# Phase I/II study exploring safety and efficacy of APL-101 plus frontline osimertinib in EGFR-mutated metastatic nonsmall cell lung cancer

## Introduction

- Activation of MET signaling has been described as a driver of primary resistance to EGFR tyrosine kinase inhibitors (TKI)<sup>1</sup>
- > Copy number gains in MET have been described in EGFR mutated non-small cell lung cancers (NSCLC) that are resistant to osimertinib and also treatment-naive samples<sup>2</sup>
- Combination of osimertinib with MET-TKIs has shown to be safe with encouraging antitumor activity following disease progression on osimertinib<sup>3,4</sup>
- > APL-101 is a specific ATP-competitive smallmolecule MET inhibitor that has shown favorable safety profile in advanced solid tumors with MET dysregulation (NCT03175224)

### Hypothesis

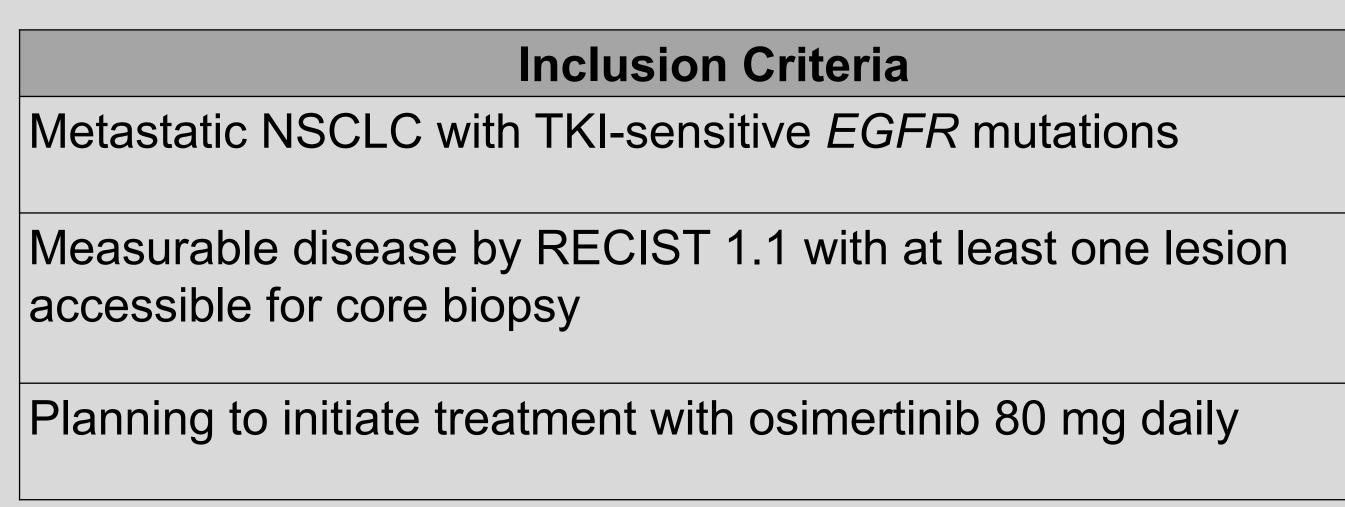
We hypothesize that combination therapy with MET inhibitor, APL-101, and EGFR-TKI osimertinib has the potential to induce deep and durable responses in patients with EGFR mutated lung cancer

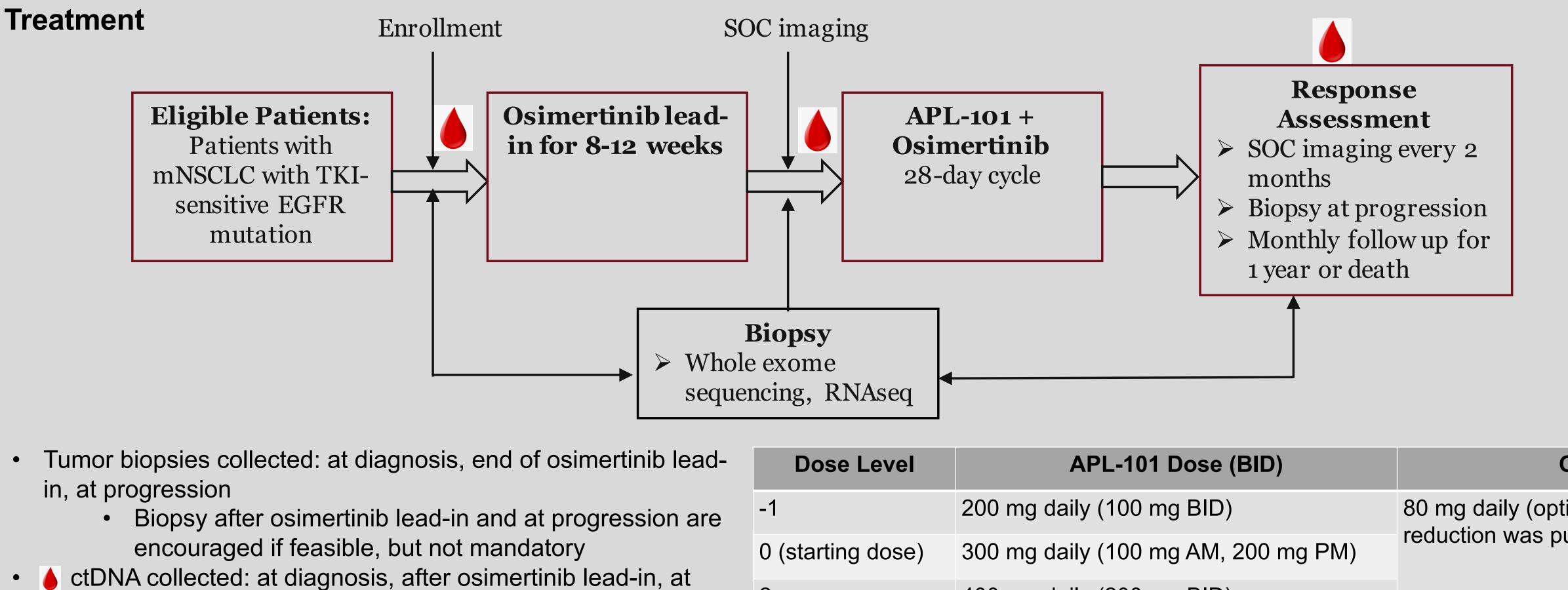
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# **Key Eligibility Criteria**





progression

	Exclusion Criteria	
	Prior treatment with osimertinib in metastatic setting	
	Prior immunotherapy treatment in metastatic setting	
	Presence of symptomatic and unstable brain metastasis	

APL-101 Dose (BID)	Osimertinib Dose
200 mg daily (100 mg BID)	80 mg daily (option to start with 40mg, if d reduction was pursued during lead-in phase
300 mg daily (100 mg AM, 200 mg PM)	
400 mg daily (200 mg BID)	



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# **Study Objectives**

- $\succ$  Phase I = dose escalation phase, determine maximum tolerated dose (MTD) and doselimiting toxicities
  - Toxicity assessed by CTCAE v 5.0
  - Standard 3+ 3 design

# Phase II = MTD cohort expansion phase

- Progression free survival at 1 year
- Overall response rate, duration of response, overall survival
- Exploratory analyses will investigate genomic alterations underlying drug tolerance and identify biomarkers that are prognostic and predictive of treatment response

# **Study Information**

- Status: Recruiting to dose level 2
- Protocol Number: 202104039
- ClinicalTrials.gov Identifier: NCT04743505

#### References

- Benedettini et al. Am J Pathol. 2010
- . Roper et al. Cell Rep Med. 2020
- 3. Sequist et al. Lancel Oncol. 2020
- 4. E FS et al. *Future Oncol*. 2022

### Acknowledgement

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