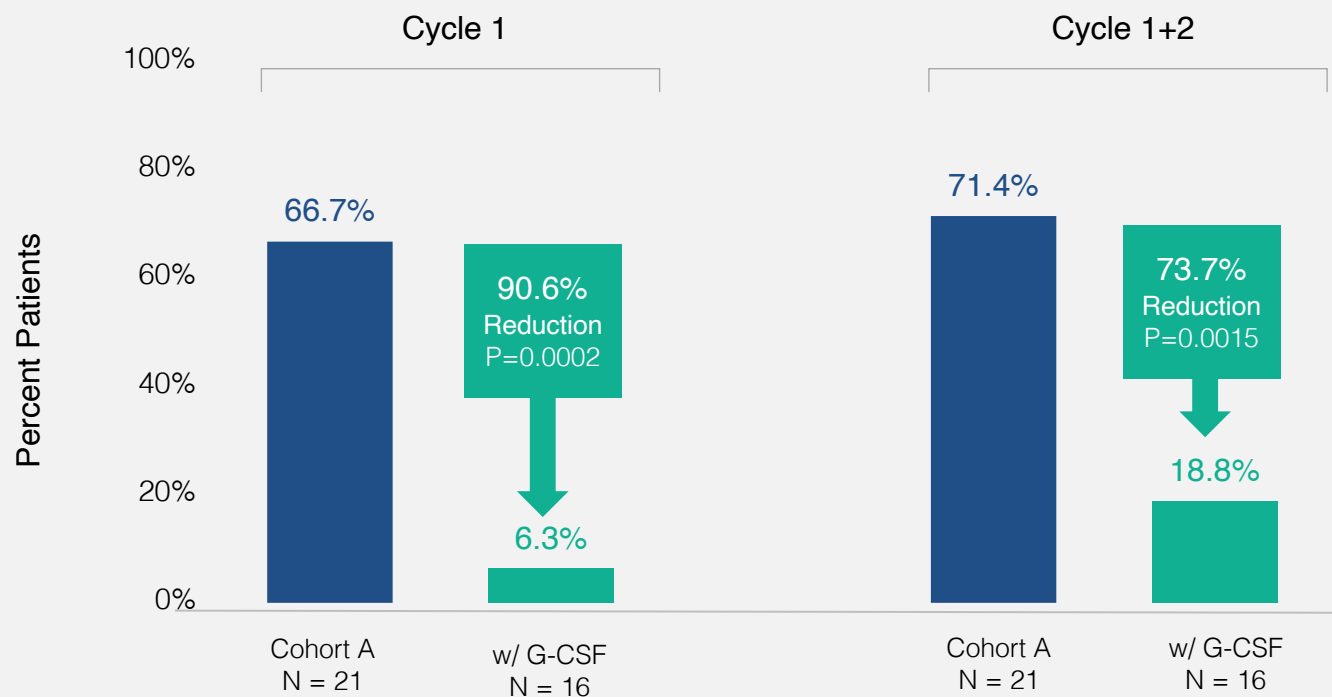
Patient Baseline Characteristics	
Ovarian Cancer Patients	Total (N = 16)
Median age, years (range)	66 (36–86)
Median time since diagnosis, years (range)	2.3 (1.1–6.6)
Number of prior lines of therapy	
Median (Range)	2.0 (2-3)
Previous Therapies, n (%)	
Bevacizumab	11 (69%)
PARP Inhibitor	11 (69%)



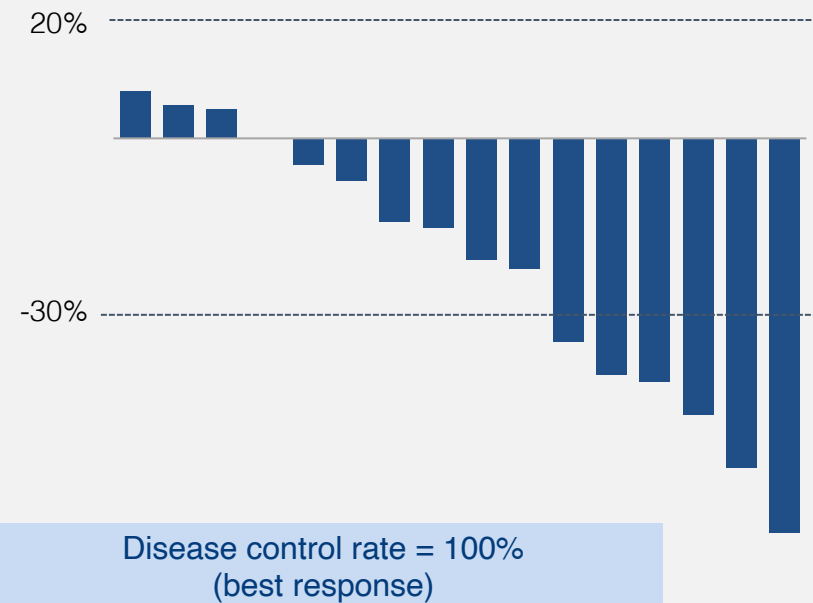
Data as of Nov 08, 2023 Source: Internal Sutro data on file

Effective Reduction of Neutropenia with Use of Prophylactic G-CSF on Day 8 with 5.2mg/kg Dose

Grade 3+ Neutropenia Cohort A¹ vs. Cohort with G-CSF²



Maximum Reduction in Tumor Target Lesions (N=16)



Preferred Term: G3+ TEAE	Cohort A 5.2 mg/kg (N=21)	Cohort + G-CSF 5.2 mg/kg (N=16)
Neutropenia	76.2%	37.5%

1 - Cohort A patients dosed with Luvelta 5.2mg/kg.

2 - Cohort with G-CSF patients started at Luvelta 5.2mg/kg + prophylactic pegfilgrastim on Day 8

Data as of Nov 08, 2023 Sources: Sutro Corporate Presentation Nov 2023. Internal Sutro data on file.

Luvelta: Demonstrated Compelling Anti-Tumor Activity and Manageable Safety Profile In Lower and/or Variable FolRα Expression Tumors

Additional Indications

Endometrial

N = 17

- ✓ Evidence of anti-tumor activity
- ✓ No new safety signals observed
- ✓ Continuing clinical development

RAM AML¹

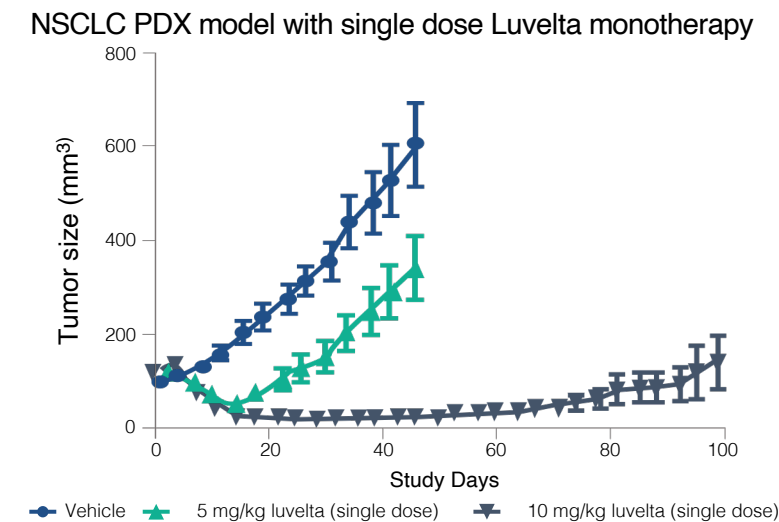
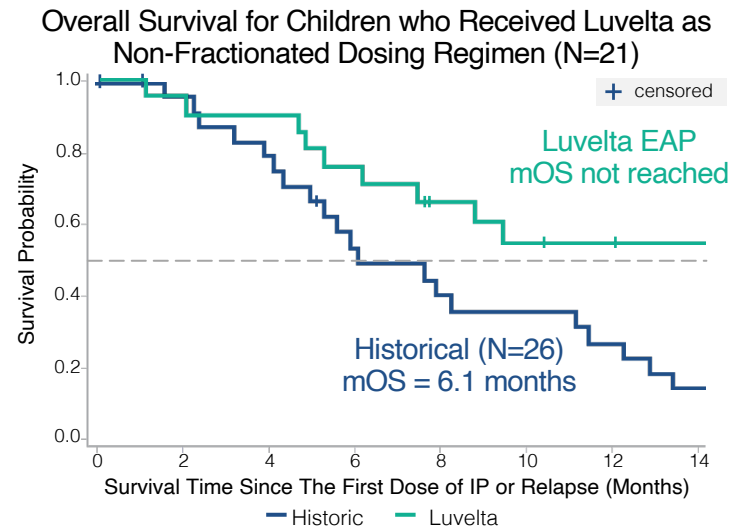
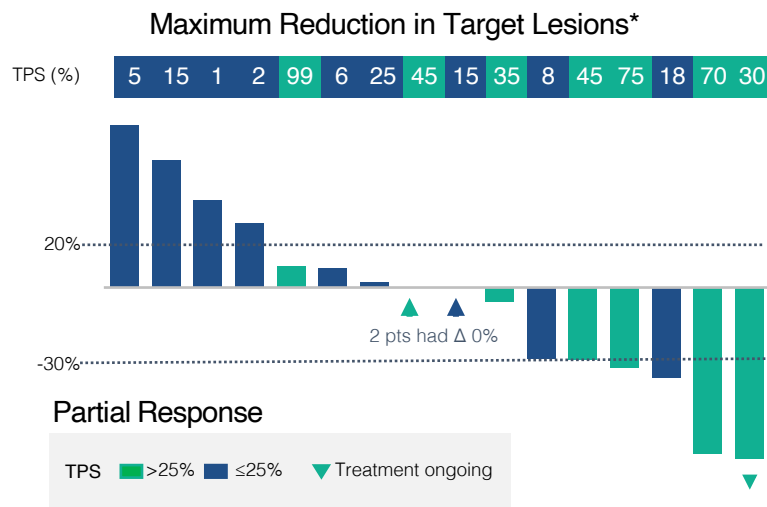
N = 25

- ✓ Meaningful clinical responses, including complete remission and prolonged overall survival
- ✓ Well tolerated and can be given as out-patient
- ✓ Positioned for registration-enabling trial

NSCLC

Preclinical

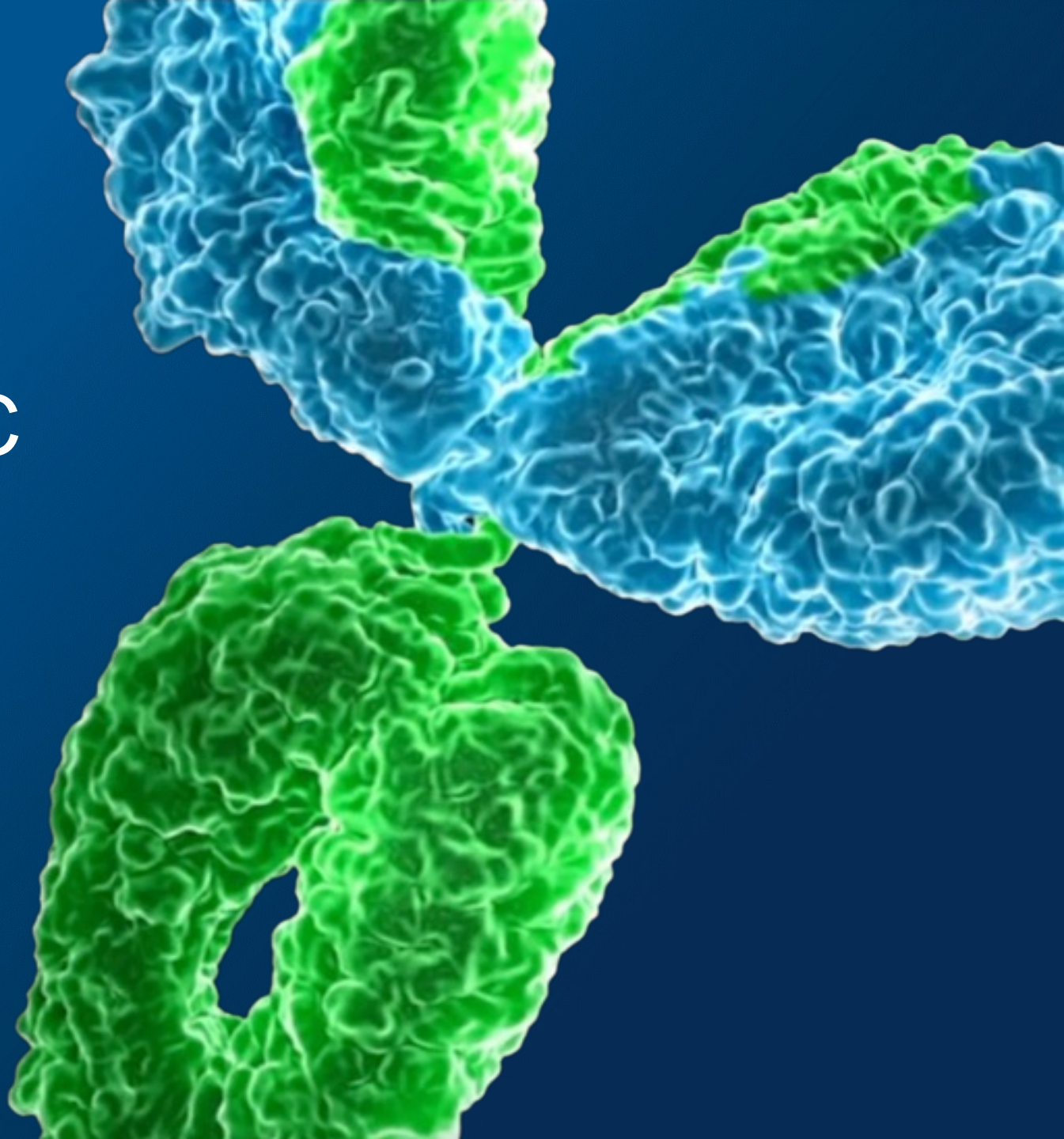
- ✓ Single dose and combination with PD-1 blockade demonstrated anti-tumor activity
- ✓ IND 1H 2024



Data cutoff: 04 August 2023. *n=16 response evaluable patients. PR, partial response; TPS, tumor proportion score. 1 - These data were generated by the treating physicians and collected and enabled for presentation by Sutro.
Endometrial source: Oct 2023 ESMO mini-oral presentation “741MO - Luveltamab tazevibulin (STRO-002), an anti-folate receptor alpha (FolRα) antibody drug conjugate (ADC), demonstrates clinical activity in recurrent/progressive epithelial endometrial cancer (EEC): STRO-002-GM1 phase I dose expansion.” **RAM AML source:** Dec 2023 ASH poster “Anti-leukemic Activity of Luveltamab Tazevibulin (LT, STRO-002), a Novel Folate Receptor-α (FR-α)-targeting Antibody Drug Conjugate (ADC) in Relapsed/Refractory CBFA2T3::GLIS2 AML.” **NSCLC source:** Internal Sutro preclinical data on file.



Exatecan Based ADC Portfolio


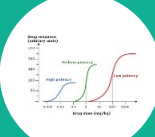


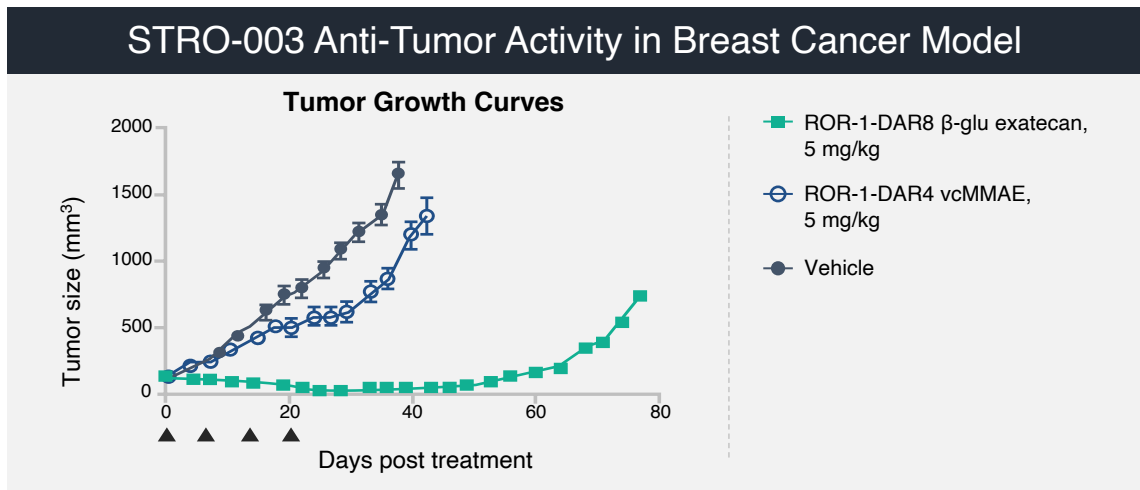
Robust Pipeline of Product Candidates Designed to Expand Patient Benefit in Areas of High Unmet Medical Need

PROGRAM	MODALITY/TARGET	INDICATION	DISCOVERY	PRECLINICAL	PHASE 1/1B	PHASE 2/3	WORLDWIDE OR GEOGRAPHIC PARTNER	
SUTRO-LED PROGRAMS								
Luveltamab tazevibulin (Luvelta, STRO-002)	FolR α Antibody-Drug Conjugate (ADC)	Ovarian Cancer	<i>Fast Track Designation</i>					 天士力生物 (Greater China Rights)
		Ovarian Cancer (bevacizumab combo)						
		Endometrial Cancer						
		CBF/GLIS2 Pediatric AML	<i>Orphan Drug & Rare Pediatric Disease Designation</i>					
		Adenocarcinoma, NSCLC						
STRO-001⁽¹⁾	CD74 ADC	B-cell Malignancies	<i>Orphan Drug Designation</i>				 BIONOVA Pharma 博诺医药 (Greater China Rights)	
STRO-003	ROR1 ADC	Solid Tumors & Hematological Cancers						
STRO-004	Tissue Factor ADC	Solid Tumors						
PARTNER PROGRAMS								
VAX-24	24-Valent Conjugate Vaccine	Invasive Pneumococcal Disease					 VAXCYTE <i>protect humankind</i>	
VAX-31	31-Valent Conjugate Vaccine	Invasive Pneumococcal Disease						
MK-1484	Selective IL-2 Agonist	Advanced or Metastatic Solid Tumors					 MERCK	
Undisclosed Programs	Immunostimulatory ADCs (iADCs)	Cancers	<i>Multiple Programs</i>				 astellas	

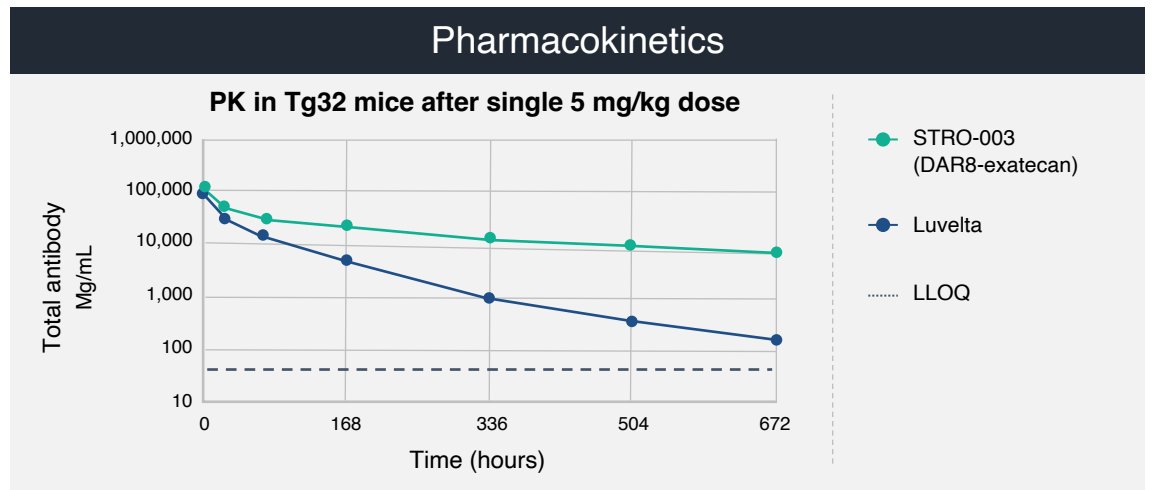
1. Phase 1 dose escalation has completed in the U.S., and clinical development is ongoing in Greater China led by BioNova

STRO-003: A Site Specific, DAR8, Exatecan ADC Targeting ROR-1

ADC Liability		Platforms Affected		Cause	Countermeasure	
 Interstitial lung disease	WT IgG1	DXd, Exatecan		FcγR on alveolar macrophages	FcγR deficient mAbs	<ul style="list-style-type: none"> Sutro (ROR1 & TF-Exatecan, STRO-003/-004)
 Potency	WT IgG1	DXd, Exatecan		Lower potency than tubulin or DNA damage payloads	High DAR Exatecan ≥ 8	<ul style="list-style-type: none"> Sutro (STRO-003)



Source: Data compiled from multiple studies; growth of vehicle groups identical.



ROR1 DAR8-Exatecan ADC Displays Enhanced Therapeutic Index

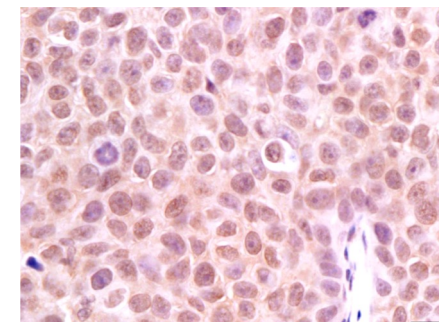
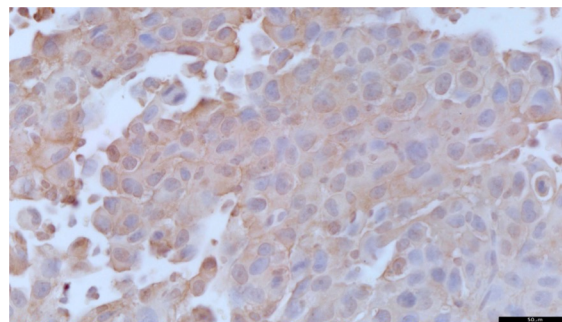
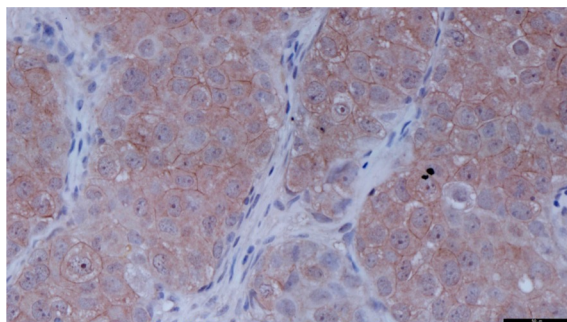
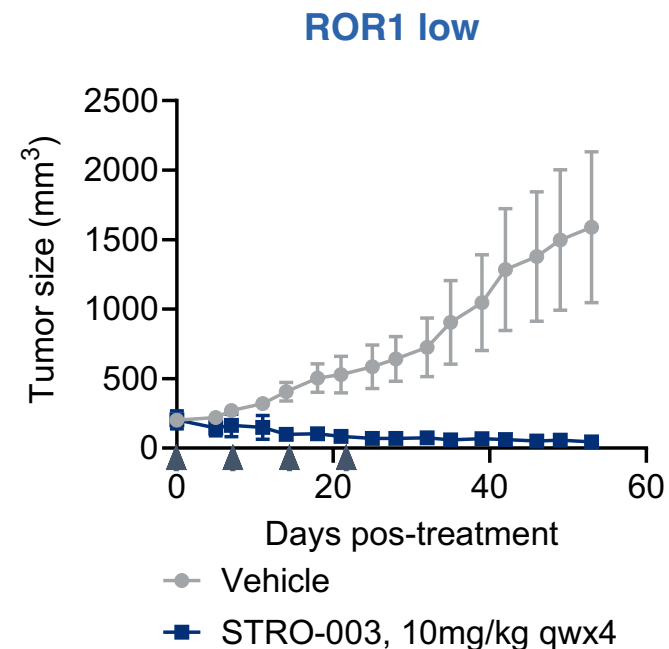
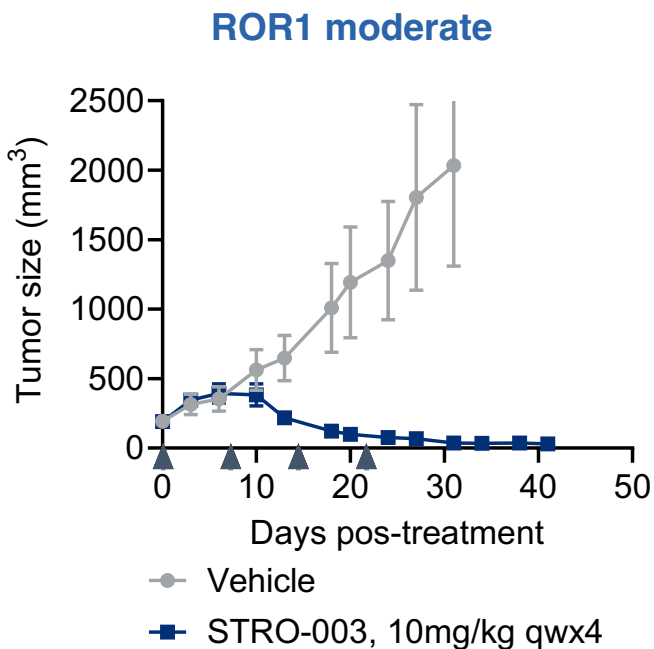
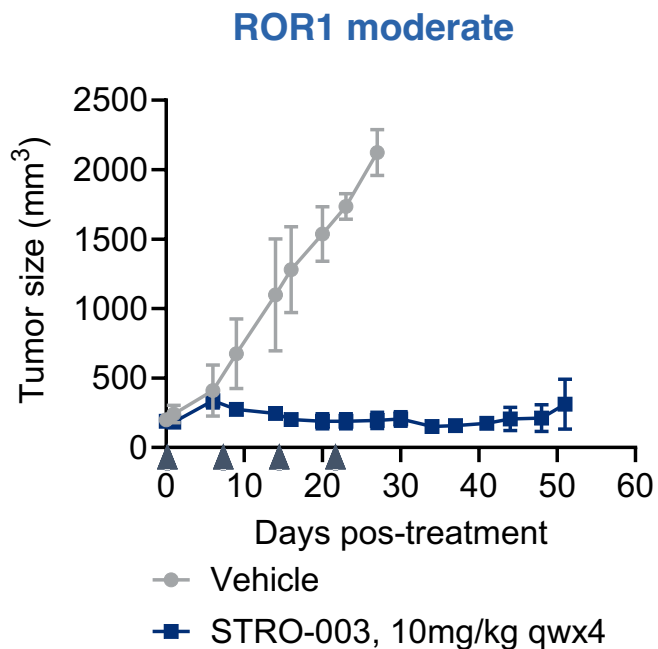
ROR1- ADC	MED = Minimum Efficacious Dose (single dose regressions in Xenografts)	HNSTD in NHPs (Q3 wks x 2 /3)	Clinical Adverse Events
STRO-003 (β -glu-exatecan, DAR8)	5-10 mg/kg	> 45 mg/kg [#]	Target IND: H2/24
Zilovertamab-vedotin (ZV) (vcMMAE, DAR4)	3 mg/kg (NHL)	~ 6 mg/kg	<ul style="list-style-type: none"> • Neutropenia 2.5mg/kg, • Peripheral Neuropathy • T^{1/2}= 2.5 d

Clinical Adverse Events ZV



- Neutropenia 2.5mg/kg, T^{1/2}= 2.5 d
- Peripheral Neuropathy

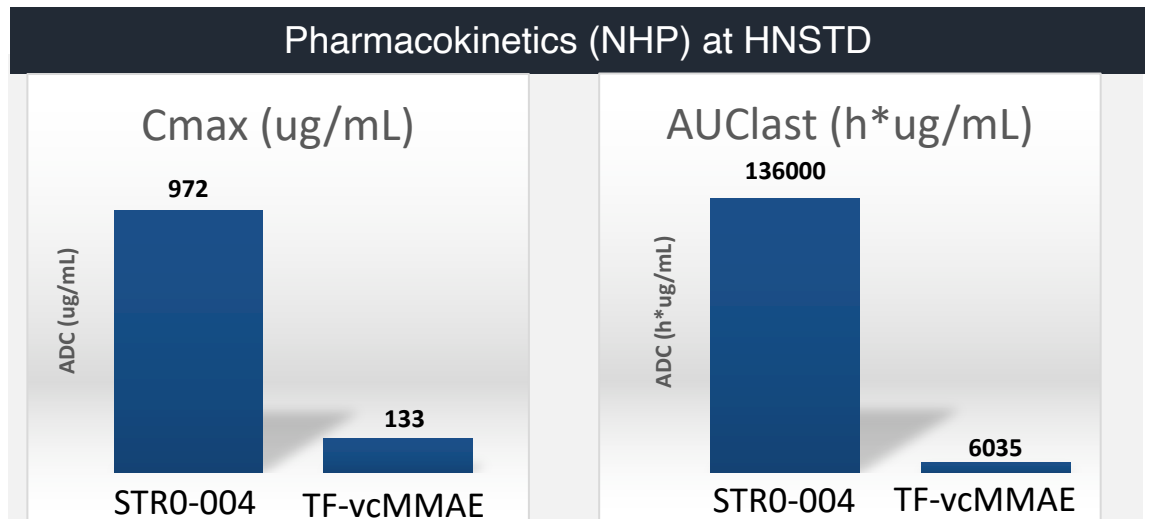
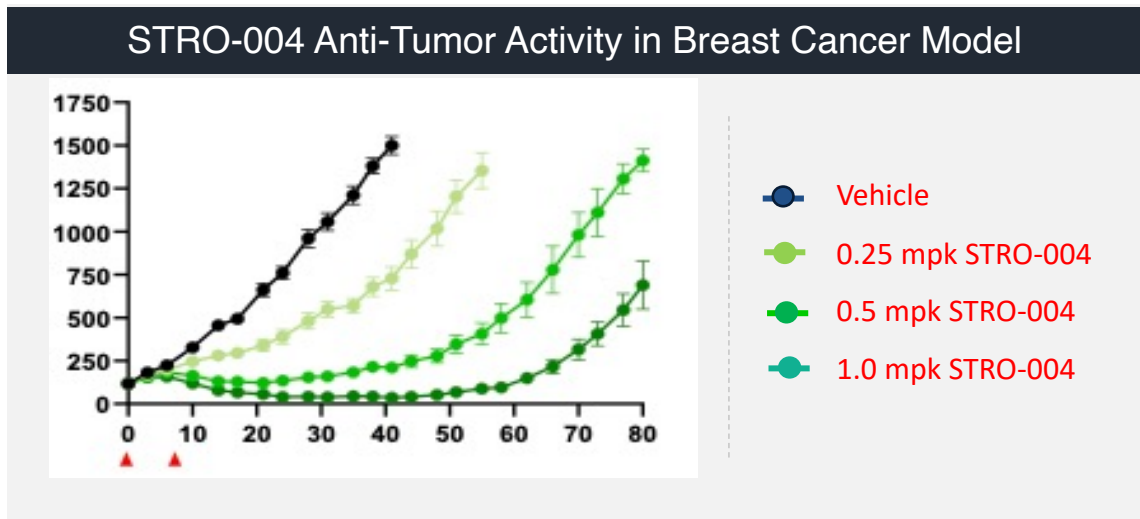
Sutro 2023 data on file

STRO-003 Induces Complete Regression of Human NSCLC PDX Models Expressing Low and/or Heterogeneous ROR1 Antigen Levels



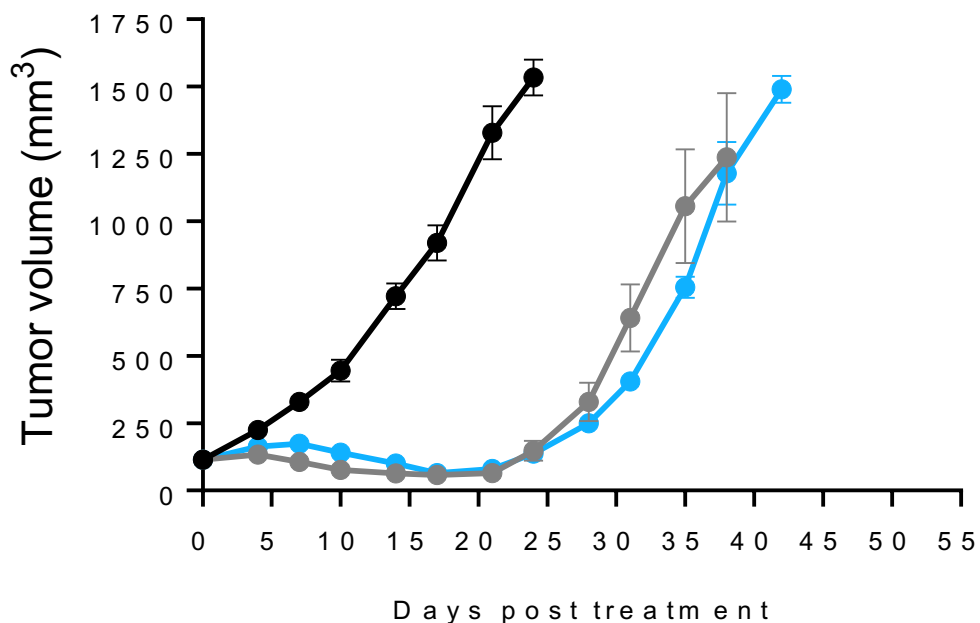
STRO-004: A Site Specific, DAR4, Exatecan ADC Targeting TF

ADC Liability	Platforms Affected		Cause	Countermeasure	
 Interstitial lung disease	WT IgG1	DXd, Exatecan	FcγR on alveolar macrophages	FcγR deficient mAbs	<ul style="list-style-type: none"> Sutro (ROR1 & TF-Exatecan, STRO-003/-004)
 Eye Tox	WT IgG1	Tubulin: MMAE, MMAF, DM1, DM4	Off-Target - FcγR on corneal cells On-Target - TF on corneal cells	FcγR deficient mAbs & Exatecan	<ul style="list-style-type: none"> Sutro (STRO-002/-004)



STRO-004 Displays Similar Potency to Tisotumab Vedotin (Tivdak), But Much Improved Safety in Cynos

H1975 Growth Curves



- Vehicle
- Tisotumab, 1mg/kg
- STRO-004, 1mg/kg

Tissue Factor (TF) ADC	Minimum Efficacious Dose (inducing Single dose regression in Xenografts)	HNSTD in NHPs (Q3 wks x 2/3)
STRO-004 (beta-glu-Extecan, DAR4)	1 mg/kg	> 30 mg/kg [#]
Tivdak (vcMMAE, DAR4)	1 mg/kg	~ 5 mg/kg *

Clinical Adverse Events Tivdak:

- Ocular tox (>60%)
- Bleeding (42-60%)
- Peripheral Neuropathy (42 %),
- ILD

*Breij & Parren, Can Res, 2014

[#] Sutro. 2023 data on file

Biology is the Foundation for Therapy: Future ADC Development

On-target
Activity
Improvements



ADC Potency

Immunogenic Cell Death Induction

Resistance to Top1/Exatecan

Dual Conjugate*



DAR \geq 8*



*Unique advantage of non-natural amino acid incorporation by Cell-free XpressCF®

Luvelta
FolR α -targeting ADC:
A Pipeline-in-a-Drug
Opportunity

Global REFR α ME-O1
Registrational Trial
Well Underway;
Potential to be 1st
Therapy for Women with
Low/Medium FolR α
Expression

Next-Generation
ADCs Fueled
by Proven
Cell-free XpressCF[®]
Technology and
Partnership Model

Acknowledgements

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