

Avutometinib and Defactinib in Recurrent Low-Grade Serous Ovarian Cancer (LGSOC)

October 17, 2024

Corporate Update Call



Amanda, real patient living with
recurrent LGSOC
Diagnosed at 26 with LGSOC



Forward-Looking Statements

This presentation includes forward-looking statements about, among other things, Verastem Oncology's (the "Company") programs and product candidates, strategy, future plans and prospects, including statements related to the scope and expected timing for the completion of the NDA submission for the avutometinib and defactinib combination in LGSOC, the ongoing discussions with the FDA and the ability to obtain Accelerated Approval and Priority Review of the mature RAMP 201 data, the potential of the combination of avutometinib and defactinib to change the way patients with recurrent LGSOC are treated, the status of enrollments for and potential of the results of the RAMP 301 Phase 3 trial to expand the indication regardless of KRAS mutation status, the structure of our planned and pending clinical trials, the potential clinical value of various of the Company's clinical trials, including the RAMP 201, RAMP 205 and RAMP 301 trials, the timing of commencing and completing trials, including topline data reports, interactions with regulators, the timeline and indications for clinical development, regulatory submissions, the potential for and timing of commercialization of product candidates and the potential market opportunities of, and estimated addressable markets for, our drug candidates. The words "anticipate," "believe," "estimate," "expect," "intend," "may," "plan," "predict," "project," "target," "potential," "will," "would," "could," "should," "continue," "can," "promising" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Each forward-looking statement is subject to risks and uncertainties that could cause actual results to differ materially from those expressed or implied in such statement.

Applicable risks and uncertainties include the risks and uncertainties, among other things, regarding: the success in the development and potential commercialization of our product candidates, including avutometinib in combination with other compounds, including defactinib, LUMAKRAS and others; the uncertainties inherent in research and development, such as negative or unexpected results of clinical trials, the occurrence or timing of applications for our product candidates that may be filed with regulatory authorities in any jurisdictions; whether and when regulatory authorities in any jurisdictions may approve any such applications that may be filed for our product candidates, and, if approved, whether our product candidates will be commercially successful in such jurisdictions; our ability to obtain, maintain and enforce patent and other intellectual property protection for our product candidates; the scope, timing, and outcome of any legal proceedings; decisions by regulatory authorities regarding trial design, labeling and other matters that could affect the timing, availability or commercial potential of our product candidates; whether preclinical testing of our product candidates and preliminary or interim data from clinical trials will be predictive of the results or success of ongoing or later clinical trials; that the timing, scope and rate of reimbursement for our product candidates is uncertain; that the market opportunities of our drug candidates are based on internal and third-party estimates which may prove to be incorrect; that third-party payors (including government agencies) may not reimburse; that there may be competitive developments affecting our product candidates; that data may not be available when expected; that enrollment of clinical trials may take longer than expected, which may delay our development programs, including delays in submission or review by the FDA of our NDA submission in recurrent KRAS mutant LGSOC if enrollment in our confirmatory trial is not well underway at the time of submission or that the FDA may require the company to enroll additional patients in the Company's ongoing RAMP 301 confirmatory Phase 3 clinical trial prior to Verastem submitting or the FDA taking action on our NDA seeking accelerated approval; risks associated with preliminary and interim data, which may not be representative of more mature data, including with respect to interim duration of therapy data; that our product candidates will cause adverse safety events and/or unexpected concerns may arise from additional data or analysis, or result in unmanageable safety profiles as compared to their levels of efficacy; that we may be unable to successfully validate, develop and obtain regulatory approval for companion diagnostic tests for our product candidates that require or would commercially benefit from such tests, or experience significant delays in doing so; that the mature RAMP 201 data and associated discussions with the FDA may not support the scope of our rolling NDA submission for the avutometinib and defactinib combination in LGSOC, including with respect to KRAS wild type LGSOC; that our product candidates may experience manufacturing or supply interruptions or failures; that any of our third-party contract research organizations, contract manufacturing organizations, clinical sites, or contractors, among others, who we rely on fail to fully perform; that we face substantial competition, which may result in others developing or commercializing products before or more successfully than we do which could result in reduced market share or market potential for our product candidates; that we will be unable to successfully initiate or complete the clinical development and eventual commercialization of our product candidates; that the development and commercialization of our product candidates will take longer or cost more than planned, including as a result of conducting additional studies or our decisions regarding execution of such commercialization; that we may not have sufficient cash to fund our contemplated operations, including certain of our product development programs; that we may not attract and retain high quality personnel; that we or Chugai Pharmaceutical Co., Ltd. will fail to fully perform under the avutometinib license agreement; that our total addressable and target markets for our product candidates might be smaller than we are presently estimating; that we or Secura Bio, Inc. will fail to fully perform under the asset purchase agreement with Secura Bio, Inc., including in relation to milestone payments; that we will not see a return on investment on the payments we have and may continue to make pursuant to the collaboration and option agreement with GenFleet Therapeutics (Shanghai), Inc. (GenFleet), or that GenFleet will fail to fully perform under the agreement; that we may not be able to establish new or expand on existing collaborations or partnerships, including with respect to in-licensing of our product candidates, on favorable terms, or at all; that we may be unable to obtain adequate financing in the future through product licensing, co-promotional arrangements, public or private equity, debt financing or otherwise; that we will not pursue or submit regulatory filings for our product candidates; and that our product candidates will not receive regulatory approval, become commercially successful products, or result in new treatment options being offered to patients.

Other risks and uncertainties include those identified under the heading "Risk Factors" in the Company's Annual Report on Form 10-K for the year ended December 31, 2023, as filed with the Securities and Exchange Commission (SEC) on March 14, 2024, and in any subsequent filings with the SEC, which are available at www.sec.gov and www.verastem.com.

The forward-looking statements in this presentation speak only as of the original date of this presentation, and we undertake no obligation to update or revise any of these statements whether as a result of new information, future events or otherwise, except as required by law.

Third-Party Sources

Certain information contained in this presentation, including industry and market data and other statistical information, relates to or is based on studies, publications, surveys and other data obtained from third-party sources and the Company's own internal estimates and research. While the Company believes these third-party sources to be reliable as of the date of this presentation, it has not independently verified, and makes no representation as to the adequacy, fairness, accuracy or completeness of, any information obtained from third-party sources. In addition, all of the market data included in this presentation involves a number of assumptions and limitations, and there can be no guarantee as to the accuracy or reliability of such assumptions.

Today's Agenda

Opening Remarks

Dan Paterson, President & Chief Executive Officer

Mature RAMP 201 Data Results

John Hayslip, M.D., Chief Medical Officer

Changing the Treatment Paradigm

Mike Crowther, Chief Commercial & Strategy Officer

Closing Remarks

Dan Paterson, President & Chief Executive Officer

Q&A

Dan Paterson, President & Chief Executive Officer
John Hayslip, M.D., Chief Medical Officer
Mike Crowther, Chief Commercial & Strategy Officer
Dan Calkins, Chief Financial Officer

Opening Remarks

Dan Paterson, President and CEO



Verastem Aims to Deliver First FDA-Approved Treatment Specifically for Recurrent KRAS mutant LGSOC in 2025

Avutometinib + Defactinib Demonstrated Durable Results Across Various Efficacy Measures in Heavily Pretreated Patients in RAMP 201

- 31% Overall ORR, 44% in KRAS mt, 17% in KRAS wt
- 82% of all patients had tumor shrinkage
 - 14.5 months estimated mean DoT, 18.3 months in KRAS mt and 10.7 months in KRAS wt
- 12.9 months median PFS, 22 months in KRAS mt, 12.8 months in KRAS wt
- 10% discontinuation rates due to adverse events

Clear Regulatory Path for KRAS Mutant

- On track to complete the NDA submission in October for recurrent KRAS mutant LGSOC; Pursuing Accelerated Approval with Priority Review
- RAMP 301 enrollment remains on track and will continue enrolling all comers
- Committed to make the combination available to patients with KRAS wild-type in several ways, including a path for regulatory approval

Significant Market Opportunity in Area of High Unmet Need

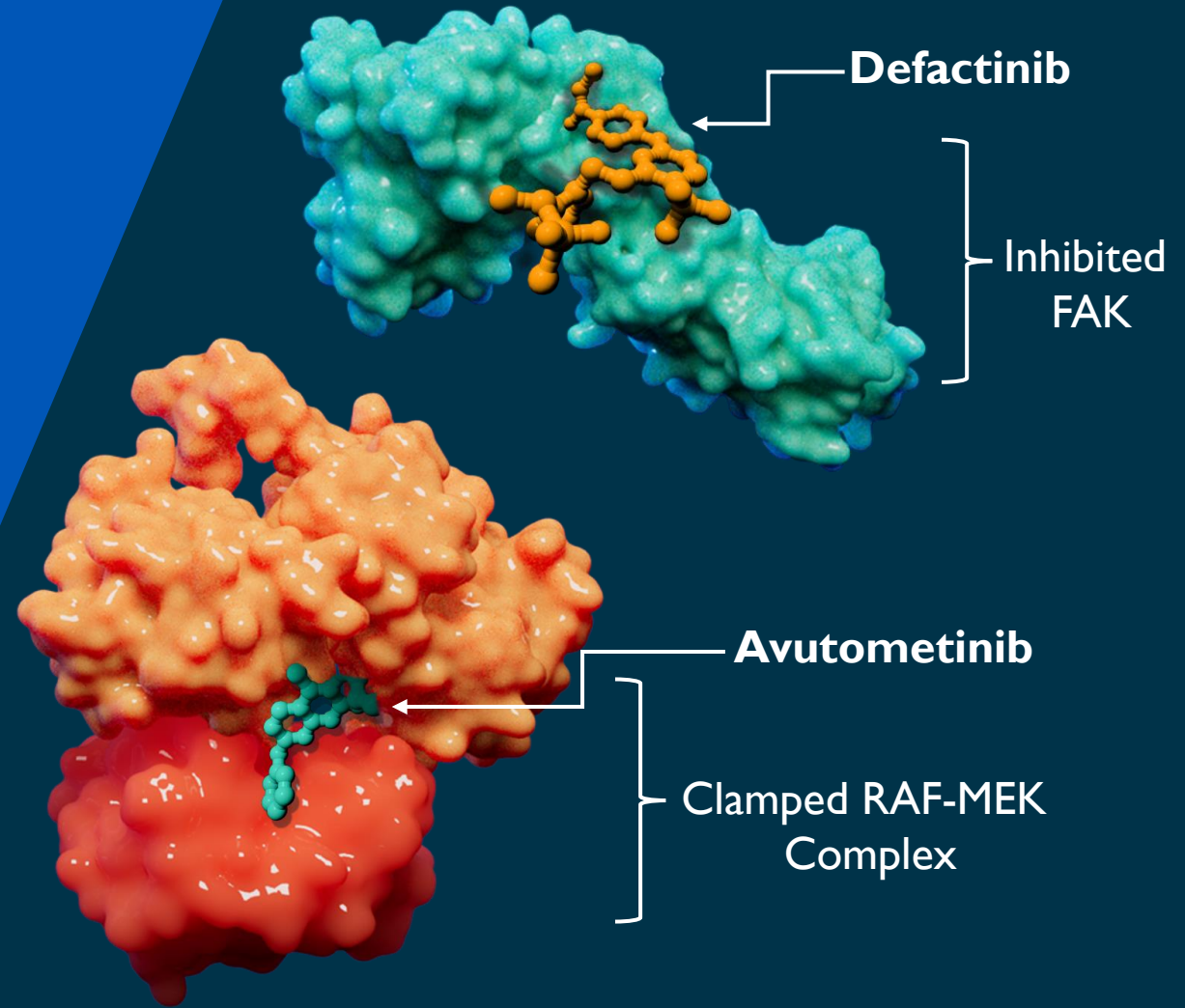
- SoC (Chemo/Hormonal) is associated with low response rates (6-13%) with PFS below 12 months and high discontinuation rates due to toxicity
- Plan to be launch ready in 2025 to maximize market opportunity in recurrent KRAS mutant LGSOC
- Plan to submit RAMP 201 for NCCN guideline review
- NCCN guideline inclusion may enable patients with KRAS wild-type LGSOC to access therapy, if approved

The combination of Avutometinib and Defactinib is an investigational drug. It has not been proven to be safe or effective and has not been approved by FDA or any other comparable regulatory authority.

Source for all data: RAMP 201 data cut off as of June 30, 2024; LGSOC: Low-grade serous ovarian cancer; ORR: Objective Response Rate; KRAS, kirsten rat sarcoma virus; KRAS mt: mutant; KRAS wt: wild-type; PFS: Progression-free Survival; NDA: New Drug Application; SOC: Standard of Care; NCCN: National Comprehensive Cancer Network;

Primary Analysis of the Phase 2 RAMP 201 Trial Evaluating Avutometinib and Defactinib in Recurrent LGSOC

John Hayslip, M.D.,
Chief Medical Officer



High Unmet Need for an Effective & Tolerable Therapy in Recurrent LGSOC

- **U.S. Incidence / Prevalence:** 1k-2k¹ / 6k-8k² / **Worldwide:** 80,000
- Affects **younger population** (20-30s) and disproportionately **impacts health, fertility, and long-term quality of life**^{3,4}
- **80%+ of patients will experience a recurrence**⁵
- **Disease currently managed by NCCN guidelines**, with no FDA approved treatments
- Current SoC **offer poor to moderate response rates** (6-13%) and patients cycle through therapy^{6,7,8}
- **Median OS of ~10 years** from time of diagnosis⁹
 - KRAS mt – ~12 years¹⁰ and KRAS wt – ~7 years¹⁰



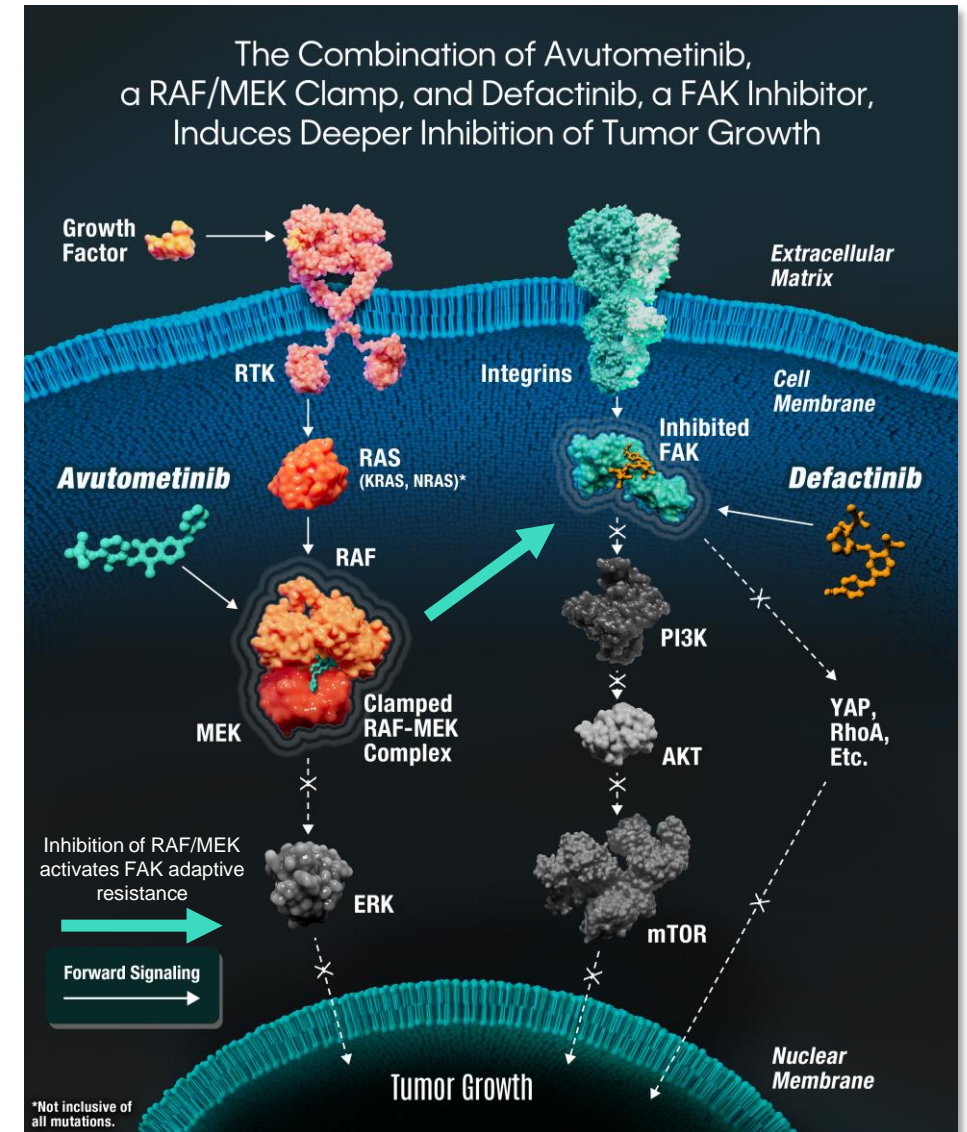
“When you get told that you have a recurrence, the mental load is a lot. You’re thinking, okay, what did I have to do for treatment the first time? Now I have to repeat that. And will there even be something available for me to take for a second, or a third recurrence?”

- Amanda, real patient living with recurrent LGSOC
Diagnosed at 26 with LGSOC

1. Verastem DOF; 13. US Cancer Statistics. Accessed 2024. 3. Slomovitz *Gynecol Oncol* 2020; 4. Manning-Geist B et al. *Clin Cancer Res* 2022;28(20):4456-4465; 5. Babaier 2022/p1/para1/ln6,7; 6. Gershenson *Gynecol Oncol* 2022; 7. Slomovitz *Gynecol Oncol* 2020; 10. Manning-Geist B et al. *Clin Cancer Res* 2022;28(20):4456-4465; 8. Monk 2020/p3758/table2/footnote-b; 9. Banerjee SN). *J Clin Oncol*. 41. No 16_suppl (June 1, 2023) 5515-5515; 10. Calculated using figures in Gershenson *Gynecol Oncol* 2022.

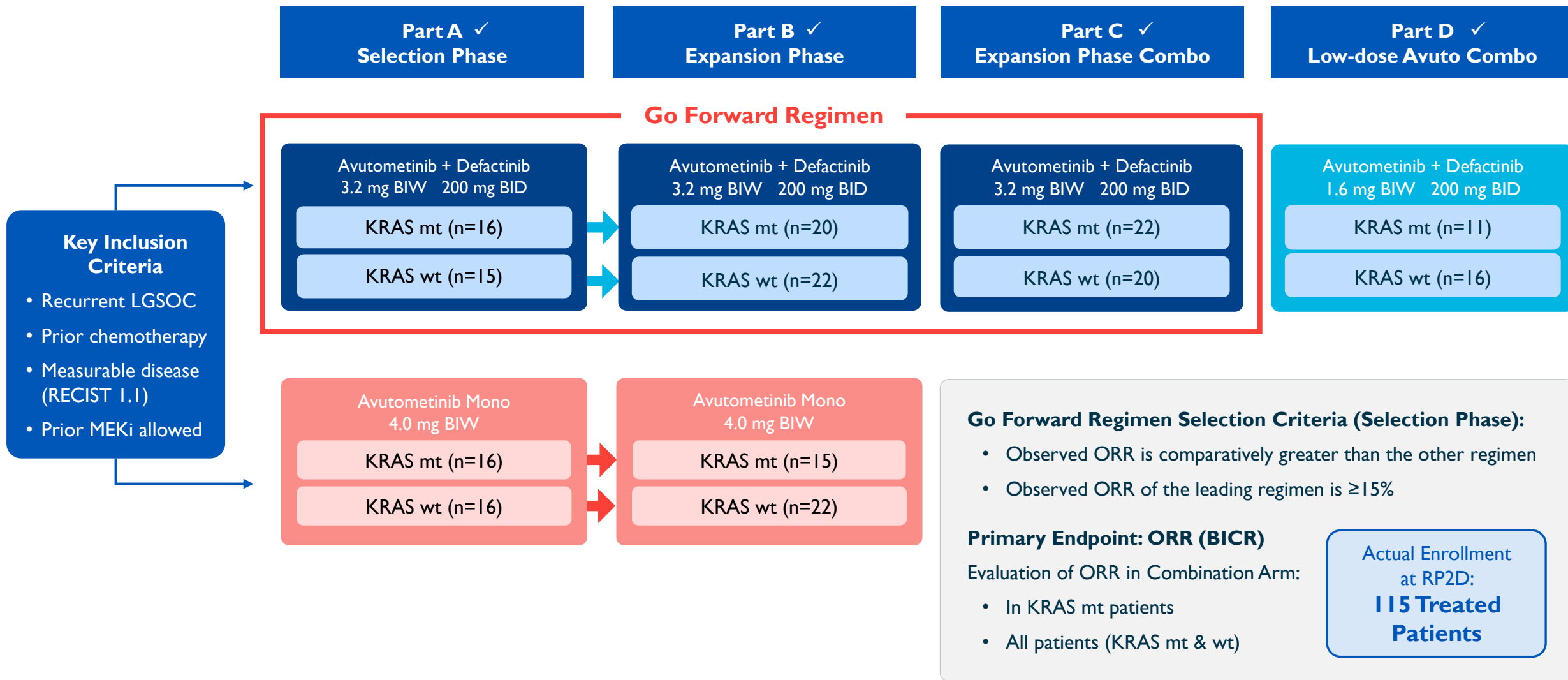
Avutometinib + Defactinib Aims to Inhibit Multiple Resistance Mechanisms in the RAS/MAPK Pathway to Improve Patient Outcomes

- 70% of LGSOC tumors are driven by RAS/MAPK pathway-associated mutations¹⁻⁴
 - 30% are KRAS mutant with other mutations including NRAS, BRAF, NFI, and other RAS pathway-associated gene mutations
- Avutometinib is an oral RAF/MEK clamp that potently inhibits MEK kinase activity while also blocking the compensatory reactivation of MEK by upstream RAF⁵⁻⁷
- FAK is activated in response to MAPK pathway inhibition by avutometinib as well as by RAF inhibitors and MEK-only inhibitors^{8,9}
- Defactinib is an oral selective FAK inhibitor that inhibits parallel pathway signaling and FAK inhibition has been demonstrated to enhance the antitumor efficacy of avutometinib both preclinically and clinically¹⁰⁻¹²
- Together, avutometinib and defactinib has the potential to offer more complete blockade of the signaling that drives the growth of RAS/MAPK pathway-dependent tumors with the objective of deeper and more durable responses



RAMP 201: Registration-Directed Phase 2 Trial of Avutometinib ± Defactinib in Patients with Recurrent LGSOC

RAMP 201 (ENGOT-ov60/GOG-3052)



Avutometinib + Defactinib Demonstrate Durable Results in Efficacy Measures & Low Discontinuation Rates Due to AEs, Regardless of KRAS Status

Primary analysis of entire RAMP 201 dataset supports go-forward regimen as optimal dose

Avutometinib (3.2 mg BIW) + Defactinib (200 mg BID) Regimen Parts A+B+C

ORR: 31% overall

44% in KRAS mt
17% in KRAS wt

DOR at 6 months: 81% overall

87% in KRAS mt
63% in KRAS wt

Median PFS: 12.9 months overall

22.0 months in KRAS mt
12.8 months in KRAS wt

- Patients with more prior regimens (>3) including prior bevacizumab and MEK-only therapy had lower response rates
- The combination was well tolerated allowing for prolonged exposure to therapy
- 10% discontinued due to adverse events

Monotherapy: Avutometinib (4.0 BIW) Part A+B

- Protocol evaluated avutometinib 4 mg monotherapy vs avutometinib 3.2 mg + defactinib combination
- ORR: 17% overall
 - 23% in KRAS mt and 13% in KRAS wt
- Go-Forward Regimen demonstrated higher ORR
- TEAEs leading to D/C was 16%

Low-Dose: Avutometinib (1.6 mg BIW) + Defactinib (200 mg BID) Part D

- Disease progression by 4 months 22% in Low-Dose Part D
 - Disease progression by 4 months 12% with Go-Forward Regimen
- TEAEs leading to discontinuation: 15%
 - Not lower than Go-Forward Regimen

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Source for all data: RAMP 201 data cut off as of June 30, 2024; DOR: Duration of Response; TEAEs: treatment-emergent adverse events; AEs: adverse events

RAMP 201 Enrolled Heavily Pre-treated Patients with a Median of 3 Prior Systemic Regimens

- Most patients received prior platinum-based chemotherapy and endocrine therapy
- 51% of all patients received prior bevacizumab and about 1 in 5 received prior MEK-only inhibitor therapy

RAMP 201: Parts A+B+C Baseline Patient Characteristics	Avutometinib + Defactinib Regimen 3.2 mg BIW + 200 mg BID 3 weeks on / 1 week off*		
	All patients N=115	KRAS mt N=58	KRAS wt N=57
Age (years), Median (min, max)	54 (21, 87)	60 (29, 87)	45 (21, 80)
ECOG PS, n (%)			
0	78 (68)	42 (72)	36 (63)
1	37 (32)	16 (28)	21 (37)
Median number of prior systemic regimens (min, max)	3 (1, 9)	3 (1, 9)	3 (1, 9)
Prior platinum-based chemotherapy, n (%)*	114 (99)	58 (100)	56 (98)
Prior Hormonal therapy, n (%)	99 (86)	49 (84)	50 (88)
Prior Bevacizumab, n (%)	59 (51)	23 (40)	36 (63)
Prior MEK inhibitor therapy, n (%)	25 (22)	12 (21)	13 (23)

In the avutometinib + defactinib group: 77% of patients were White; 4% Asian; 4% Black or African American; 4% other; 11% not reported

Mature Data from RAMP 201 Continues to Show Robust Responses

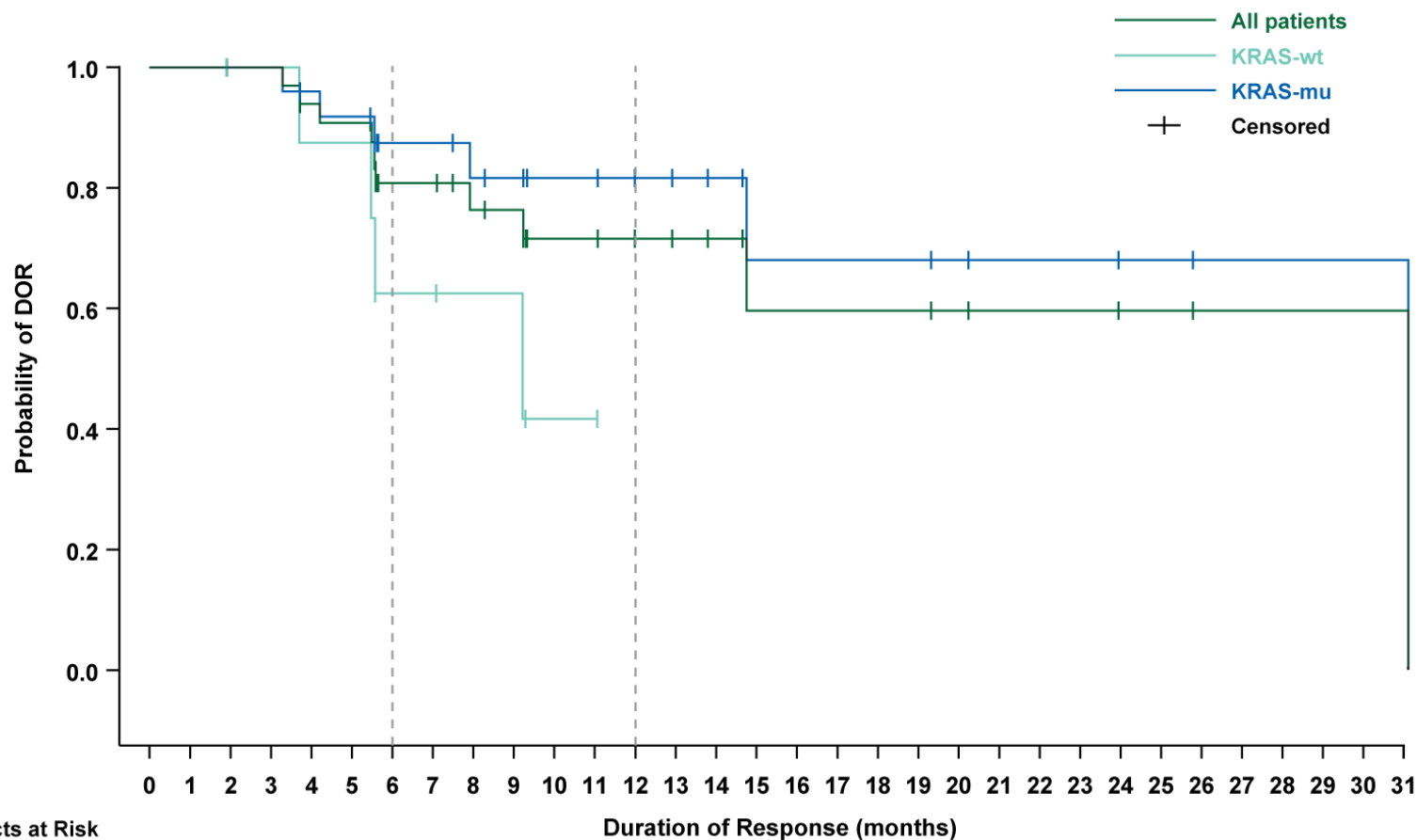
- Overall: **31% ORR** in all evaluable patients
 - **44% ORR in KRAS mt** and **17% ORR in KRAS wt**

Response Rate: Parts A, B, and C	Avutometinib + Defactinib Regimen 3.2 mg BIW + 200 mg BID 3 weeks on / 1 week off		
	All patients N=109	KRAS mt N=57	KRAS wt N=52
Confirmed* ORR, n (%)	34 (31)	25 (44)	9 (17)
CR	2 (2)	2 (4)	0
PR	32 (29)	23 (40)	9 (17)
SD [†] , n (%)	62 (57)	28 (49)	34 (65)
PD, n (%)	9 (8)	2 (4)	7 (13)
Not Evaluable, n (%)	4 (4)	2 (4)	2 (4)

Efficacy evaluable population includes patients who received at least one dose of study drug and had measurable disease at baseline by BICR. Patients not evaluable for response did not have a postbaseline assessment but are included in the denominator for the efficacy evaluable population.

81% of Patients Achieved a Duration of Response of at Least 6 Months

Avutometinib + Defactinib Regimen: Duration of Response



No of Subjects at Risk

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
All patients	34	34	33	33	30	29	20	20	17	16	12	12	9	8	7	5	5	5	5	5	5	4	3	3	3	2	2	1	1	1	1	1	1
KRAS-wt	9	9	8	8	7	7	4	4	3	3	1	1	0																				
KRAS-mu	25	25	25	25	23	22	16	16	14	13	11	11	9	8	7	5	5	5	5	5	5	4	3	3	3	2	2	1	1	1	1	1	1

3.7 MONTHS

Median time to response
(range, 1.7-19.2)

87%

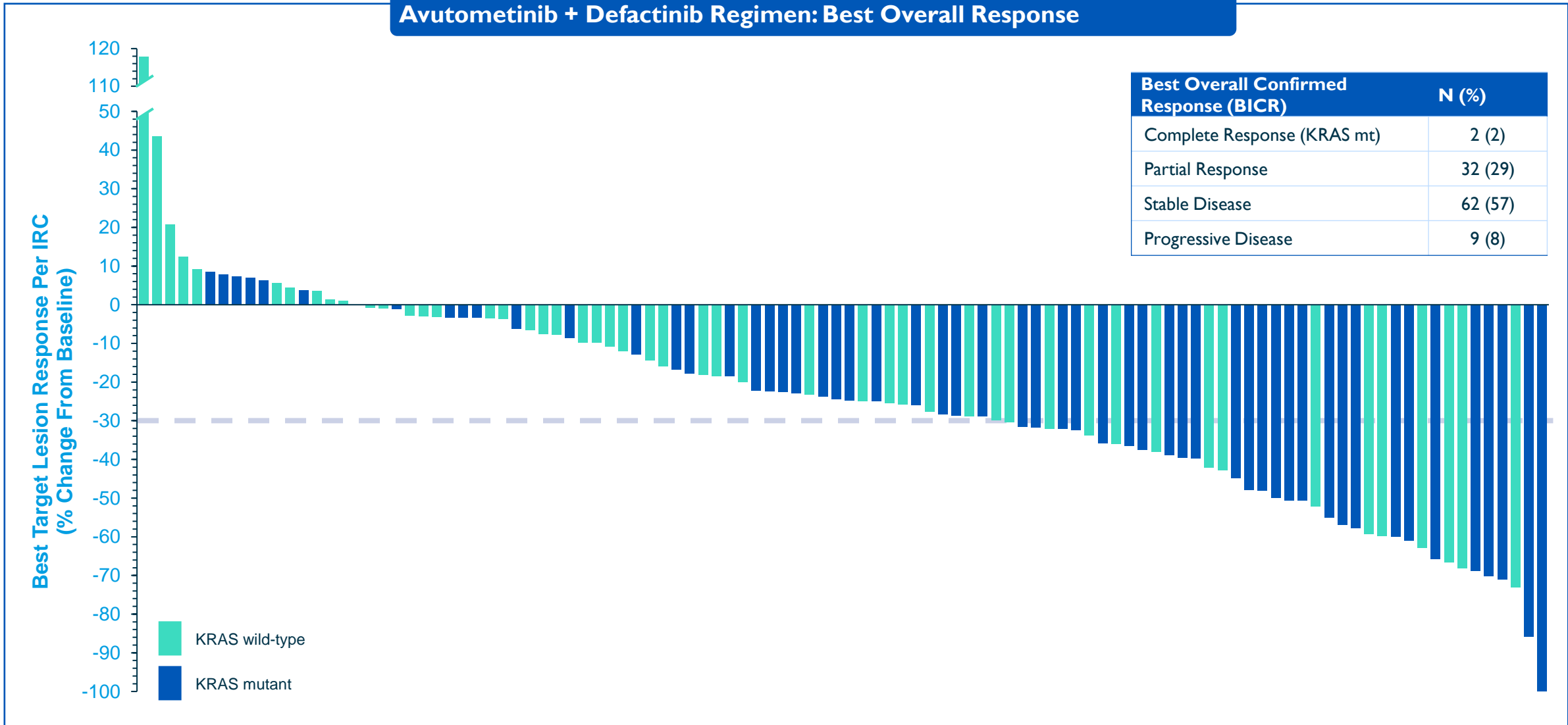
DOR for KRAS mt and
63% for KRAS wt at 6 months

**Avutometinib + Defactinib
3.2 mg BIW + 200 mg BID
3 weeks on / 1 week off**

	All Patients N=34	KRAS mt N=25	KRAS wt N=9
DOR (mo), median (range)	31.1 (14.8, 31.1)	31.1 (14.8, 31.1)	9.2 (5.5, NE)
DOR ≥ 6 mo* (95% CI)	81% (62%, 91%)	87% (66%, 96%)	63% (23%, 86%)
DOR ≥ 12 mo* (95% CI)	72% (54%, 89%)	82% (65%, 98%)	NE

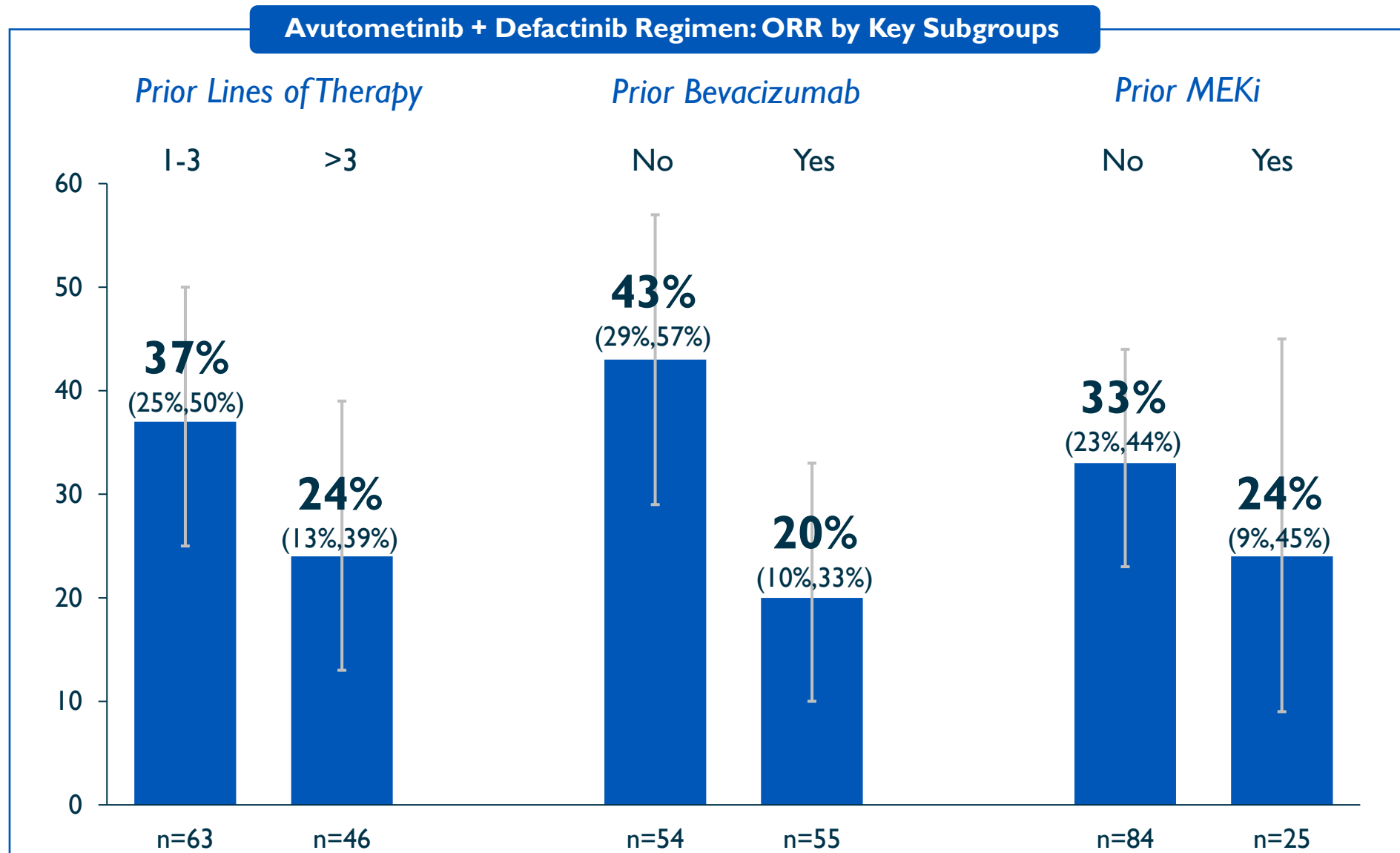
82% of All Patients Had a Reduction in Target Lesions, Regardless of KRAS Status

Avutometinib + Defactinib Regimen: Best Overall Response



Best Overall Confirmed Response (BICR)	N (%)
Complete Response (KRAS mt)	2 (2)
Partial Response	32 (29)
Stable Disease	62 (57)
Progressive Disease	9 (8)

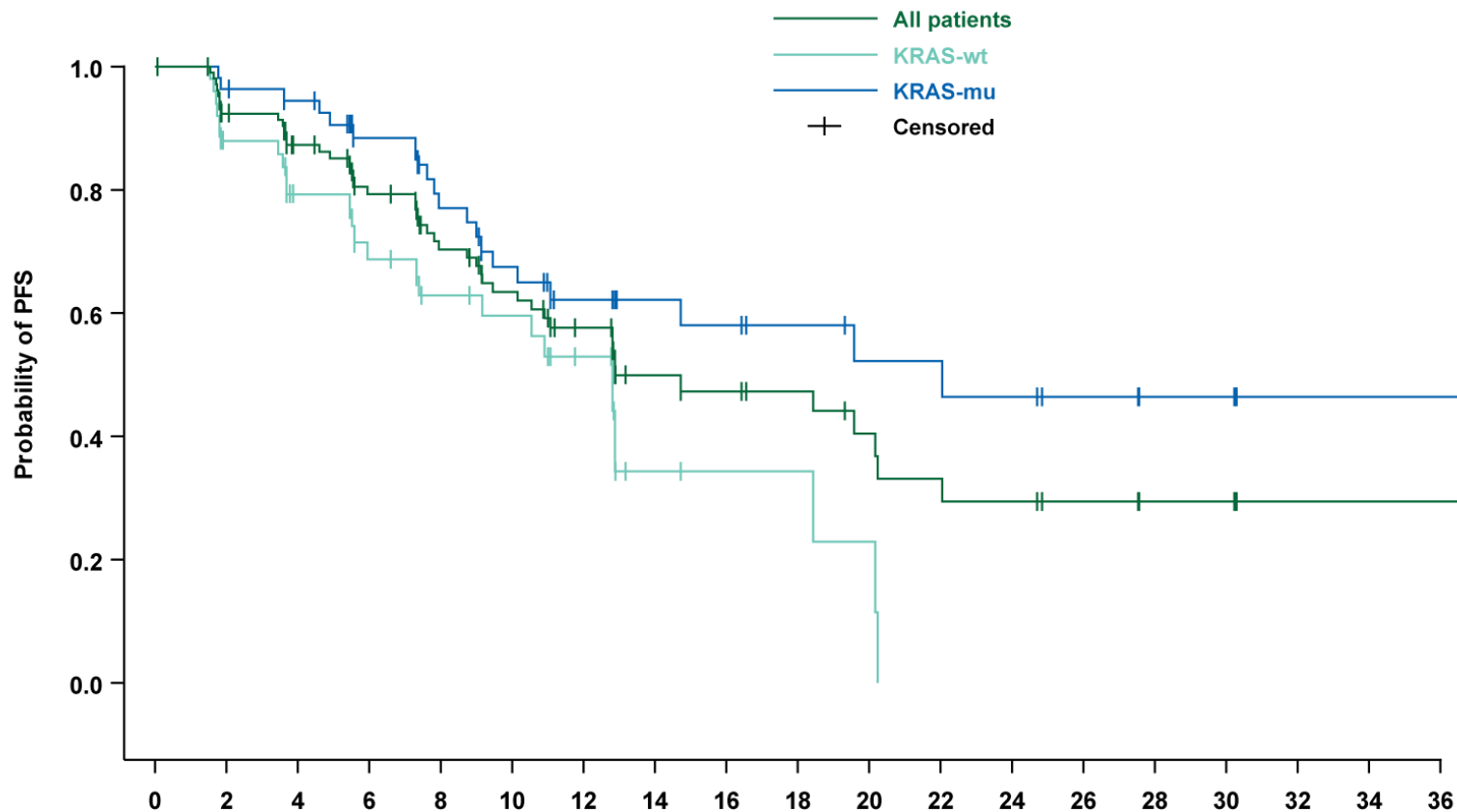
Receiving Avutometinib and Defactinib Earlier in the Course of Therapy was Associated with Higher Rates of Response



Source for all data: RAMP 201 data cut off as of June 30, 2024; Bars show 95% confidence intervals

Patients Achieved an Overall mPFS of 12.9 Months

Avutometinib + Defactinib Regimen: Progression Free Survival (PFS)



No of Subjects at Risk

	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
All patients	109	94	81	66	53	45	32	19	17	15	11	9	8	6	3	3	1	1	1
KRAS-wt	52	41	32	25	20	18	13	4	3	3	2	0							
KRAS-mu	57	53	49	41	33	27	19	15	14	12	9	9	8	6	3	3	1	1	1

At 6 Months

79% OVERALL

88% in KRAS mt and
69% in KRAS wt

At 12 Months

58% OVERALL

62% in KRAS mt and
53% in KRAS wt

PFS, median (95% CI)

Total N=109	KRAS mt N=57	KRAS wt N=52
12.9 mos (10.9, 20.2)	22 mos (11.1, 36.6)	12.8 mos (7.4, 18.4)

Low Discontinuation Rate of 10% Due to Adverse Events, No New Safety Signals

	Avutometinib + Defactinib Regimen 3.2 mg BIW + 200 mg BID 3 weeks on / 1 week off		
	All patients	KRAS mt	KRAS wt
Patients Treated	115	58	57
Patients on Treatment, n (%)	32 (28)	24 (41)	8 (14)
Patients Discontinued Treatment, n (%)	83 (72)	34 (59)	49 (86)
Primary Reason for Discontinuation			
RECIST v1.1 Disease Progression	46 (40)	18 (31)	28 (49)
Adverse Event/Unacceptable Toxicity	12 (10)	4 (7)	8 (14)
Withdrawal of Informed Consent	10 (9)	4 (7)	6 (11)
Other*	10 (9)	5 (9)	5 (9)
Clinical Deterioration	5 (4)	3 (5)	2 (4)
Death	0	0	0

Median follow-up = 13.6 mo (range, 1.4 – 39.5)

Avutometinib Plus Defactinib Continue to Demonstrate a Well-Tolerated Safety Profile

Treatment-Related Adverse Events (>20% of patients)* n (%)	Avutometinib + Defactinib Regimen 3.2 mg BIW + 200 mg BID 3 weeks on/1 week off N= 115	
	All Grades	Grade ≥3
Non-laboratory AEs		
Nausea	77 (67.0)	3 (2.6)
Diarrhea	67 (58.3)	9 (7.8)
Oedema peripheral	61 (53.0)	1 (0.9)
Fatigue	50 (43.5)	3 (2.6)
Vomiting	49 (42.6)	3 (2.6)
Vision blurred	47 (40.9)	0
Rash	41 (35.7)	2 (1.7)
Dermatitis acneiform	39 (33.9)	5 (4.3)
Dry skin	30 (26.1)	0
Anemia	26 (22.6)	6 (5.2)
Laboratory-related AEs		
Increased blood CPK	69 (60.0)	28 (24.3)
Increased blood bilirubin increased/ hyperbilirubinemia	38 (33.0)	5 (4.3)
AST increased	36 (31.3)	2 (1.7)

Severe adverse events are generally uncommon and typically managed by a treatment pause

10% (12/115) discontinued for AEs (any cause); most common increased CPK (n=4)

80% (92/115) had AEs leading to dose interruption

- 38% (44/115) for elevations in CPK

36.5% (42/115) had AEs leading to dose reduction

- Mean relative dose intensity of 0.84 for avutometinib and 0.77 for defactinib

7% (8/115) of patients had serious AEs considered by the investigator to be related to study treatment: the only event occurring in more than 1 patient was abdominal pain

4 deaths (within 30 days of discontinuation) but were not considered related to the study treatment:

- GI hemorrhage, large intestine perforation, clinical progression, clinical deterioration

Avutometinib Monotherapy Provided Lower Rate of Response

- Patients enrolled had comparable baseline characteristics as patients randomized to avutometinib plus defactinib regimen
 - Median of 3 prior lines of therapy, 49% had prior bevacizumab, 26% had prior MEKi
- ORR: 17% in all patients, 23% KRAS mt and 13% KRAS wt
- TEAEs leading to D/C: comparable between monotherapy (16%) and combination (10%)

	Avutometinib Monotherapy 4.0 mg BIW 3 weeks on / 1 week off		
	All patients N=69	KRAS mt N=30	KRAS wt N=39
Confirmed* ORR, n (%)	12 (17)	7 (23)	5 (13)
CR	1 (1)	1 (3)	0
PR	11 (16)	6 (20)	5 (13)
SD [†] , n (%)	43 (62)	17 (57)	26 (67)
PD, n (%)	7 (10)	3 (10)	4 (10)
Not Evaluable, n (%)	7 (10)	3 (10)	4 (10)

Low-Dose Regimen (Part D) Determined to be Suboptimal Based on Pre-Defined Analysis

Low-dose regimen will not be pursued as a starting dose in the treatment of recurrent LGSOC

- Patients enrolled in Part D had comparable baseline characteristics as patients randomized to the avutometinib plus defactinib regimen
 - Median of 3 prior lines of therapy, 40% had prior bevacizumab, 37% had prior MEKi
- Suboptimal threshold: disease progression by 2nd scheduled assessment (Cycle 5 Day 1) >50% higher than that observed with avutometinib 3.2 mg BIW + defactinib
- TEAEs leading to D/C: comparable between 3.2 mg dose (10%) and 1.6 mg dose (15%)

IRC Assessment	Avutometinib 3.2 mg + 200 mg Defactinib Regimen 3 weeks on / 1 week off N=109	Avutometinib 1.6 mg + 200 mg Defactinib 3 weeks on / 1 week off N=23	% Difference
RECIST v1.1 Progressive Disease within 4 months	13 (12%)	5 (22%)	+83%

RAMP 301: First Randomized Prospective Study to Fully Characterize KRAS Status of all Enrolled LGSOC Patients

RAMP 301: Phase 3 International Confirmatory Trial

- Patients enrolling is similar to patient population in RAMP 201, with recurrent KRAS mt and KRAS wt LGSOC; prior MEKi and bevacizumab use allowed and post one line of platinum chemotherapy
 - Primary Endpoint: PFS
- Stratification Factors: KRAS mutation status (wt vs. mt)
- Investigator choice of treatment
 - May crossover to avutometinib + defactinib arm upon BICR-confirmed PD
- Study sites include the U.S., Australia, UK, Canada, and Europe

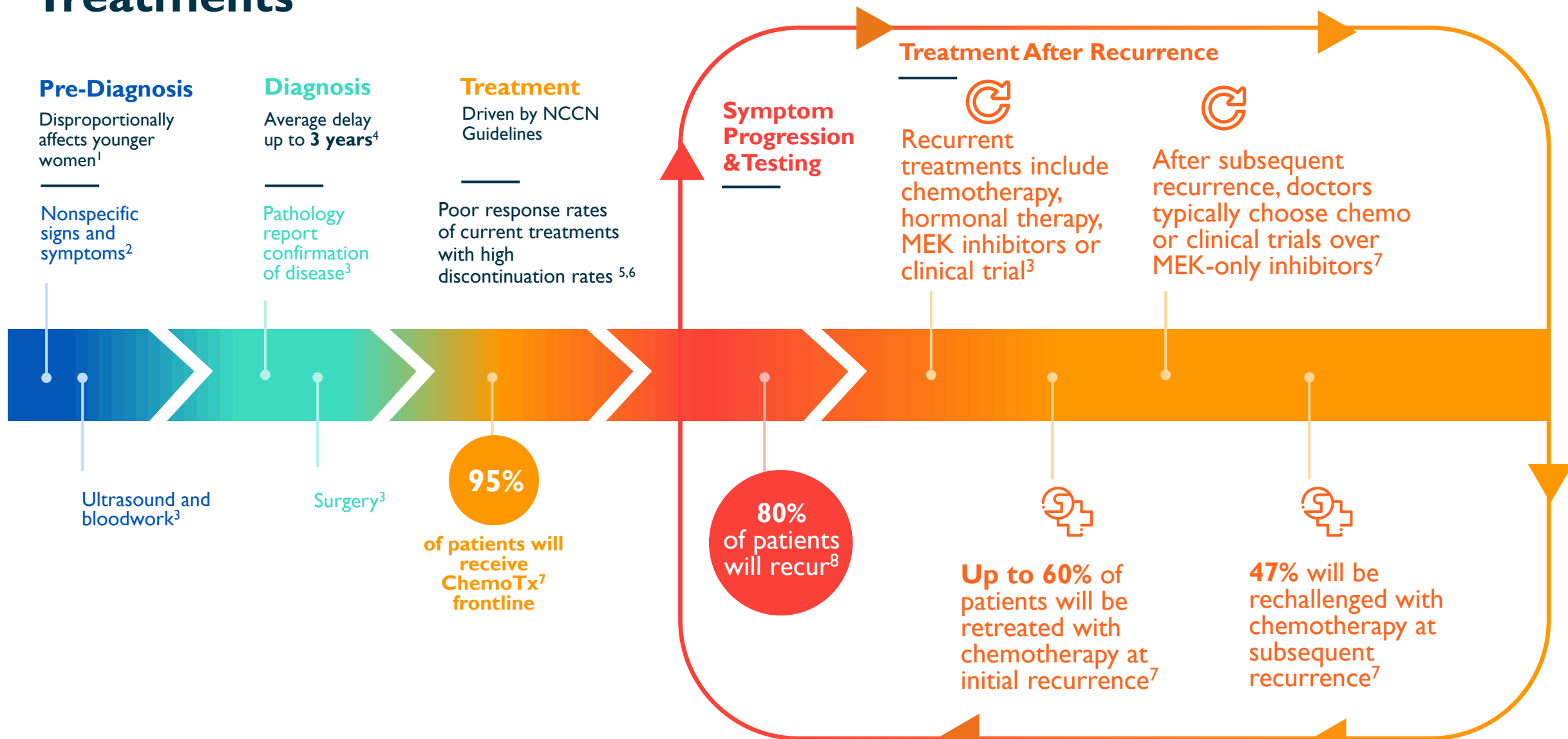
Enrollment is on track, targeting full enrollment by end of 2025

Changing the Treatment Paradigm in Recurrent LGSOC

Mike Crowther
Chief Commercial and Strategy Officer



80% of Patients with LGSOC Recur and Often Cycle Through Treatments



1. B. Slomovitz, C. Gourley, M.S. Carey, et al., Low-grade serous ovarian cancer: State of the science, *Gynecologic Oncology*, <https://doi.org/10.1016/j.ygyno.2019.12.033>; 2. Harvard Health 2017. <https://www.health.harvard.edu/cancer/certain-symptoms-may-be-early-signs-of-ovarian-cancer>. Assessed October 8, 2024; 3. NCCN Clinical Practice Guidelines in Oncology. (NCCN Guidelines®) for Ovarian Cancer Including Fallopian Tube Cancer and Primary Peritoneal Cancer V. 3.2024; 4. LGSOC Patient Impact Survey Research Findings, Harris Poll 2023. <https://www.businesswire.com/news/home/20231107926726/en/>; 5. Monk BJ et al. *J Clin Oncol* 2020 (MLO); 6. Gershenson DM et al. *Lancet* 2022 (GOG 281); 7. Verastem DOF. Demand Study March 2024.; 8. Gershenson et al *J Clin Oncol* 2015.

Current Available Therapies Offer Relatively Poor Response Rates, High Discontinuation Rates

- These studies started in 2013 and 2014
- Both MILO and GOG studies had low historical use of bevacizumab during trial conduct; % not reported
- Mutation category is KRAS/BRAF/NRAS rather than just KRAS for GOG 281
 - In both studies, not all patients had mutation status available
- In the MILO study no more than 3 lines of prior chemotherapy
- No prior MEK was allowed in either GOG 281 or MILO
- The number of prior systemic therapies median (range) were 2 (1-10) in GOG 281 and 2 (1-8) in MILO

Trial	Therapy	Image assessment	Response Rate ORR	ORR KRAS mt	ORR KRAS wt	Median PFS Months (95% CI)	mPFS KRAS mt	mPFS KRAS wt	Discontinuation Rate due to AEs
GOG 281 ¹	SoC (n=130) (n=22 KRAS/NRAS/ BRAF mt; n=42 KRAS/NRAS/ BRAF wt)	INV	6% 95% CI: (3%, 12%)	9.1%, 95% CI: (1.9%, 26.1%)	7.1%, 95% CI: (2.1%, 17.9%)	7.2 (5.6-9.9)	11.4 95% CI: (3.7, 13.3)	6.3 95% CI: (3.7, 9.9)	30%
	Trametinib (n=130) (n=22 KRAS/NRAS/ BRAF mt; n=42 KRAS/NRAS/ BRAF wt)	INV	26% 95% CI: (19%, 35%)	50%, 95% CI: (30.2%, 69.8%)	8.3%, 95% CI: (2.9%, 18.6%)	13.0 (9.9-15.0)	13.2 95% CI: (9.4, 20.8)	7.3 95% CI: (5.6, 12.7)	36%
MILO ²	SoC (n=101) (n=24 KRAS mt; n=42 KRAS wt)	BICR	13% 95% CI: (7%, 21%)	33%, 95% CI: (16%, 55%)	19% (8.6%, 34%)	10.6 (9.2 - 14.5)	14.6 (9.4, NA)	11.5 (5.7, 26.6)	17%
	Binimetinib² (n=198) (n=45 KRAS mt; n=90 KRAS wt)	BICR	16% 95% CI: (11%, 22%)	44%, 95% CI: (30%, 60%)	19%, 95% CI: (11%, 29%)	9.1 (7.3-11.3)	17.7 (12, NR)	10.8 (5.5, 16.7)	31%

Avutometinib + Defactinib Combo Has the Potential to Address Key Treatment Needs

To date, avutometinib + defactinib combination data in recurrent LGSOC show¹:



Clinically meaningful response rates and durable benefit in both KRAS mutant and wild-type tumors



Long progression-free survival and duration of treatment



Favorable tolerability profile, supported by novel intermittent dosing schedule, with oral treatments²



Low discontinuation rates due to adverse events

LGSOC Represents a Significant Market Opportunity

Total Addressable Market Opportunity	KRAS mutant – Initial Launch	KRAS wild-type
Estimated Annual Incident Addressable Opportunity ¹	\$300M+	\$374M+
Incident Population ²	~500	~1,000
Avg. Duration of Therapy ³	18 months	11 months
Estimated Prevalent Addressable Opportunity ¹ (Target to Address in First 3-5 Years)	\$1.7B+	\$1.6B+
Prevalent Population ²	~2,800	~4,200
Avg. Duration of Therapy ³	18 months	11 months

Anticipate high market penetration in LGSOC KRAS mt population given:

- No FDA approved therapies for LGSOC





Plan to address prevalent population over 3-5 years from launch:

- Patients cycle through therapies
 - Median of 3 prior therapies in RAMP 201
- Long overall survival in LGSOC patients at ~10 years
 - KRAS mt – ~12 years
 - KRAS wt – ~7 years

1. Estimated total addressable market opportunity based on incident / prevalent populations, average duration of therapy (as observed in VSTM clinical trials) and cost of therapy of \$34,000 per month, consistent with other recent oncology drug launches (e.g. OJEMDA - \$33,916 OGSIVEO - \$29,000; www.dayonebio.com/wp-content/uploads/Ojemda-Connecticut_VF.pdf; www.hhs.texas.gov/sites/default/files/documents/apr-2024-durb-agenda-item8d.pdf) 2. Verastem DOF – Based on 30% KRAS mt and 70% KRAS wt in incident population assumed of 1,500 annually and 40% KRAS mt and 60% KRAS wt (calculation on file based on weighted average longer overall survival in KRAS mt compared to KRAS wt) initial prevalent population of 7,000; 3. RAMP 201 data cutoff as of June 30, 2024

Current Treatments on NCCN Guidelines

- Plan to submit RAMP 201, inclusive of entire patient population, for publication and NCCN consideration
- There are no FDA-approved treatments and no standard sequencing of drugs for recurrent disease

	NCCN Category 1	NCCN Category 2a	NCCN Category 2b	NCCN Category 3
General % Commercial Payer Coverage				
Recurrent LGSOC Treatment NCCN Recommendations and Contemporary Clinical Data in LGSOC	No category 1 recommendation	<p>Hormonal therapy (e.g., Anastrozole, Letrozole) & chemotherapy</p> <ul style="list-style-type: none"> • 6-13% ORR and 17-30% discontinuation rate due to AEs • Based on GOG 281 and MILO studies <hr/> <p>Trametinib (2-4% U.S. utilization rate¹)</p> <ul style="list-style-type: none"> • 13 months PFS, 95% CI: (9.9-15.0) vs SoC • 26% ORR based on INV assessment of comparator arm of all patients not BICR • 36% discontinuation rate due to AEs • Based on GOG 281² 	<p>Binimetinib</p> <ul style="list-style-type: none"> • Study stopped due to futility • PFS 12.5 vs 11.6 (HR 0.87) • 16% ORR based on BICR of comparator arm and 31% discontinuation rate due to AEs • Based on MILO study³ 	

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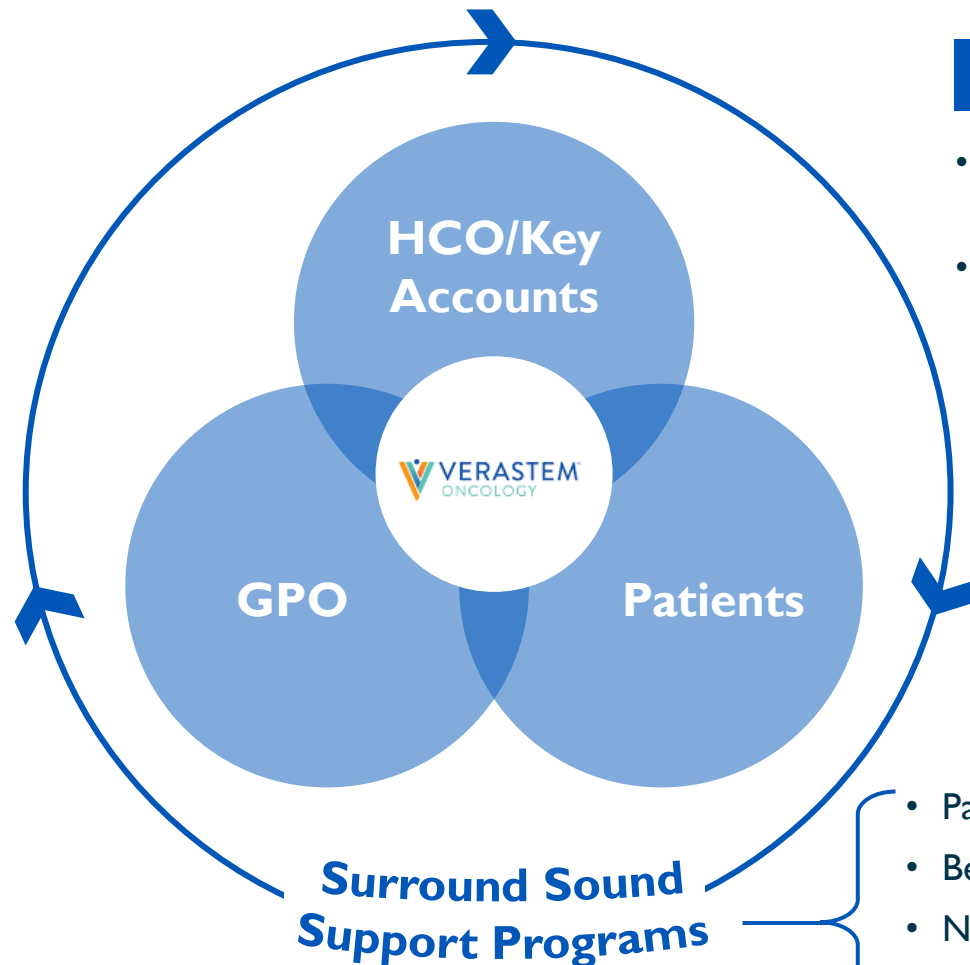
Efficiently Scaled Launch Model to Deliver Best-in-Class Launch for Recurrent KRAS mutant LGSOC

HCO/Key Account Focus

- Top 100 commercial HCOs contribute 49.4% of patient claims¹
- ~400 HCPs manage these patients¹
- Deploy lean, focused field team (14-18 reps) for access, scientific exchange, and sales

GPO/Large Affiliated Practices

- Ensuring inclusion in all relevant pathways and EMR systems
- Access is based on group provided programs and/or opportunities



Patient Focused

- YTD more than 2,300 patients have registered on disease education website²
- Robust program for ongoing education and resources



- Patient support and access programs
- Best-in-class multichannel marketing
- NPP pull through and reinforcement to targeted customers and white space territories
- Inside Sales Reps will bolster Field Force efforts

Potential to Change Treat Paradigm and Improve Patient Outcomes



1k-2k incidence with a prevalence of 6k-8k; **potential for high market penetration in KRAS mutant** at launch enriching overtime with the prevalent patient population



Current available therapies offer limited efficacy, relatively high discontinuation rates due to AEs; **no FDA-approved therapies and no active promotion**



NCCN guidelines help to drive treatment decision; will submit entire RAMP 201 dataset for NCCN consideration



Avutometinib in combination with defactinib is differentiated on multiple efficacy measures, relatively low rates of discontinuation due to AEs and favorable tolerability



Efficiently scaled launch model to deliver best-in-class launch for recurrent KRAS mutant LGSOC

Closing Remarks

Dan Paterson, President and CEO



Verastem Aims to Deliver First FDA-Approved Treatment Specifically for Recurrent KRAS mutant LGSOC in 2025

Avutometinib + Defactinib Demonstrated Durable Results Across Various Efficacy Measures in Heavily Pretreated Patients in RAMP 201

- 31% Overall ORR, 44% in KRAS mt, 17% in KRAS wt
- 82% of all patients had tumor shrinkage
 - 14.5 months estimated mean DoT, 18.3 months in KRAS mt and 10.7 months in KRAS wt
- 12.9 months median PFS, 22 months in KRAS mt, 12.8 months in KRAS wt
- 10% discontinuation rates due to adverse events

Clear Regulatory Path for KRAS Mutant

- On track to complete the NDA submission in October for recurrent KRAS mutant LGSOC; Pursuing Accelerated Approval with Priority Review
- RAMP 301 enrollment remains on track and will continue enrolling all comers
- Committed to make the combination available to patients with KRAS wild-type in several ways, including a path for regulatory approval

Significant Market Opportunity in Area of High Unmet Need

- SoC (Chemo/Hormonal) is associated with low response rates (6-13%) with PFS below 12 months and high discontinuation rates due to toxicity
- Plan to be launch ready in 2025 to maximize market opportunity in recurrent KRAS mutant LGSOC
- Plan to submit RAMP 201 for NCCN guideline review
- NCCN guideline inclusion may enable patients with KRAS wild-type LGSOC to access therapy, if approved

The combination of Avutometinib and Defactinib is an investigational drug. It has not been proven to be safe or effective and has not been approved by FDA or any other comparable regulatory authority.

Source for all data: RAMP 201 data cut off as of June 30, 2024; LGSOC: Low-grade serous ovarian cancer; ORR: Objective Response Rate; KRAS, kirsten rat sarcoma virus; KRAS mt: mutant; KRAS wt: wild-type; PFS: Progression-free Survival; NDA: New Drug Application; SOC: Standard of Care; NCCN: National Comprehensive Cancer Network;

Planned Near-Term LGSOC Commercial Launch, Followed by Meaningful Catalysts to Expand Into Larger, Underserved Patient Populations

Program	Anticipated Milestones & Activities
Avutometinib + Defactinib in Recurrent Low-grade Serous Ovarian Cancer (LGSOC)	<ul style="list-style-type: none"> <input type="checkbox"/> Plan to complete rolling NDA in October 2024 <input type="checkbox"/> Plan to announce mature data from RAMP 201 in October 2024 at IGCS Annual Meeting <input type="checkbox"/> Potential FDA approval in recurrent KRAS mutant LGSOC in 2025 • Continue site activations and patient enrollment in international Phase 3 confirmatory study
Avutometinib + Defactinib + SOC in First-Line Metastatic Pancreatic Cancer	<ul style="list-style-type: none"> • Continue RAMP 205 study follow up on all dose cohort levels to determine RP2D go forward regimen <input type="checkbox"/> Plan to present updated results from RAMP 205 in Q1 2025
Avutometinib ± Defactinib + KRAS G12C Inhibitors: mKRAS G12C Non-small Cell Lung Cancer (NSCLC)	<ul style="list-style-type: none"> <input type="checkbox"/> Expect to report updated interim data in H2 2024 from RAMP 203 NSCLC trial evaluating avutometinib plus defactinib with Amgen's KRAS G12C inhibitor, sotorasib <input type="checkbox"/> Expect to report initial interim data in H2 2024 from RAMP 204 NSCLC trial evaluating avutometinib with Mirati Therapeutics (Bristol Myers Squibb (BMS)) KRAS G12C inhibitor, adagrasib
GenFleet's GFH375/VS-7375, KRAS G12D (ON/OFF) Inhibitor	<ul style="list-style-type: none"> • GenFleet plans to continue to enroll patients into Phase I/2 trial for GFH375/VS-7375 in China in patients with KRAS G12D-mutated advanced solid tumors <input type="checkbox"/> Plan to prepare for potential US IND for GFH375/VS-7375 by early 2025 <input type="checkbox"/> Initial data readout of GFH375/VS-7375 study in China expected in 2025 • Ongoing discovery/lead optimization for second and third programs

Thank you to all the patients,
their families, and the site
investigators and staff that
worked on RAMP 201.



Q&A

