

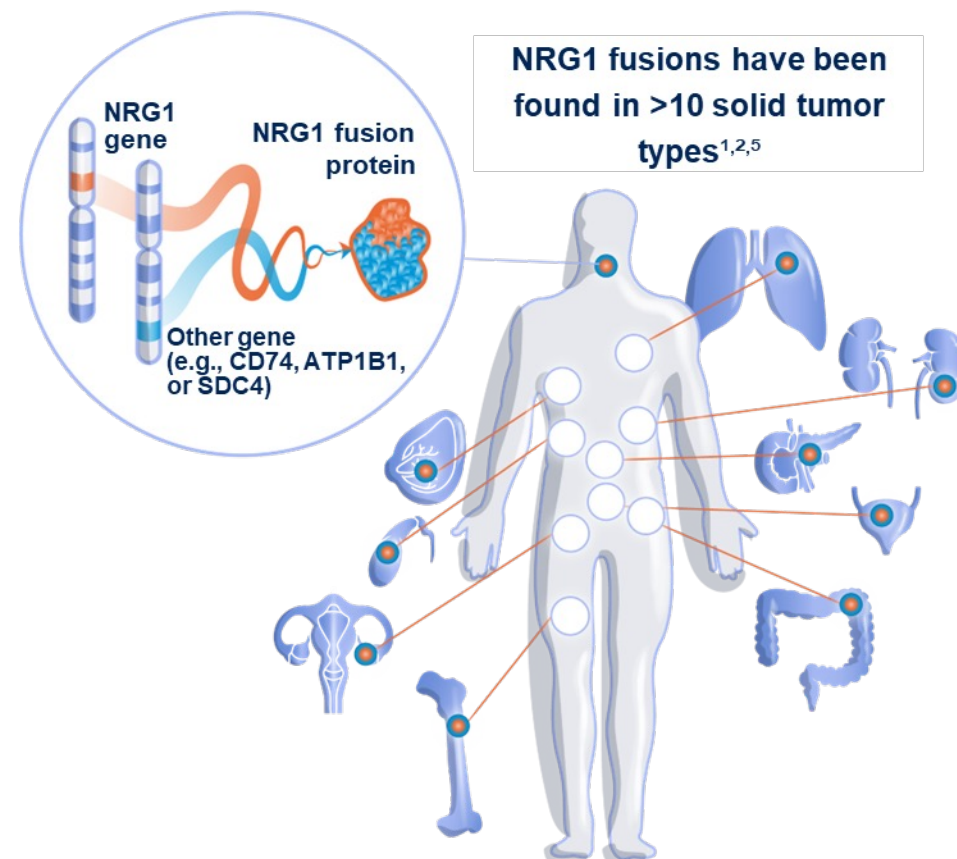
CRESTONE: Initial Efficacy and Safety of Seribantumab in Solid Tumors Harboring NRG1 Fusions

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NRG1 Gene Fusions in Solid Tumors

- NRG1 gene fusions are:
 - Rare genomic alterations resulting from the fusion of NRG1 with a partner gene¹
 - NRG1 fusion proteins bind to and activate HER3¹
 - Often mutually exclusive of other known oncogenic alterations²⁻⁴
 - Found in 0.2% of all solid tumors;
 - Enrichment has been observed in KRAS wild-type PDAC and invasive mucinous adenocarcinoma of the lung³⁻⁶
- Due to the large intronic regions of the gene fusion, RNA-based sequencing is the gold standard for detecting NRG1 fusions⁶⁻⁸
- Patients with tumors harboring an NRG1 fusion have poor outcomes with standard therapies, including chemotherapy and immunotherapy^{3,9}
- There are currently no approved targeted therapies for tumors harboring NRG1 fusions^{6,10}

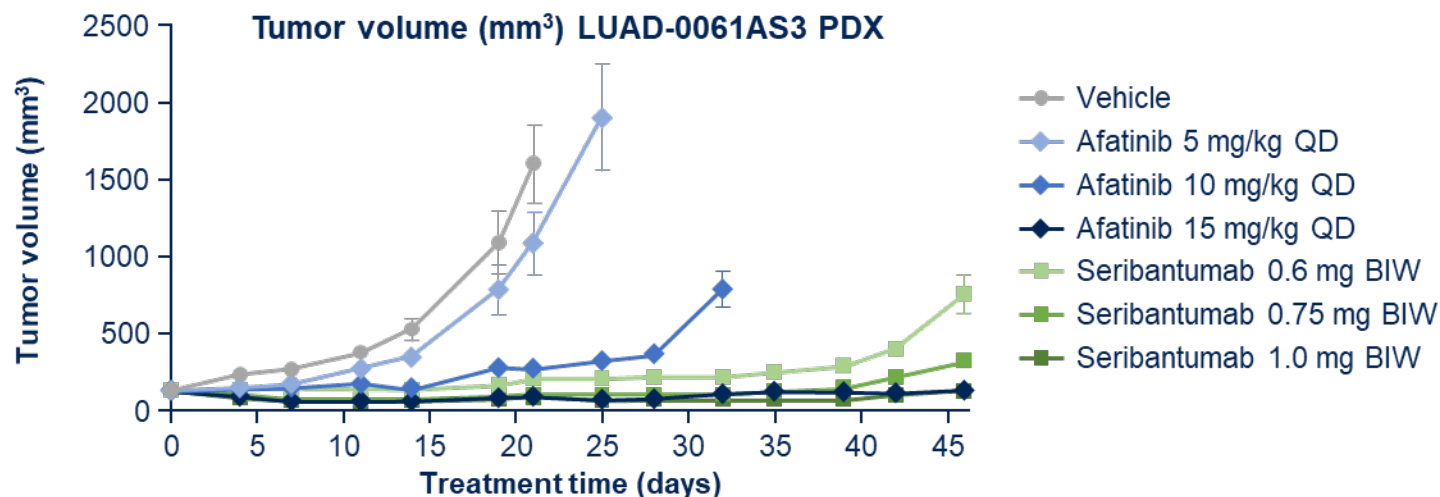
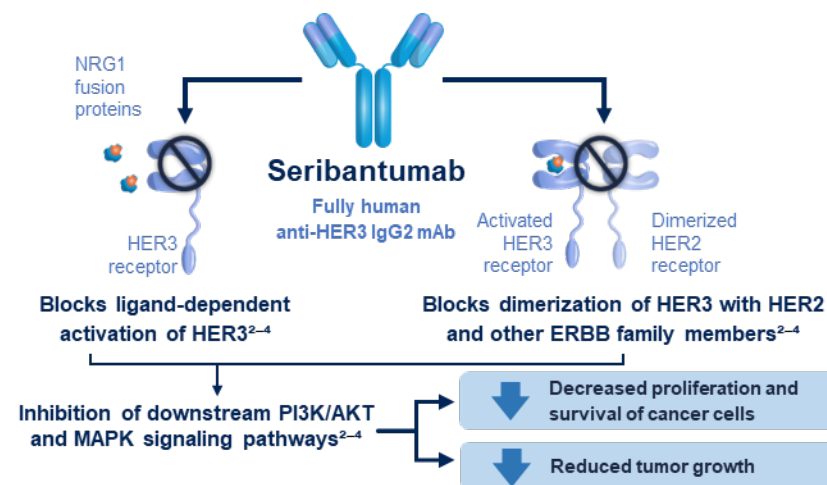


NRG1, neuregulin-1; PDAC, pancreatic ductal adenocarcinoma

Sources: 1. Jonna S et al. *Clin Cancer Res.* 2019;25:4966–4972; 2. Drilon A et al. *Cancer Discov.* 2018;8:686–695; 3. Chang JC et al. *Clin Cancer Res.* 2021;27:4066–4076; 4. Jones MR et al. *Clin Cancer Res.* 2019;25:4674–4681; 5. Jonna S et al. *J Clin Oncol.* 2020;38(15_suppl):3113–3113; 6. Laskin J et al. *Ann Oncol.* 2020;31:1693–1703; 7. Russo A et al. *Precis Cancer Med.* 2020;3:14; 8. Liu S. *Lung Cancer.* 2021;158:25–28; 9. Drilon A et al. *J Clin Oncol.* 2021;39:2791–2802; 10. Lyu H et al. *Acta Pharm Sin B.* 2018;8:503–510.

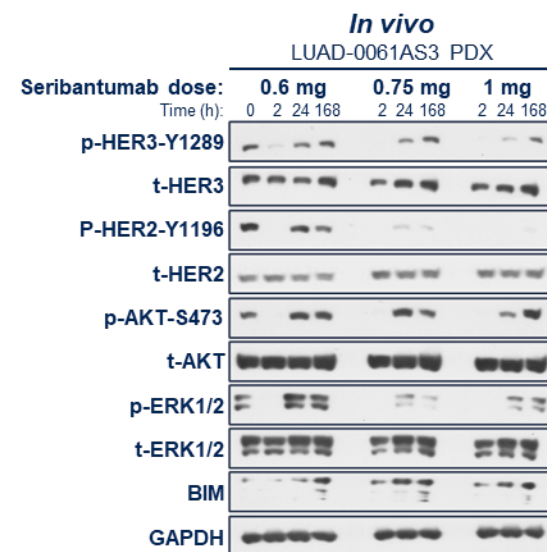
Seribantumab Inhibits NRG1 Fusion Tumor Growth

- Seribantumab is a fully human anti-HER3 IgG2 monoclonal antibody^{1,2}
 - Competes with NRG1 to bind to HER3^{2,4}
 - Prevents dimerization and phosphorylation of HER3 with other HER family members²⁻⁴
 - Inhibits downstream PI3K/AKT and MAPK/ERK pathways to inhibit tumor cell growth and proliferation²⁻⁴
- Seribantumab inhibited tumor growth and induced tumor regression in preclinical models at clinically achievable concentrations⁴

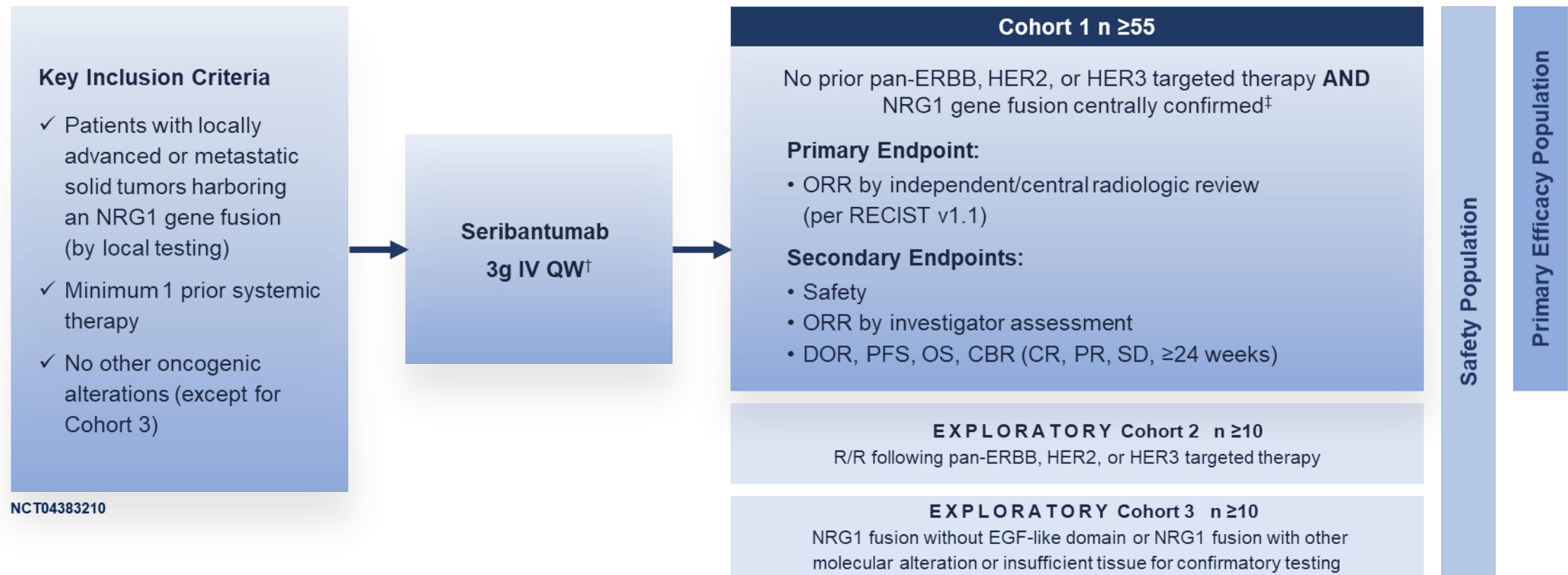


Seribantumab is under investigation in a clinical trial and has not been approved by the FDA for any indication
 LUAD, lung adenocarcinoma; PDX, patient-derived xenograft

Sources: 1. Schoeberl B et al. *Sci Signal.* 2009;77:1-14; 2. Schoeberl B et al. *Cancer Res.* 2010;70:2485-2494; 3. Schoeberl B et al. *NPJ Syst Biol Appl.* 2017;3:16034; 4. Odinstov I et al. *Clin Cancer Res.* 2021;27:3154-3166.



CRESTONE: A Phase 2 Study of the Anti-HER3 mAb Seribantumab in Solid Tumors with NRG1 Fusions



[†]A safety run-in phase evaluated seribantumab as induction, consolidation, and maintenance dosing; seribantumab 3g QW selected as the optimized RP2D for patients with solid tumors harboring an NRG1 fusion. Patients from the safety run-in who transitioned to 3g QW after induction/reinduction will be included in the primary efficacy analysis per the SAP;

[‡]Patients are enrolled and treated based on local NRG1 fusion testing result with post-enrollment confirmation by central RNA-based NGS assay.

Patient Demographics and Disease Characteristics

Demographic	Cohort 1 [†] (N=15)	Safety Population [‡] (N=35)
Age		
Median (range)	61 (44, 76)	65 (19, 76)
Sex; n (%)		
Female	10 (67)	24 (69)
Male	5 (33)	11 (31)
Race; n (%)		
American Indian or Alaska Native	1 (7)	1 (3)
Asian	2 (13)	7 (20)
Black or African American	2 (13)	3 (9)
White	10 (67)	23 (66)
Other	0	1 (3)
ECOG PS; n (%)		
0	5 (33)	18 (51)
1	10 (67)	17 (49)
2	0	0

[†]Includes patients in Cohort 1 who received the optimized RP2D of seribantumab 3g QW including patients in the safety run-in who received seribantumab 3g QW beyond induction/reinduction; [‡]Includes all patients who received at least 1 dose of seribantumab in all cohorts; [§]Colon, endometrial, esophagus, and head and neck; ^{||}BAG4, FUT10, IL1RL2, ITGB1, POMK, PTN, RBPMS, RNF169, TMPRSS3, VTCN1; [^]Required for Cohort 1 only post-enrollment; ^{^^}Central RNA-based NGS assay pending/quality not sufficient for testing/results not available. Note: Percentages may not add up to 100% due to rounding

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Disease Characteristic	Cohort 1 [†] (N=15)	Safety Population [‡] (N=35)
Primary Tumor Type; n (%)		
Biliary Tract/cholangiocarcinoma	0	2 (6)
Breast	0	4 (11)
NSCLC	14 (93)	20 (57)
Pancreas	1 (7)	5 (14)
Other [§]	0	4 (11)
NRG1 Fusion Partners; n (%)		
ATP1B1	1 (7)	2 (6)
CD74	6 (40)	11 (31)
SDC4	2 (13)	2 (6)
SLC3A2	5 (33)	6 (17)
AGRN	0	2 (6)
APP	0	2 (6)
Other	1 (7)	10 (29)
Central NRG1 Fusion Status[^]; n (%)		
Confirmed	14 (93)	
Unconfirmed	0	[^]
Unknown ^{^^}	1 (7)	
Prior Systemic Therapies		
Median (range)	1 (1, 5)	2 (1, 6)

Safety Summary of Seribantumab Monotherapy

Adverse events reported in $\geq 15\%$ of patients

Preferred Term	Treatment-emergent AEs (N=35); n (%)				Treatment-related AEs (N = 35); n (%)			
	Any Grade	Grade 1	Grade 2	Grade ≥ 3 [†]	Any Grade	Grade 1	Grade 2	Grade ≥ 3 [†]
Patients with ≥ 1 AE	35 (100)	8 (23)	10 (29)	17 (49)	30 (86)	17 (49)	11 (31)	2 (6)
Diarrhea	17 (49)	11 (31)	4 (11)	2 (6)	14 (40)	10 (29)	3 (9)	1 (3)
Fatigue	14 (40)	7 (20)	7 (20)	0	10 (29)	5 (14)	5 (14)	0
Rash [§]	11 (31)	9 (26)	2 (6)	0	9 (26)	7 (20)	2 (6)	0
Hypokalemia	10 (29)	6 (17)	3 (9)	1 (3)	3 (9)	3 (9)	0	0
Nausea	10 (29)	7 (20)	1 (3)	2 (6)	6 (17)	5 (14)	1 (3)	0
Abdominal pain	8 (23)	4 (11)	2 (6)	2 (6)	3 (9)	1 (3)	2 (6)	0
Decreased appetite	8 (23)	4 (11)	3 (9)	0	3 (9)	1 (3)	2 (6)	0
Headache	8 (23)	7 (20)	1 (3)	0	1 (3)	1 (3)	0	0
Hypomagnesemia	8 (23)	6 (17)	1 (3)	0	2 (6)	2 (6)	0	0
Cough	7 (20)	5 (14)	2 (6)	0	1 (3)	1 (3)	0	0
Anemia [^]	6 (17)	4 (11)	1 (3)	1 (3)	1 (3)	1 (3)	0	0
Dysuria	6 (17)	6 (17)	0	0	0	0	0	0

- Safety profile of 35 patients with tumors harboring NRG1 fusions who received at least 1 dose of seribantumab in the CRESTONE study
 - One DLT (Grade 2 fatigue resulting in dose reduction by the Investigator in the safety run-in)
 - 27 (77%) patients received the optimized RP2D of seribantumab 3g QW
- Majority (80%) of TRAEs were Grade 1 or 2
- Two (6%) patients received dose reductions for AEs per the Investigator
 - One patient for Grade 1 ALT increase
 - One patient for Grade 2 fatigue
- No patients discontinued seribantumab for AEs

[†]2 Grade 5 TEAEs (unrelated to seribantumab) of lung infection (n=1 patient) and malignant neoplasm progression (n=1 patient); [‡]No Grade 4 or 5 TRAEs reported; 2 Grade 3 TRAEs of diarrhea (n=1 patient) and vomiting (n=1 patient); [§]Includes preferred term (PT) of rash and maculo-papular rash; ^{||}Includes PT of abdominal pain, abdominal pain upper, abdominal distention; [^]Includes PT of anemia and iron deficiency anemia.

AE, adverse event; ALT, alanine transaminase; DLT, dose-limiting toxicity; TRAE, treatment-related adverse event

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Clinical Activity of Seribantumab in Tumors Harboring NRG1 Fusions

Investigator-assessed (INV) Response, %	Cohort 1 Primary Efficacy Population [†] (n=12 [‡])	Cohort 1 - NSCLC Primary Efficacy Population [†] (n=11 [‡])
Objective response rate; n (%)	4 (33)	4 (36)
Complete response; n (%)	2 (17)	2 (18)
Partial response; n (%)	2 (17)	2 (18)
Stable disease; n (%)	7 (58)	6 (55)
Progressive disease; n (%)	1 (8)	1 (9)
Disease control rate; n (%)	11 (92)	10 (91)

[†]Defined in the study protocol and Statistical Analysis Plan as Cohort 1 patients with centrally confirmed NRG1 fusion status who received at least 1 dose of seribantumab at 3g QW dosing regimen (starting with Protocol Version 3.0 and later). Patients in the safety-run in (enrolled under Protocol Version 2.0 or earlier) are included if they received seribantumab at 3g QW beyond induction/reinduction;

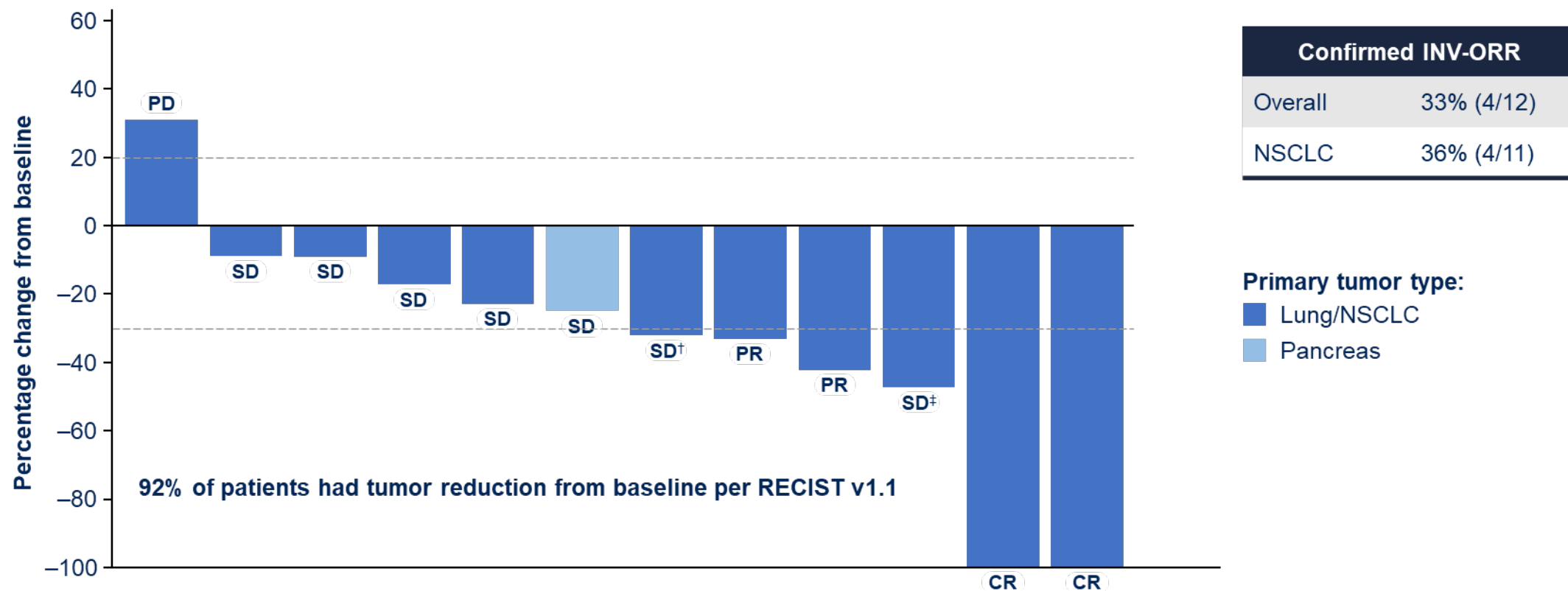
[‡]3 patients are not included for efficacy analysis 2 patients are not for evaluable response (1 patient recently enrolled and not yet eligible for post-baseline scan; 1 patient died due to sepsis, unrelated to disease progression or seribantumab and no post-baseline tumor measurements recorded) AND 1 patient with unknown central NRG1 fusion status as of visit cut-off date.

All responses are confirmed ≥ 4 weeks per RECIST v1.1. All patients have tumors harboring NRG1 fusion by local testing

Note: Percentages may not add up to 100% due to rounding

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Efficacy of Seribantumab in Tumors Harboring NRG1 Fusions



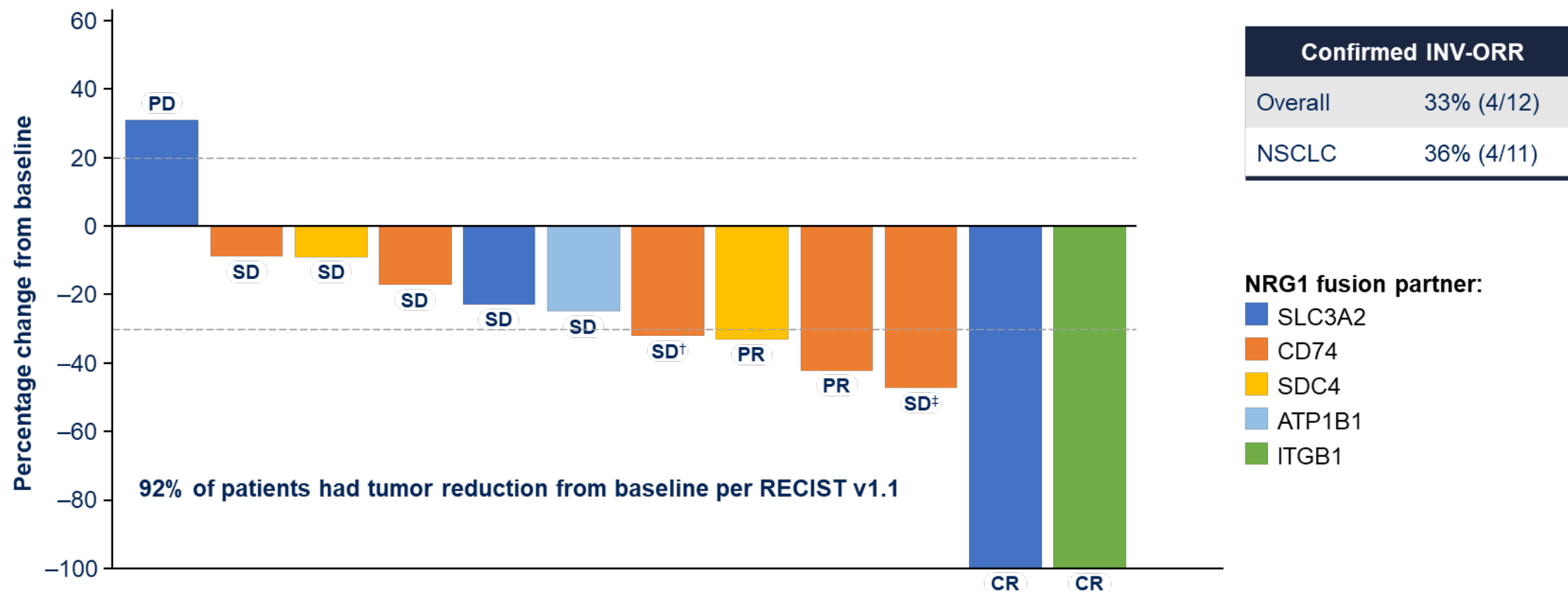
[†]Unconfirmed PR, unable to be confirmed as subsequent scans showed patient in SD;

[‡]Unconfirmed PR, patient died due to lung infection (history of COVID-19 infection) before confirmatory scan was able to be completed, no evidence of clinical disease progression at time of death.

INV-ORR, investigator-assessed objective response rate; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1

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Efficacy of Seribantumab in Tumors Harboring NRG1 Fusions Regardless of Fusion Partner



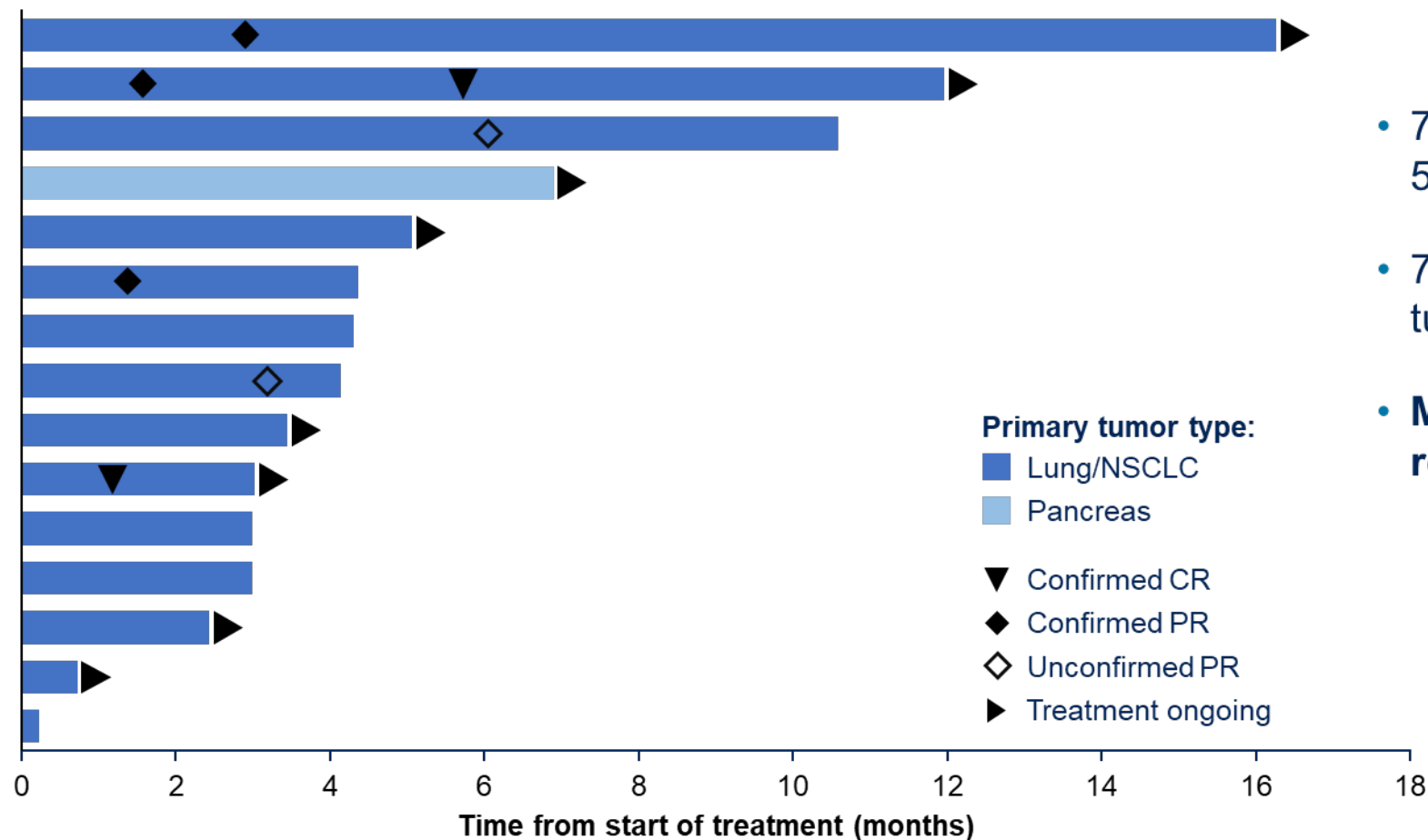
[†]Unconfirmed PR, unable to be confirmed as subsequent scans showed patient in SD;

[‡]Unconfirmed PR, patient died due to lung infection (history of COVID-19 infection) before confirmatory scan was able to be completed, no evidence of clinical disease progression at time of death.

INV-ORR, investigator-assessed objective response rate; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1

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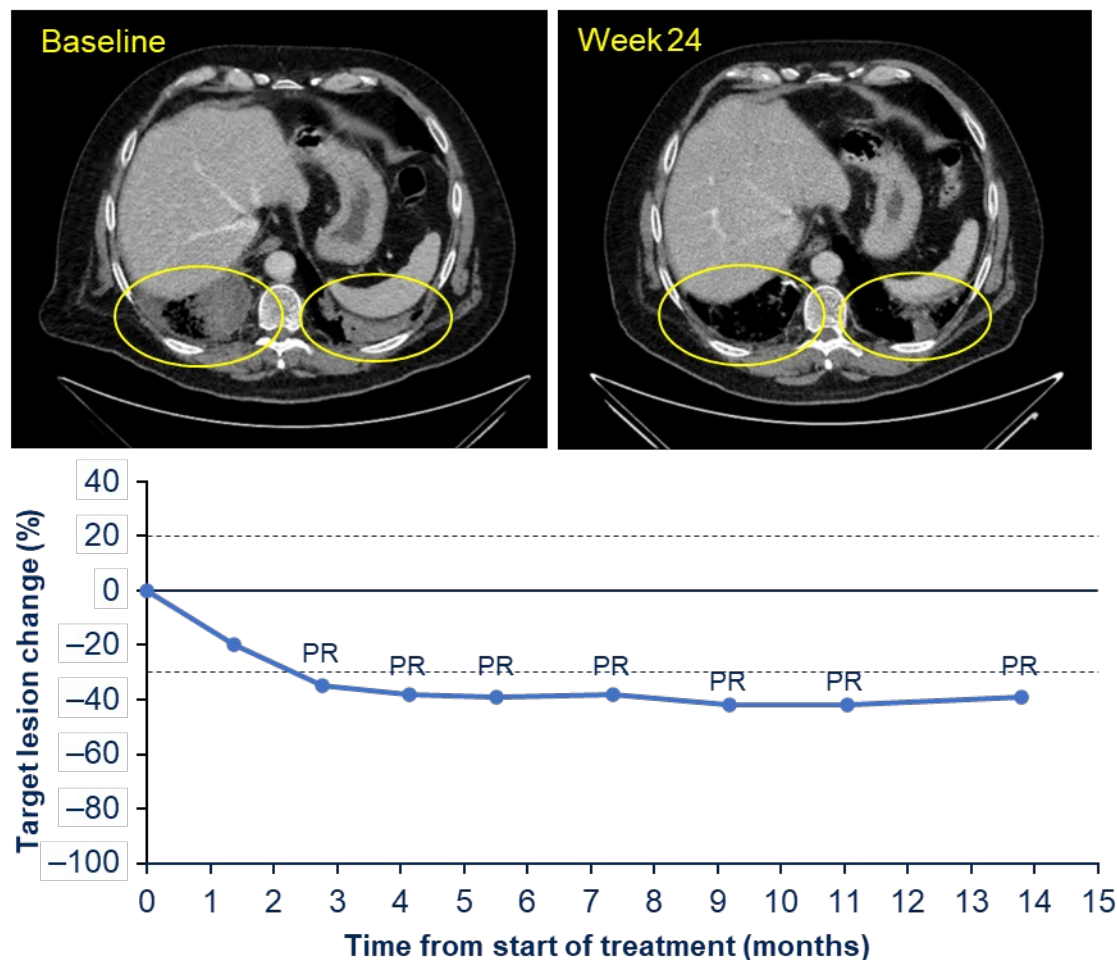
Duration of Seribantumab Therapy in Tumors Harboring NRG1 Fusions



- 75% of **responding** patients and 53% of **all** patients remain on treatment
- 75% of **responses** occurred by first tumor assessment (Week 6 ± 2 weeks)
- **Median DOR has not yet been reached** (range: 1.4–11.5 months)

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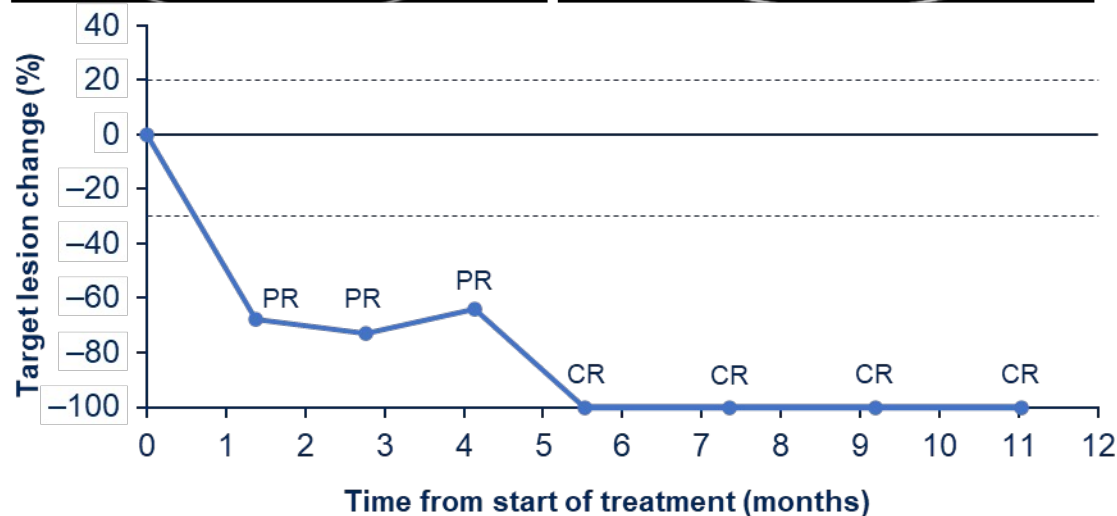
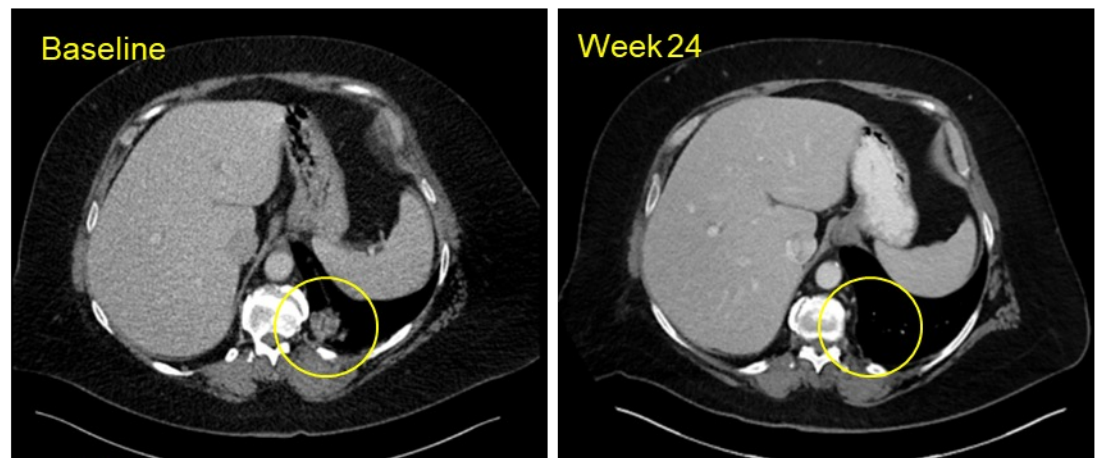
Durable Response in CD74-NRG1 NSCLC



- 70-year-old male with NSCLC adenocarcinoma
- Three prior lines including platinum-based chemotherapy, immunotherapy (IO), and investigational therapy (IO and targeted agent)
- PR (35% tumor reduction) at Week 12; maximum tumor reduction of 42%
- Duration of response 11.5 months (ongoing)
- Seribantumab treatment ongoing for 16.0 months
 - Initiated seribantumab treatment under safety run-in
 - Transitioned to seribantumab 3g QW after induction/consolidation

Images courtesy of Tejas Patil, MD; University of Colorado
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Deep and Durable Response in ITGB1-NRG1 NSCLC



- 60-year-old female with NSCLC adenocarcinoma
- Three prior lines including platinum-based chemotherapy and immunotherapy
- PR (68% tumor reduction) at Week 6
- Deepening of response to CR at Week 24
- Duration of response 9.7 months
 - CR ongoing for 5.6 months
- Treatment ongoing for 11.7 months

Images courtesy of Daniel R. Carrizosa, MD; Levine Cancer Institute
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Conclusions

- Initial data support the ability of seribantumab to produce deep and durable benefit for patients with previously treated solid tumors harboring NRG1 fusions
 - INV-ORR: 33% (2 PRs, 2 CRs); NSCLC INV-ORR: 36% (2 PRs, 2 CRs)
 - Durable ongoing responses with DOR of 9.7 and 11.5 months
 - Disease control rate of 92%
- Seribantumab was generally well tolerated, and the safety profile was consistent with observations from previous studies evaluating seribantumab^{1–4}
 - Majority of AEs were Grade 1 or 2
 - No AEs led to discontinuation of seribantumab treatment
- These data support the continued evaluation of seribantumab in the ongoing Phase 2 CRESTONE (NCT04383210) study as a potential new standard of care for patients with solid tumors harboring NRG1 fusions
 - Comprehensive genomic profiling, particularly RNA-based NGS, will be important to identify patients with gene fusions

INV-ORR, investigator-assessed objective response rate

Sources: 1. Denlinger C et al. *Invest New Drugs*. 2021;39:1604–1612; 2. Liu JF et al. *J Clin Oncol*. 2016;20;34:4345–4353; 3. Cleary JM et al. *Invest New Drugs*. 2017;35:68–78; 4. Sequist LV et al. *Oncologist*. 2019;24:1095–1102.

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Investigators and their study teams

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