

# SGNLVA-001: A PHASE 1 OPEN-LABEL DOSE ESCALATION AND EXPANSION STUDY OF SGN-LIV1A ADMINISTERED WEEKLY IN BREAST CANCER (TRIAL IN PROGRESS)

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## Breast Cancer Background

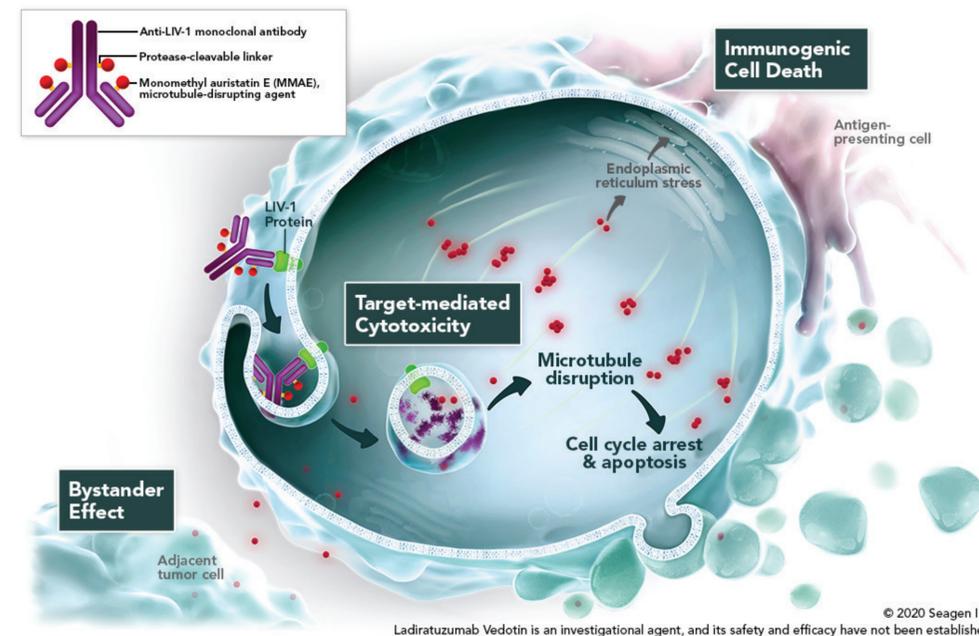
- Breast cancer is the most common malignancy in women in the US.
- Approximately one-third of these patients will eventually develop recurrent or metastatic disease.<sup>4</sup>
- The prognosis is poor in those with metastatic breast cancer (mBC), with a 5-year relative survival of less than 24%.<sup>1</sup>
- The current therapies for metastatic disease delay disease progression but are not curative.
- This is a phase 1 dose-escalation and dose-expansion study to define the safety and tolerability and establish a maximum tolerated dose (MTD) of once weekly (q1wk) ladiratumumab vedotin (LV) in patients with hormone receptor-positive (HR+)/ human epidermal growth factor receptor 2 (HER2) negative mBC and metastatic triple negative breast cancer (mTNBC).
- LV is an investigational antibody-drug conjugate (ADC) that has been shown to be active and tolerable in mBC at a recommended dose of 2.5 mg/kg every 21 days.<sup>3</sup>
  - More frequent dosing has improved the activity and/or safety of other ADCs.<sup>3</sup>
- More than 200 patients in Parts A–D of this trial have received LV administered q3wk, allowing for accurate pharmacokinetic modeling.
  - PK modeling showed LV dosed weekly resulted in improved safety, efficacy, or both safety and efficacy.

## LIV-1

- LIV-1
  - Transmembrane protein that has been found in breast cancer.<sup>6</sup>
  - Expression has been linked with malignant progression to metastasis and is associated with lymph node involvement in breast cancer.<sup>2</sup>

## LV Proposed Mechanism of Action

- After binding LIV-1, LV is internalized and trafficked through the endocytic pathway to reach the lysosomes.
- Degradation of the drug linker in lysosomes releases monomethyl auristatin E (MMAE).
- LV-mediated delivery of MMAE drives antitumor activity through:
  - Microtubule disruption, cell cycle arrest, and apoptosis.
  - Inducing ICD.<sup>5</sup>

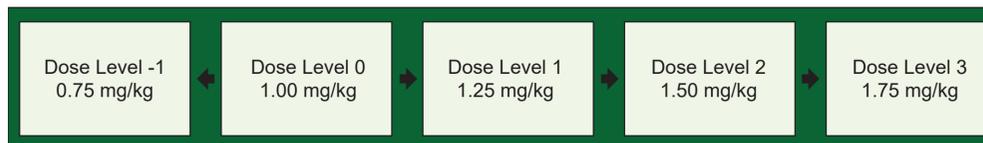
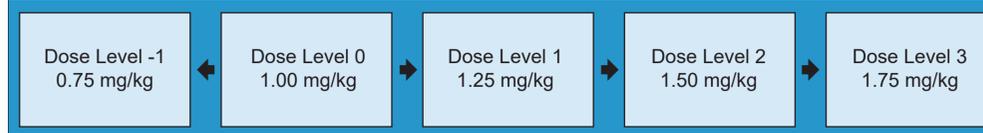


## New dose escalation and dose expansion cohorts have opened in Study SGNLVA-001. Patients with endocrine therapy-resistant HR+/HER2-negative metastatic breast cancer and metastatic triple-negative breast cancer may be eligible to receive LV dosed once weekly.

### Study Design

- SGNLVA-001 is an ongoing Phase 1 study of LV monotherapy in breast cancer.
- This multipart study is currently enrolling in Part E.
- Part E is a dose-escalation and expansion study of LV monotherapy delivered weekly:

### Dose Escalation | HR+/HER2-negative



### Dose Expansion | HR+/HER2-negative and mTNBC

- The study will accrue up to 82 subjects:
  - 42 HR+/HER2 negative
  - 40 mTNBC

## Objectives

### Primary Objectives

- To evaluate the safety and tolerability of q1wk dosing of LV in patients with mTNBC and endocrine-resistant ER+ or PR+ (HR+)/HER2-negative mBC.
- To identify the MTD of LV.

### Secondary Objectives

- To assess the antitumor activity of LV.
- To assess the pharmacokinetics of LV.
- To assess the immunogenicity of LV.

## Endpoints

### Safety Endpoints

- Type, incidence, severity, seriousness, and relatedness of adverse events (AEs).
- Type, incidence, and severity of laboratory abnormalities.
- Incidence of dose-limiting toxicity.

### Efficacy Endpoints

- ORR, confirmed and unconfirmed.
- Duration of response (DOR).
- Progression-free survival (PFS) and PFS ratio relative to prior therapy.
- Overall Survival (OS).

### Pharmacokinetics and Pharmacodynamics

- Markers of pharmacokinetics and pharmacodynamics will be assessed.

## Eligibility

### Key Inclusion Criteria

- General:
  - Females  $\geq 18$  years of age.
  - At least 1 measurable lesion per Response Evaluation Criteria for Solid Tumors (RECIST) v1.1.
  - Eastern Cooperative Oncology Group (ECOG) status of  $\leq 1$ .
  - Patients with brain metastasis must have received definitive treatment of the lesions.
- HR+/HER2-negative patients:
  - Pathologically confirmed HR+ (ER and PR) disease (ASCO-CAP 2018) HER2-negative (ASCO-CAP 2017) disease.
  - Must have received all appropriate hormonal therapy and not be a candidate for further hormonal therapy.
  - Must have received no or 1 prior line of cytotoxic therapy in the locally advanced (LA)/mBC setting.
- mTNBC patients:
  - Must have pathologically confirmed triple negative disease.
  - Must have received 1 prior line of cytotoxic therapy in the LA/mBC setting.

### Key Exclusion Criteria

- Pre-existing neuropathy of Grade  $\geq 2$ .
- History of another primary invasive malignancy that has not been in remission for at least 3 years.
- Any active Grade  $\geq 3$  (per the National Cancer Institute Common Terminology Criteria for Adverse Events Version 4.03 [NCI CTCAE v4.03]) viral, bacterial, or fungal infection within 2 weeks prior to the first dose of LV.
- Positive for hepatitis B by surface antigen expression, active hepatitis C infection or a known history of being seropositive for HIV.
- Documented history of a cerebral vascular event.
- Prior treatment with LV or prior treatment with an MMAE-containing therapy.

## Assessments

### Safety Assessments

- All patients will be followed for safety.
- Safety will be monitored by the safety monitoring committee during dose escalation and will include:
  - Surveillance and recording of AEs including serious adverse events.
  - Recording of concomitant medication and measurements of protocol-specified physical examination findings and laboratory tests.

### Response Assessments

- Response assessed every 2 cycles of treatment in the first ten cycles and every fourth cycle thereafter. Clinical response determined by the investigator at each assessment according to RECIST v1.1. (Clinical response may also be assessed by BICR according to RECIST v1.1.)
- For patients who discontinue treatment prior to disease progression, assessments will be conducted every 6 weeks ( $\pm 1$  week) starting from the most recent tumor assessment until progression or the initiation of a new anticancer treatment.
- All patients will be followed for survival until death or study closure, whichever occurs first. Patients will be followed every 12 weeks ( $\pm 1$  week) for the first year, and then every 24 weeks ( $\pm 1$  week) thereafter.

## Study Sites and Completion Dates

- 34 sites across United States.
- Study start: October 22, 2013.
- Estimated study completion: March 31, 2022.

## Acknowledgments

- Thank you to our patients and their families for their participation in the study, and to all research personnel for their support of this important trial.
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