



**ELVN-001 Initial Proof of Concept Data
and the Evolving CML Landscape**

April 11, 2024

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Today's Agenda



1 Introduction

2 The Evolving Chronic Myeloid Leukemia (CML) Landscape & ELVN-001 Preclinical Profile

3 Understanding Clinical Benefit in CML

4 ELVN-001 Phase 1a Initial Proof of Concept Data

5 Discussion with Leading CML Investigator KOLs

6 Q&A

The Enliven Story: a Clinical-Stage Precision Oncology Company



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



Capital-efficient approach on **high potential programs** aiming to develop **first-in-class** or **best-in-class** candidates



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

Pipeline & Discovery Programs Address New and Emerging Unmet Needs



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	monotherapy					Phase 1a Safety/Efficacy	April 11, 2024
ELVN-002	HER2 & HER2 mutants	Irreversible, highly selective, CNS penetrant	NSCLC, other solid tumors	Monotherapy	monotherapy					Phase 1 Safety/Efficacy	2025
			HER2+ MBC and CRC	Combination	+ trastuzumab +/- chemotherapy					Phase 1a Safety/Efficacy	



Multiple discovery stage efforts ongoing at various stages

On Today's Call



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Senior Physician of
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Goethe University Hospital
& CML Trial Investigator for
ELVN-001



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Sam Kintz, M.B.A.
Co-founder, Chief Executive
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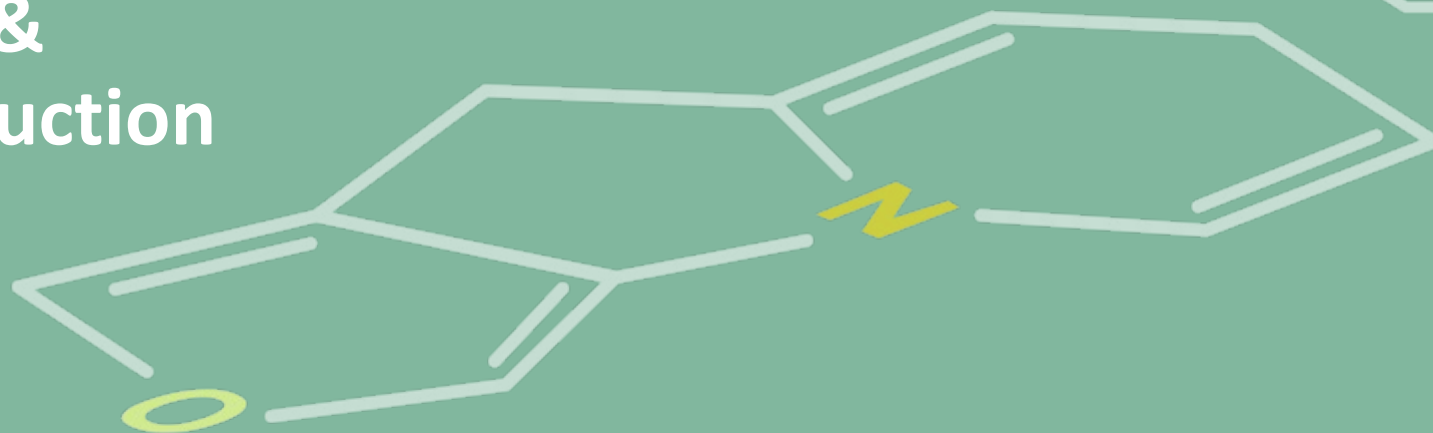


Helen Collins, M.D.
Chief Medical Officer of
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Damiette Smit, M.D.
VP of Clinical Development
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CML Landscape & ELVN-001 Introduction



CML is Now a Long-Term Condition

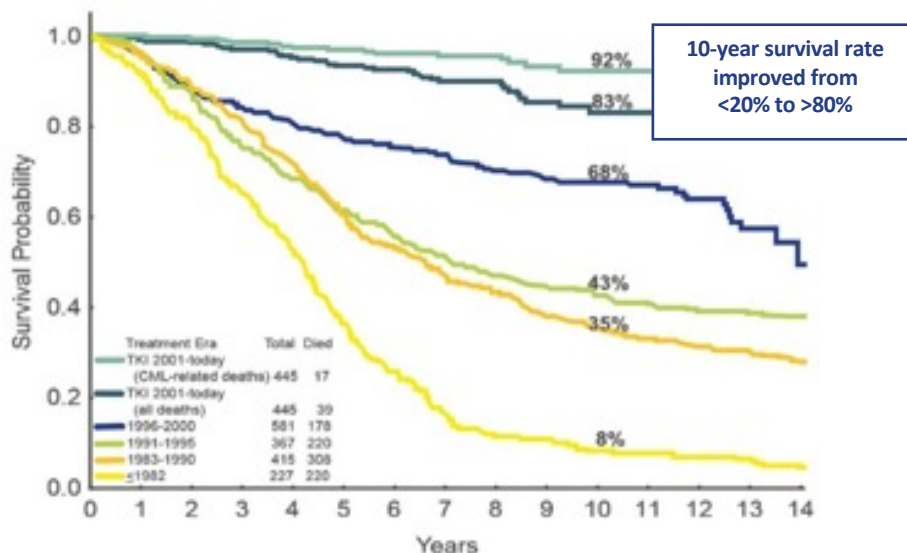


As patients live longer on treatment, **quality of life** and **tolerability** have become important treatment goals

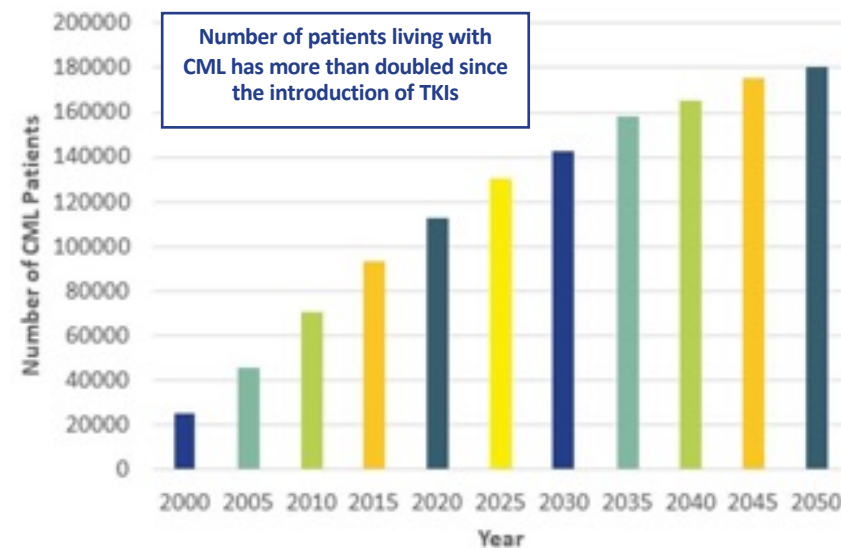
Prior to imatinib, the annual CML survival rate was

<20%

CML 10-Year Survival Rate Over Time



Estimated Prevalence of CML in the US Over Time



- Prevalence is increasing globally with expected overall survival approaching age-matched controls
- CML has become a chronic disease that can require life-long TKI-treatment

Top Treatment Goals for Physicians and Patients*



Maintain or improve quality of life



Manageable side effects

CML = Chronic myeloid leukemia. FIH = First-in-human. MMR = Major molecular response. TFR = Treatment-free remission. TKI = Tyrosine kinase inhibitors.

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.

*For patients who have received two prior therapies.

Significant Need Remains for Better Treatment Options for CML



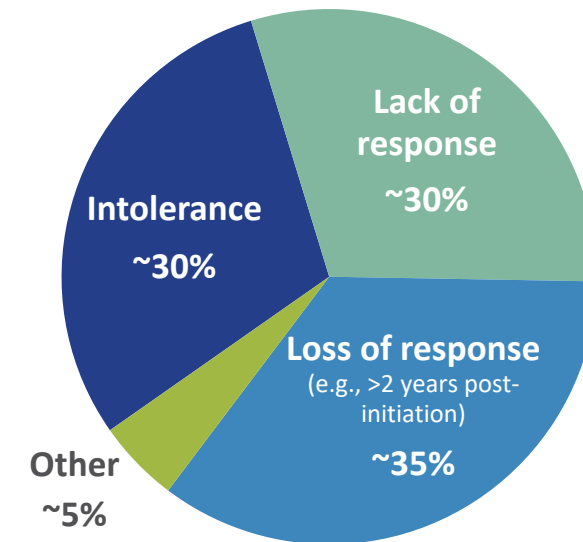
Challenges with Current Standard of Care

- Approximately **1 in 5 patients switch therapy** within the first year and **~40%** of patients switch in the first 5 years (1L & 2L)
- **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 treatment-free remission (TFR)

77% of HCPs indicated need for more effective, safe, and tolerable agents for CML

Switching Dynamics Demonstrate Unmet Need

Rationale for Switching Treatment



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)

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



Compound	Company	T3151 Coverage	Off Target(s) & Treatment-Emergent, Non-Hematologic Adverse Events (All Gr / Gr 3+)		1L Efficacy	Drug & Administration Requirements	Annualized Sales (USD)‡
2 nd Gen	Imatinib (Gleevec®)	X	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 (Sprycel®)	X	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	\$2.1B
	Nilotinib (Tasigna®)	X	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®)	X	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	\$725M
3 rd Gen	Ponatinib (Iclusig®)	✓	KDR, FGFR, c-KIT, RET, FLT3, PDGFR	Black Box: Arterial Occlusive Events, Heart Failure, VTE, Hepatotoxicity	N/A	Avoid strong CYP3A inhibitors or inducers	\$500M
	Asciminib (Scemblix®)	✓ (US, high dose only)	N/A	Hypersensitivity (32% / 2%) Hypertension (19% / 9%) Cardiovascular (13% / 3.4%)	Expected 2024	Avoid CYP2C9 substrates and certain statins; avoid food 2 hours before and 1 hour after each dose	\$500M

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

1L = Front line. GI = Gastrointestinal. Gr = Grade. FY = Fiscal Year. MMR = Major Molecular Response. MR4.5 = Deep Molecular Response. PPI = Proton pump inhibitors. 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 \$25 million increment from Company Investor Reports.

References: 1. Gleevec® (imatinib) USPI; 2. Sprycel® (dasatinib) USPI; 3. Kantarjian H et al. *NEJM*, 2010; 362(24):2260-70; 4. Cortes JE et al. *J Clin Oncol*. 2016; 34(20):2333-40; 5. Tasigna® (nilotinib) USPI; 6. Saglio G et al. *NEJM* 2010; 362(24):2251-9; 7. Hochhaus A et al. *Leukemia*. 2016; 30(5):1044-54; 8. Bosulif® (bosutinib) USPI. 9. Cortes JE et al. *J Clin Oncol*, 2012; 30(28):3486-92; 10. Iclusig® (ponatinib) USPI; 12. Scemblix® (asciminib) USPI.

Review of Asciminib (Scemblix®), 4th Generation Allosteric TKI



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** (PgP & 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

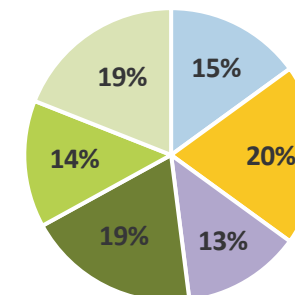
US 3L+ Approval	Q4 2021
EU 3L+ Approval	Q3 2022
1L Data Readout	H1 2024

\$125M
4Q23 Sales

\$500M of
annualized sales

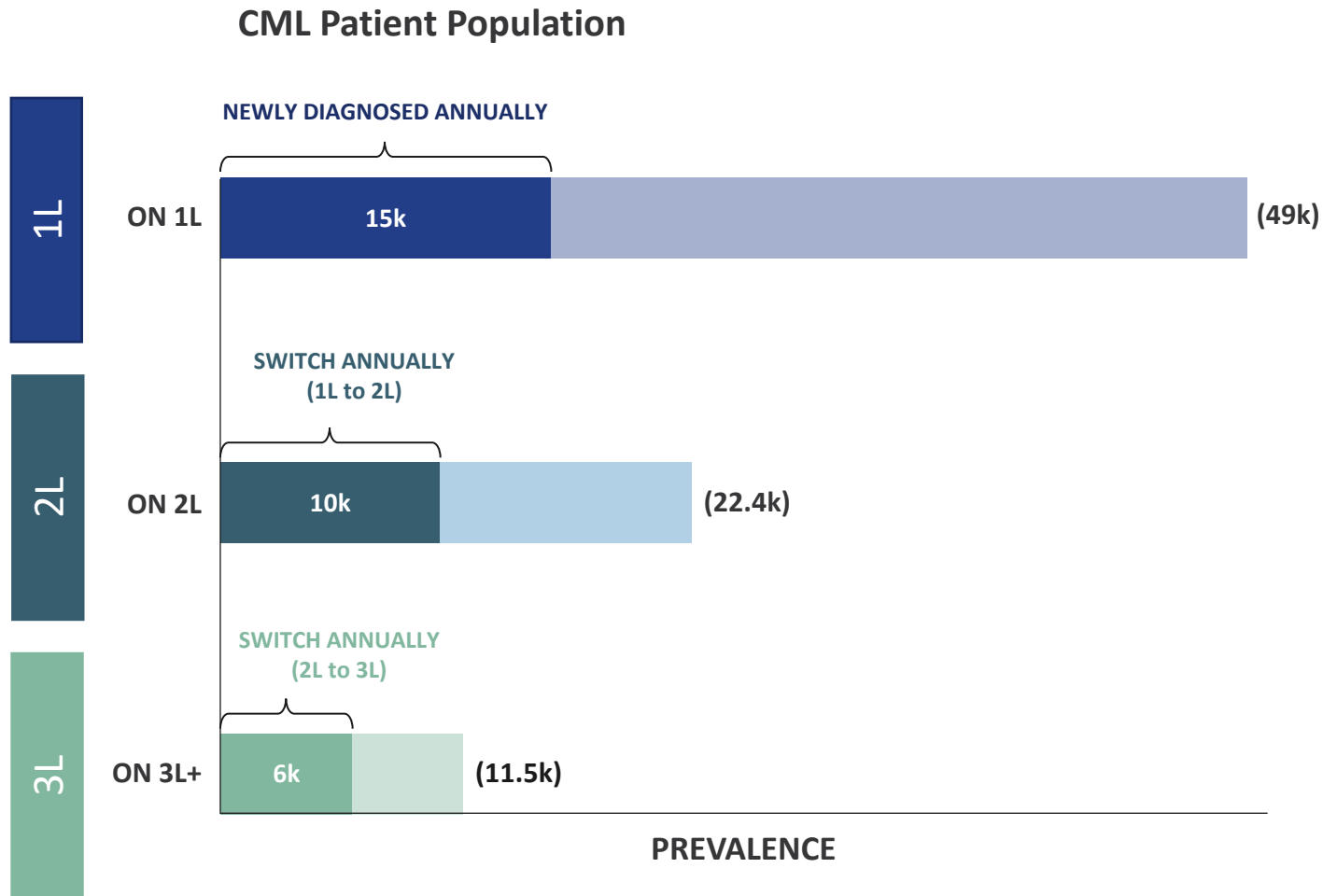
Current 3L+ Market Dynamics

- Asciminib
- Ponatinib
- Imatinib
- Nilotinib
- Dasatinib
- Bosutinib

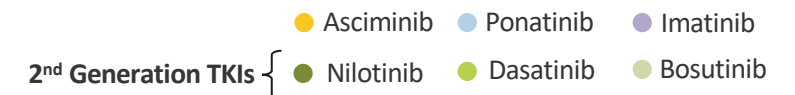
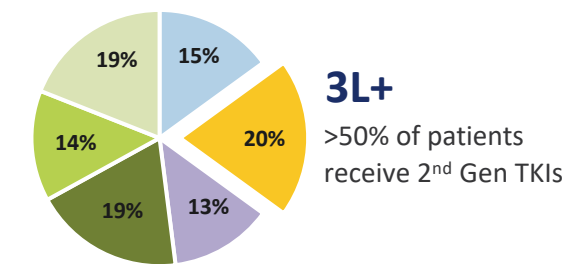
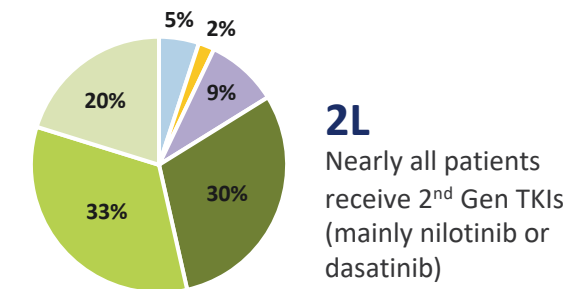
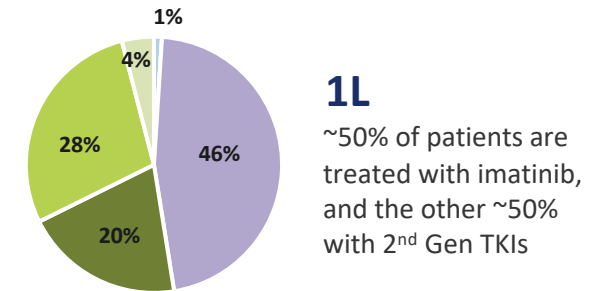


~\$2B
implied market size
in 3L+ alone

Asciminib has the Potential to Disrupt Early Line Standard of Care



CML Treatment Landscape



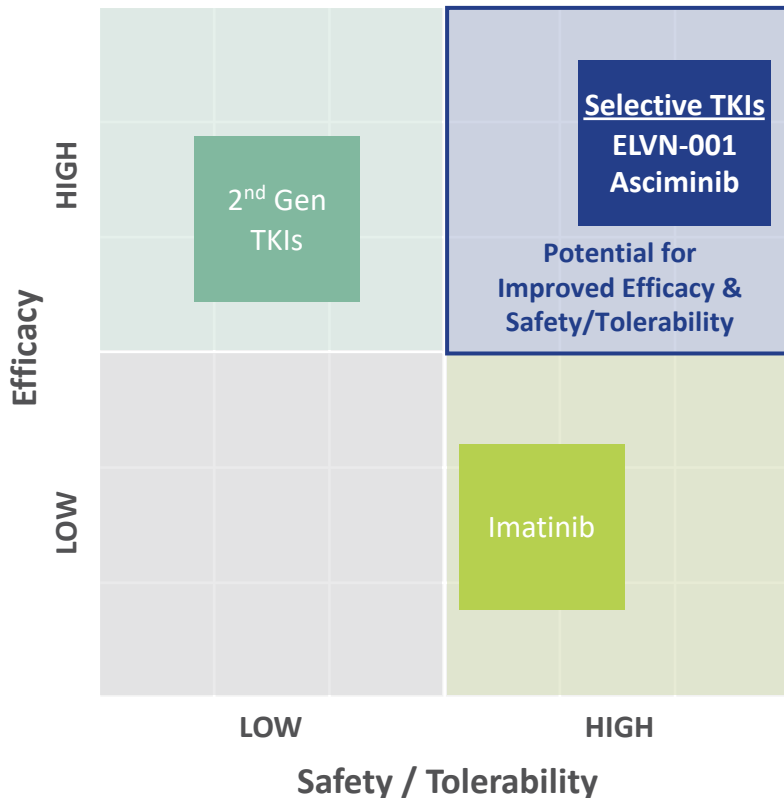
1L = First line. 2L = Second line. 3L+ = Third line or later. CML = Chronic myeloid leukemia. Gen= Generation. TKI = Tyrosine kinase inhibitor.
 References: November 2023 Novartis R&D Investor Event. HCP Qualitative & Quantitative Interviews (ClearView).

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



Limitations of Current Treatment Paradigm

(if data supports)



Future Treatment Paradigm

(if data supports)

1L	1 st Gen TKI Imatinib	4 th Gen TKI Asciminib
2L	4 th Gen TKI Asciminib	ELVN-001
3L+	ELVN-001	ELVN-001

Market Insights & Assumptions

Asciminib could capture significant 1L market share given potentially superior efficacy compared to imatinib & improved tolerability compared to 2nd Gen TKIs

ELVN-001 is well positioned to follow asciminib given its unique binding mode and complementary MoA (ATP-site/active form vs. allosteric/inactive form)

With more early line use of asciminib, there may be a significant need for treatment options with improved efficacy & tolerability in later lines

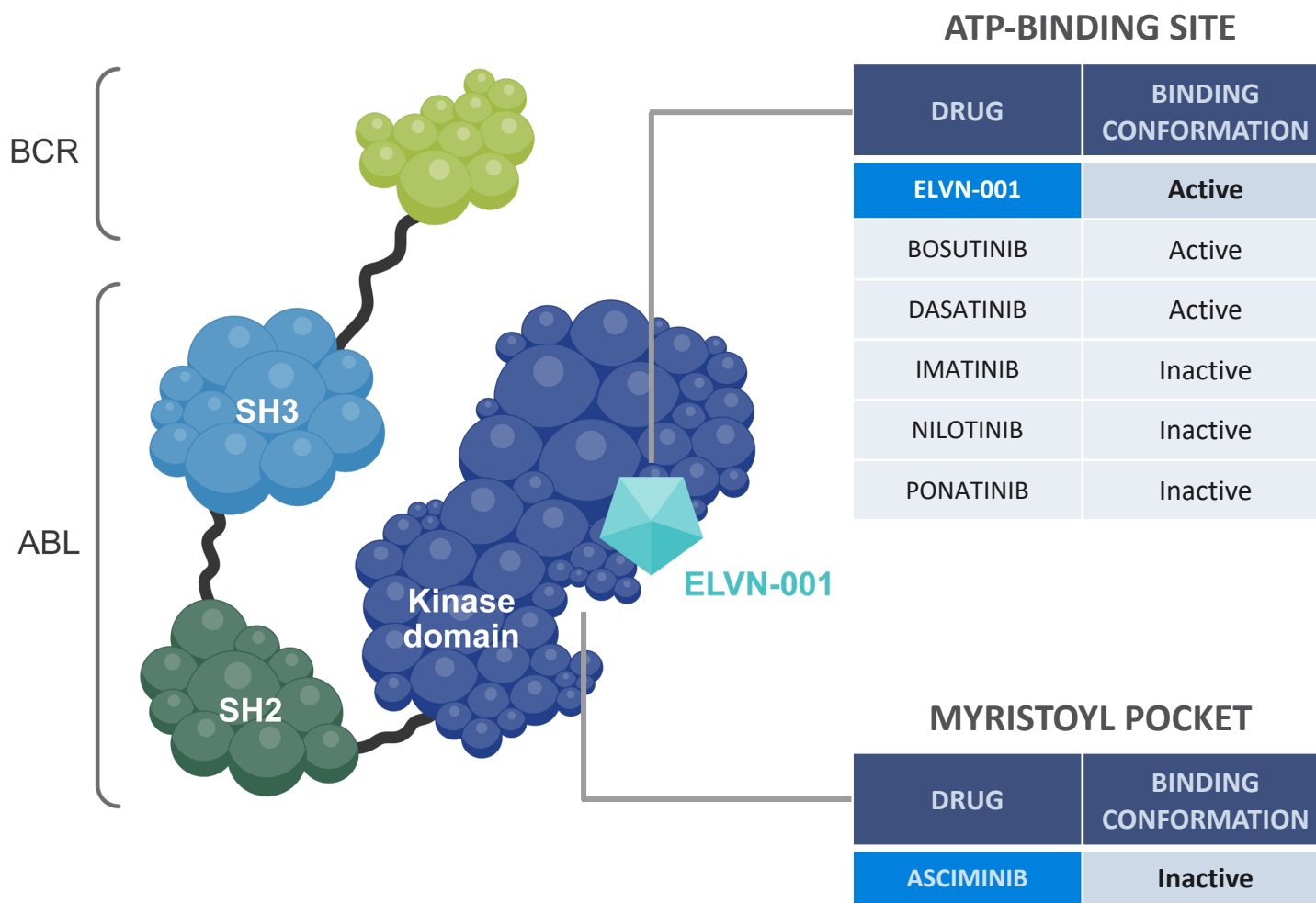
- Initial opportunity to address the ~16k patients who switch therapies annually in 2L+ CML
- Additionally, an opportunity may exist to compete directly with asciminib across lines of therapy based on differentiated efficacy, tolerability or administration requirements

1L = First line. 2L = Second line. 2L+ = Second line or later. 3L+ = Third or later line. Gen = Generation. 2nd Gen TKIs = Nilotinib, Dasatinib, Bosutinib. 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



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
- 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. CML = Chronic myeloid leukemia. BCRP = Breast cancer resistance protein. P-gp = P-glycoprotein. TKI = Tyrosine kinase inhibitors.

References: Braun T. et al. *Cancer Cell* 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 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 IC₅₀ 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)

	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

ELVN-001 (100 μ M 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

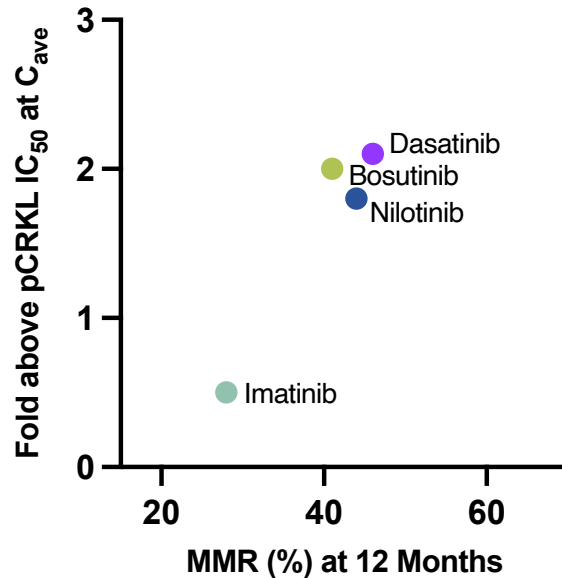
Large window for ABL2/ARG may result in a favorable safety profile

2nd Gen = Nilotinib, Dasatinib, Bosutinib. 3rd Gen = Ponatinib. ATP = Adenosine triphosphate. TKI = Tyrosine kinase inhibitors.
 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.

ELVN-001 Potentially Affords an Improved Therapeutic Index

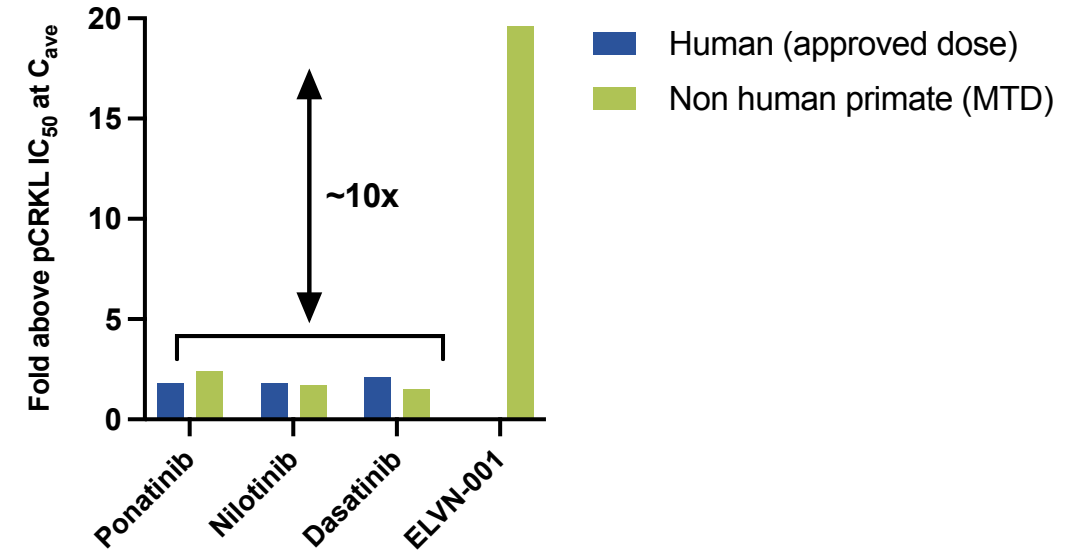


Target Coverage at C_{ave} vs. 1L MMR



- Clear correlation between target coverage of the approved active site agents and 1L MMR at 12 months (from H2H pivotal studies)
- Phosphorylated CRKL or pCRKL IC₅₀ represents a robust pharmacodynamic marker for BCR::ABL1 inhibition

Therapeutic Index vs. NHP Safety Margin



- Toxicology studies with other ABL TKIs show that the maximum tolerated drug exposure is similar between non-human primates and humans*
- Data suggests ELVN-001 has the potential for a significantly greater therapeutic index than approved active site TKIs

1L = First line. CRKL = Crk like protein. H2H = Head-to-head. MMR = Major molecular response. MTD = Maximum tolerated dose. NHP = Non-human primate.

NHP data for ponatinib, nilotinib, and dasatinib were obtained from the data reported for the maximum tolerated dose (MTD) in their respective New Drug Applications. NHP data from 28-day GLP tox study for ELVN-001 at 5 mg/kg, a well tolerated, no adverse event dose (NOAEL).

*No data for bosutinib in NHPs available.

y-axis: mean C_{ave} plasma concentration at the human approved dose (or NHP MTD) divided by K562 pCRKL IC₅₀ in 100% human serum; C_{ave} = steady state plasma exposure area under the curve, AUC (ng*hr/mL), divided by 24 hours

Note: IC values represent an average derived from multiple runs internally with a minimum of three independent experiments.

References: Human PK References: (Imatinib) Peng et al. *J Clin Oncol.* 2004; 22:935-942.; (Nilotinib) Tasigna® USPI; (Bosutinib) Bosulif® USPI; (Dasatinib) Spycel® USPI; (Ponatinib) Iclusig® 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.

BCR::ABL1 Mutations Conferring Resistance to Asciminib (ASCEMBL)



ELVN-001 maintains activity against the emerging BCR::ABL1 mutations known to confer resistance to asciminib and activity against T315I similar to ponatinib

Emerging BCR-ABL mutations upon discontinuation due to lack of efficacy or progressive disease

	Asciminib (n=39)	Bosutinib (n=30)
No Mutations	22 (56%)	20 (67%)
ATP Binding Site	M244V (n=3), E355G, F359V, T315I	T315I, V299L
Myristoyl Binding Pocket	A337T (n=3), P465	None

Fold Shift from BCR::ABL1 wt (Ba/F3 Cells)

	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
Vodobotinib	445	2	1	3	10	7	2
Olverembatinib	5	2	1	3	6	6	2

Most frequent mutation at baseline and end of treatment in patients that switched off asciminib in ASCEMBL*

*ASCEMBL: A phase 3, open-label, randomized study of asciminib vs bosutinib in CML after 2 or more prior TKIs. CML = Chronic myeloid leukemia. TKI = Tyrosine kinase inhibitor.

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

References: Rea et al., Blood (2021) 138 (21): 2031–2041.

ELVN-001 Clinical Focus and Target Product Profile



Our Opportunity

Drive Deeper Responses

Improve Tolerability

Enhance Safety & Convenience

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



Phase 1b: Expansions

- Begin enrolling earlier lines of patients
- Seek to demonstrate the potential for improved tolerability and efficacy compared to 2nd Gen TKIs
- Generate data supportive of an early line pivotal study



Current Goal: Early Line H2H vs Physician's Choice

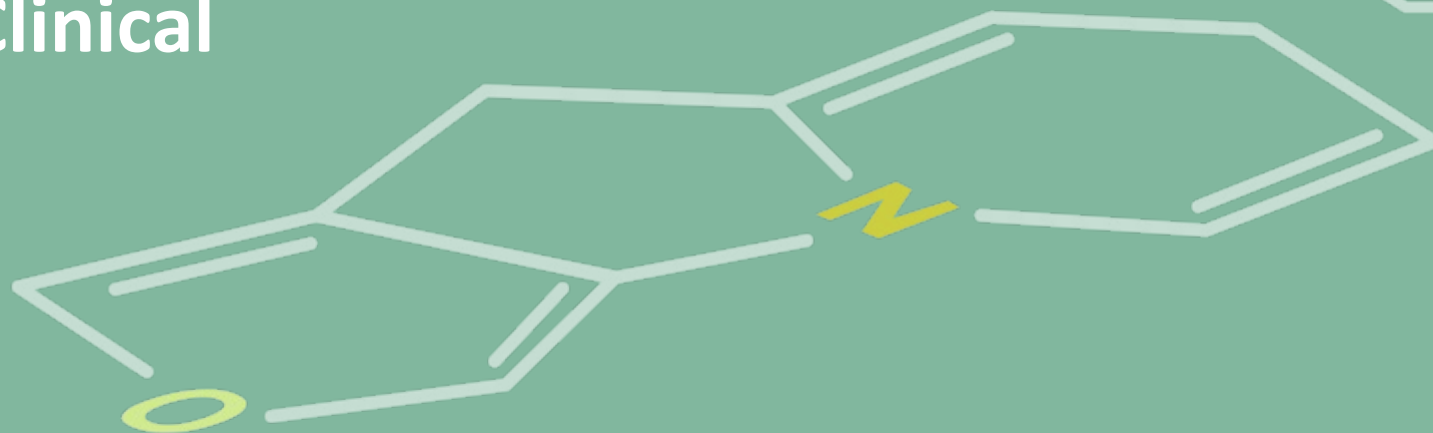
- Superiority based on 6m and 12m MMR in CP-CML
- Better overall tolerability, fewer dose reductions & discontinuations vs. approved agents



Optionality: 4L+ and T315I mutation

- Single-arm study; precedent for approval in late line based on CCyR/MR2 (ponatinib, OPTIC trial)
- T315I mutation in ponatinib or asciminib progressed, intolerant or ineligible

Understanding Clinical Benefit in CML



The Standard Clinical Endpoint in CML is Molecular Response



1

Hematologic Response

- Measured by blood test and physical examination
- Normalization of white blood cell and platelet count without immature cells, such as blasts, in peripheral blood
- No signs or symptoms of disease, including resolution of palpable splenomegaly

2

Cytogenetic Response

- Best measured by bone marrow sample
- Percent of bone marrow cells with Philadelphia chromosome by FISH/karyotype (cytogenetic test)

3

Molecular Response

- Measured by blood test
- Number of copies of the BCR::ABL1 transcript in blood (qPCR)
- **Evolving into the standard of care in assessing treatment response in CML**

Molecular Response Milestones



BCR::ABL1 Transcript Level	Molecular Response	Relevance
≤ 10%	MR1	<ul style="list-style-type: none"> Even in 3L+ setting insufficient for optimal survival
≤ 1%	MR2	<ul style="list-style-type: none"> Equivalent to complete cytogenetic remission (absence of Philadelphia chromosome) by bone marrow biopsy
≤ 0.1%	MR3	<ul style="list-style-type: none"> ≥ MR3 is also known as a major molecular response (MMR) Has become a key regulatory endpoint as this predicts close to 100% CML-specific survival
≤ 0.01%	MR4	<ul style="list-style-type: none"> MR4/4.5 lasting ≥ 2 years has been used as a benchmark to stop treatment (typically in earlier line treatment), which is the ultimate goal
≤ 0.0032%	MR4.5	
≤ 0.001%	MR5	

≥ 1 log reduction in BCR::ABL1 transcript levels is a meaningful indication of efficacy

There is no standard definition of an acceptable response to third, fourth or fifth-line treatment

3L+ = Third line or later. CML = Chronic myeloid leukemia. Molecular response in CML is measured by the ratio of BCR::ABL1/ABL1.
 References: Hochhaus, et al. Leukemia 2020; NCCN Guidelines 2.2024.

Switching TKIs is Usually Due to Lack of Efficacy or Intolerance



Lack of Efficacy (LOE)

- Often used interchangeably with resistance or loss of efficacy, is assessed based on molecular parameters
 - 1L/2L: switching is recommended after failure to meet specific molecular milestones at 3, 6 and 12 months, loss of an already achieved milestone (e.g., loss of MMR), or development of resistance mutations or high-risk chromosomal abnormalities
 - 3L+: no standard recommendation of when to switch therapies

Intolerance

- Inability to take TKI due to side effects that do not respond to dose reduction or medical management
 - Hematologic side effects, such as cytopenias (low blood cell counts), occur with all TKIs and are rarely a cause of treatment changes
 - Non-hematologic side effects are the most common reason to switch (due to medical necessity or reduction in quality of life)
- Tolerability is an increasingly important consideration as therapy is often lifelong and multiple TKIs are available

Disease Progression

- Progression to blast crisis, which is rare in CML, and is associated with a change in the treatment paradigm

Treatment goal for late-line patients is often to achieve MMR and/or maintain MMR with a good quality of life

Phase 1 Data in Late-Line CML from Most Recently Approved TKIs



	Asciminib Phase 1 (2019)	Bosutinib Phase 1 (2012)
Demographics (Prior TKIs)	1	2 (2%)
	2	30 (27%)
	≥ 3	81 (72%)
Efficacy (Non-T315I)	Cumulative MMR by 6 months	37/99 (37%)
	TKI-Resistant (other than ponatinib*)	3/28 (11%)
	Response Achieved	19/80 (24%)
	Response Maintained	18/19 (95%)
Safety / Tolerability	6% discontinued due to adverse event (median follow-up 13.7 months)	20% discontinued due to adverse event (median follow-up 28.5 months)
	Although asciminib achieved an overall MMR rate of 37% by 6 months, the response rate was only 11% in TKI-resistant patients	Despite a less heavily pre-treated patient population and longer follow-up, bosutinib only achieved an overall MMR of 15%

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

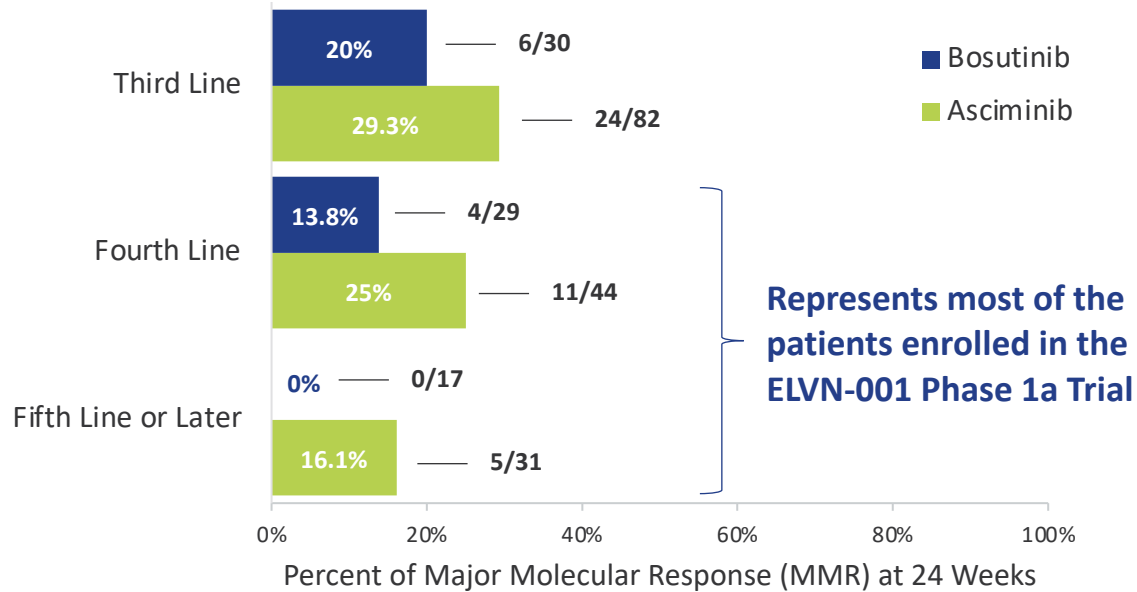
*Asciminib in ponatinib-resistant patients: MMR by 6 mo. = 0% (n=4). These data are derived from different clinical trials at different points in time, with differences in trial design and patient populations. As a result, conclusions from cross-trial comparisons cannot be made.

References: Hughes et al., NEJM 2019; Khoury HJ et al. Blood. 2012.

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

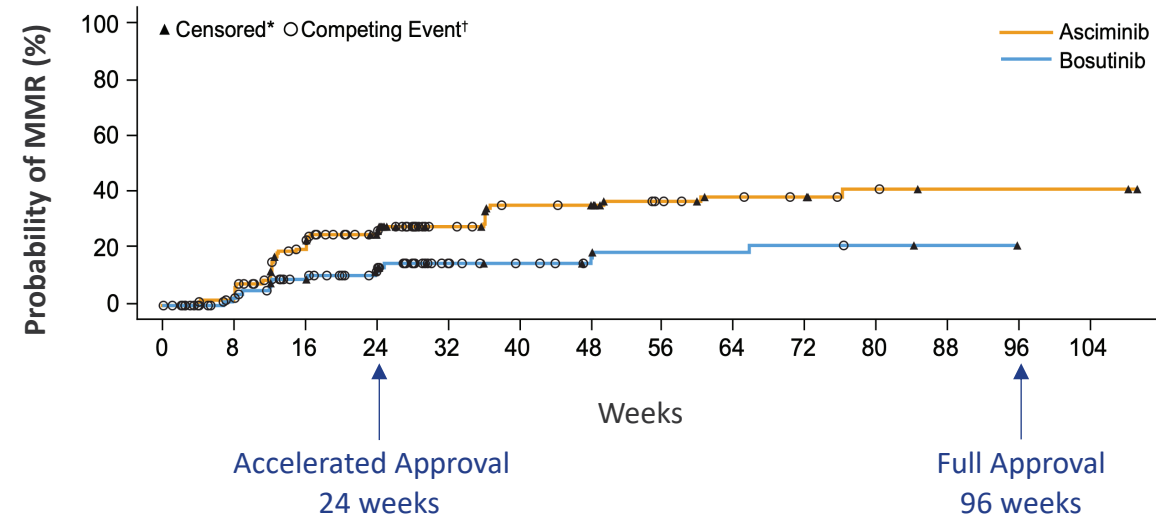


Percent MMR at 24 Weeks



MMR rate decreased with increasing number of prior TKIs

Probability of MMR Over Time



MMR rate increased over time for both drugs

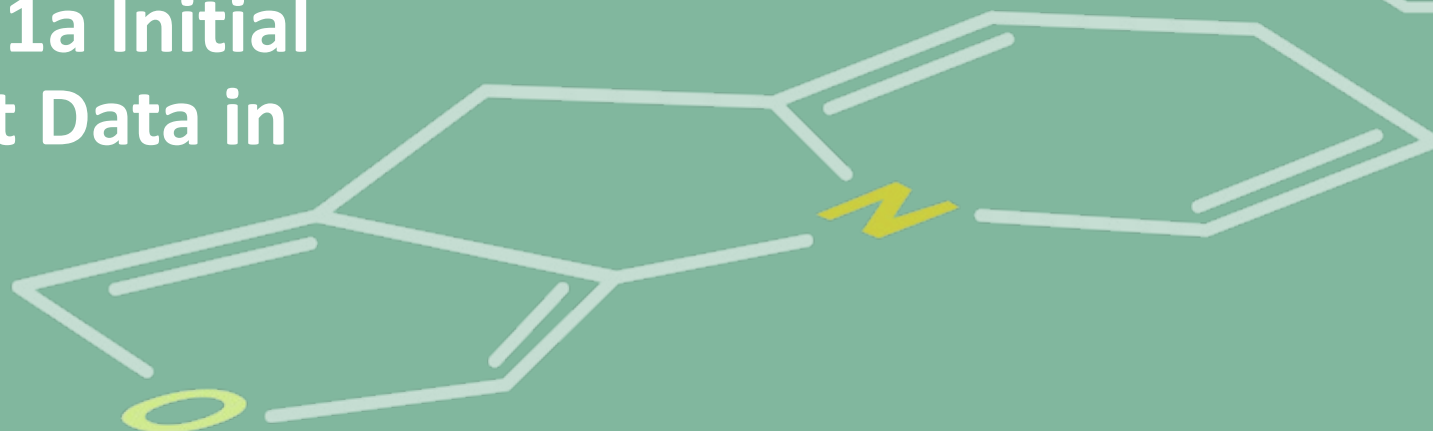
- Cumulative MMR at 24 weeks for asciminib vs. bosutinib was 25% vs. 12%
- Dose reductions due to adverse events: 21% asciminib vs. 42% bosutinib*

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.

**ELVN-001 Phase 1a Initial
Proof of Concept Data in
CML**

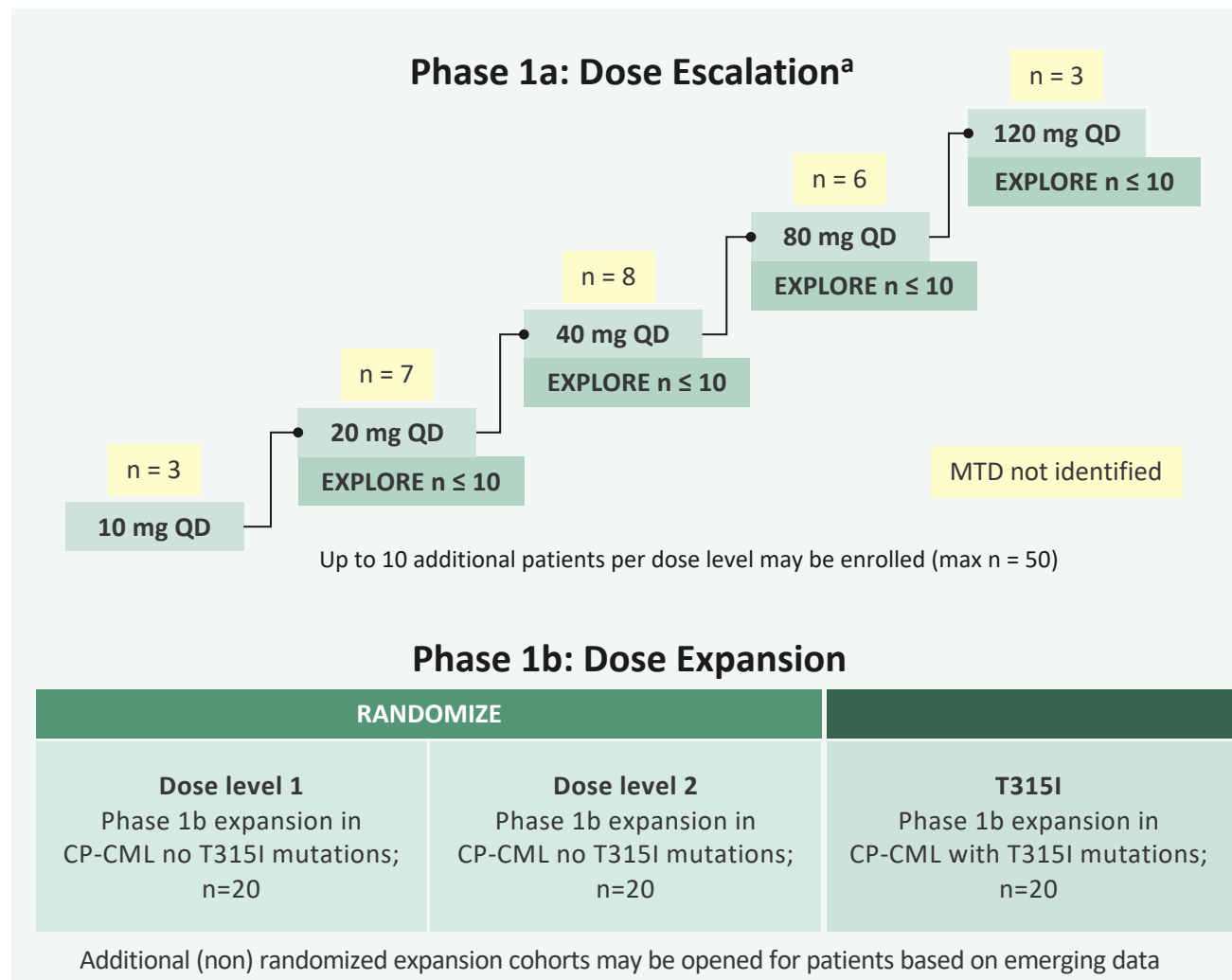


ELVN-001 Phase 1 Trial Design



Key eligibility criteria:

- Chronic Phase CML (CP-CML)
- Failed, intolerant to, not a candidate for, available therapies known to be active for treatment of their CML



Primary endpoint:

- Safety^b

Key secondary endpoints (Phase 1a^c):

- Pharmacokinetics parameters
- Molecular response (MR) by central qPCR (measured every 4 weeks x 6, then every 12 weeks)

QD = Once daily. CML = Chronic myeloid leukemia. CP = Chronic phase. qPCR = quantitative reverse transcriptase polymerase chain reaction. MTD = Maximum tolerated dose.

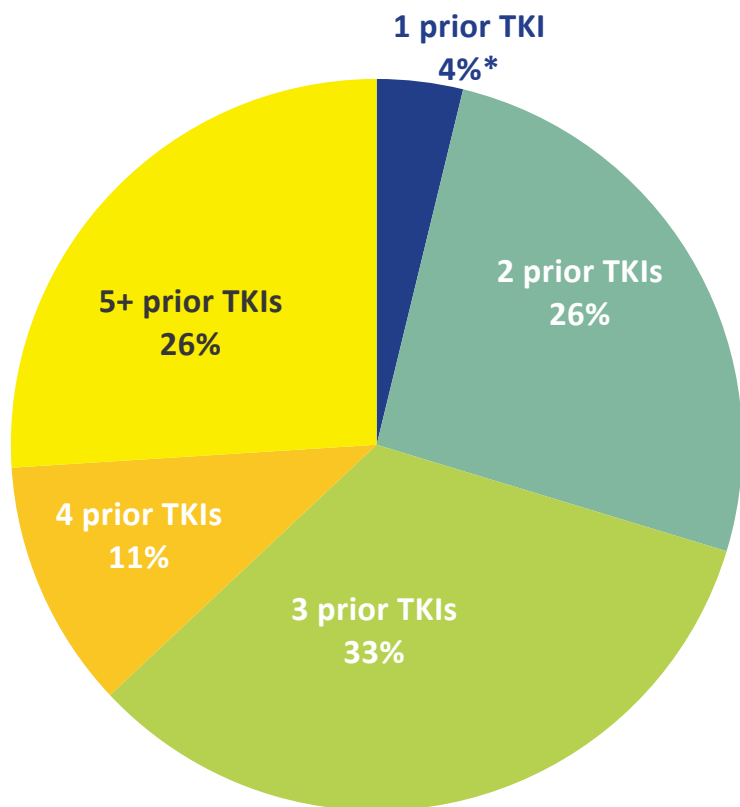
a. Re-enrollment and intra-subject dose escalation allowed if meeting specific criteria; b. incidence of dose limiting toxicities, adverse events, clinically significant laboratory abnormalities and ECG abnormalities; c. Phase 1b secondary endpoints: duration of MR, BCR::ABL1 qPCR ≤ 1%, complete hematological response.

ELVN-001 Phase 1a Enrolled a Heavily Pretreated Patient Population



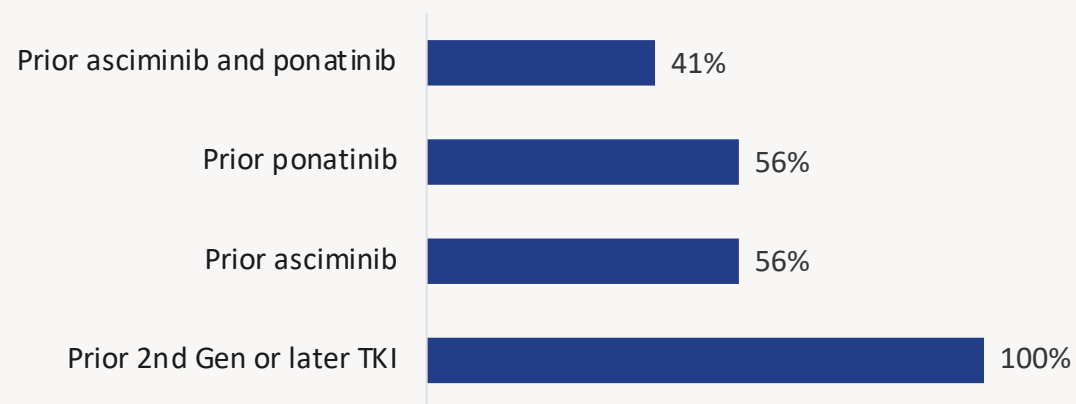
70% of patients had ≥ 3 prior TKIs

Number of different prior TKIs (% of patients enrolled)



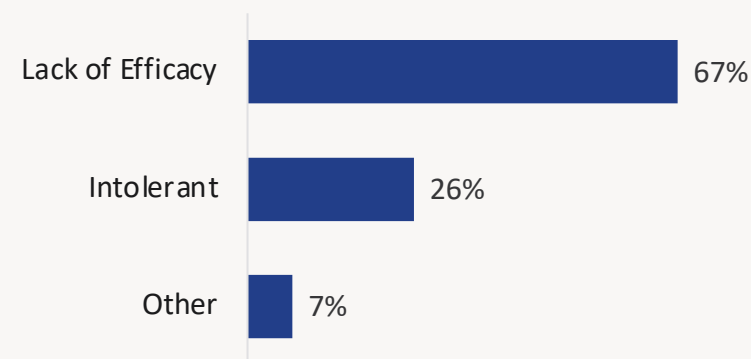
70% patients have received prior ponatinib and/or prior asciminib

Patient treatment status by previous TKI (% of patients enrolled)



The most common reason for discontinuing prior TKI was lack of efficacy

Reason for discontinuation of last therapy (% of patients enrolled)

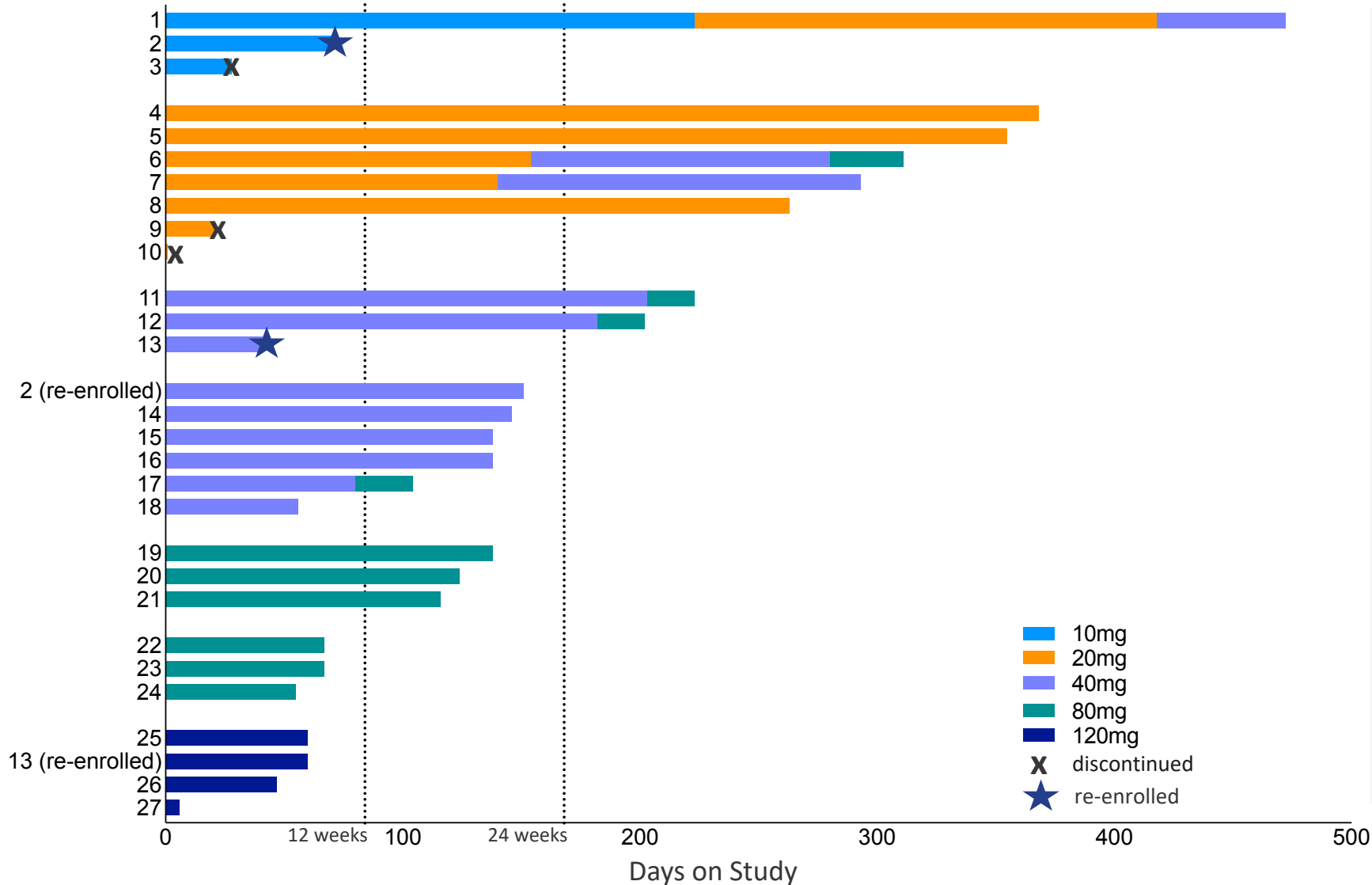


TKI = Tyrosine kinase inhibitor. 2nd Gen = 2nd Generation = dasatinib, nilotinib/radotinib, bosutinib.

*1 patient identified as ineligible after 1 dose. Also, 1 patient recategorized from 1 to 3 prior lines of therapy based on data received after data extraction date.

Median Time on ELVN-001 at Cutoff was 18 Weeks (~4 months)

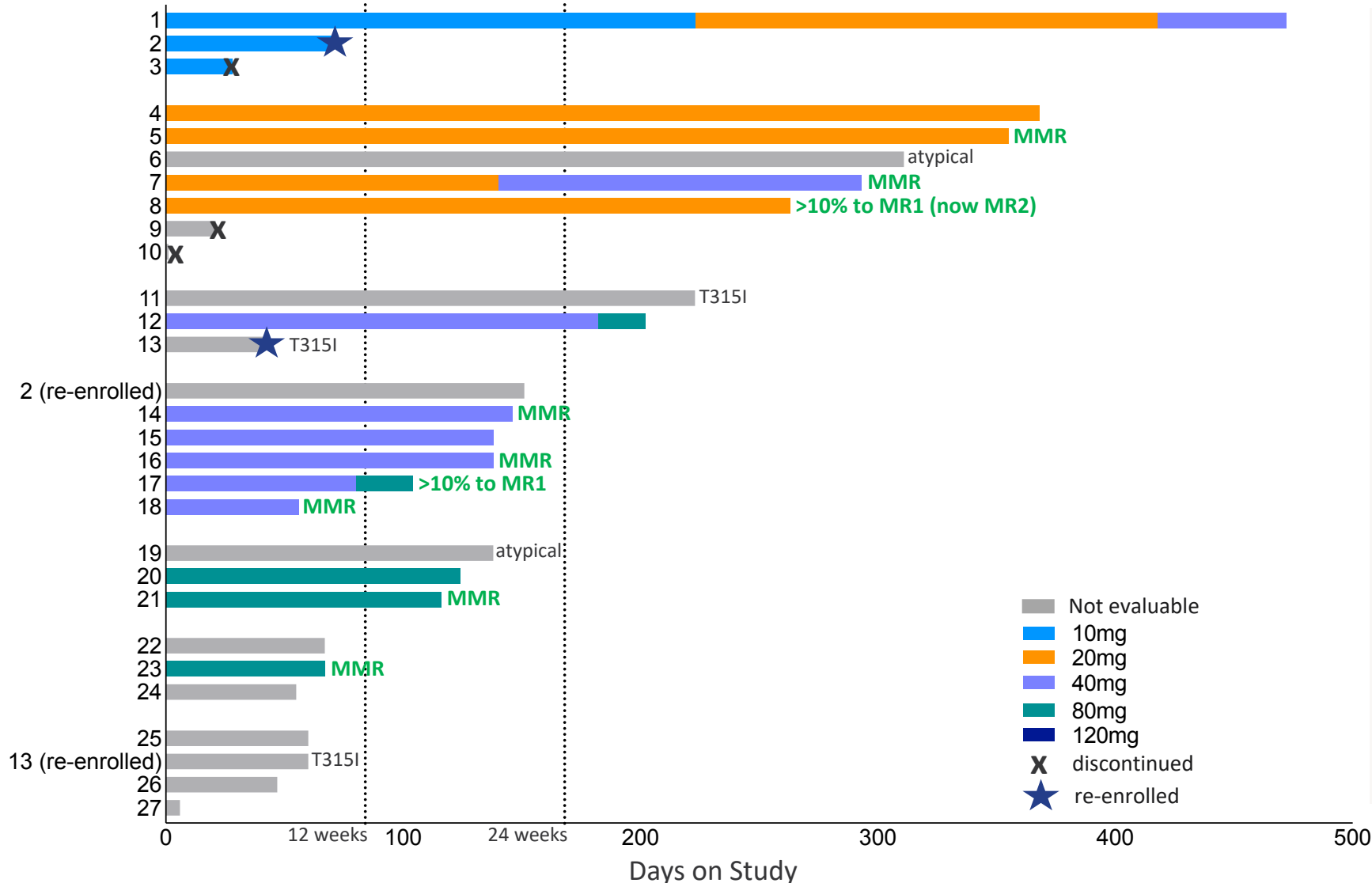
89% (24/27) of Patients Remain on Treatment



- Protocol allows re-enrollment and intra-subject dose escalation*
 - 6 patients had intra-subject dose escalation
 - 2 patients re-enrolled at higher dose levels
- No progressive disease
- No dose reductions
- 3 discontinuations
 - 2 due to adverse events (10mg and 20mg)
 - 1 due to protocol deviation

*If certain protocol specific criteria are met.

Evaluation of Efficacy by Major Molecular Response by 12 Weeks (n=16)



- **43.8% (7/16)** cumulative MMR by 12 weeks
 - 2 additional patients with an improvement in molecular response level
- Excludes
 - Atypical transcripts, which cannot be measured by the central lab (excluded in asciminib Phase 1)
 - T315I mutated CML (note: both were resistant to ponatinib and asciminib, remain on study)

CML = Chronic myeloid leukemia. MMR = Major molecular response. MR1 = BCR::ABL1 ≤ 10%. MR2 = BCR::ABL1 ≤ 1%.

Evaluable for cumulative MMR by 12 weeks: patients who discontinued treatment and had at least one post-baseline assessment, or patients assessed at 12 weeks or achieved MMR prior to 12 weeks (same as asciminib Phase 1).

ELVN-001 Early Data Compares Favorably to Precedent Phase 1 Trials



		Asciminib Phase 1 (2019)	Bosutinib Phase 1 (2012)	ELVN-001 Phase 1a	
Demographics (Prior TKIs)	1	2 (2%)	0%	1 (4%)	More heavily pre-treated patients
	2	30 (27%)	115 (97%)	7 (26%)	
	3	41 (36%)	3 (3%) ¹	9 (33%)	
	4	32 (28%)		3 (11%)	
	≥ 5	9 (8%)		7 (26%)	
Efficacy (Non-T315I)	Cumulative MMR	37/99 (37%)	16/105 (15%)	7/16 (44%)	ELVN-001 in post-asciminib patients: 4/9 MMR by 12 wk.
	TKI-resistant ²	3/32 (11%)	3/54 (6%)	4/10 (40%)	
	Response Achieved ³	19/80 (24%)		2/11 (18%)	
	Response Maintained	18/19 (95%)		5/5 (100%)	
	Time Frame	by 24 weeks	median follow-up 28.5 mo.	by 12 weeks	

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

CML = Chronic myeloid leukemia. MMR = Major molecular response. TKI = Tyrosine kinase inhibitor. f/up = Follow-up. Wk. = Weeks.
¹Refers to ≥ 3 prior TKIs. ²For 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). ³For asciminib n=80 includes 4 patients that were resistant to ponatinib (subtracting these patients, achieved MMR rate: 19/76 (25%) by 24 weeks); for ELVN-001 n=11 includes 3 patients that were resistant to ponatinib (subtracting these patients, achieved MMR rate: 2/8 (25%) by 12 weeks).
 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.

Stable or Improved BCR::ABL1 Transcripts in all Evaluable Patients by 12 Weeks (n=16)



		Baseline BCR::ABL1 transcript						
		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)	MR2 >0.1 to 1 (N=5)	MR1 >1 to 10 (N=1)	>10 (N=5)
12-week BCR::ABL1 transcript	MR5 ≤ 0.001			1	1			
	MR4.5 >0.001 to 0.0032							
	MR4 0.0032 to 0.01							
	MR3 >0.01 to 0.1				3	1	1	
	MR2 >0.1 to 1					4		
	MR1 >1 to 10							2
	>10							3

Within only 12 weeks of treatment:

- 7/16 patients achieved or maintained MMR
- **6/16 improved MR category:**
 - 3 improved by one MR level
 - 2 improved by 2 levels
 - 1 improved by 3 levels
- In precedent trials, **cumulative molecular response rates increased** over time

Safety and Tolerability of ELVN-001



- Well tolerated to date
 - Maximum tolerated dose has not been reached
 - No dose reductions
 - No \geq Grade 3 non-hematologic treatment-related AEs; no Grade 1/2 $>11\%$
 - No obvious relationship between dose/exposure and AEs
- 2 discontinuations due to AEs within the first 30 days of treatment
 - 10mg: 1 patient with Grade 2 asymptomatic pancreatitis
 - 20mg: 1 patient with Grade 3/4 hematologic cytopenias

Hematologic Treatment Emergent Adverse Events



Hematologic TEAE Regardless of Relatedness

Dose	10 mg		20 mg		40 mg		80 mg		120 mg		Total	
N	3		7		8		6		3		27	
Grade	1/2	3/4	1/2	3/4	1/2	3/4	1/2	3/4	1/2	3/4	1/2	3/4
Neutropenia		2 (66.7%)		2 (18.6%)								4 (14.8%)
Thrombocytopenia	1 (33.3%)			2 (28.6%)			1 (16.7%)				2 (7.4%)	2 (7.4%)
Anemia	1 (33.3%)		1 (14.3%)								2 (7.4%)	
Pancytopenia				1 (14.3%)								1 (3.7%)

- Grade 3/4 hematologic TEAEs were reported for 4/27 patients, which all occurred within the first 8 weeks
 - 1 patient (20mg), who discontinued their prior TKI for hematologic toxicity, discontinued due to an SAE of neutrophil count decrease, thrombocytopenia and pancytopenia
- No dose reductions due to cytopenias
- Hematologic toxicity expected as it is associated with all the CML TKIs with median time to Grade 3 of 6 weeks

Non-Hematologic Treatment-Related AEs Reported in ≥ 2 patients (5%)



Non-Heme TRAEs in ≥ 2 Patients

Dose	10mg		20mg		40mg		80mg		120mg		Total	
N	3		7		8		6		3		27	
Grade	1/2	3/4	1/2	3/4	1/2	3/4	1/2	3/4	1/2	3/4	1/2	3/4
Lipase increased	1 (33.3%)		1 (14.3%)		1(12.5%)						3 (11.1%)	
Headache			1 (14.3%)				1 (16.7%)				2 (7.4%)	
Hypertension			1 (14.3%)				1 (16.7%)				2 (7.4%)	
Nausea			1 (14.3%)						1 (33.3%)		2 (7.4%)	

- No ≥ Grade 3 non-hematologic TRAEs
- 1 patient (10mg) discontinued due to Grade 2 SAE of asymptomatic pancreatitis (Day 29)
- To date, no effusions, edemas or cardiovascular adverse events

The non-hematologic TRAE data to date is consistent with the selective kinase profile of ELVN-001

AE = Adverse event. TRAE = Treatment related adverse event. SAE = Serious adverse event.

Non-related AEs in ≥ 2 patients (any grade): diarrhea, arthralgia and oral herpes. The only Grade 3 non-related AEs reported were appendicitis and proctitis (both n=1, same patient).

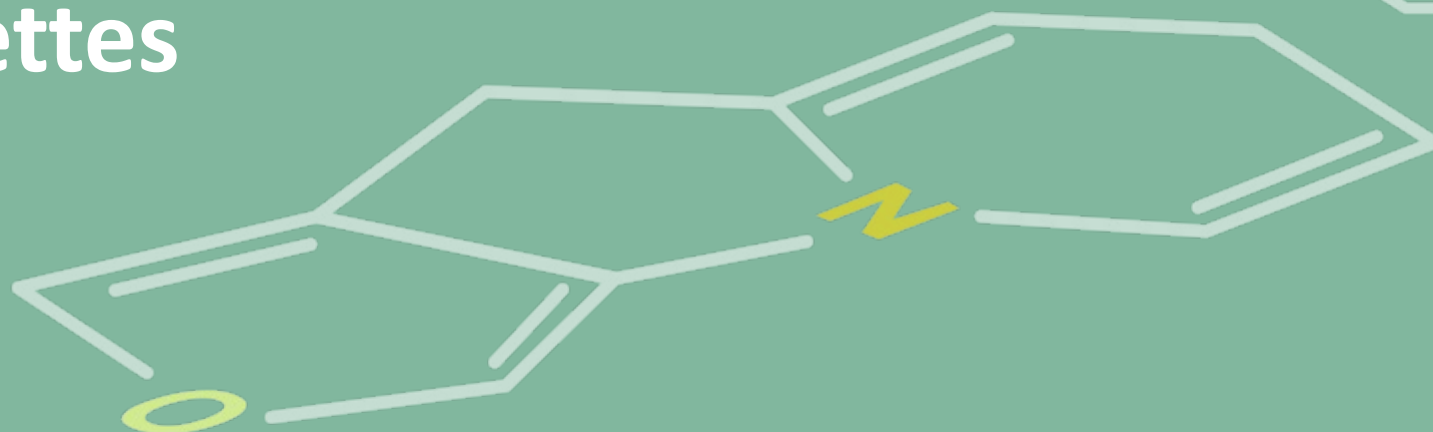
Note: patients are grouped in their original assigned dose.

Summary



- Presented today is the initial clinical data from the Phase 1a portion of our ongoing ELVN-001 Phase 1 trial
- Early anti-CML activity was observed in this late line patient population
 - Cumulative MMR rate of 44% by 12 weeks is favorable compared to cumulative MMR rates observed in the Phase 1 trials of asciminib and bosutinib
- ELVN-001 has been well tolerated to date
 - Non-hematologic adverse events profile to date is encouraging, with no \geq Grade 3 non-hematologic drug-related adverse events
 - Hematologic adverse events observed are consistent with other TKIs
 - Overall, the early safety profile is consistent with the selective kinase profile of ELVN-001

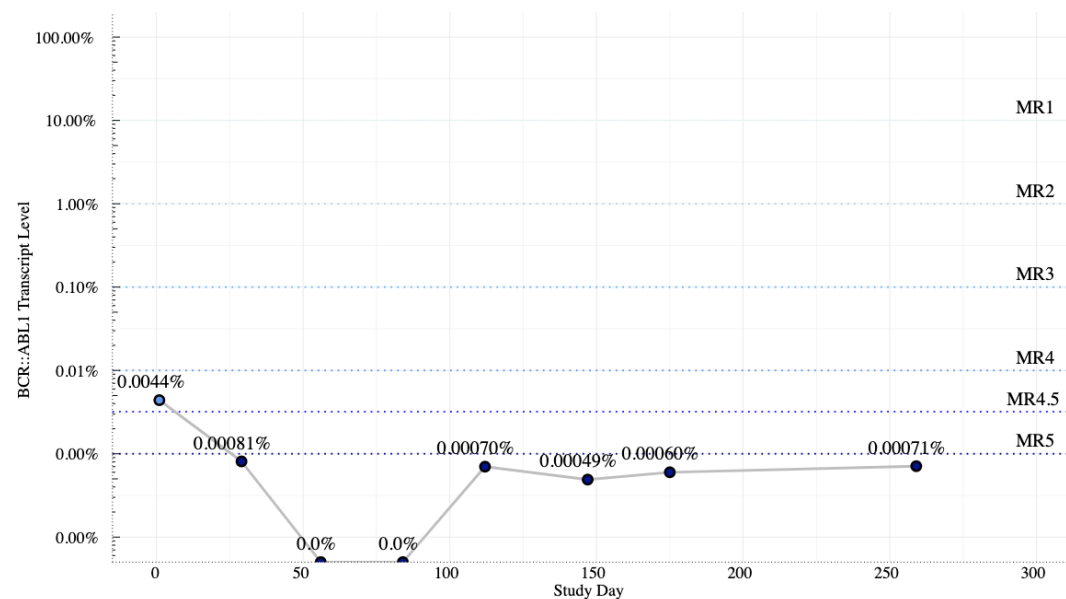
Patient Vignettes



Deepening of Response in Heavily Pretreated Patient



MR5 after 7 prior TKIs @ 20mg QD ELVN-001



Patient Background

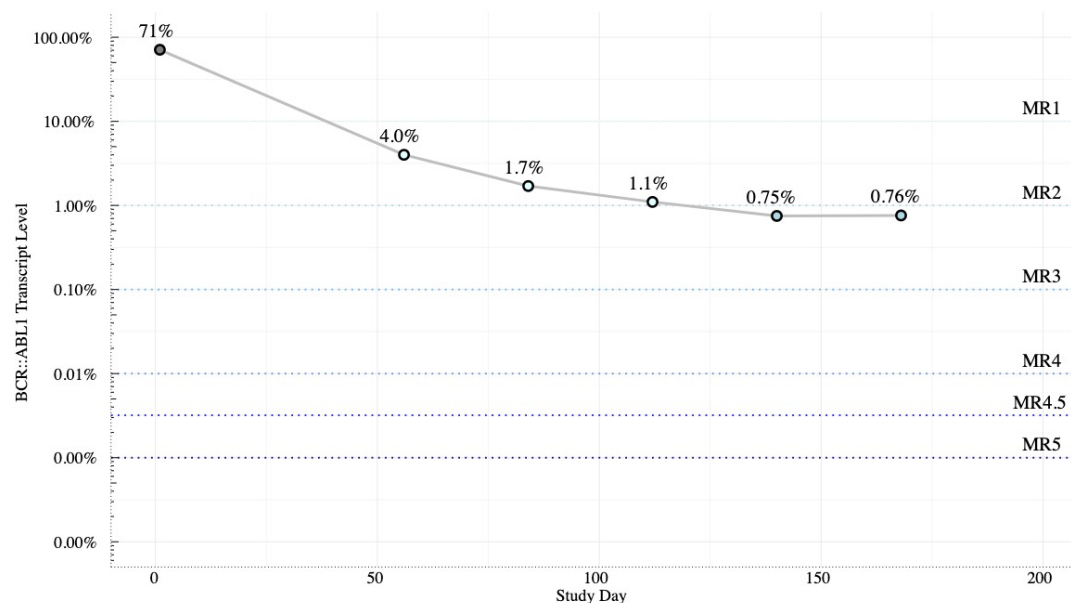
Relevant past medical history	Hypertension
Prior therapy (reason for switch)	Imatinib (LOE), nilotinib (pruritis), dasatinib (LOE), bosutinib (diarrhea), nilotinib (pruritis), asciminib (LOE), ponatinib (polyneuropathy), bosutinib (LOE), ponatinib (polyneuropathy/muscle/joint/bone pain)
Mutations	None
Safety	Worsening of hypertension G2 (R), G1/2 loss of appetite, pruritus, rhinitis, diarrhea, herpes simplex reactivation, headache, toothache, hyperlipidemia, arthralgia (all NR)
Efficacy	MR4 to MR5

Achieved and remains in a deep response 9 months after exhausting every other FDA approved TKI

Intolerant to 5 Prior TKIs, Including Asciminib: >10% → <1% by 6 Mo.



MR2 after 6 prior TKIs @ 20mg QD ELVN-001



Patient Background

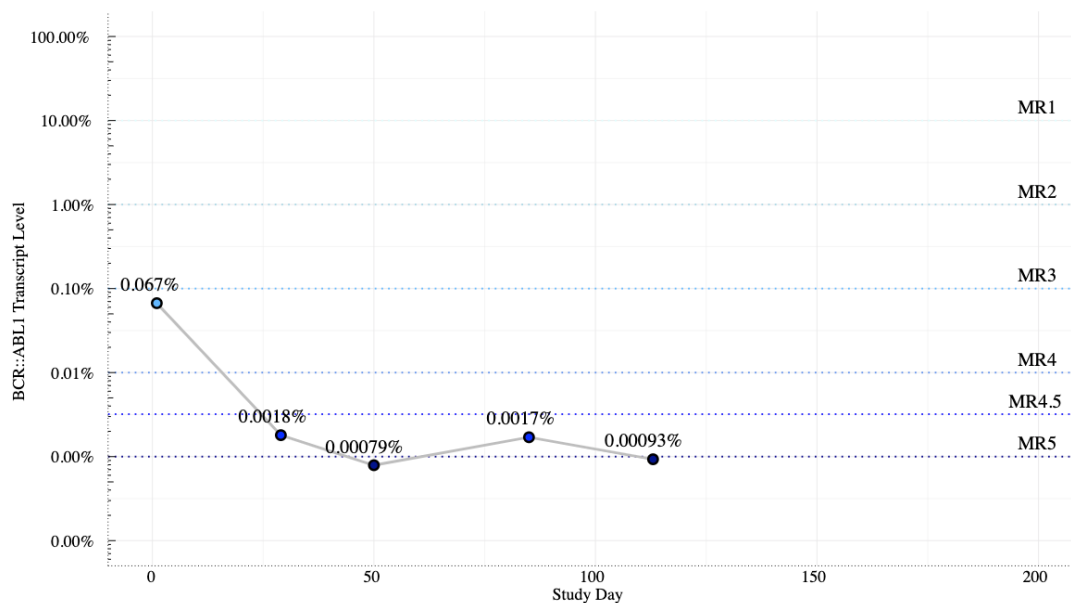
Relevant past medical history	Young patient with no medical history
Prior therapy (reason for switch)	Imatinib (LOE), bosutinib (GI tox), nilotinib (heme/hepatic/pancreatic tox), dasatinib (heme tox), ponatinib (heme tox), asciminib (heme tox), imatinib (heme tox)
Mutations	None
Safety	G1-3 thrombocytopenia, anemia, neutropenia, G2 oral HSV, G1 influenza A (all R)
Efficacy	Non-CHR to CHR; molecular response = MR2

In asciminib's Phase 1 ~20% of patients with baseline BCR::ABL1 transcript levels >10% achieved levels <1% by 6 months

1L Asciminib Resistant Patient: MR5 with > 1-log decrease



MR5 post-Asciminib @ 40mg QD ELVN-001

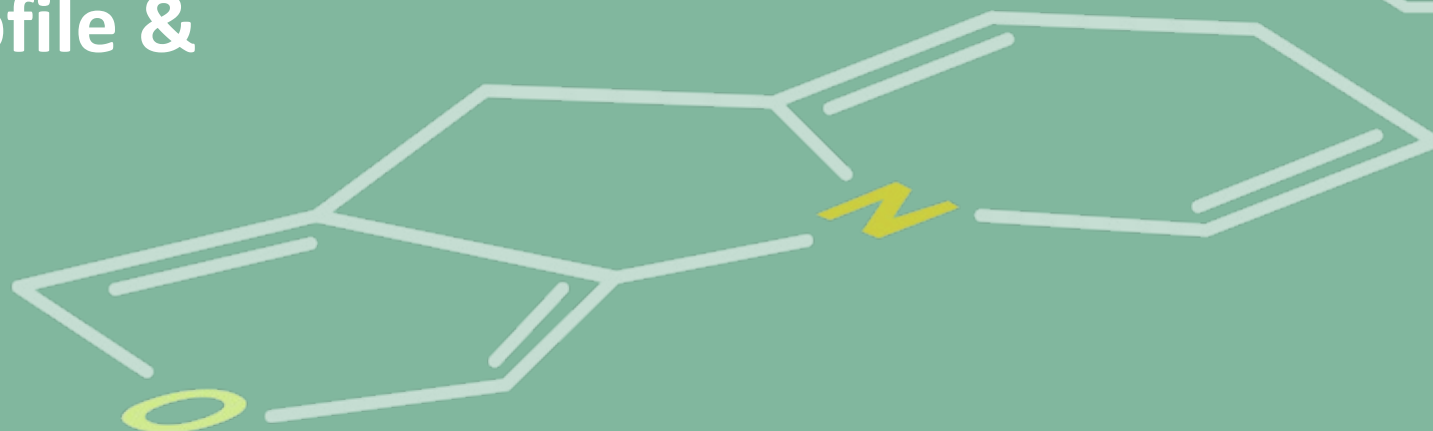


Patient Background

Relevant past medical history	Hyperlipidemia
Prior therapy (reason for switch)	Asciminib (LOE), ponatinib (LOE)
Mutations	A337T and V506M (mutation detected locally)
Safety	G1 rash (R) resolved by day 28 on study
Efficacy	Molecular response = MR5

A337T was the most common clinically emergent mutation that conferred resistance to asciminib on ASCEMBL

ELVN-001 PK Profile & Target Coverage

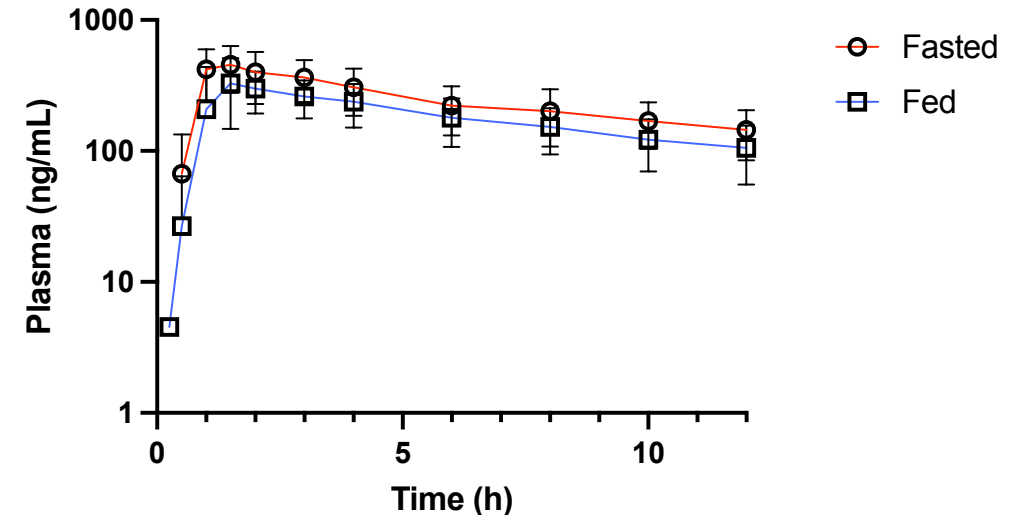


ELVN-001's PK Profile Supports Once Daily Dosing with Flexible Administration Requirements



- 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

120mg ELVN-001 (single dose)

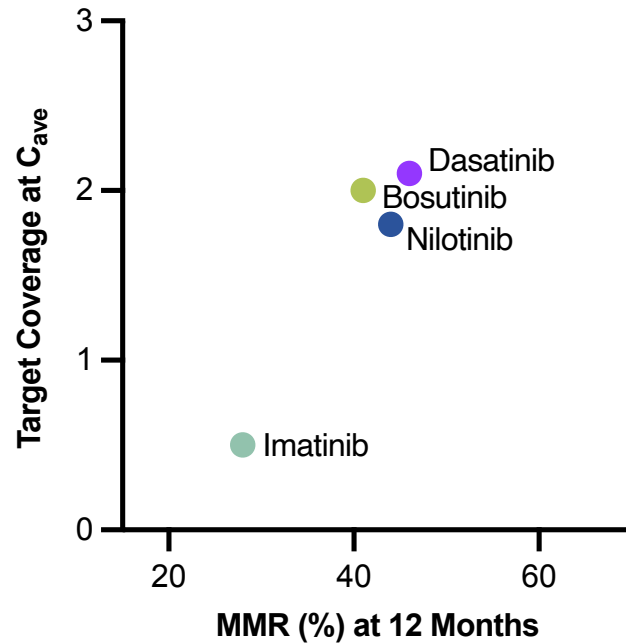


- Food effect study at 120mg single dose in HVs showed that:
 - AUC_{inf} under fasting conditions were similar to that under fed conditions, with a fed/fasted AUC ratio of 1.2.
 - C_{max} under fasting conditions were similar to that under fed conditions, with a fed/fasted C_{max} ratio of 0.8.

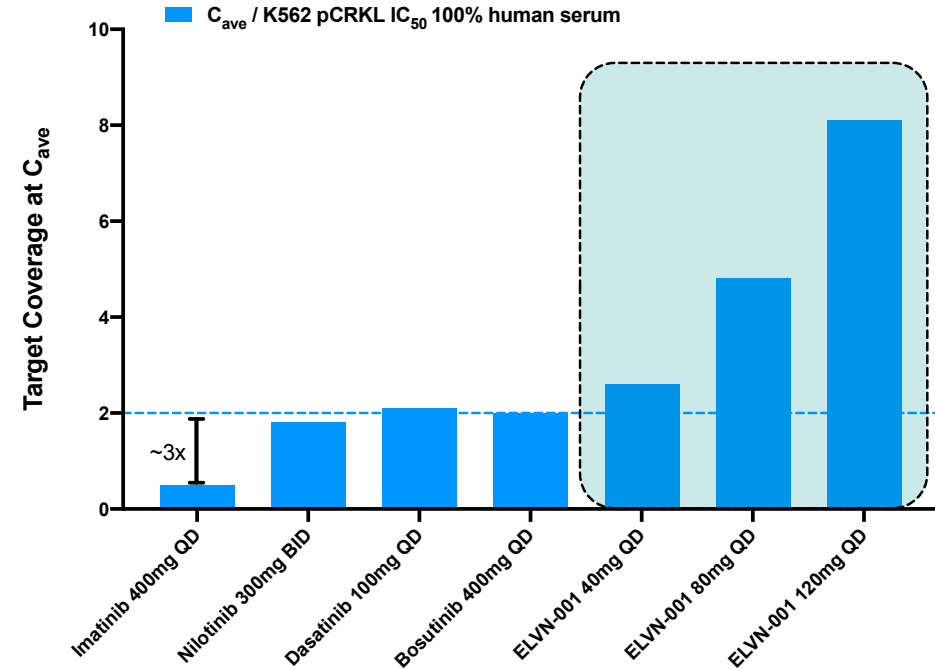
ELVN-001 Achieved Superior Target Coverage Compared to 2nd Gen TKIs



C_{ave} Target Coverage vs. 1L MMR at 12 mo.



C_{ave} Target Coverage vs. Active Site TKIs (1L)



At doses $\geq 40\text{mg QD}$, **ELVN-001** achieved better target coverage compared to 2nd Generation TKIs

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

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

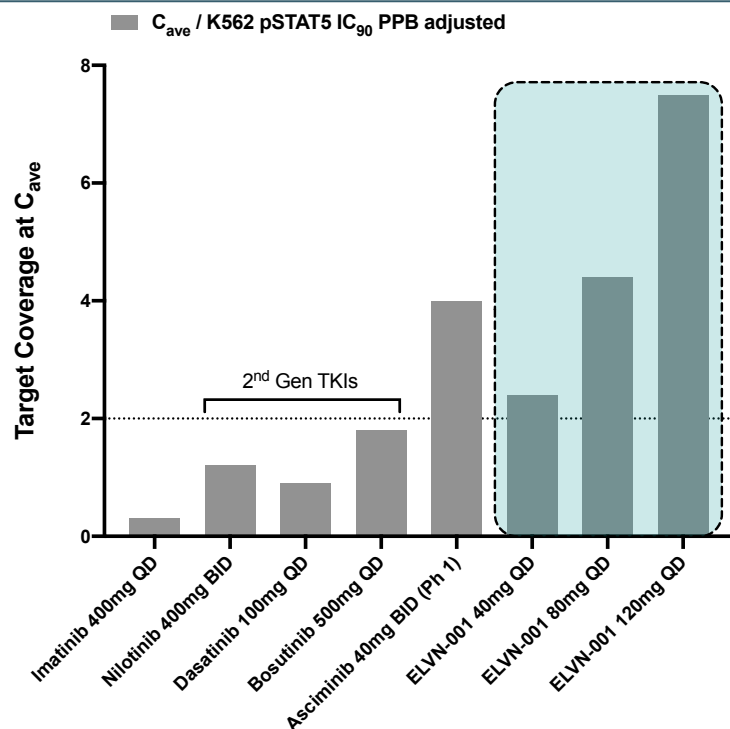
MMR References: (Bosutinib) Cortes JE et al. *J Clin Oncol*. 2012; 30(28):3486-92; (Nilotinib and Imatinib) Saglio G et al. *NEJM*. 2010; 362(24):2251-9; (Dasatinib) Kantarjian H et al. *NEJM*, 2010; 362(24):226.

Notes: 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). 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 \geq 3). K562 cells were employed for these experiments. pCRKL IC_{50} measurements were performed in the presence of 100% human serum.

ELVN-001 Achieved Similar Target Coverage Compared to Asciminib

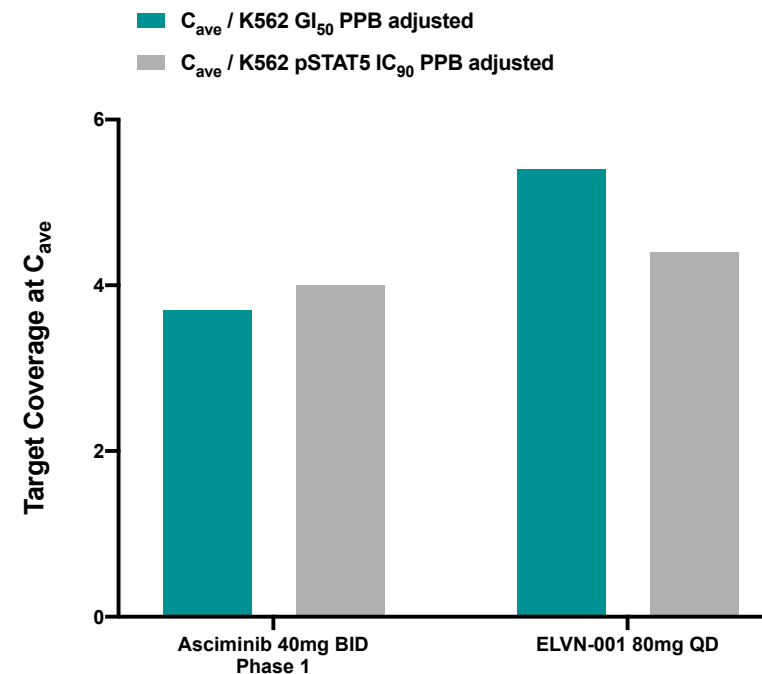


C_{ave} Target Coverage vs. All TKIs (Late Line)



- ELVN-001 had better target coverage based on plasma protein binding adjusted pSTAT5 IC_{90} at ≥ 40 mg QD compared to 2nd Gen TKIs, and similar target coverage as asciminib at 80mg QD

C_{ave} Target Coverage vs. Asciminib (Phase 1)



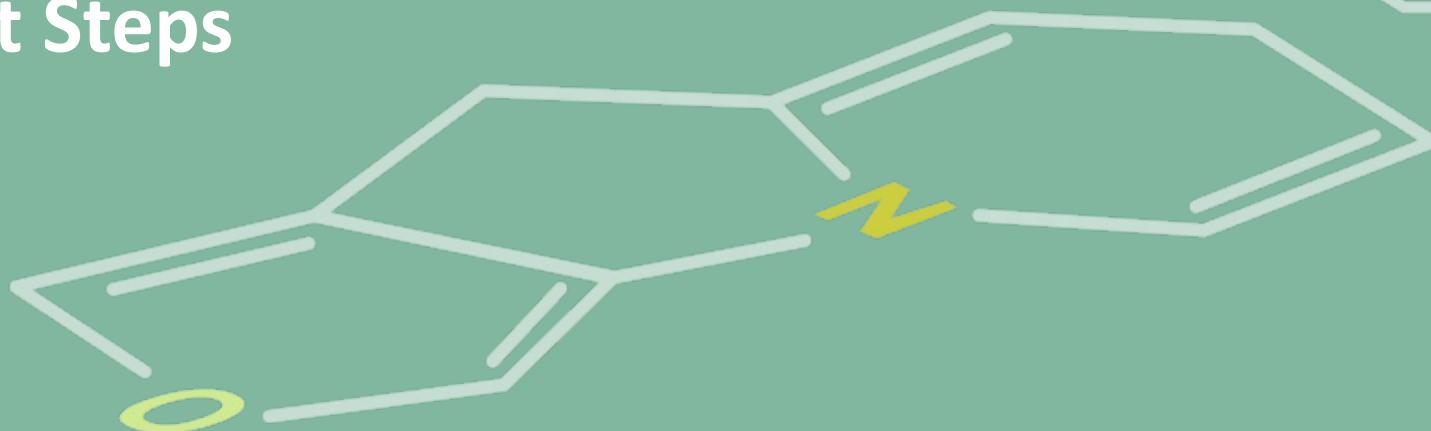
- Novartis referenced preclinical 90% inhibitory concentration for phosphorylated STAT5 or pSTAT5 IC_{90} and anti-proliferation GI_{50} as the key target coverage metrics supporting an optimal asciminib dose of 40mg BID or 80mg QD for CML patients without T315I mutations

CML = Chronic myeloid leukemia. CRKL = CRK like protein. STAT5 = Signal transducer and activator of transcription 5. QD = Once daily. BID = Twice daily. PPB = Plasma protein binding. TKI = Tyrosine kinase inhibitor. 2nd Gen TKIs = bosutinib, dasatinib, nilotinib.

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. 6. Hughes TP et al. *NEJM*. 2019;381(24):2315-2326. 7. Asciminib 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 IC_{90} and GI_{50} 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 & Next Steps



Summary



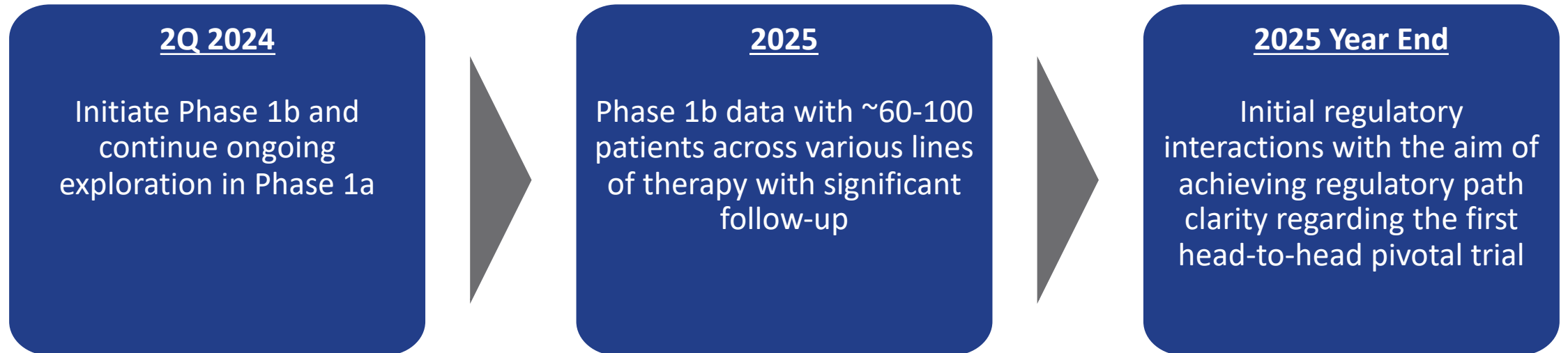
CML Opportunity

- 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 \$500M in annualized sales with only ~20% penetration into 3L+
- Based on recently announced positive topline 1L Phase 3 data, asciminib is 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

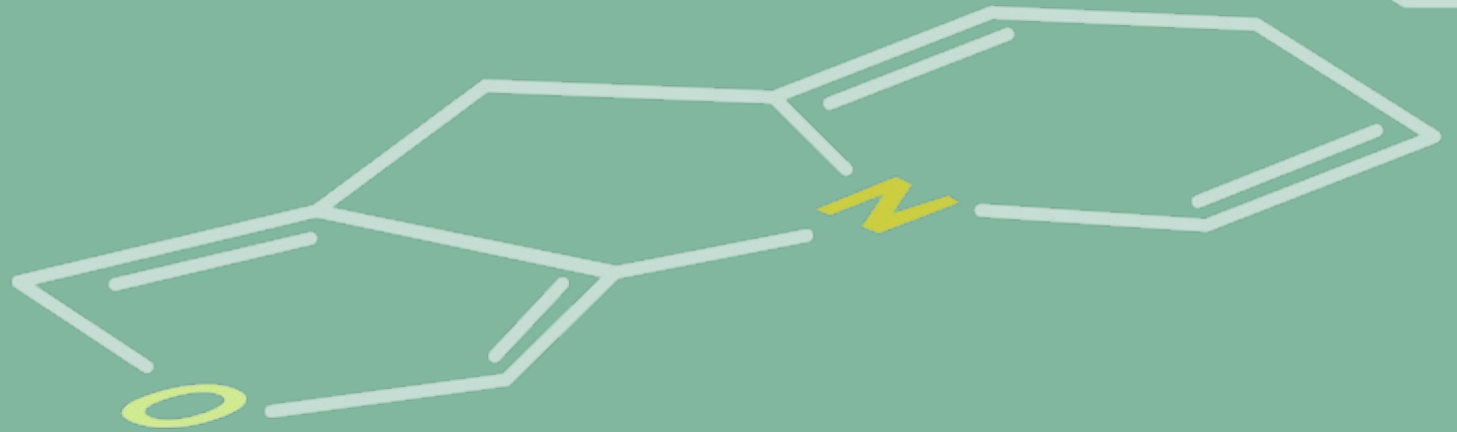
ELVN-001 Initial Proof of Concept Data

- As a highly selective, active site, active form inhibitor of BCR::ABL1, ELVN-001 represents a complimentary MOA compared to asciminib
- Based on initial Phase 1a data, ELVN-001:
 - Achieved initial cumulative MMR rates in heavily pre-treated patients, including post-asciminib patients, that are favorable when compared to historical Phase 1 MMR rates from other TKIs
 - Has been well-tolerated with no \geq Grade 3 and low incidence of drug-related Grade 1 or 2 non-hematologic toxicities
 - Has a PK profile that supports once daily dosing with flexible administration requirements
 - Achieved target coverage superior to 2nd Gen TKIs and similar to asciminib at well-tolerated doses

Next Steps for ELVN-001



Appendix



5 Patients that Maintained MMR by 12 Weeks



ELVN-001 Dose	# Prior TKIs	Reason for Discontinuation			Resistant to other prior TKIs	Baseline MR Status	By 12 Weeks
		Ponatinib	Asciminib	Last Prior TKI			
20mg	6	Intolerant	LOE	Intolerant (P)	I, D, B	MR4	MR5
40mg	2	LOE	LOE	LOE (P)		MR3	MR5
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

2/5 patients improved MR category by 12 weeks

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

Scemblix (asciminib) USPI: Warnings and Precautions



- Myelosuppression: Severe thrombocytopenia and neutropenia events may occur. Monitor complete blood counts regularly during therapy and manage by treatment interruption or dose reduction.
- Pancreatic Toxicity: Monitor serum lipase and amylase. Interrupt, then resume at reduced dose or discontinue SCSEMBLIX based on severity. Evaluate for pancreatitis when lipase elevation is accompanied by abdominal symptoms.
- Hypertension: Monitor blood pressure and manage hypertension as clinically indicated. Interrupt, dose reduce, or stop SCSEMBLIX if hypertension is not medically controlled.
- Hypersensitivity: May cause hypersensitivity reactions. Monitor patients for signs and symptoms and initiate appropriate treatment as clinically indicated.
- Cardiovascular Toxicity: Cardiovascular toxicity may occur. Monitor patients with history of cardiovascular risk factors for cardiovascular signs and symptoms. Initiate appropriate treatment as clinically indicated. (5.5)
- Embryo-Fetal Toxicity: Can cause fetal harm. Advise females of reproductive potential of the potential risk to a fetus and to use effective contraception.

Scemblix (asciminib) USPI: Adverse Reactions (≥ 10%) in Patients with CML in ASCEMBL



Table 3: Adverse Reactions (≥ 10%) in Patients with Ph+ CML in CP, Previously Treated with Two or More TKIs Who Received SCEMBLIX in ASCEMBL

Adverse Reaction	SCEMBLIX N = 156		Bosutinib N = 76	
	All Grades %	Grade 3 or 4 %	All Grades %	Grade 3 or 4 %
Infections and infestations				
Upper respiratory tract infection ^a	26	0.6	12	1.3
Musculoskeletal and connective tissue disorders				
Musculoskeletal pain ^b	22	2.6	16	1.3
Arthralgia	12	0	3.9	0
Nervous system disorders				
Headache	19	1.9	15	0
General disorders and administration-site conditions				
Fatigue ^c	17	0.6	11	1.3
Skin and subcutaneous tissue disorders				
Rash ^d	17	0.6	30	8
Vascular disorders				
Hypertension ^e	13	6	5	3.9
Gastrointestinal disorders				
Diarrhea ^f	12	0	71	11
Nausea	12	0.6	46	0
Abdominal pain ^g	10	0	24	2.6

Table 3 Abbreviations & Footnotes:

Ph+ CML in CP, Philadelphia chromosome-positive chronic myeloid leukemia (Ph+ CML) in chronic phase (CP); TKIs, tyrosine kinase inhibitors.

^aUpper respiratory tract infection includes: nasopharyngitis, upper respiratory tract infection, rhinitis, pharyngitis, respiratory tract infection, and pharyngotonsillitis.

^bMusculoskeletal pain includes: pain in extremity, back pain, myalgia, non-cardiac chest pain, neck pain, bone pain, spinal pain, arthritis, and musculoskeletal pain.

^cFatigue includes: fatigue and asthenia.

^dRash includes: rash, rash maculopapular, dermatitis acneiform, rash pustular, eczema, dermatitis, skin exfoliation, dermatitis exfoliative generalised, rash morbilliform, drug eruption, erythema multiforme, and rash erythematous.

^eHypertension includes: hypertension and hypertensive crisis.

^fDiarrhea includes: diarrhea and colitis.

^gAbdominal pain includes: abdominal pain, abdominal pain upper, abdominal discomfort, abdominal pain lower, abdominal tenderness, and epigastric discomfort.

Asciminib and Bosutinib: Adverse Events Over Time in ASCEMBL



Figure 8: Adverse events over time – (Study ABL011A2301) (Safety Set)

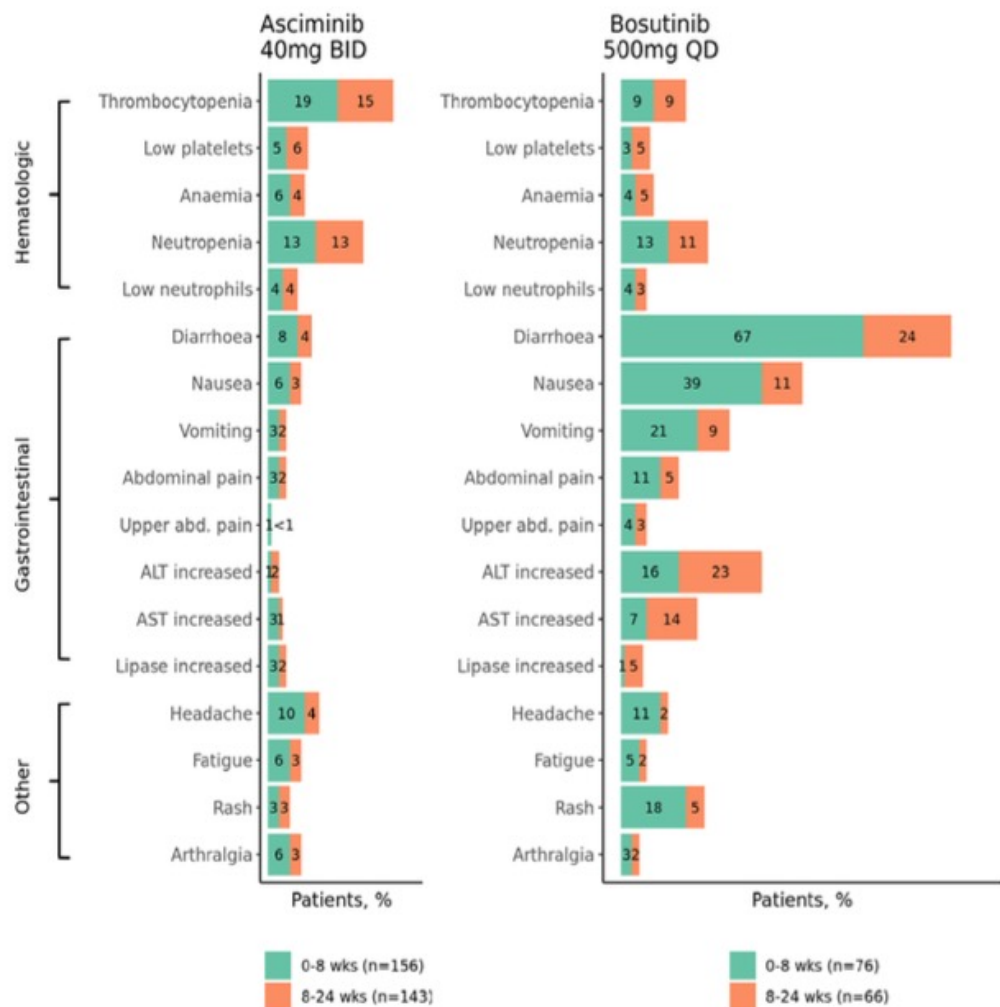


Figure 8. Adverse events over time: proportion of patients with on-treatment AEs occurring during the first 8 weeks of treatment, and newly occurring between weeks 8-24 of treatment. Denominators are the number of patients on treatment at the beginning of the indicated time interval. A patient with multiple occurrences of an AE with the same preferred term within the same time interval is counted only once in that time interval.

Study ABL001A2301 (ASCSEMBL) Safety Set: asciminib (N=156), bosutinib (N=76).

References: Scemblix (asciminib) NDA/BLA Multi-disciplinary Review and Evaluation {NDA 215358}. Source: Novartis ABL001A Summary of Clinical Safety-Figure 2-1.