UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): July 30, 2024

MEI Pharma, Inc.

(Exact name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation)

11455 El Camino Real, Suite 250 San Diego, California

(Address of Principal Executive Offices)

001-41827 (Commission File Number) 51-0407811 (IRS Employer Identification No.)

> 92130 (Zip Code)

Registrant's Telephone Number, Including Area Code: 858 369-7100

(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

D Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

	Trading	
Title of each class	Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.0000002 par value	MEIP	The Nasdag Stock Market LLC

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter).

Emerging growth company \Box

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Item 7.01 Regulation FD Disclosure.

On July 22, 2024, MEI Pharma, Inc. (the "Company") announced that its Board of Directors had determined unanimously to begin an evaluation of the Company's strategic alternatives, including potential transactions as well as an orderly wind-down of the Company, if necessary, in order to maximize the value of its assets. The Company also announced that it intended to promptly discontinue the clinical development of voruciclib, while continuing to conduct certain non-clinical activities related to the Company's drug candidate assets.

The Company intends to utilize presentation materials (the "Corporate Presentation") in substantially the form attached to this Current Report on Form 8-K as Exhibit 99.1 in connection with the activities described above. These materials primarily describe the status of the Company's voruciclib program.

The information contained in the Corporate Presentation is summary information that should be considered in the context of the Company's filings with the Securities and Exchange Commission and other public announcements the Company may make by press release or otherwise from time to time. The Corporate Presentation speaks as of the date of this Current Report. While the Company may elect to update the Corporate Presentation in the future to reflect events and circumstances occurring or existing after the date of this Current Report, the Company specifically disclaims any obligation to do so.

By furnishing this Current Report on Form 8-K and furnishing the Corporate Presentation, the Company makes no admission as to the materiality of any information in this Current Report, including without limitation the Corporate Presentation. The Corporate Presentation contains forward-looking statements. See Page 2 of the Corporate Presentation for a discussion of certain forward-looking statements that are included therein and the risks and uncertainties related thereto.

The information set forth in this Item 7.01 of this Report, including without limitation the Corporate Presentation, is not deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as may be expressly set forth by specific reference in such a filing.

Item 9/01 Financial Statements and Exhibits

No.Description99.1Corporate Presentation July 2024

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

MEI Pharma, Inc.

Date: July 30, 2024

By: Justin J. File

Justin J. File Chief Financial Officer and Secretary



Voruciclib: An Oral CDK9 Inhibitor for AML and Other Malignancies

July 2024

Forward Looking Statements

Certain information contained in this communication that are not historical in nature are "forward-looking statements" within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995 including, without limitation, statements regarding: the potential, safety, efficacy, and regulatory and clinical progress of our product candidates, including the anticipated timing for initiation of clinical trials and release of clinical trial data and our expectations surrounding potential regulatory submissions, approvals and timing thereof, our business strategy and plans and the sufficiency of our cash, cash equivalents and short-term investments to fund our operations. You should be aware that our actual results could differ materially from those contained in the forward-looking statements, which are based on management's current expectations and are subject to a number of risks and uncertainties, including, but not limited to, risk relating to our ability to successfully commercialize our product candidates; the availability or appropriateness of utilizing the FDA's accelerated approval pathway for our product candidates; final data from our pre-clinical studies and completed clinical trials potentially differing materially from reported interim data from ongoing studies and trials; costs and delays in the development and/ or FDA approval, or the failure to obtain such approval, of our product candidates; uncertainties or differences in interpretation in clinical trial results; uncertainty regarding the impact of rising inflation and the increase in interest rates as a result; potential economic downturn; activist investors; our inability to maintain or enter into, and the risks resulting from, our dependence upon collaboration or contractual arrangements necessary for the development, manufacture, commercialization, marketing, sales and distribution of any products; competitive factors; our inability to protect our patents or proprietary rights and obtain necessary rights to third party patents and intellectual property to operate our business; our inability to operate our business without infringing the patents and proprietary rights of others; general economic conditions; the failure of any products to gain market acceptance; our inability to obtain any additional required financing; technological changes; government regulation; changes in industry practice; and one-time events. We do not intend to update any of these factors or to publicly announce the results of any revisions to these forward-looking statements. Under U.S. law, a new drug cannot be marketed until it has been investigated in clinical studies and approved by the FDA as being safe and effective for the intended use.

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Voruciclib Presents a Strong Value Proposition as the Only Oral CDK9 Inhibitor in Clinical Development in Combination with Venetoclax in AML

- Investment rationale
 - Opportunity to continue ongoing Phase 1 study (16-32 patients) to value inflection point by YE2024 and Phase 2 study (24 patients) in CY2025 for modest investment
- Initial focus on R/R AML
 - Significant medical need in large number of patients
 - Mutation agnostic therapy with potential to address >50% of AML patients
 - Clear and efficient path to marketing approval
- · Voruciclib plus venetoclax
 - Durable responses observed in patients with R/R AML after venetoclax failure
 - On target effect observed on McI-1 and RNA Pol II
- Life cycle management
 - Market and scientific rationale to move to 1L AML
 - Utility where venetoclax is approved/used in other hematologic indications
 - Potential to address several solid tumors associated with MYC overexpression

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Estimated R&D costs

Stage 1a: ~\$1.2M

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- 16 patients
- Evaluate 200 mg only
- Readout December 2024
- Stage 1b: ~\$1.1M
 - 16 patients
 - Evaluate 250 mg
 - Readout March 2025
- Stage 2: ~\$2.4M
 - 24 patients
 - Dose 200 or 250 mg
 - Readout December 2025

TOTAL: ~ \$4.7M to complete Phase 1 and Phase 2 studies with ~56 patients by YE2025

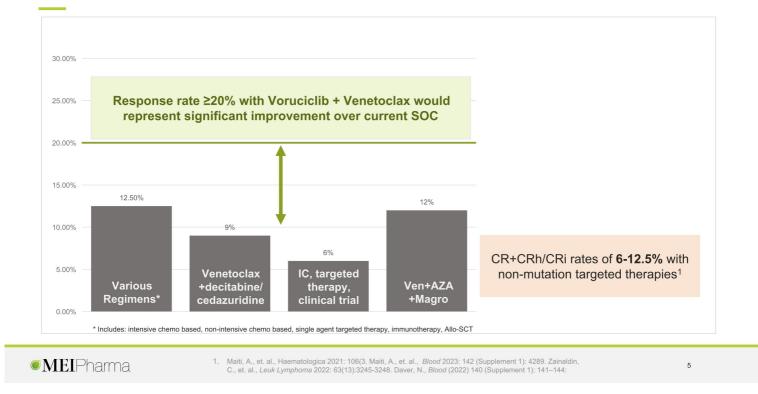
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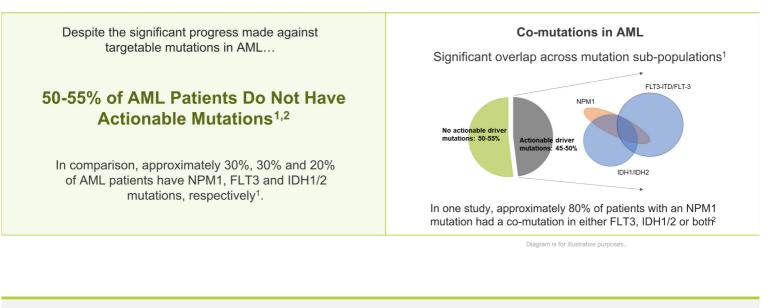
Program Overview: Voruciclib and Venetoclax Combination in R/R AML Patients

July 2024

Limited Treatment Options and Poor Outcomes for AML Patients Post Venetoclax Exposure



Majority of R/R AML Patients Do Not Have Actionable Mutations and Need New Treatment Options

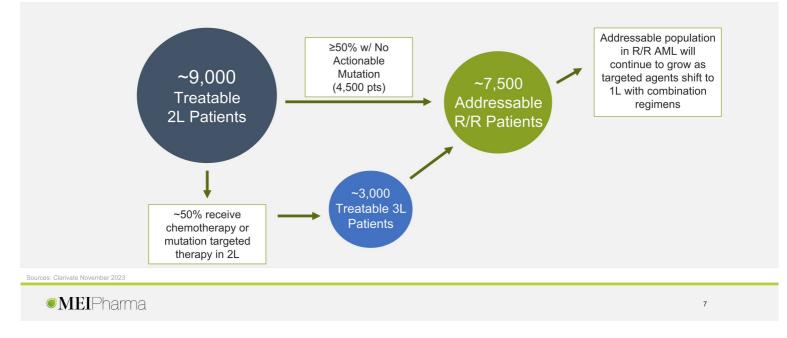


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1. Miyamoto, K., et. al., Int J Mol Sci. 2020;21(14):5114. 2. Malani, D., Cancer Discov. 2022;12(2):388-401

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~7,500 Addressable Patient Population for Mutation Agnostic Therapy in Patients with R/R AML



Voruciclib: An Oral CDK9 Inhibitor with Clinical Activity in R/R AML and On-Target Biologic Effect

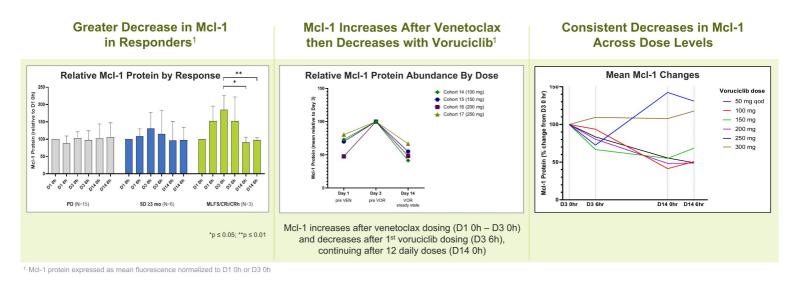
- 161 patients enrolled to date in 4 Phase 1 studies
 - 65 pts with AML: 21 single agent and 44 in combination with venetoclax (VORU+VEN)
 - 19 pts with B-cell malignancies
 - 77 pts with solid tumors
- Current focus on R/R AML, with substantial clinical, PK and PD datasets
 - CRi/MLFS observed in patients with disease progression after venetoclax
 - Target dose of 150-250 mg/day for phase 2 based on clinical responses and PK/PD data
 - Decrease in McI-1 and RNA Poll II^{Ser2} phosphorylation observed in patient samples
- Potential completion of VORU+VEN dose/schedule optimization using 21 days/cycle in H2-2024

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• Ready for phase 2 stage in H1-2025

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Decrease in McI-1 Protein with VORU+VEN Demonstrates On-Target Biological Activity

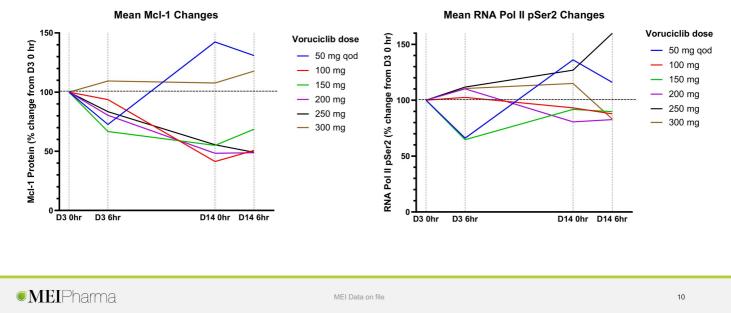


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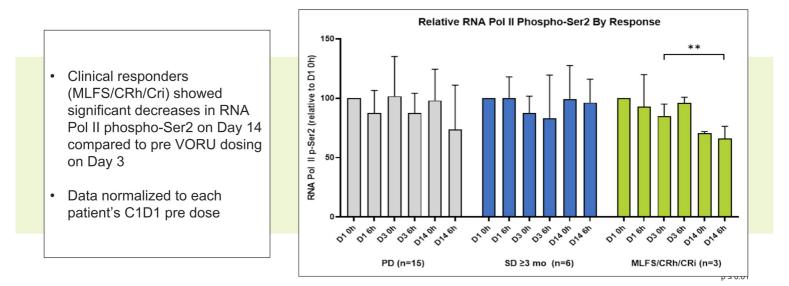
MEI Data on file

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 Mcl-1 protein expression and phosphorylation of RNA Pol II^{Ser2} values decreased from before first voruciclib dose to day 14 at the end of voruciclib dosing



Patients with Clinical Responses Have Strongest Decreases in RNA Pol I^{Ser2} Phosphorylation Following VORU+VEN at 100-300 mg



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31% (10/32) of Patients Administered VORU at 100-300 mg for 14 days/cycle + VEN had Disease Control

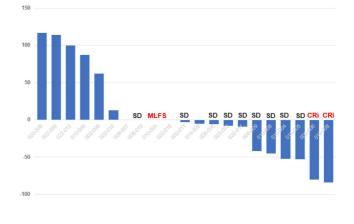
- 3 patients achieved a response
 - 2 had a CRi
 - 1 underwent HSCT transplant
 - 1 had a CRi for 6 months then progressed
 - 1 had a MLFS, ongoing at 9+ months

• 7 patients had stable disease \geq 3 months

• 13 patients had stable disease <3 months

~50% of Patients with Pre/Post Bone Marrow Biopsy Had a Decrease in Blast Counts





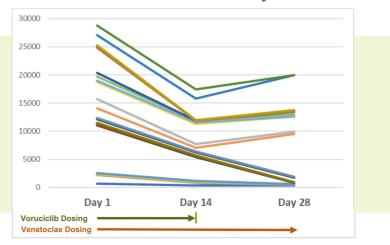
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Importance of Evaluating Voruciclib on Days 1 to 21 of 28-Day Cycle in Combination with Venetoclax to Extend Voruciclib Exposure and Prevent Blast Rebound on Venetoclax Alone

Increasing duration of VORU exposure may prevent blast rebound and enhance efficacy

- 18/24 pts (75%) had decreased peripheral blasts on Day 14 of Cycle 1, at the end of voruciclib and venetoclax combination dosing
- 8/18 pts (44%) had peripheral blasts rebound between Day 14 and 28, when voruciclib was stopped and patient received venetoclax alone

Peripheral Blast Counts Decrease on VORU+VEN & Rebound on VEN Alone in Days 15-28



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Voruciclib Plus Venetoclax is Well-Tolerated in Heavily Pre-Treated Patients with R/R AML

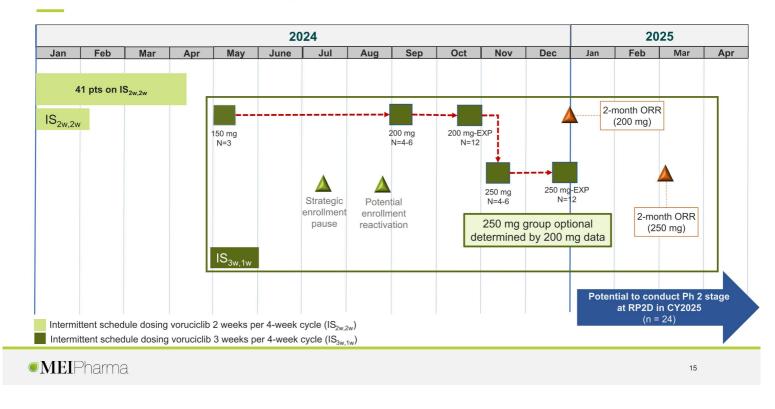
- MTD not reached on 14 days/cycle schedule evaluated to date
- Dose escalation stopped at 300 mg because plasma concentrations achieved exceed concentrations shown to be effective in nonclinical models
 - Target dose for PD effect projected to be 150-250 mg
- No DLTs observed at doses evaluated
- · No discontinuations due to drug-related toxicities

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MEI Data on file

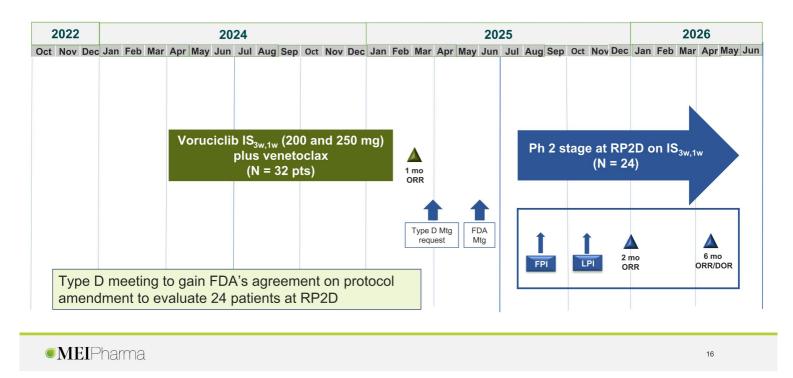
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Remaining Cohorts (16-32 Patients) to Be Evaluated in the Dose Optimization Stage in H2-2024 Assumes Reactivation of Enrollment in September 2024



Timeline for Stage 2 at RP2D with 24 Patients Enrolled

Topline Results in Q4-2025



Phase 3 Ready Package for Voruciclib + Venetoclax in R/R AML in 2026

Pharmacology studies Phase 1/2 study enrolling up to 120 patients with • **R/R AML** Food effect study Nonclinical pharmacology studies - 100 patients in combination with venetoclax, with ~40 In vitro CYP and transporters patients at RP2D Protein binding in human liver microsomes . 3-month toxicology studies in dogs and rats Extensive PK data on > 150 patients • Ph 3 ready API/drug product, including process • Pharmacodynamics data for Mcl-1 and RNA Pol development, DOE, & analytical method development 2024 2025 2026 Voruciclib + Venetoclax Phase 1/2 Trial in R/R AML Potential Phase 3 Ready Package • Up to 120 pts total, ~40 pts at RP2D • Clin pharm & tox studies • Ph 3 formulation/Ph 3 GMP lot **P1 Dose Escalation & Expansion P2 P**3 Expansion Cohort at RP2D MEIPharma 17

Registration Strategy in R/R AML

- Phase 3 study design
 - Randomized placebo-controlled vs SOC (HMA, LDAC, Venetoclax alone
 - R/R AML, not to exceed 3 prior lines of therapy, exclude TP53 mutations
 - Overall survival as primary endpoint for full approval
 - Possible accelerated approval based on CR+CRh rate
 - Sample size = 300 pts for survival HR ~0.6 (8.3 months vs 5 months)
 - Enrollment ~24 months
- Other studies for NDA package
 - TQT study
 - ADME study
 - DDI study
 - Food effect study (if change in commercial formulation)
 - Hepatic impairment study (TBD)

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Intellectual Property & Market Exclusivity

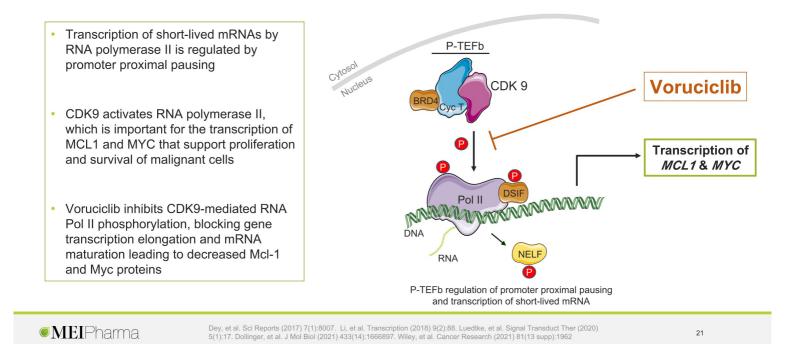
- MEI Pharma has acquired exclusive worldwide rights to develop, manufacture and commercialize voruciclib from Presage Biosciences, Inc.
- 14 issued patents, 2 allowed and 7 pending U.S. non-provisional patent applications with the USPTO covering the composition of matter, pharmaceutical compositions, and methods of use to treat cancer for voruciclib
- Pending U.S. patent application covering composition of matter for voruciclib polymorph has a projected expiration date in 2040, if issued, which may be potentially extended by about one year of patent term adjustment (PTA) to **2041** due to patent office prosecution delays, and up to five years of patent term extension (PTE) to **2046** due to regulatory delays
- Allowance of patent application in Japan covering composition of matter for voruciclib polymorph is expected upon minor formalities being addressed.
- There are over 90 allowed or issued foreign patents, 3 pending U.S. provisional patent applications, and approximately 60 pending foreign patent applications for voruciclib, related compounds, and related methods of use
- Acute Myeloid Leukemia is also an orphan designation with the FDA, which qualifies for a potential seven years of market exclusivity upon regulatory approval in the U.S

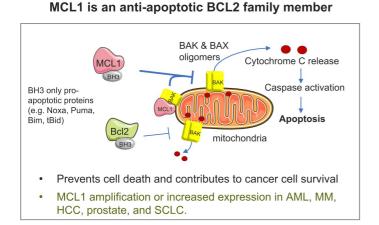
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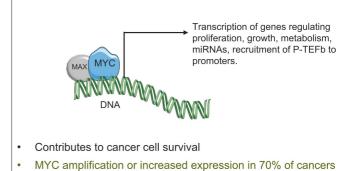


Voruciclib Mechanism of Action and Nonclinical Studies

Voruciclib Modulates 2 Important CDK9 Interactions for MCL1 and MYC







MYC is an oncogenic transcription factor

CDK 9 regulates expression of MCL1 and MYC genes



High McI-1 Levels Associated With Poor Prognosis and Resistance to Venetoclax in AML

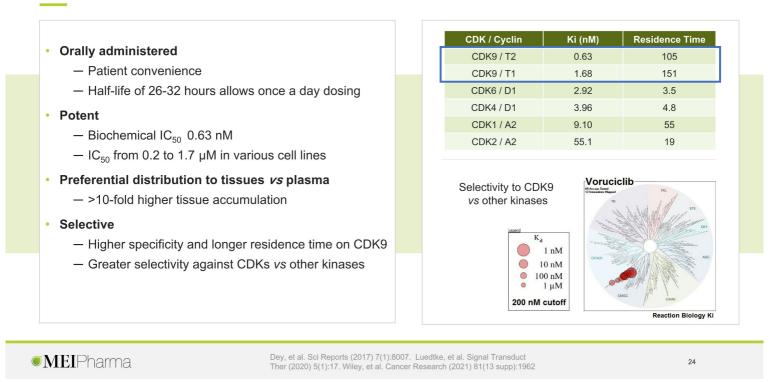
•	High levels of McI-1 found consistently high in nearly all bone marrow samples in newly diagnosed and relapsed AML ¹
	High level of Mcl-1 associated with poor outcome in AML ²
	 Provide survival advantage and sustained growth of the disease
	 Lead to chemotherapy resistance
•	Mcl-1 protein has a short half-life (~0.5 hr) which makes it dependent on continuous gene transcription
•	Mcl-1 upregulation is an established venetoclax resistance mechanism ³
	 Venetoclax inhibits BCL2 but can lead to stabilization of Mcl-1



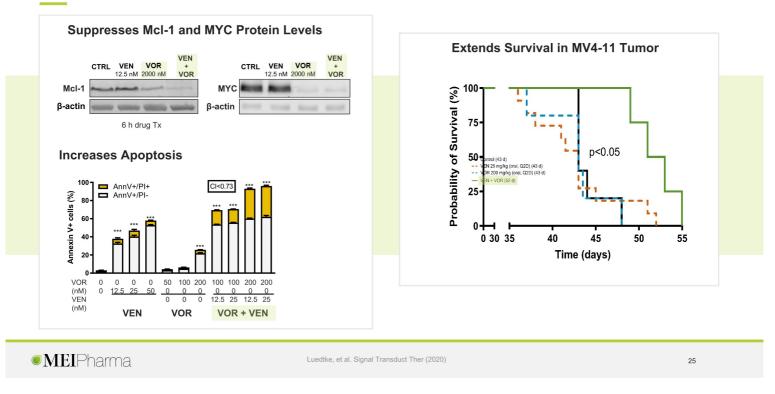
1. Glaser et al, Gene Dev 2012;26(2):120-125 2. Li et al, Onco Target Ther 2019;12:3295-3304 3. Carter et al, Haematologica 2022;107(1):58-76.

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Voruciclib Is a Selective and Potent Oral CDK9 Inhibitor



Preclinical Studies Demonstrate Voruciclib Suppresses McI-1 and Synergizes with Venetoclax in AML Murine Xenograft Model





Voruciclib Results in R/R AML

Completed Single-Agent Dose Escalation/Expansion in R/R AML & B-cell Malignancies (N = 40) Treatment Well Tolerated with Evidence of Anti-Leukemic Activity

Voruciclib up to 200 mg for days 1-14 in a 28-day Cycle Demonstrated Anti-Leukemic Activity . . .

- 21 patients with heavily pretreated AML (median = 3 prior lines)
- 1 MLFS (81 yo, 4 prior lines, adverse mutations & cytogenetics)
- 5 of 10 patients at 200 mg had stable disease
- · 2 patients had differentiation syndrome demonstrative of biological activity

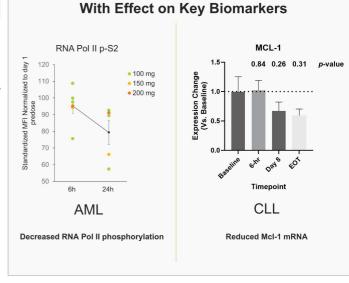
... and Was Well-tolerated

- No dose-limiting toxicity on IS_{2w,2w} dosing
- MTD not reached
- Dose escalation stopped at 200 mg to focus on venetoclax combination
- No drug-related neutropenia
- No Grade 3+ drug related toxicity
- No discontinuation due to drug related toxicity

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Davids et al, Blood (2023) 142 (Supplement 1): 4286

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On-Target Biologic Activity

Completed Dose Escalation/Expansion of Voruciclib 2 Weeks/Cycle ($IS_{2w,2w}$) Plus Venetoclax in R/R AML Showed Evidence of Clinical Activity With a Well Tolerated Regimen

- Dosing schedule
 - Voruciclib days 1-14 (day 3-14 in cycle 1)
 - Venetoclax 200 mg on days 1-21 and 400 mg on days 22-28
- 41 patients enrolled
 - 29 in dose escalation cohorts at 50-300 mg
 - 12 in expansion cohort at 300 mg
- Clinical activity
 - 2 CRh and 1 MLFS
 - Improved blast counts
- Well tolerated
 - No DLTs observed
 - MTD not reached
 - No discontinuation due to drug-related adverse events
- PK does not show drug-drug interaction
- Decreases in McI-1 protein expression and phosphorylation of RNA Pol IIser2

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Baseline Characteristics in Dose Escalation/Expansion Cohorts (N = 41) Patients Heavily Pretreated With High Rate of Adverse Cytogenetic and Molecular Features

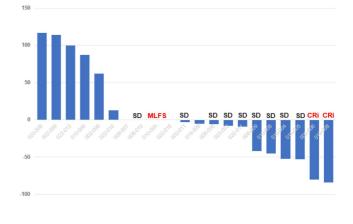
 Median age 67 years (range 34-89) 18 patients (44%) had ≥3 prior lines of therapy 39 (95%) previously treated with venetoclax 		Total (N=41)			
		2017 ELN Risk Category			
		4 (10%) 7 (17%) 30 (73%)			
			isk Category		
				Poor Cytogenetics (n = 40)	
	Patients with adverse cytogenetics	20 (50%)			
N = 41					
	Advorse Molecular Mutations $(n = 36)$				
2 (1-6)	· · · · · · · · · · · · · · · · · · ·	10 (28%)			
18 (44%)		14 (39%)			
8 (20%)	RUNX1	8 (22%)			
()	GATA2	4 (11%)			
()		· · · ·			
. ,					
14 (2070)					
39 (95%)	Baseline Bone Marrow Blast				
21 (51%)	Median (range)	33% (2-77%			
	s of therapy enetoclax sk Category N = 41 2 (1-6) 18 (44%) 8 (20%) 39 (95%) 25 (64%) 14 (26%)	S of therapy enetoclax sk Category2017 ELN Risk Category Favorable Intermediate AdverseN = 41Poor Cytogenetics (n = 40) Patients with adverse cytogenetics2 (1-6) 18 (44%)Adverse Molecular Mutations (n = 36) TP53 ASLX1 RUNX1 GATA239 (95%) 25 (64%) 14 (26%)Baseline Bone Marrow Blast			

31% (10/32) of Patients Administered VORU at 100-300 mg for 14 days/cycle + VEN had Disease Control

- 3 patients achieved a response
 - 2 had a CRi
 - 1 underwent HSCT transplant
 - 1 had a CRi for 6 months then progressed
 - 1 had a MLFS, ongoing at 9+ months
- 7 patients had stable disease \geq 3 months
 - 13 patients had stable disease <3 months

~50% of Patients with Pre/Post Bone Marrow Biopsy Had a Decrease in Blast Counts





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MEI Data on file

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Covariate Analyses From All Cohorts on IS_{2W,2W} (41 Patients)

AML Type

- Poor risk AML had low disease control rate (<40%) vs favorable risk AML with higher disease control rate (≥50%)

	AML Type	No. Pts (N=41)	CRi/MLFS	SD ≥3 mo	"Good Outcome" CRi/MLFS/SD	"Poor Outcome" PD + SD <3 mo
Poor Risk	AML with MDS related changes	18	1	6	7 (39%)	11 (61%)
	AML with RUNX-1	5	0	1	1 (20%)	4 (80%)
	Pure erythroid leukemia	2	0	0	0	2 (100%)
	AML without maturation	1	0	0	0	1 (100%)
×						
able Risk	AMML	7	1	3	4 (57%)	3 (43%)
	AML with maturation	3	1	1	2 (67%)	1 (33%)
Favorable	NPM-1 mutation	2	0	1	1 (50%)	1 (50%)
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ELN 2017 Risk Group

 Patients with Adverse risk had low disease control rate (≤10%) vs patients with Intermediate/Favorable risk who had higher disease control rate (≥50%)

ELN 2017 Risk Group	No. Pts (N=41)	CR/MLFS	SD ≥3 mo	"Good Outcome" CRi/MLFS/SD	"Poor Outcome" PD + SD <3 mo
Adverse	30	1	2	3 (10%)	27 (90%)
Intermediate	7	1	5	6 (86%)	1 (14%)
Favorable	4	1	1	2 (50%)	2 (50%)

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Molecular Mutations

- Patients with adverse risk mutations (RUNX1, TP53, SRSF2) had low disease control rate, particularly for TP53
- Patients with ASXL1, considered poor risk in general but reported by Sellas to be associated with better outcome when treated with GFH009, led to 2 CRi with VORU+VEN

Molecular Mutation	No. Pts (N=36)	CR/MLFS	SD ≥3 mo	"Good Outcome" CRi/MLFS/SD	"Poor Outcome" PD + SD <3 mo
TP53	10	0	0	0	10 (100%)
RUNX-1	8	1	0	1 (12.5%)	7 (87.5%)
SRSF2	6	0	2	2 (33%)	4 (67%)
ASXL1	14	2	4	6 (43%)	8 (57%)

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Voruciclib Dosed up to 300 mg for 14 Days per Cycle Was Generally Well-Tolerated with No Apparent Dose Response to Adverse Events Reported

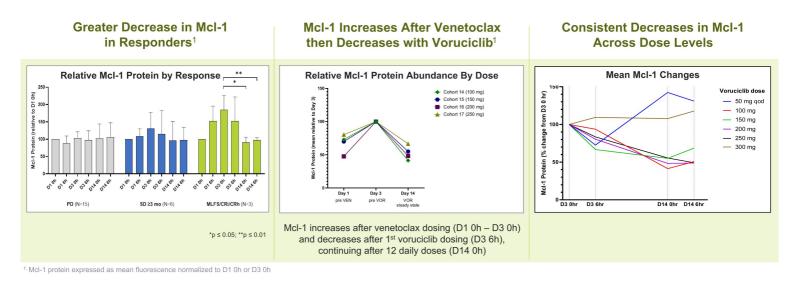
Treatment Emergent Adverse Events in ≥10% of Patients

	(50 mg QOD) (N=6)	(50 mg QD) (N=3)	(100 mg QD) (N=4)	(150 mg QD) (N=4)	(200 mg QD) (N=4)	(250 mg QD) (N=4)	(300 mg QD) (N=4)	Total (N=29)
Nausea	0	0	2 (50.0)	3 (75.0)	2 (50.0)	1 (25.0)	2 (50.0)	10 (34.5)
Platelet Count Decreased	0	1 (33.3)	1 (25.0)	3 (75.0)	1 (25.0)	1 (25.0)	1 (25.0)	8 (27.6)
Febrile Neutropenia	0	1 (33.3)	2 (50.0)	2 (50.0)	0	1 (25.0)	1 (25.0)	7 (24.1)
Anaemia	0	0	2 (50.0)	2 (50.0)	0	1 (25.0)	1 (25.0)	6 (20.7)
Hypokalaemia	0	0	2 (50.0)	1 (25.0)	2 (50.0)	1 (25.0)	0	6 (20.7)
Cough	2 (33.3)	0	1 (25.0)	1 (25.0)	1 (25.0)	0	0	5 (17.2)
Diarrhoea	1 (16.7)	0	1 (25.0)	1 (25.0)	1 (25.0)	1 (25.0)	0	5 (17.2)
Dyspnoea	2 (33.3)	0	1 (25.0)	1 (25.0)	0	1 (25.0)	0	5 (17.2)
Fatigue	0	0	0	3 (75.0)	1 (25.0)	0	1 (25.0)	5 (17.2)
Stomatitis	2 (33.3)	0	1 (25.0)	1 (25.0)	0	0	0	4 (13.8)
Vomiting	0	0	1 (25.0)	0	0	2 (50.0)	1 (25.0)	4 (13.8)
Anxiety	1 (16.7)	0	2 (50.0)	0	0	0	0	3 (10.3)
Corona Virus Infection	1 (16.7)	0	0	1 (25.0)	1 (25.0)	0	0	3 (10.3)
Hypotension	1 (16.7)	0	1 (25.0)	1 (25.0)	0	0	0	3 (10.3)

• MEI Pharma

MEI Data on file

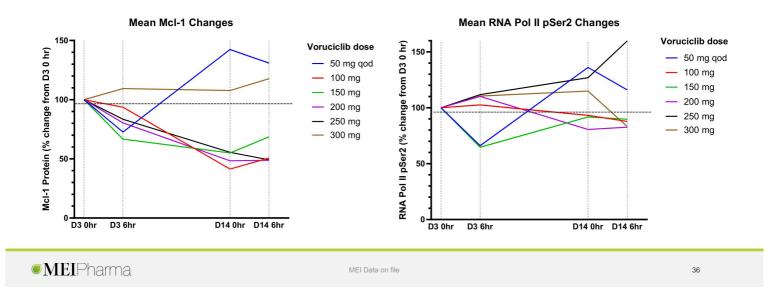
Decrease in McI-1 Protein with VORU+VEN Demonstrates On-Target Biological Activity



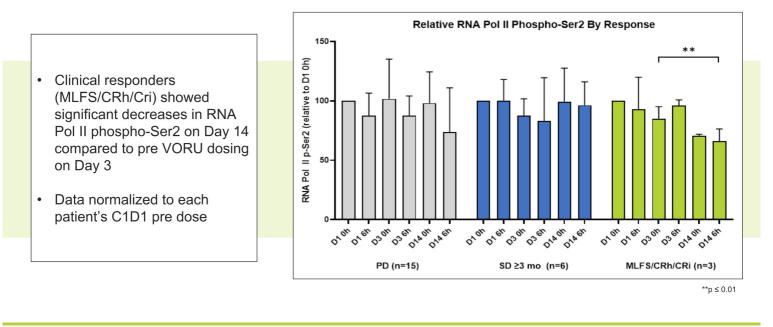
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MEI Data on file

- Mcl-1 and phosphorylation of RNA Pol II^{Ser2} mean values decreased from before first voruciclib dose to day 14 on the last day of voruciclib dosing
- Change not as evident at 300 mg (compensatory pathways?) and 50 mg (dose too low)



Patients with Clinical Responses Have Strongest Decreases in RNA Pol I^{Ser2} Phosphorylation Following VORU+VEN at 100-300 mg



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MEI Data on file

Assessment of Voruciclib PD Responses by Raw Values

- · Flow cytometry analysis of PBMC samples
- Changes in fluorescence signal for individual subjects analyzed for acute response (6 hr post-dose on day 3 or day 14 vs pre-dose on same day) or steady state response (day 14 pre-dose compared to day 3 pre-dose)
- Response defined as ≥20% decrease from baseline values

% of Patients with McI-1 and p-Ser2 RNA Pol II Responses

	100-250 mg Acute or Steady State	50-300 mg Acute or Steady State
McI-1	71.4%	53.6%
p-Ser2 RNA Pol II	35.7%	39.2%

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MEI Data on file

Assessment of Voruciclib PD Responses by Raw Values

			Targ	et Dose R	ange	
PD Assessment	Cohort 12 (50 mg QOD)	Cohort 14 (100 mg)	Cohort 15 (150 mg)	Cohort 16 (200 mg)	Cohort 17 (250 mg)	Cohort 18 + EXP1 (300 mg)
PD day 3 and/or day 14, N	3	4	3	4	3	11
Pts with McI-1 decrease (≥ 20%) post VOR (acute or steady state) % (N)	66.7% (2)	75% (3)	66.7% (2)	50% (2)	100% (3)	27.3% (3)
Pts with pSer2-RNA Pol II decrease (≥ 20%) post VOR (acute or steady state) % (N)	66.7% (2)	50% (2)	66.7% (2)	25% (1)	0% (0)	36% (4)
PD steady state day 14, N	1	3	2	1	2	11
Pts with McI-1 decrease (≥ 20%) VOR steady state (day 14 pre- dose compared to day 3 pre-dose) % (N)	100% (1)	100% (3)	50% (1)	100% (1)	100% (2)	9% (1)
Pts with pSer2-RNA Pol II decrease (≥ 20%) VOR steady state (day14 pre-dose compared to day 3 pre-dose) % (N)	0% (0)	33% (1)	0% (0)	100% (1)	0% (0)	9% (1)

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Voruciclib PK Analysis 50-300 mg

	Cohort 12	Cohort 13	Cohort 14	Cohort 15	Cohort 16	Cohort 17	Cohort 18 + EXP1
Voruciclib dose Venetoclax dose	50 mg QOD 200 mg QD	50 mg QD 200 mg QD	100 mg QD 200 mg QD	150 mg QD 200 mg QD	200 mg QD 200 mg QD	250 mg QD 200 mg QD	300 mg QD 200 mg QD
C1D3 (single dose) voruciclib PK parameters							
n	5	2 ^A	3	2 ^A	2 ^A	1 ^A	4
C _{max} , ng/mL	95.1 (22%)	54.5, 40.9	258 (105%)	242, 267	425, 198	1040	662 (64%)
AUC ₂₄ , ng×h/mL	1301 (16%) ^в	n.c.	2507 (65%)	3590, 4454	4015, 2814	15443	9250 (49%)
			C1D13/14 (multip	ole dose) vorucicli	b PK parameters		
n	4	2 ^A	4	3	2 ^A	4	13
C _{max} , ng/mL	200 (22%)	245, 124	313 (65%)	468 (29%)	378, 318	1240 (41%)	1267 (37%)
AUC ₂₄ , ng×h/mL	2488 (29%) ^c	4666, 2036	5767 (69%)	8323 (34%)	8283, 4587	19024 (33%)	21526 (38%)

Mean (%CV) single dose and multiple dose voruciclib C_{max} and AUC_{24}

Note: Multiple dose PK was assessed on C1D13 in Cohort 12 and C1D14 in Cohorts 13 to 18

n.c.: not calculated (insufficient data or PK samples not collected)

^A Individual values are shown for n<3; ^B n=4; \dot{c} n=3

Voruciclib multiple dose exposures on C1D14 was generally proportional to the dose in the range 50 mg to 300 mg.
Voruciclib PK profiles are consistent with historical single agent data; it is inferred that venetoclax does not affect voruciclib PK

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Venetoclax PK at 50-250 mg

	mean (700 v) maniple dose veneroblax o _{max} and A00 ₂₄ values								
	Cohort 12	Cohort 13	Cohort 14	Cohort 15	Cohort 16	Cohort 17	Cohort 18 + EXP1	Historical Ver (Study N	
Venetoclax dose	200 mg QD	200 mg QD	200 mg QD	200 mg QD	200 mg QD	200 mg QD	200 mg QD	CLL/SLL	NHL
Voruciclib dose	50 mg QOD	50 mg QD	100 mg QD	150 mg QD	200 mg QD	250 mg QD	300 mg QD	200 mg QD	200 mg QD
	C1D13/14 (multiple dose) venetoclax PK parameters								
n	3	3	4	3	3	4	14	7	3
C _{max} , µg/mL	1.77 (36%)	1.49 (72%)	1.40 (127%)	0.95 (59%)	1.2 (13%)	1.27 (22%)	0.96 (62%)	1.44 (39%)	1.11 (27%)
AUC ₂₄ , µg×h/mL	17.04, 22.98 A	38.89, 7.54 A	21.8 (135%)	10.6 (39%)	14.9 (28%)	15.3 (30%)	12.26 (61%)	24.28 (44%)	16.26 (28%)

Mean (%CV) multiple dose venetoclax \mathbf{C}_{\max} and $\mathbf{AUC}_{\mathbf{24}}$ values

Note: Multiple dose PK was assessed on C1D13 in Cohort 12 and C1D14 in Cohorts 13 to 18

 $^{\rm A}$ Individual values are shown for n<3; $^{\rm B}$ n=13

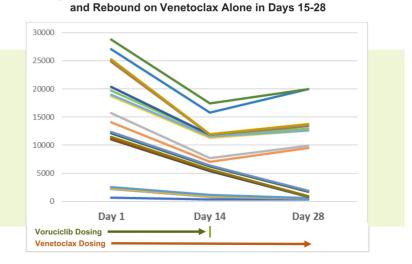
• Voruciclib once daily administration did not have an effect on venetoclax pharmacokinetics.

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Now Evaluating Voruciclib on Days 1 to 21 of 28-Day Cycle in Combination with Venetoclax to Extend Voruciclib Exposure and Prevent Blast Rebound

- 18/24 pts (75%) had decreased blasts on Day 14, at the end of voruciclib and venetoclax combination dosing
- 8/18 pts (44%) had blasts rebound between Day 14 and 28, when voruciclib was stopped while continuing venetoclax
- Increasing duration of voruciclib exposure may prevent blast rebound and enhance efficacy



Peripheral Blast Counts Decrease on Voruciclib + Venetoclax

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Patient Enrollment in VORU IS_{3w,1w} + Venetoclax Cohorts Paused for Strategic Reasons After Completing Enrollment at 150 mg Dose

- 3 patients enrolled in VORU+VEN group at 150 mg on IS_{3w,1w}
 - No DLTs
 - 1 patient had a 49% reduction in bone marrow blasts
- · Enrollment halted for strategic reasons despite investigator support for evaluation of 3-week schedule
- Enrollment of dose escalation and expansion cohorts on 3-week schedule can be completed by yearend 2024 if enrollment is reactivated in early September
 - Significant gain in efficiency and lower cost if current protocol is reactivated with the same sites and CRO
- Estimated R&D cost to complete dose optimization on IS_{3w.1w}

Patients Enrolled	Investigators/CRO	Consultants	Total
16 (at 200 mg)	\$852,200	\$386,000	\$1,238,200
16 (at 250 mg)	\$852,200	\$177,000	\$1,034,200
32 (at 200 mg and 250 mg)	\$1,709,400	\$563,000	\$2,272,400

Estimated R&D Cost to Evaluate 200 mg Only

	Activity	Unit	cost	No. Units	Total c	ost
Clinical study	Investigator cost	\$	30,000	16	\$	480,000
	CRO	\$	30,000	6	\$	180,000
	PK assays + analysis	\$	3,000	16	\$	48,000
	Correlative studies	\$	3,000	16	\$	48,000
	Drug supply	\$	700	16	\$	11,200
	TOTAL				\$	767,200
IND maintenance FDA/sites	IB/DSUR preparation (Sept 2024)	\$	40,000	1	\$	40,000
	IRB approvals	\$	5,000	9	\$	45,000
	TOTAL				\$	85,000
Consultants/R&D only	Medical monitor (\$400 x 60h/m)	\$	24,000	6	\$	144,000
	Clin Ops (\$250 x 80h/m)	\$	20,000	6	\$	120,000
	Drug supply/clin ops (\$200 x50h/m)	\$	10,000	6	\$	60,000
	Biometrics (statistician, programmer)	\$	8,000	4	\$	32,000
	Reg Aff and Reg Ops	\$	5,000	6	\$	30,000
	TOTAL				\$	386,000
Study total					\$	1,238,200

Estimated R&D Cost to Evaluate 200 mg and 250 mg

	Activity	Unit	cost	No. Units	Total o	ost
Clinical study	Investigator cost	\$	30,000	32	\$	960,000
	CRO	\$	50,000	9	\$	450,000
	PK assays + analysis	\$	3,000	32	\$	96,000
	Correlative studies	\$	3,000	32	\$	96,000
	Drug supply	\$	700	32	\$	22,400
	TOTAL				\$	1,624,400
IND maintenance FDA/sites	IB/DSUR preparation (Sept 2024)	\$	40,000	1	\$	40,000
	IRB approvals	\$	5,000	9	\$	45,000
	TOTAL				\$	85,000
Consultants	Medical monitor (\$400 x 60h/m)	\$	24,000	9	\$	216.000
	Clin Ops (\$250 x 80h/m)	\$	20,000	9	\$	180,000
	Drug supply/clin ops (\$200 x50h/m)	\$	10,000	9	\$	90,000
	Biometrics	\$	8,000	4	\$	32,000
	Reg Aff and Reg Ops	\$	5,000	9	\$	45,000
	TOTAL				\$	563,000
Study total					\$	2,272,400

Estimated R&D Cost to Evaluate 24 Patients at RP2D in Phase 2

	Activity	Unit	cost	No. Units	Total o	ost
Clinical study	Investigator cost	\$	30,000	24	\$	720,000
	Amendment approval at sites	\$	3,000	9	\$	27,000
	CRO	\$	50,000	12	\$	600,000
	PK assays + analysis	\$	3,000	24	\$	72,000
	Drug supply	\$	700	24	\$	16,800
	Biometrics consultants	\$	8,000	6	\$	48,000
	TOTAL				\$	1,483,800
IND maintenance FDA/sites	IB/DSUR preparation (Sept 2025)	\$	40,000	1	\$	40,000
	IRB approvals	\$	5,000	9	\$	45,000
	TOTAL				\$	85,000
Consultants/R&D only	Medical monitor (\$500 x 60h/m)	\$	30,000	12	\$	360,000
,	Clin Ops (\$250 x 80h/m)	\$	25,000	12	\$	300,000
	Drug supply/clin ops (\$200 x50h/m)	\$	10,000	12	\$	120,000
		^	5,000	12	\$	60,000
	Reg Aff and Reg Ops	\$	3,000	12	Ψ	00,000

Voruciclib is the Only Oral CDK9 Inhibitor in Clinical Development in Combination with Venetoclax in AML

Drug	Company	Target(s)	CDK9 IC ₅₀ (nM)	ROA	Indications (ongoing studies)	Stage
Voruciclib	MEI Pharma	CDK 9	0.63	oral	AML (+venetoclax)	Ph 1
Fadraciclib	Cyclacel Pharma	CDK 2, 9	26.2	oral	AML (single agent) , MDS, T and B-cell lymphoma, biliary tract, endometrial, ovarian, breast, HCC, CRC	Ph 1/2
BTX-A51	Edgewood Oncology	CDK 7,9 CK1-alpha	4	oral	AML (+azacytidine), MDS, advanced solid tumors, breast	Ph 1
SLS-009	Sellas	CDK 9	0.9	IV	AML (+venetoclax/+azacytidine) , PTCL, DLBCL, CLL, lymphoma	Ph 1
KB-0742	Kronos Bio	CDK 9	6	oral	NHL, DLBCL, refractory solid tumors	Ph 2
PRT-2527	Prelude Therapeutics	CDK 9	0.98	IV	NHL, TCL, advanced solid tumors (completed)	Ph 1
Enitociclib	Vincerx Pharma	CDK 9	3-16	IV	MYC-driven advanced cancers: DLBCL, PTCL & solid tumors	Ph1

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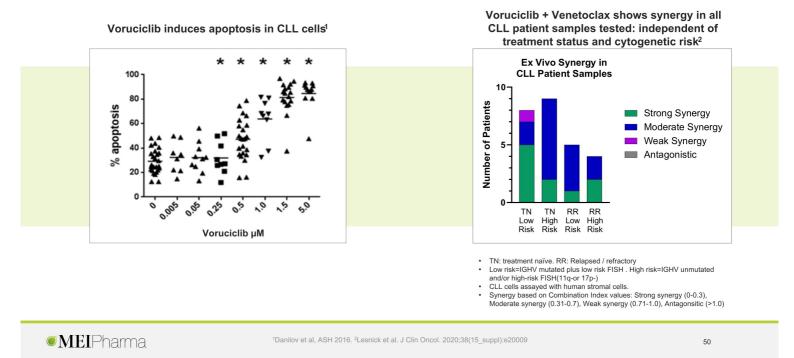


Scientific Rationale for Voruciclib Development in B-cell Malignancies & Solid Tumors

Life Cycle Opportunities for Voruciclib

 Lymphoid malignancies with MCL1 amplification or increased expression PTCL CLL in combination with venetoclax MCL DLBCL Multiple myeloma 	 Cancers with MYC amplification or increased expression (e.g., TNBC, SLCL, HCC, ovarian cancer) PDX tumor models ongoing Cancers with KRAS mutations (NSCLC, CRC) Synergy with KRAS G12C inhibitors observed in cell lines
 Solid tumors with MCL1 amplification or increased expression Prostate cancer Small cell lung cancer (SCLC) Hepatocellular carcinoma (HCC) 	

Voruciclib Shows Single Agent Efficacy and Synergizes with Venetoclax in CLL Cells



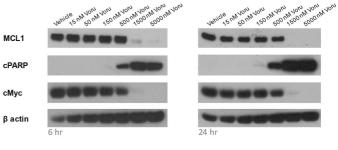
Voruciclib Synergizes with Venetoclax in DLBCL Nonclinical Models

VOR reduces MCL1 & MYC in DLBCL cell lines

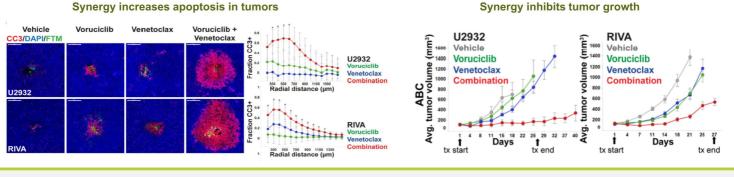
- Voruciclib induces dose-dependent reduction in MYC and MCL1 proteins in DLBCL cell lines
- Voruciclib synergizes with venetoclax to induce caspase cleavage after CIVO intra-tumoral injections

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Voruciclib and venetoclax synergize to reduce tumor growth . in DLBCL mouse xenograft models



Synergy inhibits tumor growth



Dey, et al. Scientific Reports, 2017 Dey et al. Blood, 2016. ASH conference poster #4167. Presage Biosciences (Data on file)

Single-Agent Phase 1 Studies in Solid Tumors Demonstrated Reduction in MYC and was Generally Welltolerated at Expected Therapeutic Doses

2 weeks on, 1 week off schedule (N = 29 pts)

- 75 to 850 mg
- MTD = 600 mg
- 41% disease control rate

Daily continuously schedule (N = 39 pts)

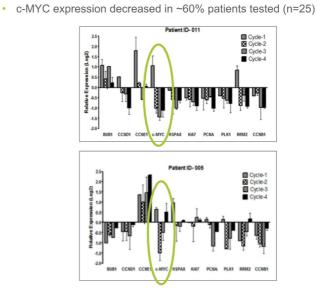
- 75 to 500 mg
- MTD = 350 mg
- 31% disease control rate

Safety data

- No evidence of myelosuppression
- Most common AEs involved GI tract

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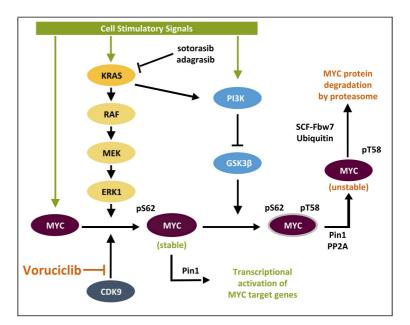
Gupta et al, ASCO 2012; Hao et al, ASCO 2012; MEI Data on file



• 10 gene biomarkers evaluated in blood in daily dosing study

CDK9 can influence MYC protein stability in KRAS mutant cancer cells

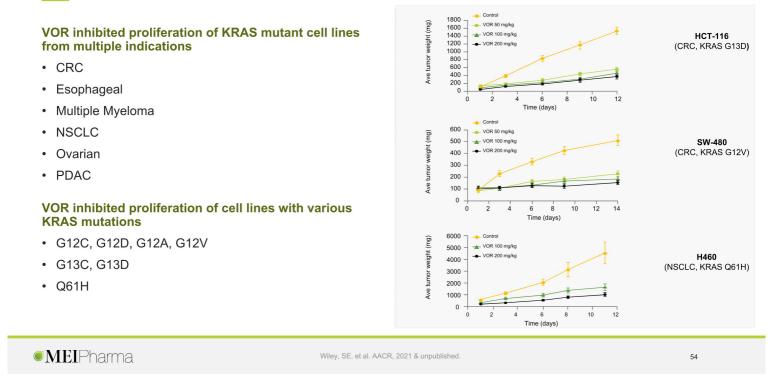
- Mutations in *KRAS* at G12, G13, and Q61 are oncogenic drivers in many cancers, including lung, colorectal, pancreatic, bone marrow, and endometrial carcinomas.
- KRAS mutations are frequently accompanied by stabilization of the MYC oncoprotein through increased MYC transcription and decreased protein degradation.
- MYC protein stability is mediated by phosphorylation of MYC on Ser 62 by ERK and CDK9 kinases.



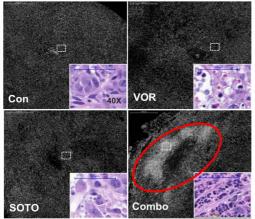
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Wiley, SE. et al. AACR, 2021

Voruciclib Inhibits KRAS Mutant Cell Lines In Vitro and In Vivo in Xenograft Mice



Voruciclib Synergizes with Sotorasib in an In Vivo MIA Paca-2 Tumor Model



Representative IHC images of DAPI and H&E staining in a Murine Xenograph Mo Cell death around each microinjection site measured by nuclear condensation and fragmentation

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Wiley, SE. et al. AACR, 2021

cell lines cell lines

Colorectal cancer cell lines Esophageal cancer cell line Ovarian cell line

Voruciclib Synergizes With Kras G12c Inhibitors In Vitro Synergy Scores Voruciclib+ Voruciclib+ Sotorasib Adagrasib

Sensitivity to G12C Inhibitors

High

High

High Moderate - High

High

Moderate - High

Moderate - High

Moderate - High

High Moderate - High

Low - High

Low

Low Low - Moderate

Low

Low

Low

KRAS mut

G12C

G12C

G12C

G12C

G12C

G12C

G12C

G12C

G12C

G12C G12C

G12D

G12D

G12D

G12D

G12D

G13C

High

Cell Line

MIA Pa

SW837

Panc 04.03

Moderate

Gp2D LS-513

٩sP

Low

Voruciclib Presents a Strong Value Proposition as the Only Oral CDK9 Inhibitor in Clinical Development in Combination with Venetoclax in AML

- Investment rationale
 - Opportunity to continue ongoing Phase 1 study (16-32 patients) to value inflection point by YE2024 and Phase 2 study (24 patients) in CY2025 for modest investment
- Initial focus on R/R AML
 - Significant medical need in large number of patients
 - Mutation agnostic therapy with potential to address >50% of AML patients
 - Clear and efficient path to marketing approval
- · Voruciclib plus venetoclax
 - Durable responses observed in patients with R/R AML after venetoclax failure
 - On target effect observed on McI-1 and RNA Pol II
- Life cycle management
 - Market and scientific rationale to move to 1L AML
 - Utility where venetoclax is approved/used in other hematologic indications
 - Potential to address several solid tumors associated with MYC overexpression

MEIPharma

Estimated R&D costs

Stage 1a: ~\$1.2M

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- 16 patients
- Evaluate 200 mg only
- Readout December 2024
- Stage 1b: ~\$1.1M
 - 16 patients
 - Evaluate 250 mg
 - Readout March 2025
- Stage 2: ~\$2.4M
 - 24 patients
 - Dose 200 or 250 mg
 - Readout December 2025

TOTAL: ~ \$4.7M to complete Phase 1 and Phase 2 studies with ~56 patients by YE2025



Voruciclib: An Oral CDK9 Inhibitor for AML and Other Malignancies

July 2024