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Disclaimer

This presentation contains forward-looking statements that involve substantial risks and uncertainties of Enliven Therapeutics, Inc. ("Enliven" or the "Company"). All statements other than statements of historical facts contained in this presentation, including statements regarding our future financial condition, results of operations, business strategy and plans, and objectives of management for future operations, as well as statements regarding industry trends, are forward-looking statements. Such forward-looking statements include, among other things, statements regarding the potential of, potential market opportunities for, and expectations regarding Enliven's product candidates and programs, including ELVN-001 and ELVN-002; expectations regarding the positioning of ELVN-001 with respect to other therapies; Enliven's ability to advance additional programs; the expected milestones and timing of such milestones including for ELVN-001, ELVN-002 and its discovery programs (including the timing of presentation of updated Phase 1a clinical data, dosing of patients in Phase 1a/b, presentation of Phase 1b data, and initial regulatory interactions, for ELVN-001, and the timing of Phase 1 monotherapy data and initial proof of concept combination data in HER2+ cancers for ELVN-002); and statements regarding Enliven's financial position, including its liquidity, cash runway and the sufficiency of its cash resources. In some cases, you can identify forward-looking statements by terminology such as "estimate," "intend," "may," "plan," "potentially" "will" or the negative of these terms or other similar expressions.

We have based these forward-looking statements largely on our current expectations and projections about future events and trends that we believe may affect our financial condition, results of operations, business strategy and financial needs. These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including, among other things: the limited operating history of Enliven; the ability to advance product candidates through preclinical and clinical development; the ability to obtain regulatory approval for, and ultimately commercialize, product candidates; the outcome of preclinical testing and early clinical trials for product candidates and the potential that the outcome of preclinical testing and early clinical trials may not be predictive of the success of later clinical trials; Enliven's limited resources; the risk of failing to demonstrate safety and efficacy of product candidates; Enliven's limited experience as a company in designing and conducting clinical trials; the potential for interim, topline and preliminary data from Enliven's preclinical studies and clinical trials to materially change from the final data; potential delays or difficulties in the enrollment or maintenance of patients in clinical trials; developments relating to Enliven's competitors and its industry, including competing product candidates and therapies; the potential market opportunity for any of Enliven's programs; the decision to develop or seek strategic collaborations to develop Enliven's current or future product candidates in combination with other therapies and the cost of combination therapies; the ability to attract, hire, and retain highly skilled executive officers and employees; the ability of Enliven to protect its intellectual property and proprietary technologies; the scope of any patent protection Enliven obtains or the loss of any of Enliven's patent protection; reliance on third parties, including contract manufacturing organizations, contract research organizations and strategic partners; general market or macroeconomic conditions; and Enliven's ability to obtain additional capital to fund Enliven's general corporate activities and to fund Enliven's research and development. Information regarding the foregoing and additional risks may be found in the section entitled "Risk Factors" in documents that Enliven files from time to time with the Securities and Exchange Commission. These risks are not exhaustive. New risk factors emerge from time to time, and it is not possible for our management to predict all risk factors, 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, or implied by, any forward-looking statements. You should not rely upon forward-looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. Except as required by law, we undertake no obligation to update publicly any forwardlooking statements for any reason after the date of this presentation.

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.

The Enliven Story: a Clinical-Stage Precision Oncology Company



Discovery process rooted in validated biology, differentiated chemistry, and disciplined trial design





ELVN-001 and ELVN-002 supported by preclinical evidence of an improved therapeutic index

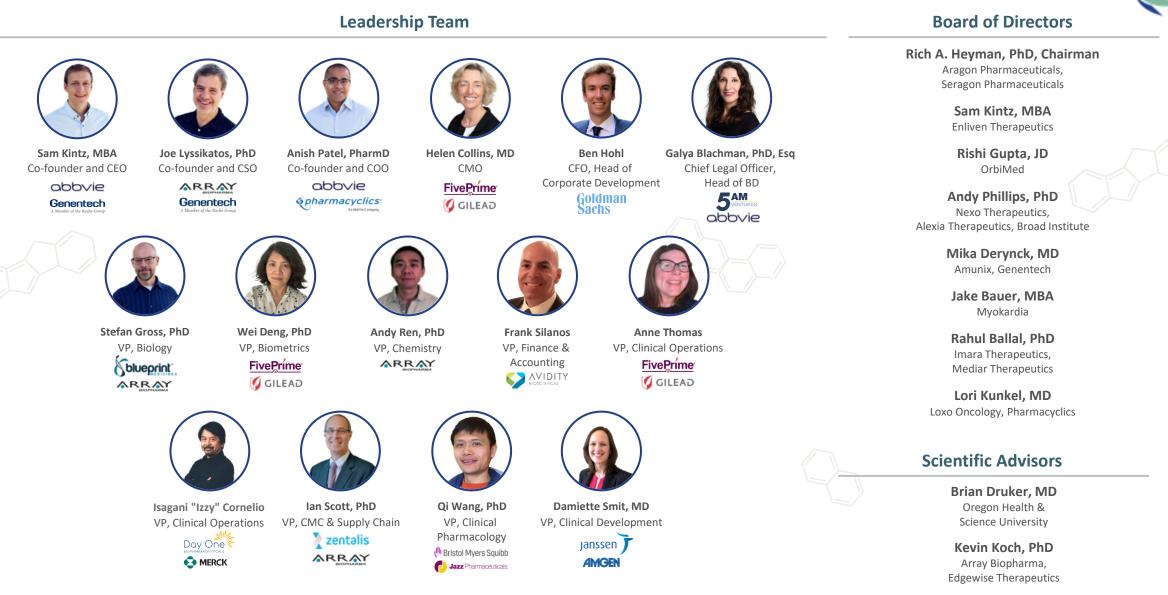
Multiple near-term milestones in lead programs targeting large and attractive markets



Experienced team with a track record of inventing and developing multiple FDA-approved cancer therapies

Strong balance sheet expected to provide cash runway into late 2026

Highly Distinguished & Industry-Leading Team



Leadership Team with Broad Range of Experience and Success



World-Renowned Chemists

 Inventor or co-inventor of over 20 product candidates that have advanced to clinical trials



Precision Oncology and Kinase Inhibitor Experts

 Led or been involved with the discovery, development, or commercialization of over
60 kinase inhibitor programs



Leaders with a Track Record of Success

 Significant experience building and/or leading research, development, and commercial operations

FDA-Approved Drugs Co-Invented by Enliven Chemists









Parallel lead product candidates:

Program	Target	Differentiation	Disease	Regimen	Discovery	IND- Enabling	Phase 1	Phase 2	Phase 3	Next Milestone	Milestone Expected
ELVN-001	BCR-ABL	Highly selective active site inhibitor w/activity against asciminib emergent mutations	CML	Monotherapy	mo	notherapy				Phase 1 Safety/Efficacy	2025
HER2 &		Irreversible, highly	NSCLC, other solid tumors	Monotherapy	mo	notherapy				Phase 1 Safety/Efficacy	
ELVN-002	HER2 mutants	selective, CNS penetrant	HER2+ MBC and CRC	Combination	+ trastuzuma	b +/- chemot	herapy			Phase 1a Safety/Efficacy	2025



Multiple discovery stage efforts ongoing at various stages

BCR-ABL = breakpoint cluster region-Abelson leukemia virus. CML = Chronic myeloid leukemia. CNS = Central nervous system. CRC = colorectal cancer. HER2 = human epidermal growth factor receptor 2. IND = Investigational new drug. MBC = metastatic breast cancer. NSCLC = Non-small cell lung cancer.

Parallel Lead Programs Supported by Clinical Data

ELVN-001

- Highly selective, active site, active form BCR-ABL inhibitor for the treatment of CML
- Designed to drive deeper responses and improve tolerability, safety and convenience compared to 1st, 2nd and 3rd Generation agents
- Significant market opportunity that has historically generated ~\$6 billion of combined BCR-ABL TKI annual sales, despite generic options
- Clear need for better agents, demonstrated by successful launch of asciminib (Scemblix[®]), a recently approved 4th Generation TKI
- ELVN-001 has a MoA that is complementary to asciminib, and it has activity against known asciminib-resistant mutations

Clinical Data Reported at ESH-iCMLf in September 2024

- Achieved cumulative MMR rate of 44% (8/18) by 24 weeks in responseevaluable late line patients, which compares favorably to historical Phase 1 cumulative MMR rates from other TKIs
- Among TKI-resistant patients, ELVN-001 achieved a cumulative MMR rate of 42% (5/12) by 24 weeks
- Well-tolerated with no ≥ Grade 3 treatment-related non-hematologic toxicities reported and no dose reductions

• CNS penetrant, highly selective and irreversible HER2+ and HER2 mutant inhibitor

• Designed to maximize HER2 inhibition as well as enable rational combination therapies, particularly for HER2+ cancers

ELVN-002

- Significant potential opportunity as Enhertu[®] disrupts the current treatment paradigm across HER2-altered tumors leading to a new unmet need in patients who progress on, or are intolerant to, this new treatment option
- Clinical data with tucatinib (Tukysa[®]), a selective reversible HER2 TKI, suggest that dual HER2 targeting can produce clinically meaningful improvements in patients with HER2+ MBC and CRC

Clinical Data Reported in March 2024

- Investigator reported responses (including unconfirmed) in patients with both HER2+ and HER2 mutant tumors, including in patients who progressed on Enhertu and in patients with brain metastases, at doses that were welltolerated
- >10x better target coverage at the clinically predicted monotherapy dose based on PK in patients and preclinical HER2+ efficacy, compared to tucatinib

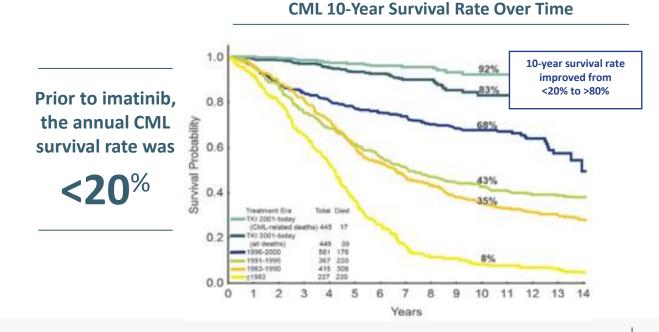
Conclusions from cross-trial comparisons cannot be made, and no head-to-head clinical trials have been conducted. ELVN-001 data reported on September 28th and ELVN-002 data reported on March 19, 2024. 1st Generation = imatinib, 2nd Generation = ponatinib. ADC = Antibody drug conjugate. BCR-ABL = breakpoint cluster region-Abelson leukemia virus. CML = Chronic myeloid leukemia. CNS = Central nervous system. CRC = colorectal cancer. HER2 = human epidermal growth factor receptor 2. MBC = metastatic breast cancer. MMR = Major molecular response. MoA = Mechanism of action. TKI = Tyrosine kinase inhibitor. PK = Pharmacokinetics. **References:** Tukysa[®] (tucatinib) USPI; public company filings and announcements.



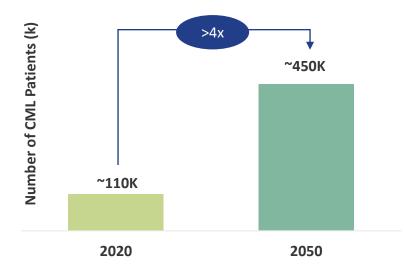
CML Landscape & ELVN-001 Introduction

CML is Now a Long-Term Condition

As patients live longer on treatment, **quality of life** and **tolerability** have become important treatment goals



Estimated Prevalence of CML in the US Over Time



Top Treatment Goals for Physicians and Patients*



 CML has become a chronic disease that can require life-long TKI-treatment

References: Huang X et al. Cancer. 2012;118:3213-3127; Kantarjian et al. Chronic Myeloid Leukemia, In: Harrison's Principles of Internal Medicine. 2014.; Lang et al, EHA 2023. American Journal of Hematology: Chronic myeloid leukemia: 2025 update on diagnosis, therapy, and monitoring

Prevalence is increasing globally with expected overall survival approaching age-matched controls

CML = Chronic myeloid leukemia. FIH = First-in-human. k = thousands. TKI = Tyrosine kinase inhibitors.

Significant Need Remains for Better Treatment Options for CML

Challenges with Current Standard of Care

- Growing 3L+ patient population (>25% of CP-CML) with limited treatment options
- Except for asciminib, approved TKIs have **poor kinase selectivity**, resulting in tolerability issues that can impact efficacy
- Long-term use of 2nd generation TKIs is associated with adverse events such as pleural effusions, GI and cardiovascular events
- Adverse events, comorbidities, restrictions with concomitant medications, and specific administration requirements may impede long-term patient adherence
- Fewer than 10% of patients successfully achieve sustained treatmentfree remission (TFR)
- 77% of HCPs indicated **need for more effective, safe, and tolerable agents** for CML

~30% of 2L patients switch within

the first year of 2nd treatment

~25% of 1L patients switch therapy

within the first year

Lack of response ~30% ~30% Loss of response (e.g., >2 years postinitiation) Other ~5%

Rationale for Switching Treatment

Switching Dynamics Demonstrate Unmet Need

In the US and EU3, majority of treatment switches across lines of therapy and TKIs are driven by intolerance or initial lack of molecular response (~60% combined)

¹L = First line. 2L = Second line. 3L+ = Third line or later. 2nd generation TKIs = Nilotinib, Dasatinib, Bosutinib. CML = Chronic Myeloid Leukemia. CP-CML = Chronic phase CML. GI = Gastrointestinal. TFR = Treatment-free reemission. TKI = Tyrosine kinase inhibitors. HCP = Healthcare professional. EU3 = France, UK, Germany.

References: HCP Qualitative & Quantitative Interviews (ClearView); Hochhaus A et al. ASH 2015; Hochhaus A et al. Leukemia. 2017; Kota V, et al. Presented at: ASH 2023; 31(7):1525-1531; Osorio S et al. Ann Hematol. 2018; 97(11):2089-2098; Rea et al. Blood. 2021; blood.202009984; Baccarani M and Gale RP. Leukemia. 2021; 35:2199-2204; Iclusig® (ponatinib) USPI; Sprycel® (dasatinib) USPI; Tasigna® (nilotinib) USPI.; Bosulif® (bosutinib) USPI.

Poor Selectivity Limits Tolerability & Efficacy of 1st, 2nd & 3rd Gen Agents

	Compound	Company	T315I Coverage	Off Target(s) & Treatment-Emergent, Non-Hematologic Adverse Events (All Gr / Gr 3+)		1L Efficacy	Drug & Administration Requirements	Annualized Sales (USD)‡
1 st Gen	Imatinib (Gleevec®)	Novartis	Х	c-KIT, CSFR-1, PDGFR	Peripheral Edema (20% / 0%) Nausea (41% / 2%)	28% MMR 3% MR4.5	Avoid strong CYP3A inhibitors or inducers	\$500M
	Dasatinib (Spyrcel®)	BMS	х	SRC family, c-KIT, PDGFR-αβ	Fluid Retention (38% / 5%) Pleural Effusions (28% / 3%) Diarrhea (22% / 1%)	46% MMR 5% MR4.5	Avoid strong CYP3A inhibitors or inducers, PPIs, antacids, and H2 blockers	\$1.7B
2 nd Gen	Nilotinib (Tasigna®)	Novartis	х	c-KIT, PDGFR, CSFR-1, DDR-1 (hERG Channel)	Rash (38% / <1%) Headache (32% / 3%) Nausea (22% / 2%); Diarrhea (19% / 1%) Black Box: QT Prolongation/Sudden Deaths	44% MMR 11% MR4.5	Avoid strong CYP3A inhibitors or inducers and PPIs; avoid food 2 hours before and 1 hour after each dose	\$1.8B
	Bosutinib (Bosulif®)	Pfizer	х	SRC family	Hepatic dysfunction (45% / 27%) Diarrhea (75% / 9%) Abdominal Pain (39% / 2%)	41% MMR 7.5% MR4.5	Avoid strong CYP3A inhibitors or inducers, PPIs, antacids, and H2 blockers	\$670M
3 rd Gen	Ponatinib (Iclusig®)	Takeda	\checkmark	KDR, FGFR, c-KIT, RET, FLT3, PDGFR	Black Box: Arterial Occlusive Events, Heart Failure, VTE, Hepatoxicity	N/A	Avoid strong CYP3A inhibitors or inducers	\$650M
STAMP	Asciminib (Scemblix®)	Novartis	√ (US, high dose only)	N/A	Hypersensitivity (32% / 2%) Hypertension (19% / 9%) Cardiovascular (13% / 3.4%)	68% MMR 17% MR4.5	Avoid CYP2C9 substrates and certain statins; avoid food 2 hours before and 1 hour after each dose	\$660M

A selective BCR-ABL inhibitor could yield enhanced target coverage, leading to greater efficacy and better long-term tolerability

1L = Front line. Gen = Generation. GI = Gastrointestinal. Gr = Grade. FY = Fiscal Year. MMR = Major Molecular Response. MR4.5 = Deep Molecular Response. PPI = Proton pump inhibitors. STAMP = specifically targeting the ABL myristoyl pocket. MMR and MR4.5 at 12 months. VTE = Venous thromboembolism.

‡ Represents calendar year 4th quarter 2023 annualized sales (USD); B = billions, M = millions; numbers in the billions have been rounded to the 1/10th of a billion and sales numbers in the millions have been rounded to the nearest \$10 million increment from Company Investor Reports, latest imatinib sales figure is from 2023YE and latest Iclusig sales figure in Japan is from 2020.

References: Gleevec® (imatinib) USPI; Sprycel® (dasatinib) USPI; Kantarjian H et al. NEJM, 2010; 362(24):2260-70; Cortes JE et al. J Clin Oncol. 2016; 34(20):2333-40; Tasigna® (nilotinib) USPI; Saglio G et al. NEJM 2010; 362(24):2251-9; Hochhaus A et al. Leukemia. 2016; 30(5):1044-54; Bosulif® (bosutinib) USPI. Cortes JE et al. J Clin Oncol, 2012; 30(28):3486-92; Iclusig® (ponatinib) USPI; Scemblix® (asciminib) USPI. Hochhaus A et al. NEJM, 2024; 391(10):885-898.

Observations

- Asciminib's strong launch demonstrates the large market size and need for better agents
- However, unmet needs still exist. In ASCEMBL, only **1.2% of patients** discontinued due to PD/death, but due to lack of efficacy/AE:
 - ~30% of patients discontinue by week 48
 - ~50% of patients discontinue by week 96
- Asciminib has limitations:
 - **Resistance mutations** in both the allosteric binding site and the ATP pocket result in loss of activity
 - **Drug-drug interactions** require avoiding drugs that are CYP2C9 substrates (up to 20% of commonly prescribed medications)
 - **Requires fasting** 2 hours before and 1 hour after each dose
 - Substrate for efflux transporters (P-gP & BCRP), which may contribute to lack of efficacy
 - Treatment of T315I mutations requires 5x dose resulting in more dose reductions (23%), increased pancreatic & liver enzyme elevation

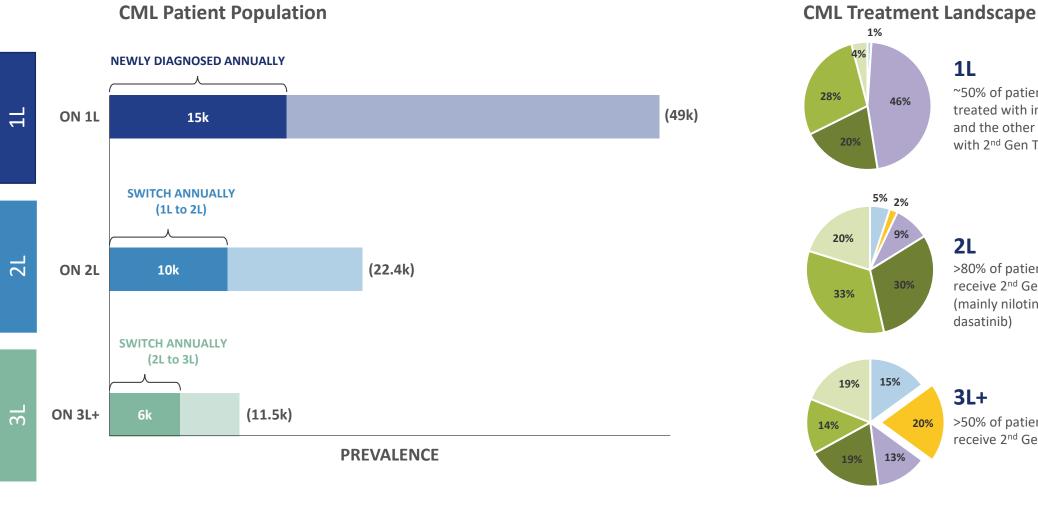
Scemblix's Robust Launch Continues to Demonstrate Patient Need for More Effective and Tolerable Agents

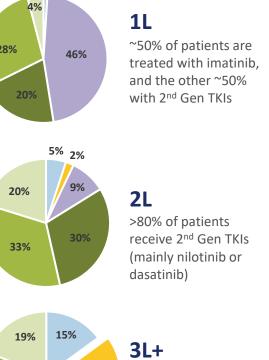


AE = Adverse event. ATP = Adenosine triphosphate. BCRP = Breast cancer resistance protein. EU = European Union. PD = Progressive disease. P-gp = P-glycoprotein. TKI = Tyrosine kinase inhibitor. US = United States. ASCEMBL: A phase 3, open-label, randomized study of asciminib vs bosutinib in CML after 2 or more prior TKIs.

References: Hochhaus et al. ASH 2020; Cortes et al. ASH 2020; ASH 2021; Scemblix (Asciminib) USPI; ASCO 2022; Eadie et al Oncotarget 2018; Pharmaceogent Genomics, 2010 Apr; 20(4):277-281]; Novartis 2Q 2024 Investor Presentation. Note: Current Scemblix information and 3L+ market dynamics based on Novartis 2Q 2024 investor presentation. Estimated 3L+ market size calculated using Scemblix Q2 24 U.S annualized sales and 26% U.S. market penetrance.

Asciminib has the Potential to Disrupt Early Line Standard of Care





20%

Asciminib Ponatinib

13%

Nilotinib

2nd Generation TKIs

>50% of patients

Dasatinib

receive 2nd Gen TKIs

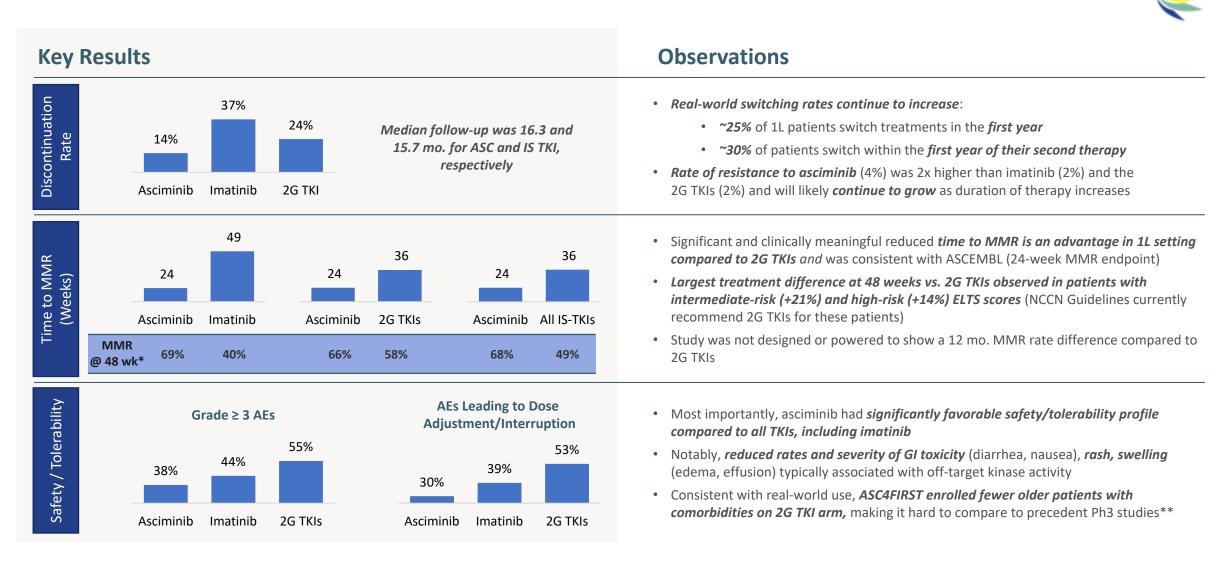
Imatinib

Bosutinib

1%

1L = First line. 2L = Second line. 3L+ = Third line or later. CML = Chronic myeloid leukemia. Gen= Generation. TKI = Tyrosine kinase inhibitor. References: November 2023 Novartis R&D Investor Event. HCP Qualitative & Quantitative Interviews (ClearView).

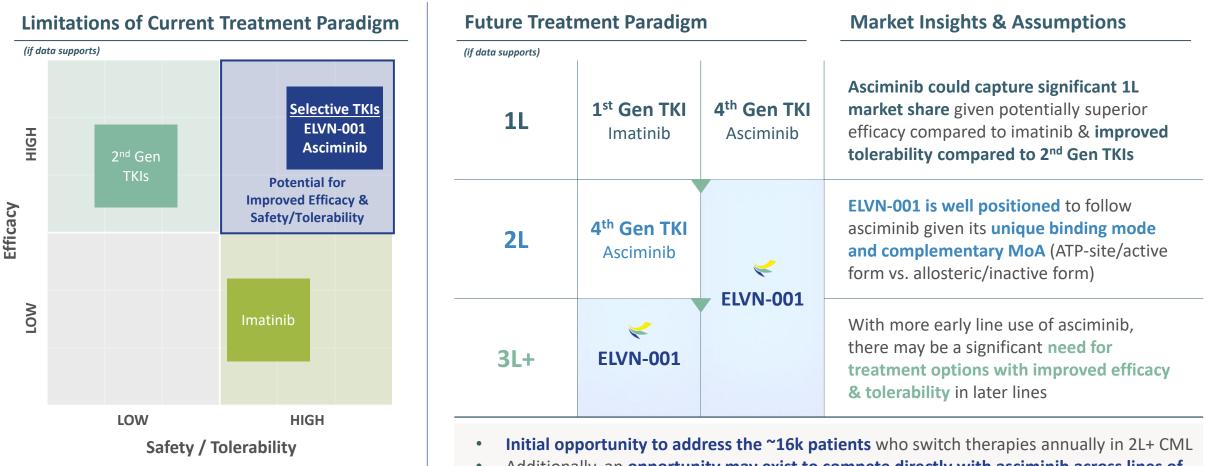
Review of Asciminib ASC4FIRST Front Line Study Results



1L = First line. 2G = Second Generation. AE = Adverse event. ASC = Scemblix = asciminib. ELTS = EUTOS long-term survival. GI = Gastrointestinal. IS = Investigator selected. MMR = Major molecular response. Mo = months. NCCN = National Comprehensive Cancer Network. Ph3 = Phase 3. TKI = Tyrosine kinase inhibitor. Wk = week. ASCEMBL: A phase 3, open-label, randomized study of asciminib vs bosutinib in CML after 2 or more prior TKIs. *Endpoint for accelerated approval. **In a real-world study, dose reductions were required in 66% of elderly patients on 2G TKIs.

References: Hughes et al. N ENGL J MED 2024; Rea D et al., Blood. 2021; ASCO 2024 Novartis R&D Investor Event; 2024 NCCN Guidelines Version 2.2024; Seo HY et al. Clin Lymphoma Myeloma Leuk. 2019.

ELVN-001 is Well Positioned to Follow Asciminib in Future CML Treatment Paradigm



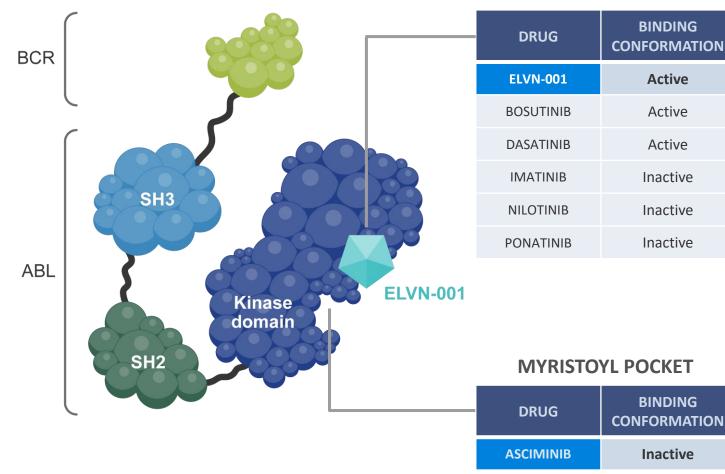
Additionally, an **opportunity may exist to compete directly with asciminib across lines of therapy** based on differentiated efficacy, tolerability or administration requirements

1L = First line. 2L = Second line. 2L = Second line or later. 3L = Third or later line. Gen = Generation. 2nd Gen TKIs = Nilotinib, Dasatinib, Bosutinib. ATP = Adenosine triphosphate. CML = Chronic myeloid leukemia. MoA = Mechanism of action. TKI = Tyrosine kinase inhibitor.

Note: Illustrative current and future treatment paradigm.

References: HCP Qualitative & Quantitative Interviews (ClearView).

ELVN-001 is a Selective Active Site, Active Form Inhibitor of BCR::ABL1



ATP-BINDING SITE

Key Attributes of ELVN-001:

- Type 1 small molecule inhibitor of BCR::ABL1 targeting the ATP-binding site of the ABL1 kinase domain that binds to a unique P-loop "folded-in" active conformation of ABL1 creating a narrow selectivity tunnel
- Unique binding mode confers exquisite selectivity against the broader kinome
- Broad activity against multiple clinically important BCR::ABL1 mutations, including T315I, and those that confer resistance to asciminib
- Unlike all the approved TKIs, ELVN-001 is not a substrate for the common drug efflux transporters, P-gp and BCRP, which may play a role in resistance to TKIs in CML

ATP = Adenosine triphosphate. BCR::ABL1 = breakpoint cluster region-Abelson leukemia virus 1. BCRP = Breast cancer resistance protein. CML = Chronic myeloid leukemia. P-gp = P-glycoprotein. TKI = Tyrosine kinase inhibitors. References: Braun T. et al. Cancer Cell 2020 2020 Apr 13;37(4):530-542; Qiang W et al., Mechanisms of Resistance to the BCR-ABL1 Allosteric Inhibitor Asciminib; Leukemia 2017.

ELVN-001 is Highly Selective and Active Against Asciminib Emergent Mutations

ELVN-001 selectively inhibits ABL with low off-target activity against other kinases

Cellular Phosphorylation IC₅₀ (nM)

	cKIT	FLT3wt	PDGFRb	VEGFR2	cSRC
ELVN-001	>10,000	>10,000	>10,000	>10,000	>10,000
Ponatinib	30	3.8	89	4.8	630
Nilotinib	200	>10,000	720	2,900	>10,000
Dasatinib	0.6	>1,000	7.1	>1,000	10
Bosutinib	1,000	4,700	7,900	>10,000	16
Imatinib	82	>10,000	230	9,600	>10,000
Asciminib	>10,000	>10,000	>10,000	>10,000	>10,000

Off-target kinase inhibition (IC50) by ELVN-001 vs. approved ABL TKIs in cell-based assays

ELVN-001 maintains activity against T315I and other BCR::ABL1 mutations known to confer resistance to asciminib

Fold-Shift from Native BCR::ABL1

	T315I	M244V	A337T	E355G	F359C	F359V	P465S
Asciminib	96	611	173	>2380	>2380	>2380	>2380
ELVN-001	4	2	1	4	3	2	2
Dasatinib	2935	2	1	3	4	2	2
Bosutinib	113	3	1	4	5	5	4
Ponatinib	3	2	1	3	5	5	2
Imatinib	>20	3	1	8	18	10	4
Nilotinib	>341	2	1	5	33	21	3
Vodobatinib	445	2	1	3	10	7	2
Olverembatinib	5	2	1	3	6	6	2

Antiproliferative activity of ELVN-001 vs. approved ABL TKIs in Ba/F3 cells harboring various BCR::ABL1 mutations

A337T and M244V were the most frequent emergent mutations to asciminib and F359C/V were the most frequent mutations at baseline in patients resistant to asciminib in ASCEMBL

ASCEMBL = phase 3 study of asciminib vs bosutinib in CML after 2 or more prior TKIs. BCR::ABL1 = breakpoint cluster region-Abelson leukemia virus 1. IC₅₀ = half-maximal inhibitory concentration. nM = nanomolar. TKI = tyrosine kinase inhibitor. WT = wildtype. Cell viability measured with Cell titer glo luminescent assay. Values expressed as fold-shift in IC₅₀ from BCR::ABL1^{WT}.

References: Enliven data on file; Réa D and Hughes TP. Development of asciminib, a novel allosteric inhibitor of BCR-ABL1. Crit Rev Oncol Hematol. 2022;171:103580.; Qiang W et al. Mechanisms of Resistance to the BCR-ABL1 Allosteric inhibitor Asciminib. Leukemia. 2017;31(12):2844-2847.; Réa D et al. A phase 3, open-label, randomized study of asciminib, a STAMP inhibitor, vs bosutinib in CML after 2 or more prior TKIs. Blood. 2021;138:2031-2041.

ELVN-001 Clinical Focus and Target Product Profile



Target Product Profile

- Activity against native BCR::ABL1, T315I, and known asciminib-resistant mutations
- **Highly selective:** No/minimal clinically relevant off-target toxicity
- Efficacy: MMR greater than approved TKIs driven by an enhanced therapeutic window
- Tolerability: Fewer dose reductions & discontinuations
- Safety: No black box warnings; no edema, effusions, reduced GI toxicity
- · No restrictions with concomitant medications

Phase 1a/b: Dose Escalation in Late Line

- Patients with CML who have exhausted all available treatment options
- Seek to demonstrate improved therapeutic window & efficacy (BCR::ABL1 transcript level reductions) in highly resistant/intolerant disease



H2H vs Physician's Choice

- Superiority based on 6mo and/or 12mo MMR in CP-CML
- Better overall tolerability, fewer dose reductions & discontinuations vs. approved agents

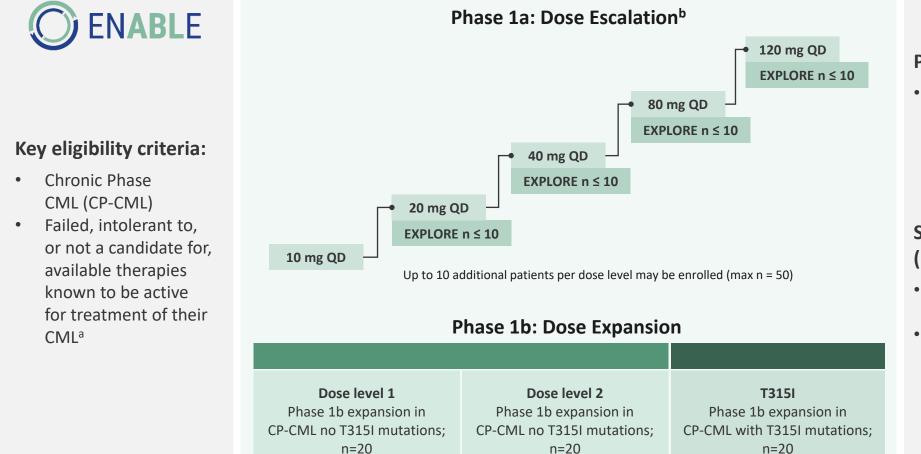


Optionality: Post-asciminib and T315I mutation

- Single-arm study; precedent for approval in late line based on CCyR/MR2 (ponatinib, OPTIC trial)
- Asciminib-resistant/intolerant and/or T315I mutant CML

ELVN-001 Phase 1 Clinical Data

ENABLE (ELVN-001 Phase 1) Trial Design



Additional expansion cohorts may be opened for patients based on emerging data

Primary endpoints:

 Incidence of dose limiting toxicities, adverse events, clinically significant laboratory abnormalities and ECG abnormalities

Secondary endpoints (Phase 1a^d):

- Pharmacokinetics parameters^c
- Molecular response (MR) by central qPCR using the International System (measured every 4 weeks x 6, then every 12 weeks)

Clinicaltrials.gov Identifier: NCT05304377.

CML = Chronic myeloid leukemia. CP = Chronic phase. MTD = Maximum tolerated dose. QD = Once daily. qPCR = Quantitative reverse transcriptase polymerase chain reaction. ^a In the United States, S. Korea, Australia, EU, but at least 2 prior therapies known to be active for treatment of their CML are required in Canada. ^b Re-enrollment and intra-subject dose escalation allowed if meeting specific criteria; BID (twice daily) dosing may be explored. ^c area under the curve (AUC), maximum concentration (Cmax), time at which Cmax is observed (Tmax), minimum concentration (Cmin), terminal half-life (t1/2).^d Phase 1b additional secondary endpoints: duration of MR, BCR::ABL1 qPCR ≤ 1%, complete hematological response.

ELVN-001 Phase 1 Continues to Enroll a Heavily Pre-treated Patient Population

Patient Demographics and Daseline Characteristi											
Parameter	All Patients (N = 39)	Parameter	All Patients (N = 39)								
Age, years, median (range)	60 (29–76)	Median number of prior TKIs, n (range)	3 (0–6) ^d								
Male / female, n (%)	26/13 (66.7%/33.3%)	2 prior TKls, n (%)	10 (25.6%)								
Race		3 prior TKIs, n (%)	11 (28.2%)								
White	26 (66.7%)	4 prior TKIs, n (%)	6 (15.4%)								
Asian	9 (23.1%)	≥ 5 prior TKIs, n (%)	10 (25.6%)								
Black or African American	1 (2.6%)	Prior TKI, n (%)									
Other or not reported	3 (7.7%)	Dasatinib	30 (76.9%)								
ECOG performance status, n (%)		Imatinib	28 (71.8%)								
0	32 (82.1%)	Asciminib	21 (53.8%)								
1	7 (17.9%)	Ponatinib	20 (51.3%)								
Median time since diagnosis, months (range)	72.7 (5.2–240.6)	Nilotinib	19 (48.7%)								
Typical BCR::ABL1 transcript	36 (92.3%) ^a	Bosutinib	10 (25.6%)								
BCR::ABL1 mutation at baseline (central) ^b		Reason for discontinuation of last TKI, n (%) ^e									
T315I mutation, n (%)	4 (10.3%) ^c	Lack of efficacy	27 (69.2%)								
E255V, n (%)	1 (2.6%)	Lack of tolerability	11 (28.2%)								

^a e13a2 and e14a2.

^b Only available for patients with typical transcripts. Notable local testing in 1 patient with transcript level below the threshold for central mutational testing: A337T/V506M.

^c Includes one re-enrolled patient, hence 3 individual patients with T315I.

Patient Demographics and Baseline Characteristics

^d Number reflects individual TKIs. Median lines of prior TKIs is 4 (range 0-9). Range includes recently enrolled patient whose prior history had not been entered yet and one patient with 1 prior TKI who discontinued ELVN-001 after 1 dose due to protocol violation.

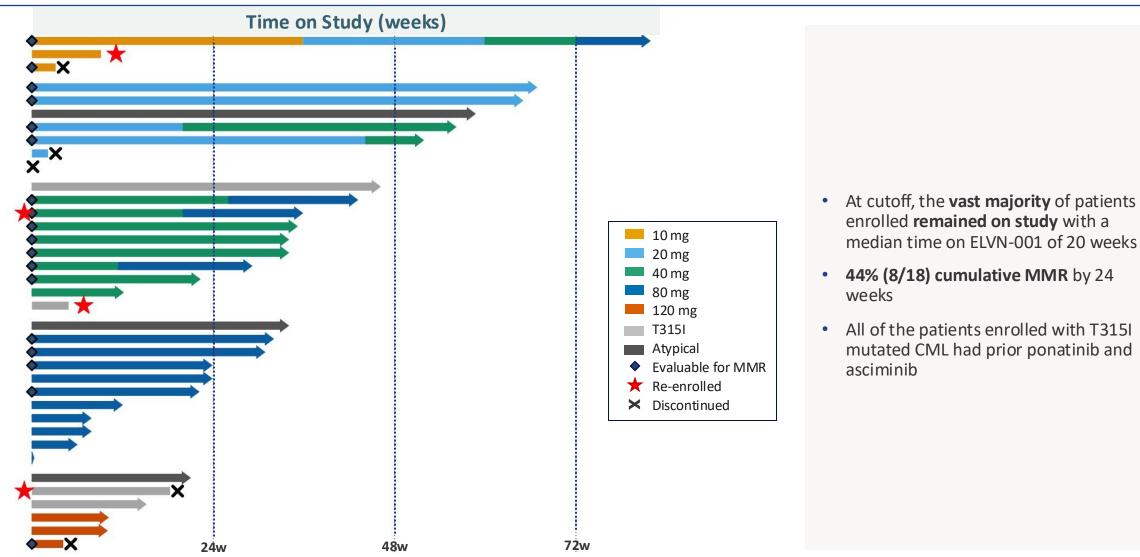
^e One patient had no prior history entered.

Data cutoff date: 25 June 2024.

BCR::ABL1 = breakpoint cluster region-Abelson leukemia virus 1. ECOG = Eastern Cooperative Oncology Group. TKI= tyrosine kinase inhibitor.

Note: Patients who had gone through intra-patient dose escalation as per protocol were counted under their initial treatment group only. 2 patients who were re-enrolled were counted under their initial treatment group.

Median Time on ELVN-001 at Cutoff was 20 Weeks



Data cutoff date: 25 June 2024.

CML = chronic myeloid leukemia. MMR = major molecular response.qPCR = quantitative reverse transcriptase polymerase chain reaction.

The protocol allows re-enrollment and intra-subject dose escalation. MMR is defined as BCR::ABL1 < 0.1%. Evaluable patients had baseline typical BCR::ABL1 transcript without T315I mutation and postbaseline assessment of BCR::ABL1 transcript at 24 weeks or achieved MMR within 24 weeks or discontinued treatment before 24 weeks without achieving MMR. For patients with MMR at baseline, only postbaseline assessments beyond 70 days were included in the analysis. The swimmer plot does not include 2 patients that received their first ELVN-001 dose in June (these patients were included in the safety analysis as it was confirmed they received at least one dose of ELVN-001, but daily dosing information had yet to be provided at cutoff date).

ELVN-001 Data Compares Favorably to Precedent Phase 1 Trials

		Asciminib Phase 1 (2019)	Bosutinib Phase 1 (2012)	ELVN-001 Phase 1a ¹
	2	30 (27%)	115 (97%)	10 (26%)
Demographics	3	41 (36%)	3 (3%) ²	11 (28%)
(Prior TKIs)	4	32 (28%)		6 (15%)
	≥ 5	9 (8%)		10 (26%)
	Cumulative MMR	37/99 (37%)	16/105 (15%)	8/18 (44%)
	TKI-resistant ³	3/32 (11%)	3/54 (6%)	5/12 (42%)
Efficacy (Non-T315I)	Response Achieved	19/80 (24%)		3/13 (23%)
	Response Maintained	18/19 (95%)		5/5 (100%)
	Time Frame	by 24 weeks	median follow-up 28.5 mo.	by 24 weeks

ELVN-001's cumulative MMR rate compares favorably despite a more heavily pre-treated patient population

CML = Chronic myeloid leukemia. f/up = Follow-up. MMR = Major molecular response. Mo. = month. TKI = Tyrosine kinase inhibitor. Wk. = Weeks.

1. Data cutoff date: 25 June 2024; MMR is defined as BCR::ABL1 ≤ 0.1%. MMR rates includes all patients treated who had typical BCR::ABL1 transcripts without T315I mutation 2. Refers to ≥ 3 prior TKIs. 3. For asciminib, this does not include ponatinib-resistant patients (MMR by 6 mo. = 0%, n=4); for bosutinib, this includes patients that were resistant to nilotinib (n=27) or dasatinib (n=37).

These data are derived from different clinical trials at different points in time, with differences in trial design and patient populations. As a result, conclusions from cross-trial comparisons cannot be made, and no head-to-head clinical trials have been conducted. References: Hughes et al., NEJM 2019; Khoury HJ et al. Blood. 2012.

Change in BCR::ABL Transcript in Patients with CML by 24 Weeks

Change in BCD: ABL1 Transcript in CMI Dationts without T2151 Mutation by 24 Weeks

		Change in	BCK::ABL1 Ira	inscript in Civ	IL Patients w	lithout 1315	iviutation by	24 Weeks						
	Improvement		Baseline BCR::ABL1 transcript											
	in MR Category Stable Lack of Efficacy	MR5 ≤ 0.001 (n = 0)	MR4.5 > 0.001 to 0.0032 (n = 0)	MR4 > 0.0032 to 0.01 (n = 1)	MR3 > 0.01 to 0.1 (n = 4)	> 0.1 to 1 (n = 6)	> 1 to 10 (n = 2)	> 10 (n = 5)						
ks	MR5 ≤ 0.001			1	1 ^a									
transcript by 24-weeks	MR4.5 > 0.001 to 0.0032													
t by 2	MR4 > 0.0032 to 0.01					1								
nscrip	MR3 > 0.01 to 0.1				3	1	1							
	> 0.1 to 1					4		1						
BCR::ABL1	> 1 to 10							1						
B(> 10						1 ^b	3						

Within 24 weeks of treatment:

7 patients with improved MR category

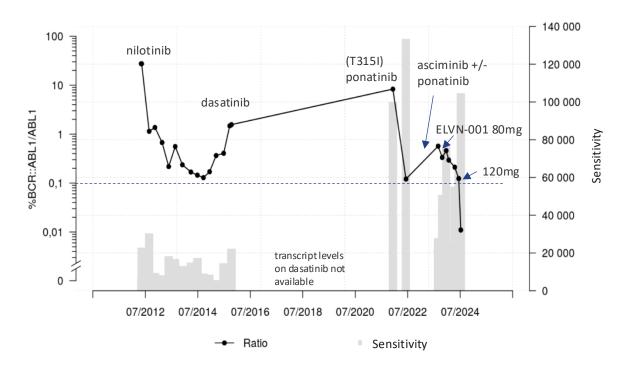
- 2 improved by 1 category
- 4 improved by 2 categories
- 1 improved by 3 categories
- Among the 16 patients previously evaluated for efficacy by 12 weeks, all 16 had stable or deepening responses between weeks 12 and 24
- To date, no emerging mutations identified

^a Deep response (MR3 → MR5) in patient with lack of efficacy to prior asciminib and A337T mutation by local lab (below the threshold for central mutation testing).

^b Worsening of transcript level from 6.3% at baseline to 13% after 4 weeks in patient with E255V mutation who previously discontinued asciminib and ponatinib due to lack of efficacy.

Data cutoff date: 25 June 2024. BCR::ABL1 = breakpoint cluster region-Abelson leukemia virus 1. CML = Chronic myeloid leukemia. MR = molecular response. Stable = transcript levels remain within listed category. NOTE: MR5 category assigned based on transcript level; < limit of quantitation. Evaluable patients had baseline typical BCR::ABL1 transcript without T315I mutation and postbaseline assessment of BCR::ABL1 transcript at 24 weeks or achieved MMR within 24 weeks or discontinued treatment before 24 weeks without achieving MMR. For patients with MMR at baseline, only postbaseline assessments beyond 70 days were included in the analysis.

BCR::ABL1 (atypical, e19a2), T315I (post-Ponatinib): Deep Response



Achieved Deep Response in T315I 80mg \rightarrow 120 mg QD ELVN-001

Patient Background

Prior therapy (reason for switch)	nilotinib (LOE), dasatinib (LOE), ponatinib (LOE), asciminib (LOE) and ponatinib + asciminib combination (LOE)
Mutations	T315I
Safety	G1 dry skin
Efficacy	>1-log decrease

Resistant to 4 prior TKIs, deep response on ELVN-001

BCR::ABL1 = breakpoint cluster region-Abelson leukemia virus 1. G1 = Grade 1. LOE = Lack of efficacy. MR = Molecular response, QD = Once daily. TKI = Tyrosine kinase inhibitor. A deep response is defined as a 4-log-reduction. Data as of 12 July 2024 (after latest data cutoff), based on a local laboratory (non-International System) as reported by the study investigator.

Safety and Tolerability of ELVN-001

- Well-tolerated to date
 - Maximum tolerated dose has not been reached
 - No dose reductions
 - No ≥ Grade 3 non-hematologic treatment-related AEs; no Grade 1/2 TRAEs >11%
 - No exposure-toxicity relationship identified to date
- Only 5.1% (2/39) of patients discontinued due to AEs
 - The 2 patients that discontinued due to AEs did so within the first 30 days of treatment
 - No discontinuations at doses ≥ 40mg QD

ELVN-001's safety profile remains consistent with its high selectivity, even with longer duration and more patients enrolled at higher dose levels

Hematologic Treatment Emergent Adverse Events

		ELVN-001 Dose Group										
		g QD = 3)		g QD = 7)	40 m (n =	U	80 m (n =	g QD 11)		ng QD = 7)	Tot (N =	
Preferred term n (%)	Any Gr	Gr 3/4	Any Gr	Gr 3/4	Any Gr	Gr 3/4	Any Gr	Gr 3/4	Any Gr	Gr 3/4	Any Gr	Gr 3/4
Neutropenia ^a	2 (66.7%)	2 (66.7%)	2 (28.6%)	2 (28.6%)	0	0	0	0	0	0	4 (10.8%)	4 (10.8%)
Thrombocytopenia ^b	0	0	2 (28.6%)	2 (28.6%)	0	0	2 (18.2%)	0	0	0	4 (10.8%)	2 (5.4%)
Leukopenia ^c	0	0	0	0	0	0	1 (9.1%)	0	0	0	1 (2.7%)	0
Pancytopenia	0	0	1 (14.3%)	1 (14.3%)	0	0	0	0	0	0	1 (2.7%)	1 (2.7%)
Anemia	1 (33.3%)	0	1 (14.3)	0	0	0	0	0	0	0	2 (5.4%)	0

Hematologic TEAEs

^a Grouped term for neutropenia includes neutrophil count decreased; ^b Grouped term for thrombocytopenia includes platelet count decreased; ^c Grouped term for leukopenia includes white blood cell count decreased

- Most Grade 3/4 TEAEs were hematologic, all occurring within the first 8 weeks
- No dose reductions due to cytopenias
- One patient discontinued ELVN-001 in the setting of Gr 3/4 cytopenias (at 20 mg QD; DLT)
- No exposure-toxicity relationship identified to date

Data cutoff date: 25 June 2024.

DLT = dose-limiting toxicity. Gr = Grade. QD = once daily. SAE = serious adverse event. TEAE = treatment-emergent adverse event. TKI = Tyrosine Kinase Inhibitor.

NOTE: Severity grades were defined by CTCAE (Common Terminology Criteria for Adverse Events) Version 5.0. Patients who had gone through intra-patient dose escalation as per protocol were counted under their initial treatment group only. 2 patients who were re-enrolled were counted under their initial treatment group and their re-enrolled treatment group but counted as one patient in the total column.

Low Incidence of Non-Hematologic Adverse Events Consistent with Selective Kinase Profile

					0							
				E	ELVN-001 E	Oose Grou	р				Total	
	10 mg QD (n = 3)			20 mg QD 40 mg Q (n = 7) (n = 11		•	80 mg QD (n = 11)		120 mg QD (n = 7)		(N = 37)	
Preferred term n (%)	Any Gr	Gr 3/4	Any Gr	Gr 3/4	Any Gr	Gr 3/4	Any Gr	Gr 3/4	Any Gr	Gr 3/4	Any Gr	Gr 3/4
Lipase elevation	1 (33.3%)		1 (14.3%)		1 (9.1%)		1 (9.1%)				4 (10.8%)	
Rash			1 (14.3%)		2 (18.2%)						3 (8.1%)	
Arthralgia									2 (28.6%)		2 (5.4%)	
Headache			1 (14.3%)				1 (9.1%)				2 (5.4%)	
Muscle Spasms					1 (9.1%)				1 (14.3%)		2 (5.4%)	
Myalgia			1 (14.3%)						1 (14.3%)		2 (5.4%)	
Nausea			1 (14.3%)						1 (14.3%)		2 (5.4%)	

Non-Hematologic TRAEs in ≥ 5% of Patients

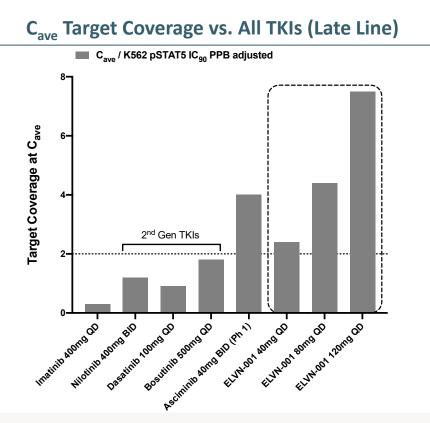
- No Grade 3 or higher non-hematologic TRAEs
- No dose reductions due to non-hematologic TRAEs
- One patient discontinued ELVN-001 due to SAE of Gr 2 pancreatitis (at 10 mg QD); no additional TEAEs of pancreatitis reported

Data cutoff date: 25 June 2024.

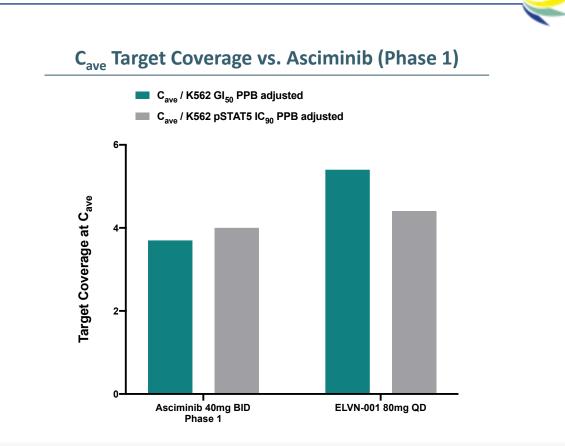
CTCAE = Common Terminology Criteria for Adverse Events. Gr = Grade. QD = once daily. SAE = Serious Adverse Event. TEAE = Treatment Emergent Adverse Event. TRAE = Treatment Related Adverse Event.

NOTE: Severity grades were defined by CTCAE Version 5.0. Patients who had gone through intra-patient dose escalation as per protocol were counted under their initial treatment group only. 2 patients who were re-enrolled were counted under their initial treatment group but counted as one patient in the total column.

ELVN-001 Achieved Superior Target Coverage Compared to 2nd Gen TKIs and Similar Target Coverage Compared to Asciminib



 ELVN-001 had better target coverage based on plasma protein binding adjusted pSTAT5 IC₉₀ at ≥ 40mg QD compared to 2nd Gen TKIs, and similar target coverage as asciminib at 80mg QD



• Novartis referenced preclinical 90% inhibitory concentration for phosphorylated STAT5 or pSTAT5 IC₉₀ and anti-proliferation GI_{50} as the key target coverage metrics supporting an optimal asciminib dose of 40mg BID or 80mg QD for CML patients without T315I mutations

30

2nd Gen TKIs = bosutinib, dasatinib, nilotinib. BID = Twice daily. C_{ave} = average concentration. IC₉₀ = 90% inhibitory concentration. QD = Once daily. CML = Chronic myeloid leukemia. CRKL = CRK like protein. PPB = Plasma protein binding. STAT5 = Signal transducer and activator of transcription 5. TKI = Tyrosine kinase inhibitor.

References: Imatinib clin pharm in CML pts: Peng et al, Clin Pharmacokinet 2005. Imatinib NDA. Nilotinib USPI. Dasatinib USPI. Bosutinib USPI. Hughes TP et al. NEJM. 2019;381(24):2315-2326. Asciminb NDA.

Notes: Cave = Area under the curve (AUC) divided by 24 hours. For the approved drugs, human pharmacokinetic (PK) values were obtained from population PK (popPK) simulation data reported in respective USPIs or from Ref 1 (imatinib) and Ref 6 (asciminib Phase 1). ELVN-001 human PK values are the mean values from a preliminary popPK simulation based on PK from 78 healthy volunteer subjects; to date, there has been no significant difference between ELVN-001 PK in cancer patients and healthy subjects. Human plasma protein binding values were obtained from the respective NDAs or measured in house (ELVN-001). In vitro cell pharmacodynamic measurements were performed head-to-head and represent the average value from multiple experiments (n \geq 3). K562 cells were employed for these experiments. pSTAT5 IC₉₀ and GI₅₀ measurements were performed in 10% FBS and the values were adjusted to account for human plasma protein binding by dividing by the unbound fraction for each drug.

Summary

CML Opportunity

- CML is a chronic condition, often requiring decades of daily therapy
- Despite generics, the commercial market supports ~\$6B in sales from six approved BCR::ABL1 TKIs, which are used interchangeably across lines of therapy
- Clear need for better agents, demonstrated by the recent asciminib (Scemblix) launch that is already generating >\$650M in annualized sales with only ~26% penetration into US 3L+
- Based on recently announced positive 1L Phase 3 data, asciminib is potentially poised to penetrate early lines of therapy
- We believe an opportunity exists to become the preferred active site TKI option post-asciminib, as well as to compete directly with asciminib based on differentiated efficacy, tolerability and/or administration requirements across lines of therapy

ELVN-001 Updated Proof of Concept Data

- As a highly selective, active site, active form inhibitor of BCR::ABL1, ELVN-001 represents a complimentary MoA compared to asciminib
- Based on updated Phase 1 data, ELVN-001:
 - Achieved cumulative MMR rate in heavily pre-treated patients, including post-asciminib patients, that is favorable when compared to historical Phase 1 cumulative MMR rates from other TKIs
 - Remains well-tolerated with no ≥ Grade 3 treatment related non-hematologic toxicities and no dose reductions
 - Only 5.1% (2/39) of patients discontinued due to AEs, and no discontinuations at doses ≥ 40mg QD due to AEs
 - Achieved target coverage superior to 2nd Gen TKIs and similar to asciminib at well-tolerated doses
 - Has a PK profile that supports once daily dosing with flexible administration requirements, including the ability to take with or without food

¹L = First line. 3L+ = Third line or later. 2nd Gen TKIs = nilotinib, dasatinib, bosutinib. BCR::ABL1 = breakpoint cluster region-Abelson leukemia virus 1. CML = Chronic myeloid leukemia. MMR = Major molecular response. MoA = Mechanism of action. PK = Pharmacokinetic. TKI = Tyrosine kinase inhibitor. Results from a head-to-head comparison may differ from those set forth herein. **References**: public company filings and announcements.

Today

Presentation of updated Phase 1a clinical data and continued dosing of patients in Phase 1a/b

<u>2025</u>

Phase 1 data with ~60-100 patients across various lines of therapy with significant follow-up

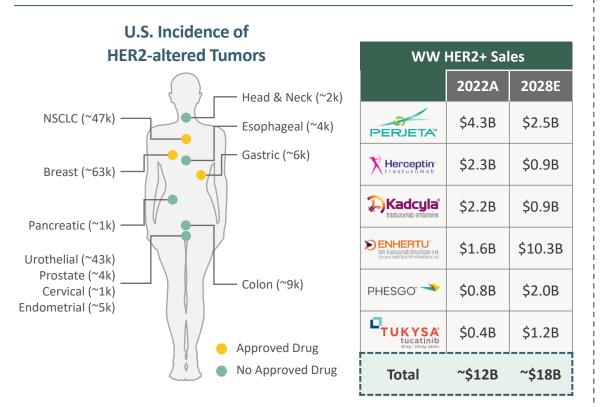
2025 Year End

Initial regulatory interactions with the aim of achieving regulatory path clarity regarding the first head-to-head pivotal trial



Substantial Opportunity in HER2-altered Patient Populations

Reshuffling of Treatment Paradigm Could Create a Significant Post-Enhertu[®] Opportunity Across HER2-altered Cancers



Multi-billion-dollar market opportunity post-Enhertu[®] with ~25% of patients receiving Enhertu[®] progressing within 12-months and up to 50% of patients developing brain metastases

Multiple Early-Line Settings Without Entrenched Drugs

- Lack of approved drugs for key tumors harboring HER2 mutations (e.g., 1L NSCLC) and HER2 amplified or overexpressing tumors (e.g., NSCLC and CRC)
- Trial timing opens the window for multiple fast-follower and follow-on opportunities

	MBC										
Compound	Company	Stage	Timing								
fam-trastuzumab deruxtecan-nxki 20 mg/mL INJECTION FOR INTRAJENOUS USE	Oaiichi-Sankyo	Phase III Ongoing	Initiated in Apr '21								
HER2 Mutant NSCLC											
Compound	Company	Stage	Timing								
Enhertu" fam-trastuzumab deruxtecan-nxki 20 mg/ml. INJECTION FOR INTRAVENOUS USE	O Daiichi-Sankyo	Phase III Ongoing	Initiated in Dec '21								
Zongertinib	Boehringer Ingelheim	Phase III Ready	Initiating in 2024								
	CI	RC									
Compound	Company	Stage	Timing								
TUKYSA tucatinib st mg 109 mg Laket	Seagen ®	Phase III Ongoing	Initiated in Oct '22								

Key HER2 1L Trials

1L = First line. CRC = Colorectal cancer. HER2 = human epidermal growth factor receptor 2. HER2-altered = HER2 amplification/overexpression and HER2 mutant. MBC = Metastatic breast cancer. NSCLC = Non-small cell lung cancer. References: EvaluatePharma. Cancer Metastasis Rev (2015) 34:157–164. Oncologist. 2019 Dec; 24(12): e1303–e1314. Seer, National Cancer Institute.

Significant Opportunities for ELVN-002 in a Rapidly Evolving Landscape

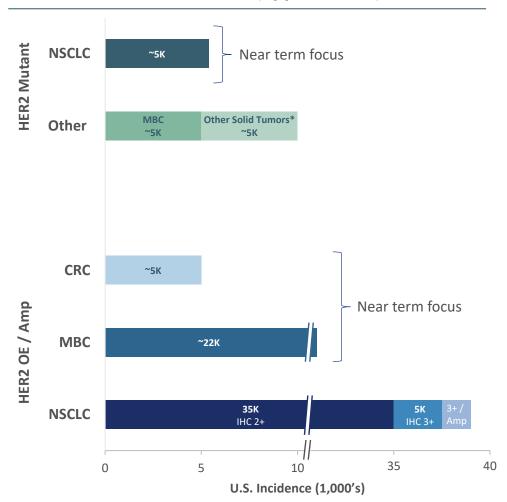
HER2 Mutant NSCLC and Other HER2 Mutant Cancers

- Approximately 3% of NSCLC patients harbor HER2 mutations, for which there are no approved TKIs
- Currently there is a **high unmet need** in this indication, but the landscape is evolving as ADCs and multiple investigational TKIs emerge
- Other HER2 mutant cancers represent a larger market with limited treatment options

HER2 Amplified or Overexpressing Cancers

- Largest potential market opportunity, with nearly 70K addressable patients
- As Enhertu[®] disrupts earlier lines of therapy in a broad set of indications, a follow-on TKI combination opportunity exists
- Tukysa[®] (tucatinib) is generating >\$475M annualized revenue with a 2L+ HER2+ MBC label in combination with trastuzumab + chemotherapy (capecitabine)
- Recent tucatinib data shows **dual HER2 targeting without the need for chemotherapy** has clinical benefit in HER2+ CRC
- Additionally, recent tucatinib + Kadcyla[®] data in HER2+ MBC supports a larger opportunity in MBC and the rationale for ADC + TKI combinations more broadly
- Currently, no targeted therapies are approved for HER2+ NSCLC

U.S. Market Size Estimates (approximate)



Reference: National Cancer Institute. SEER*Stat software. Bethesda, MD: National Cancer Institute, Surveillance Research Program; Robichaux et al. Cancer Cell. 2019;36(4):444-457.e7.

Note: Tukysa® annualized revenue calculated based on \$121 million of revenue in Q2 2024

^{*}Other cancers include prostate, endometrial, gastric, stomach, hepatobiliary, etc.

²L+ = Second line or later. ADC = Antibody drug conjugate. CRC = Colorectal cancer. HER2 = human epidermal growth factor receptor 2. IHC = Immunohistochemistry. TKI = Tyrosine kinase inhibitors. NSCLC = Non-small cell lung cancer. MBC = Metastatic breast cancer. OE = Overexpressing. Amp = Amplified.

ELVN-002: Opportunity for a CNS Penetrant, Selective and Irreversible Pan-Mutant HER2 TKI

Current HER2 TKI Landscape & Limitations

- The **high degree of structural homology** between EGFR and HER2 makes it difficult to design HER2-selective inhibitors
- Tucatinib is the only approved HER2-selective TKI, but is a reversible inhibitor and only achieves IC₉₀ coverage in ~40% of patients
- Tucatinib also lacks potency against key mutations in NSCLC and breast cancer
- Most approved and investigational irreversible TKIs are dual EGFR/HER2 inhibitors and are dose-limited by EGFR-driven toxicity
- Current HER2 TKIs potentially leave room for further improvement in addressing brain metastases

Our HER2 Candidate: ELVN-002

- Designed to irreversibly inhibit HER2 and multiple key HER2 mutations in NSCLC and breast cancer, including HER2 YVMA and L755, and
- Selectively inhibit HER2 while sparing EGFR to prevent EGFR-related toxicities, with the potential for improved efficacy across HER2-driven cancers
- Deliberately designed to enable rational combination therapies, particularly for HER2+ cancers
- Demonstrated superior pre-clinical activity in HER2amplified subcutaneous and intracranial models, and an improved safety margin in NHPs compared to tucatinib

ELVN-002 was designed to achieve an improved therapeutic index compared to current approved and investigational TKIs in the broad HER2 population, including HER2 mutant and amplified / overexpressed tumors.

ELVN-002 Clinical Focus and Target Product Profile



• **Combinable** with SOC including ADCs across HER2-driven tumors

Phase 1a Dose Escalation in solid tumors with HER2 alterations

- Monotherapy in HER2-altered solid tumors
- Evaluate the combination with ADCs in HER2+ breast cancer and HER2 NSCLC

Phase 1b in HER2 mutant NSCLC

- Complete Phase 1b, establish monotherapy dose
- Consider 2L+ single-arm study with potential to support accelerated approval

Phase 1 in HER2 Overexpressed/Amplified MBC & CRC

- Initiation of additional Phase 1 trial in combination with trastuzumab +/- chemotherapy
- FPI for Phase 1a in 2Q 2024



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Multiple Indication Opportunities

- Driving proof of concept for mono/combo therapy in multiple tumors (mutant NSCLC, HER2+ breast and CRC)
- With additional indications to explore (HER2+ NSCLC and other HER2-driven solid tumors)

ELVN-002 Potently Inhibited HER2 & HER2 Mutants While Sparing EGFR

IC ₅₀ values (nM)	Pyrotinib	Tucatinib	Compound (I) WO2023066296*	Zongertinib	ELVN-002	
BT474 HER2 ^{WT} pHER2 IC ₅₀ (10% FBS)	13	12	19	30	8.5	-
Beas2b HER2 ^{S310F} pHER2 IC ₅₀ (10% FBS)	1.4	9.6	6.4	2	1.8	
Beas2b HER2 ^{L755S} pHER2 IC ₅₀ (10% FBS)	4.5	47	12	5.4	3.5	
Beas2b HER2 ^{YVMA} pHER2 IC ₅₀ (10% FBS)	4.5	74	20	1.5	3.4	
BT474 HER2 ^{WT} pHER2 IC ₅₀ (50% human serum)	40	37	134	164	18	ELVN-002 has
Beas2b HER2 ^{S310F} pHER2 IC ₅₀ (100% human serum)	51	304	903	433	17	differentiated potency in human serum,
Beas2b HER2 ^{YVMA} pHER2 IC ₅₀ (100% human serum)	220	1,650	273	145	28	particularly vs. HER2 ^{WT}
BT474 (HER2 ^{wt}) cytotox IC ₅₀	2.3	23	58	7.8	3.9	
NCI-N87 (HER2 ^{wt}) cytotox IC ₅₀	2.6	37	65	3.8	3.3	
Ba/F3 HER2 ^{L755S} cytotox IC ₅₀	3.7	245	323	11	4.8	ELVN-002 maintains potency vs. major
Ba/F3 HER2 ^{YVMA} cytotox IC ₅₀	3.5	107	229	6.5	5.9	single-point and E20IM mutations
H2073 (EGFR ^{wt}) pEGFR IC ₅₀	6.4	>10,000	218	2,030	2,160	
A431 (EGFR ^{wt}) pEGFR IC ₅₀	10	>7,690	980	2,200	1,700	
A431 (EGFR ^{wt}) cytotox IC ₅₀	75	>10,000	8,360	9,360	3,530	
Human Hepatocyte stability, extraction ratio (%)	74	76	83	42	22	ELVN-002 has exceptional drug-like
Kinetic Solubility pH 7.4 (μM)	< 0.1	9.3	108	< 0.07	260	properties and PK profile**

EGFR = epidermal growth factor receptor. E20IM = Exon 20 insertion mutations. FBS = fetal bovine serum. HER2 = human epidermal growth factor receptor 2. IC₅₀ = half-maximal inhibitory concentration. PK = Pharmacokinetic. WT = wild type *This compound, which is disclosed in WO2023066296, may be the same, or similar to, ZN-1041, which was sold to Roche by Zion Pharma in 2023 and is being developed for the treatment of HER2+ cancers, including breast cancer. **Based on non-clinical results/data.

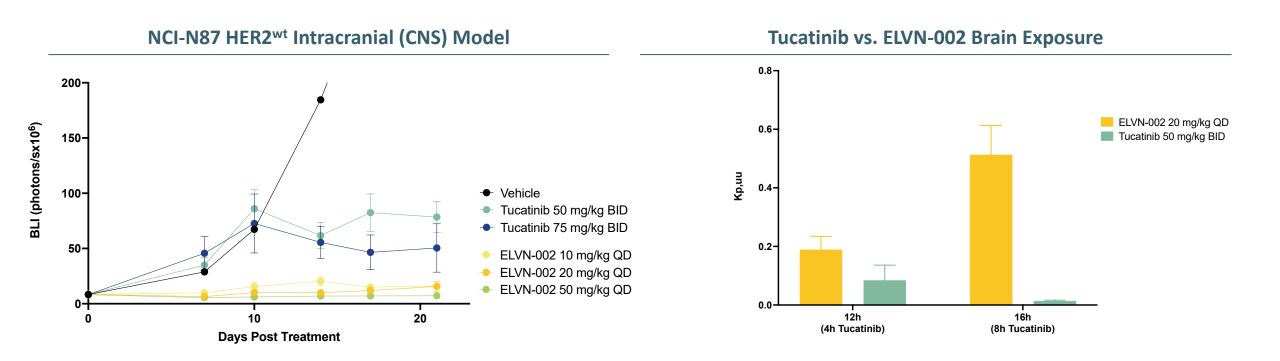
Note: IC values represent an average derived from multiple runs internally with a minimum of two independent experiments. ADMET data were generated internally.

ELVN-002 Had Favorable Mutant Coverage Compared to Tucatinib

	Ba/F3	Proliferatio	n IC50 [nM]	Proliferatio	Proliferation IC50 Fold over		
	HER2 Mutation	Tucatinib	ELVN-002	Tucatinib	ELVN-002		
	wild-type	29	6	1	1		
	P95	33	11	1	2		
	A775-G776-ins-C	24	2	1	0.2		
	A775-G776-ins-YVMA	225	11	8	2	}	YVMA: 71% E20IM NSCLC
	A775-G776-ins-YVMS	510	15	18	2		
	A775-G776-ins-SVMA	157	6	5	1		
	A775-G776-ins-VVMA	294	12	10	2		
	A775-G776-ins-MMAY	287	7	10	1		
HER2 Exon20	A775-G776-ins-YVMA-R678Q	642	14	22	2	_	
Insertion	G776VC	499	17	17	3	7	VC: 11% E20IM NSCLC
Mutations	G776-del-ins-IC	1104	41	38	7		
Matations	G776-del-ins-LC	88	13	3	2		
	G776-del-ins-VV	1239	34	43	5		
	G776-V777-del-ins-CVC	209	13	7	2		
	G776-Del-ins-AVGC	438	14	15	2		
	V777-G778-ins-GC	20	5	1	1		
	P780-Y781-ins-GSP	29	3	1	1		
	S310F	11	3	0.4	0.5		
	S310Y	12	3	0.4	0.5		
	R678Q	29	5	1	1		
	L755S	418	8	14	1	7	22% HER2 ^{mut} MBC
Common HER2	L755P	1284	21	44	3	5	
	D769N	7	2	0.3	0.3		
Point	V773M	64	4	2	1		
Mutations	V777L	11	3	0.4	1		
	T798M	3412	194	118	32		
	L869R	148	2	5	0.4		
	L869R/T798I	2524	43	87	7		
	V842I	21	4	1	1		
	BaF3 parental cell line	>10000	>10000	>10000	>10000		
	EGFR	>10000	>10000	>10000	>10000		

E20IM = Exon 20 insertion mutations. HER2 = human epidermal growth factor receptor 2. IC₅₀ = half-maximal inhibitory concentration. MBC = Metastatic breast cancer. NSCLC = Non-small cell lung cancer. Note: IC values represent an average derived from multiple runs internally with a minimum of two independent experiments.

ELVN-002 Demonstrated Robust CNS Anti-Tumor Activity in NCI-N87 HER2^{WT} Intracranial Model at Well-Tolerated Doses

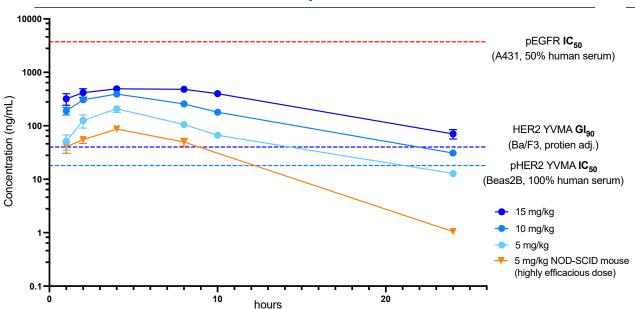


- ELVN-002 yielded sustained tumor regressions in the NCI-N87 intracranial model, and all doses were well-tolerated
- Tucatinib's exposure in patients at its approved dose is ~4.5x and ~12x lower than in mice treated with 50 mg/kg and 75 mg/kg BID, respectively
- ELVN-002 exhibited superior CNS anti-tumor activity at up to ~100x lower exposures compared to tucatinib in this model
- ELVN-002 achieved significant free-drug exposure in mouse brain across a plasma concentration range that we estimate will be clinically relevant

Mouse brain exposures: Steady state Kp,uu for ELVN-002 and tucatinib in non-tumor-bearing BALB/c nude mice (n=3). Measurements were taken after 5 days of dosing at timepoints corresponding to estimated clinically relevant plasma concentrations. Tucatinib was dosed BID and measurements were made at 12h and 16h; however, Kp,uu levels were even lower than at 4h and 8h, respectively. Kp,uu = Free brain concentration (total brain concentration adjusted for brain tissue binding)/Free plasma concentration (total plasma concentration adjusted for protein binding).

BID = Twice a day. BLI = bioluminescent imaging. QD = Once a day. CNS = Central nervous system. WT = wild type

ELVN-002 Achieved a Wide Safety Margin in Preclinical Species



ELVN-002 28-day GLP Tox NHP TK

ELVN-002 Safety Margin at NHP NOAEL

Dose (mg/kg)	Fold vs. Highly Efficacious Exposure	Fold vs. Tucatinib TGI-matched exposure	
5	2	5	
10	5	12	
15	8	22	- NHP NOAEL

Based on preclinical exposures (AUC), ELVN-002 had a >10x larger safety margin compared to tucatinib in NHPs (HER2 amp setting)

- At its 28-day NOAEL, ELVN-002 had a wide safety margin in non-human primates (NHPs) and even wider safety margin in rats
- At its approved dose, tucatinib only achieves IC₉₀ all day (over 24 hours) in ~40% of patients
- Due to its larger safety margin, irreversible inhibition and improved PK profile, we believe ELVN-002 has the potential to achieve better target inhibition

and improved efficacy compared to tucatinib

Highly Efficacious Exposure equals the total AUC of ELVN-002 at 5 mg/kg in NOD-SCID mouse, which yielded robust tumor regression in a HER YVMA xenograft

To determine Fold vs. Tucatinib TGI-matched exposure, we use the AUC of ELVN-002 at 2.5 mg/kg in Nude mouse, a dose that roughly matches the TGI of Tucatinib at 20 mg/kg BID measured in an NCI-N87 xenograft model. Protein adj. = GI90 value divided by the fraction unbound in serum.

ELVN-002 NHP data shown are measured averages from Day 1 TK male animals in a 28-day GLP tox study

References: Tucatinib NDA; Moulder SL et al. Data from a Completed Phase 1 Study to Assess the Safety, Tolerability and PK of ARRY-380 - an Oral Inhibitor of HER2. SABCS, December 8-12, 2010, San Antonio, TX.

Amp = amplification. AUC = area under the curve. GLP = Good lab practices. HER2 = human epidermal growth factor receptor 2. IC90 = 90% inhibitory concentration. NHP = Non-human primate. NOAEL = No observed adverse event level. TGI = Tumor growth inhibition. TK = toxicokinetics or PK from tox study. PK = Pharmacokinetics.

Phase 1a

- HER2 mutant (e.g., Exon 20 IM)
- HER2 amplified or overexpressed

Phase 1b / 2

- Late line HER2 mutant NSCLC
- Explore combinations (e.g., ADCs, chemotherapy, trastuzumab) in HER2+ CRC and MBC

Registrational / Phase 3

 Initial registrational studies as mono or combination therapy in NSCLC, CRC and MBC

GOALS

- Demonstrate potential for efficacy at well-tolerated dose(s)
- Identify dose(s) for Phase 1b and beyond

GOALS

- Establish PoC for HER2-mutant NSCLC and evaluate intracranial activity
- Explore potential beyond NSCLC in other HER2-altered solid tumors (e.g., MBC, CRC, etc.)
- Demonstrate the potential for bestin-class efficacy and tolerability for combination therapies

GOALS

- Consider registrational options for HER2 mutant NSCLC
- Initiate registrational studies in combination therapies in HER2+ MBC and CRC

ELVN-002 || Current Status

Monotherapy Dose Escalation

- Investigator reported responses (including unconfirmed) in patients with both HER2+ and HER2 mutant tumors, including in patients who progressed on Enhertu and in patients with brain metastases, at doses that were well-tolerated
- At the clinically predicted optimal monotherapy dose (n=30), based on current Phase 1a data:
 - The most common reported (>10%) treatment-related AEs, were headache (37%), nausea (33%), vomiting (27%) and diarrhea (27%)
 - No ≥ Grade 4; Grade 3: headache (10%), nausea (7%), vomiting (3%), diarrhea (0%)
 - Of note, only Grade 1/2: AST/ALT (3%/0%), rash (3%)
 - Compared to tucatinib, ELVN-002 had >10x better target coverage based on pharmacokinetics in cancer patients and preclinical HER2+ efficacy of ELVN-002

Combination in HER2+ MBC and CRC

- Preclinical and clinical data suggest that dual HER2 targeting results in clinically meaningful improvements in patients with HER2+ MBC and CRC
- Tucatinib + trastuzumab + capecitabine demonstrated a survival advantage in HER2+ MBC
- Tucatinib + trastuzumab produced durable responses in HER2+ CRC (DOR ~12.4 months)
- Initiated Phase 1a/b trial of ELVN-002 in combination with trastuzumab +/- chemotherapy in patients with HER2+ cancer
- Initiated Phase 1a cohort evaluating ELVN-002 in combination with ado-trastuzumab emtansine (Kadcyla[®]) in MBC
- Both studies designed to evaluate safety, tolerability, PK, and preliminary efficacy in patients with advanced stage HER2+ tumors

Phase 1 monotherapy data and initial proof of concept combination data in HER2+ cancers expected in 2025

Rationale

Status

Target coverage is defined by the mean total drug exposure (area under the curve, AUC) achieved in cancer patients at the indicated dose divided by the mean AUC at the dose in head-to-head preclinical efficacy models that elicits ~100% tumor growth inhibition. Drug exposure of tucatanib in cancer patients was obtained from its NDA and was not obtained from head-to-head clinical trials in cancer patients.

AE = Adverse event. ALT = Alanine transaminase. AST = Aspartate aminotransferase. CRC = colorectal cancer. DOR = duration of response. FPI = First patient in. HER2 = human epidermal growth factor receptor 2. MBC = metastatic breast cancer. NDA = New drug application. PK = Pharmacokinetic.

References: 1. Oh, DY et al., Nat Rev Clin Oncol 2020. 2. Cocco E. et al. Pharmacol Ther. 2019; 2. SEER 2022; 4. Dai WF et al., JAMA New Open 2022; 5. Murthy RK et al., NEJM 2020; 6. Tukysa® (tucatinib) USPI.





		ELVN-001 Dose Group					
	10 mg QD (n = 3)	20 mg QD (n = 7)	40 mg QD (n = 11)	80 mg QD (n = 11)	120 mg QD (n = 7)	Total ^a (N = 39)	
Median Duration of Exposure, weeks (range)	10 (4-80)	53 (0.1–64)	31 (0.3–45)	20 (0.3–32)	8 (0.3–20)	20 (0.1–80)	
Ongoing, n (%)	1 (33.3%) ^a	5 (71.4%)	10 (90.9%) ^a	11 (100%)	5 (71.4%)	32 (82.1%)	
Discontinued, n (%)	2 (66.7%)	2 (28.6%)	1 (9.1%)		2 (28.6%)	7 (17.9%) ^b	
Due to AE	1 (33.3%)	1 (14.3%)				2 (5.1%)	
Due to lack of efficacy	1 (33.3%) ^c		1 (9.1%) ^c		2 (28.6%) ^d	4 (10.3%)	
Due to protocol violation		1 (14.3%)				1 (2.6%)	

^a Includes 2 re-enrolled patients (number of individuals enrolled was 37); ^b Includes 2 re-enrolled patients who discontinued at initial enrolled dose level. ^c Both patients who discontinued due to lack of efficacy at 10 mg and 40 mg were re-enrolled at higher dose levels (40 mg and 120 mg, respectively). ^d The 2 patients who discontinued at 120mg QD both discontinued prior asciminib and ponatinib for lack of efficacy; one had CML with T315I mutation and was the same patient who discontinued 40 mg, the other had CML with E255V mutation.

Low Incidence of Non-Hematologic Adverse Events Consistent with Selective Kinase Profile

				E	LVN-001 C	VN-001 Dose Group						Total	
10 mg QD (n = 3)		20 mg QD (n = 7)		40 mg QD (n = 11)		80 mg QD (n = 11)		120 mg QD (n = 7)		(N = 37)			
Preferred term n (%)	Any Gr	Gr 3/4	Any Gr	Gr 3/4	Any Gr	Gr 3/4	Any Gr	Gr 3/4	Any Gr	Gr 3/4	Any Gr	Gr 3/4	
Headache	2 (66.7%)	0	2 (28.6%)	0	0	0	1 (9.1%)	0	0	0	5 (13.5%)	0	
Lipase increased	1 (33.3%)	0	1 (14.3%)	0	1 (9.1%)	0	2 (18.2%)	0	0	0	5 (13.5%)	0	
Arthralgia	0	0	1 (14.3%)	0	0	0	1 (9.1%)	0	2 (28.6%)	0	4 (10.8%)	0	
Diarrhea	1 (33.3%)	0	1 (14.3%)	0	0	0	2 (18.2%)	0	0	0	4 (10.8%)	0	
Nausea	0	0	1 (14.3%)	0	0	0	2 (18.2%)	0	1 (14.3%)	0	4 (10.8%)	0	

Non-Hematologic TEAEs in \geq 10% of Patients

- Almost all non-hematologic TEAEs were low grade; two patients had Gr 3 TEAEs* (one with Gr 3 hypertriglyceridemia; one with Gr 3 proctitis and Gr 3 appendicitis)
- No dose reductions due to non-hematologic TEAEs
- One patient discontinued ELVN-001 due to SAE of Gr 2 pancreatitis (at 10 mg QD); no additional TEAEs of pancreatitis reported
- No exposure-toxicity relationship identified to date

Data cutoff date: 25 June 2024.

G = Grade. QD = once daily. SAE = serious adverse event. TEAE = treatment-emergent adverse event; *assessed as not related by investigator

NOTE: Severity grades were defined by CTCAE (Common Terminology Criteria for Adverse Events) Version 5.0. Patients who had gone through intra-patient dose escalation as per protocol were counted under their initial treatment group only. 2 patients who were re-enrolled were counted under their initial treatment group and their re-enrolled treatment group but counted as one patient in the total column.

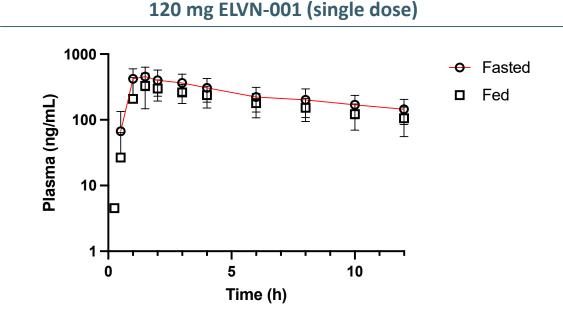
5 Patients that Maintained MMR by 24 Weeks

			Reason for Discontinuation						
	ELVN-001 Dose	# Prior TKIs	Ponatinib	Asciminib	Last Prior TKI	Resistant to other prior TKIs	Baseline MR Status	By 24 Weeks	
j	20mg	6	Intolerant	LOE	Intolerant (P)	I, D, B	MR4	MR5	2/5 patients improved MR
	40mg	2	LOE	LOE	LOE (P)		MR3	MR5	category by 24 weeks
	40mg	2			Intolerant (I)	D	MR3	MR3	
	80mg	3		LOE (A+D)	LOE (A+D)	N, D	MR3	MR3	
	80mg	3		LOE	LOE (A)	N, D	MR3	MR3	

- 4/5 patients were resistant to ponatinib and/or asciminib
- 3/5 patients were resistant to last prior TKI

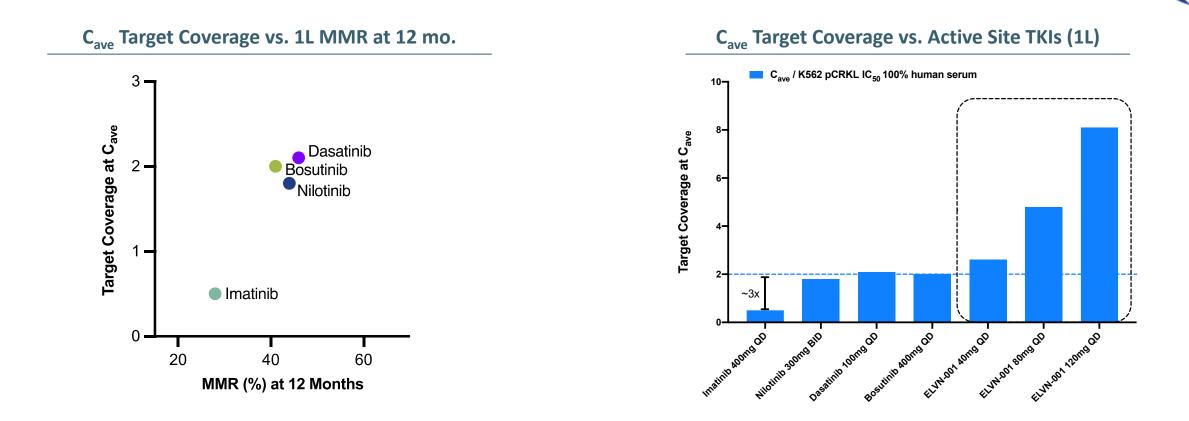
ELVN-001's PK Profile Supports Once Daily Dosing with Flexible Administration Requirements

- Linear PK observed in healthy volunteers (HV) and patients
 - No time-dependent PK observed in either HVs or cancer patients
 - Both C_{max} and AUC increased dose-proportionally
 - High concordance between HV and patient PK based on current data
- Fast and complete absorption with no significant food effect
- Mean terminal t_{1/2} is ~12 hours in healthy volunteers
 - Similar effective t_{1/2} observed in patients (10-20 hours)
 - Suitable for QD regimen
- Minimal risk of drug-drug interactions (DDIs)
 - Not an inhibitor (competitive or time-dependent) or inducer of major CYP enzymes, or of UGT1A1
 - Not a substrate for major CYP enzymes
 - Not a substrate of BCRP or P-gp
- No correlation between AEs and PK parameters in patients



- Food effect study at 120mg single dose in HVs showed that:
 - AUC_{inf} under fasting conditions were similar to that under fed conditions, with a fed/fasted AUC ratio of 1.2.
 - C_{max} under fasting conditions were similar to that under fed conditions, with a fed/fasted C_{max} ratio of 0.8.

ELVN-001 Achieved Superior Target Coverage Compared to 2nd Gen TKIs



At doses ≥ 40mg QD, ELVN-001 achieved better target coverage compared to 2nd Generation TKIs

1L = First line. 2nd Gen TKIs = bosutinib, dasatinib, nilotinib. C_{ave} = average concentration. CRKL = Crk like protein. MMR = Major molecular response. QD = Once daily. TKI = Tyrosine kinase inhibitor.

References: 1. Imatinib clin pharm in CML pts: Peng et al, Clin Pharmacokinet 2005. 2. Imatinib NDA. 3. Nilotinib USPI. 4. Dasatinib USPI. 5. Bosutinib USPI

MMR References: (Bosutinib) Cortes JE et al. J Clin Oncol. 2012; 30(28):3486-92; (Nilotinib and Imatinib) Saglio G et al. NEJM. 2010; 362(24):2251-9; (Dasatinib) Kantarjian H et al. NEJM, 2010; 362(24):226.

Notes: C_{ave} = Area under the curve (AUC) divided by 24 hours. For the approved drugs, human pharmacokinetic (PK) values were obtained from population PK (popPK) simulation data reported in respective USPIs or from Ref 1 (imatinib). ELVN-001 human PK values are the mean values from a preliminary popPK simulation based on PK from 78 healthy volunteer subjects; to date, there has been no significant difference between ELVN-001 PK in cancer patients and healthy subjects. In vitro cell pharmacodynamic measurements were performed head-to-head and represent the average value from multiple experiments (n>3). K562 cells were employed for these experiments. pCRKL IC₅₀ measurements were performed in the presence of 100% human serum.

ELVN-001 is Highly Selective for ABL1

- ELVN-001 has a very selective kinase profile
 - Clean against key off-target kinases in cells compared to 2nd and 3rd Gen TKIs
 - 372 kinases screened at 1 μ M compound (100 μ M ATP)
 - Kinases with >50% inhibition selected for IC_{50} determination
 - >100x window vs. all but 2 kinases profiled
- ELVN-001 is also very clean (>10 μ M) in an *in vitro* safety panel of >130 receptors

Cellular Phosphorylation IC₅₀ (nM)

	сКІТ	FLT3wt	PDGFRb	VEGFR2	cSRC
ELVN-001	>10,000	>10,000	>10,000	>10,000	>10,000
Ponatinib	30	3.8	89	4.8	630
Nilotinib	200	>10,000	720	2,900	>10,000
Dasatinib	0.6	>1,000	7.1	>1,000	10
Bosutinib	1,000	4,700	7,900	>10,000	16

ELVN-001 (100 µM ATP)

Kinase	IC ₅₀ (nM)
ABL1	1
ABL2/ARG	31
TRKC	41
TNIK	110
LOK/STK10	183
LRRK2	486
FGR	550
ACK1	698
FYN	725
HGK/MAP4K4	973
LCK	>1,000

Large window for ABL2/ARG may result in a favorable safety profile

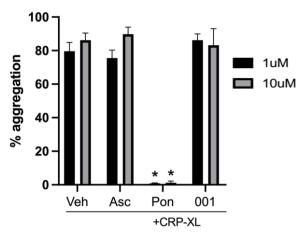
 2^{nd} Gen = Nilotinib, Dasatinib, Bosutinib. 3^{rd} Gen = Ponatinib. ATP = Adenosine triphosphate. IC₅₀ = half-maximal inhibitory concentration. TKI = Tyrosine kinase inhibitors. WT = Wild type. Note: IC values used to calculate fold shift represent an average derived from multiple runs internally with a minimum of two independent experiments. **Reference:** Abl kinases are required for vascular function, Tie2, and angiopoietin-1-mediated survival. Pendergast et al. *PNAS*. 2013;110(30):12432-7.

In contrast to Ponatinib, ELVN-001 Does Not Affect Platelet Activation or Function

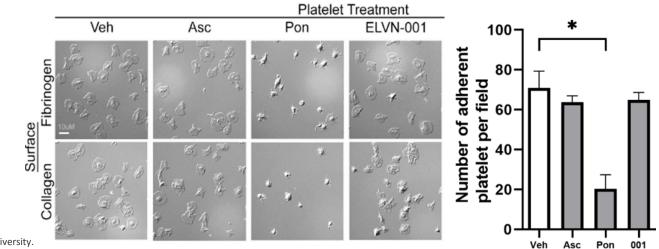
- Ponatinib, which has multiple black box warnings for cardiovascular toxicity, inhibits multiple platelet functions, including platelet activation, consistent with VEGFR inhibition
- ELVN-001 and asciminib have no effect on platelet function in vitro

Inhibitor [1 μM]	Platelet Spreading	Platelet Aggregation	GPIIbIIIIa Activation	α -granule secretion	PS Exposure	Fibrin Formation	Platelet Signaling
ELVN-001	No effect	No effect	No effect	No effect	No effect	No effect	No effect
Ponatinib	Inhibition	Inhibition	Inhibition	Inhibition	Inhibition	Inhibition	Inhibition
Asciminib	No effect	No effect	No effect	No effect	No effect	No effect	No effect

Platelet Aggregation

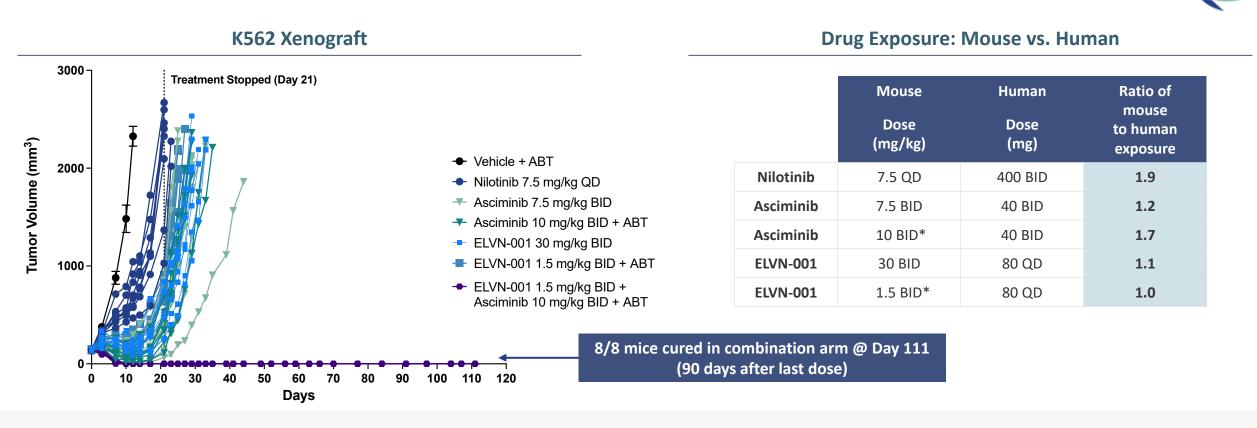


Platelet Spreading



Data courtesy of Owen McCarty, Yiheng Zhang, and Joseph Aslan at Oregon Health & Science University. PS = Phosphatidyl Serine. VEGFR = Vascular endothelial growth factor receptor. *Indicates statistical significance.

ELVN-001 + Asciminib Combination Elicits Cures at Physiologically Relevant (Human-Matched) Drug Exposures in Mice



- ELVN-001 elicits anti-tumor activity in this model comparable to asciminib and superior to nilotinib at their respective human-matched drug exposures
- Combination treatment with ELVN-001 + asciminib for 21 days at their respective human-matched drug exposures resulted in 8/8 cures in this model as

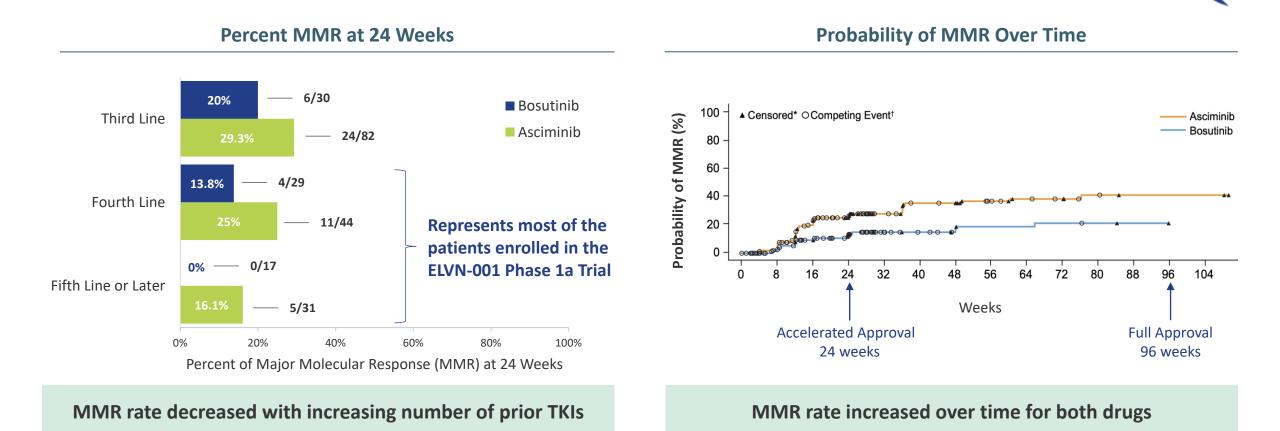
of Day 111 (90 days after treatment discontinuation); no cures observed in the monotherapy arms

Exposure: unbound fraction area under the curve (AUC); mouse exposure represents Day 1 PK values for nilotinib and asciminib and Day 5 (steady state) exposure for ELVN-001 and asciminib + ABT to take into account potential induction related to ABT administration. ELVN-001 human PK values are the mean values from a preliminary popPK simulation based on PK from 78 healthy volunteer subjects; to date, there has been no significant difference between ELVN-001 PK in cancer patients and healthy subjects. BID = Twice daily. QD = Once daily. Cure = no evidence of recurrent disease 90 days after last dose.

References: Nilotinib NDA & USPI.; Hughes TP et al. NEJM. 2019;381(24):2315-2326.

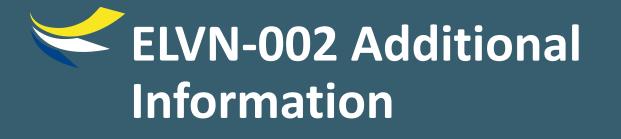
^{*}Co-dosed with ABT, a CYP inhibitor that increased the exposure of ELVN-001 in mouse PK studies to better mimic its human PK profile. PK studies were performed to confirm no significant drug-drug-interactions in combination; in fact, the combination resulted in slightly lower exposures compared to the respective monotherapy PK at the doses described.

Phase 1 Data Predicted Pivotal Trial Data Asciminib vs. Bosutinib in Late-Line CML (ASCEMBL)



- Cumulative MMR at 24 weeks for asciminib vs. bosutinib was 25% vs. 12%
- Dose reductions due to adverse events: 21% asciminib vs. 42% bosutinib*

CML = Chronic myeloid leukemia. MMR = Major molecular response. TKI = Tyrosine kinase inhibitor. *Median duration of exposure of 23.7 months for asciminib and 7 months for bosutinib. Note: overall MMR by 24 weeks was 25.5% for asciminib and 13.2% for bosutinib. **References:** Rea D et al., Blood. 2021.



The HER2+ Post-Enhertu[®] Market is Growing Appreciably

Trastuzumab Deruxtecan (Enhertu[®]) Is Augmenting the Canonical HER2+ Population

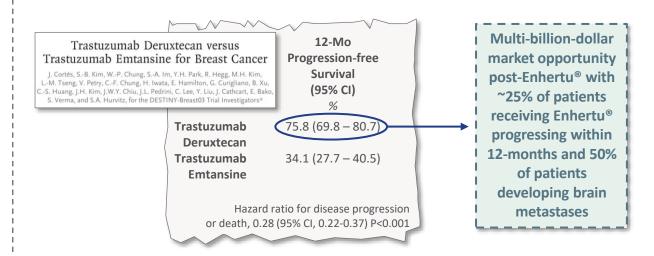


DESTINY-Breast04 trial established Enhertu[®] as the new SOC post 1L chemo in HER2-low MBC DAISY trial demonstrated encouraging activity in HER2-low & HER2-non-detected MBC

The Advent of HER2-Low Identification Efforts Further Broadens HER2+ Patient Population

- 1) Deep learning-based image analysis to produce a HER2 Quantitative Continuous Score (QCS), a novel approach to better identify patients with low-level expression who may benefit from a HER2-directed therapy
- 2) Other AI-mediated approaches designed to detect 'true' HER2 expression in spite of IHC classification through the use of H&E-stained tissue samples
- 3) Supplementing mass spec-standardized HER2 array with quantitative immunofluorescence to increase sensitivity of genetic amplification beyond conventional assays

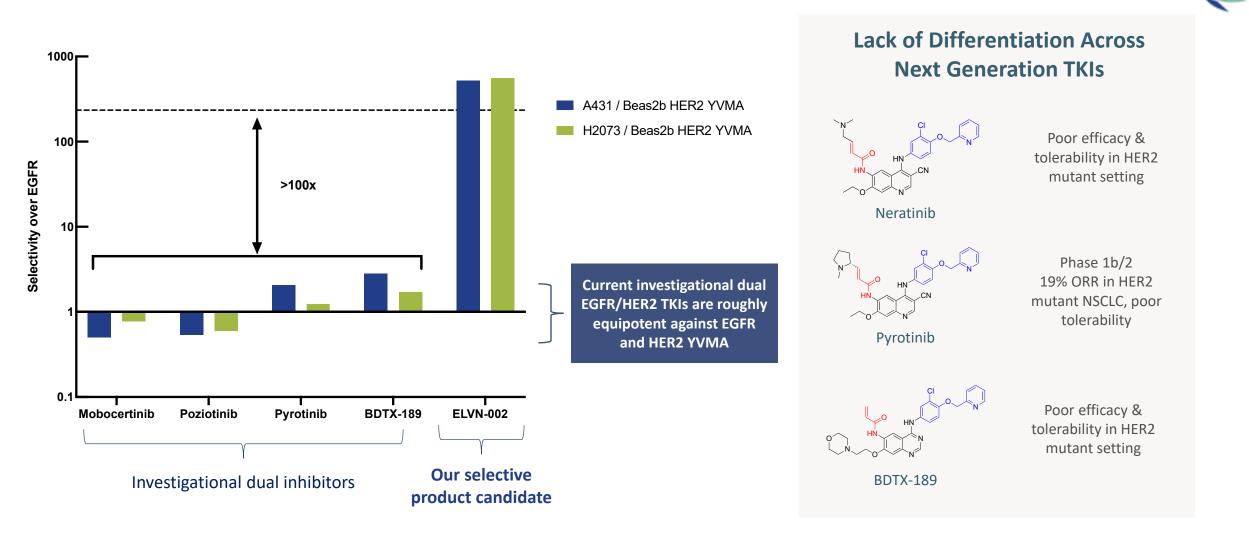
Post-Enhertu[®] Market Is Substantial and Represents a Land Grab Opportunity



Systemic Therapy for Advanced Human Epidermal Growth Factor Receptor 2–Positive Breast Cancer: ASCO Guideline Update

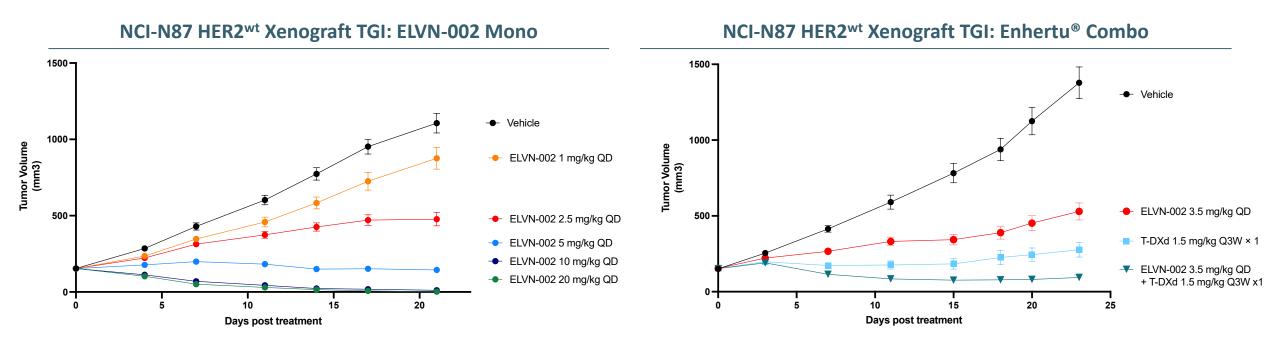
"Trastuzumab, pertuzumab, and taxane for first-line treatment and trastuzumab deruxtecan for second-line treatment are recommended. In the third-line setting, clinicians should offer other HER2-targeted therapy combinations. There is a lack of head-to-head trials; therefore, there is insufficient evidence to recommend one regimen over another."

ELVN-002 was >100x More Selective for HER2 YVMA Over EGFR Compared to Dual EGFR/HER2 TKI Competitors



EGFR = epidermal growth factor receptor. HER2 = human epidermal growth factor receptor 2. NSCLC = Non-small cell lung cancer. ORR = Overall response rate. TKI = Tyrosine kinase inhibitor. Note: IC values represent an average derived from multiple runs internally with a minimum of two independent experiments.

ELVN-002 Demonstrated Robust Anti-Tumor Activity & Additive Activity in Combination with Enhertu[®] at Well-Tolerated Doses



- ELVN-002 yielded deep tumor regressions in the NCI-N87 xenograft model, and all doses tested were well-tolerated
- Low dose ELVN-002 combined with Enhertu® resulted in additive activity and deep tumor regressions in the same model
- In contrast to reversible inhibitors like tucatinib, irreversible inhibitors have been shown mechanistically to drive increased receptor internalization, and there is both preclinical and clinical precedent for additive activity upon combining irreversible TKIs with ADCs in HER2-driven settings