

Inhibikase
Therapeutics

Corporate Overview

August 2025



Disclaimer

This presentation contains information that may constitute “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995, as amended. Inhibikase Therapeutics, Inc. (the “Company” or “we”) intends for the forward-looking statements to be covered by the safe harbor provisions for forward-looking statements in those sections. Generally, we have identified such forward-looking statements by using the words “believe,” “expect,” “intend,” “estimate,” “anticipate,” “project,” “target,” “forecast,” “aim,” “should,” “will,” “may,” “continue,” “assume,” “contemplate,” “could,” “design,” “due,” “goal,” “hope,” “might,” “plan,” “opportunity,” “predict,” “possible,” “potential,” “seek,” “strategy,” “would” and similar expressions that are predictions or indicate future events and future trends, or the negative of these terms or other comparable terminology. Such statements are subject to a number of assumptions, risks and uncertainties which may cause actual results, performance or achievements to be materially different from those anticipated in these forward-looking statements. You should read statements that contain these words carefully because they discuss future expectations and plans which contain projections of future clinical studies or trials, regulatory approvals, product candidate development, results of operations or financial condition or state other forward-looking information. However, the absence of these words or similar expressions does not mean that a statement is not forward-looking. Forward-looking statements are not historical facts, but instead represent only the Company’s beliefs regarding future events, many of which, by their nature, are inherently uncertain and outside of the Company’s control. It is possible that the Company’s actual results and financial condition may differ, possibly materially, from the anticipated results and financial condition indicated in these forward-looking statements. Management believes that these forward-looking statements are reasonable as of the time made. However, caution should be taken not to place undue reliance on any such forward-looking statements because such statements speak only as of the date when made. The Company undertakes no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law. In addition, forward-looking statements are subject to certain risks and uncertainties that could cause actual results to differ materially from the Company’s historical experience and our present expectations or projections. This presentation should be read in conjunction with the Company’s filings with the Securities and Exchange Commission, including its annual report on Form 10-K, its quarterly Form 10-Q and any subsequent filings with the SEC (collectively, the “SEC Filings”). Important factors that could cause actual results to differ materially from those in the forward-looking statements are set forth in the Company’s SEC filings, including under the caption “Risk Factors”.

Certain information contained in this presentation relates to or is based on studies, publications, surveys and other data obtained from third-party sources and our own internal estimates and research. While we believe these third-party studies, publications, surveys and other data to be reliable as of the date of this presentation, we have not independently verified, and make no representation as to the adequacy, fairness, accuracy or completeness of any information obtained from third-party sources. In addition, no independent sources has evaluated the reasonableness or accuracy of our internal estimates or research and no reliance should be made on any information or statements made in this presentation related to or based on such internal estimates and research.

We do not intend our use or display of other entities’ names, trade names, trademarks or service marks to imply a relationship with, or endorsement or sponsorship of us by, any other entity.

This presentation shall not constitute an offer to sell or a solicitation of an offer to buy any securities, nor shall there be any sale of such securities in any state or jurisdiction in which such offer, solicitation, or sale would be unlawful prior to registration or qualification under the securities laws of any such state or jurisdiction.

Experienced Leadership with Deep Expertise in PAH



MARK IWICKI
Chief Executive Officer



CHRIS CABELL, MD MHS FACC
Head of R&D, Chief Medical Officer



DAVID McINTYRE BEC CPA LLB MBA
Chief Financial Officer



JEFF KAGY
Chief Human Resource Officer



JOHN ADAMS, PHD
Chief Scientific Officer



CHAD OREVILLO, MPH
EVP, Development Operations



ALLISON WIDLITZ, MS, PA
VP, Clinical Development



Inhibikase and IKT-001: Pulmonary Arterial Hypertension (PAH)

Major unmet need with high mortality, poor QoL and high cost

- PAH is a rare, progressive and life-threatening disease with significant unmet need
- ~30% 5-year mortality⁽¹⁾, reduced quality of life and high economic burden
- \$7.6 Billion market with limited treatments that address the underlying etiology

Imatinib has proven efficacy in Phase 3 in PAH

- Imatinib is an anti-proliferative TKI with potential best-in-class improvements in PVR and 6MWD (45 meters*) based on Phase 3 IMPRES and Phase 2 studies
- Imatinib hit primary efficacy endpoints in IMPRES but was not well tolerated at 400mg

Potential to be the 1st oral anti-proliferative agent

- IKT-001 is a pro-drug engineered to realize the potential of imatinib in PAH
- IKT-001 releases imatinib in the blood with potential to minimize GI side effects maximizing potential to achieve highly efficacious doses

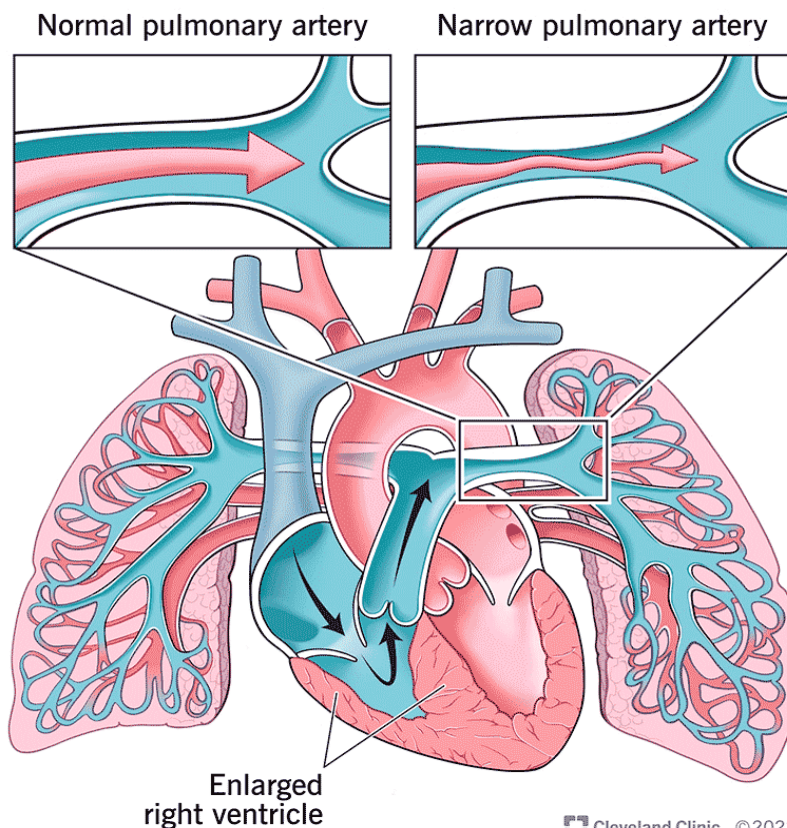
Strong Leadership
Executing Near Term
Development

- IKT's Phase 2b is on track to initiate in the second half of 2025
- Long intellectual property runway through 2044
- Team with extensive PAH / CV experience

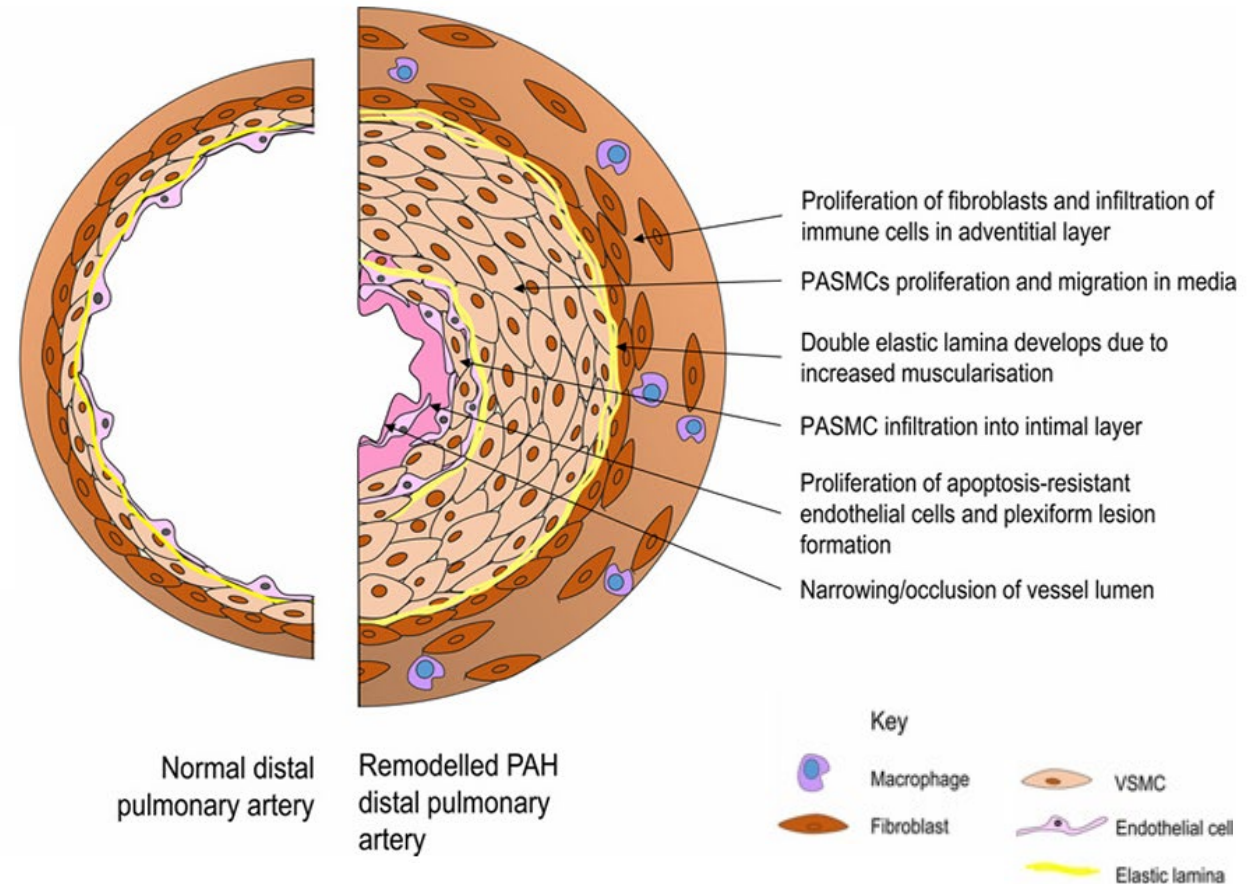
PAH is a Progressive Disease Driven by Uncontrolled Cell Proliferation

Proliferation of vascular cells drive vascular remodeling, raising pulmonary artery pressure and leading to progressive right ventricular heart failure and ultimately death

Pulmonary Hypertension



Cleveland Clinic ©2022



PAH: An Orphan Disease with ~30% 5-Year Mortality Despite Aggressive Treatment

~50,000

People with PAH in the US⁽¹⁾

52 years

Average age at diagnosis⁽²⁾

~26,000

People with PAH in the EU5⁽¹⁾

15

Approved vasodilators
(across the prostacyclin, nitric oxide,
and endothelin pathways)

~80%

Female⁽²⁾

1

Approved anti-proliferative

High Unmet Medical Need

Progressive and Life Threatening

- ~30% 5-year mortality⁽³⁾ despite aggressive treatment with vasodilator therapies
- Progressively worsening symptoms

Reduced Quality of Life

- Chronic breathlessness, and fatigue
- Significant limitation on activities of daily living
- Dizziness, chest pain, anxiety and depression

High Economic Burden⁴

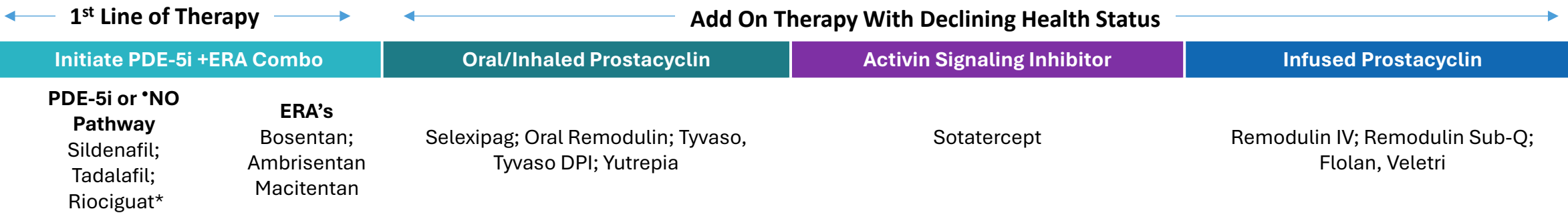
- Average monthly healthcare costs ~\$6,850-\$15,650
- Acute all cause hospitalization rate of 700 per 1000 patients per year among Medicare or Medicaid patients
- Substantial indirect costs due to work loss, caregiver time and disability

PAH: Patient and Treatment Journey



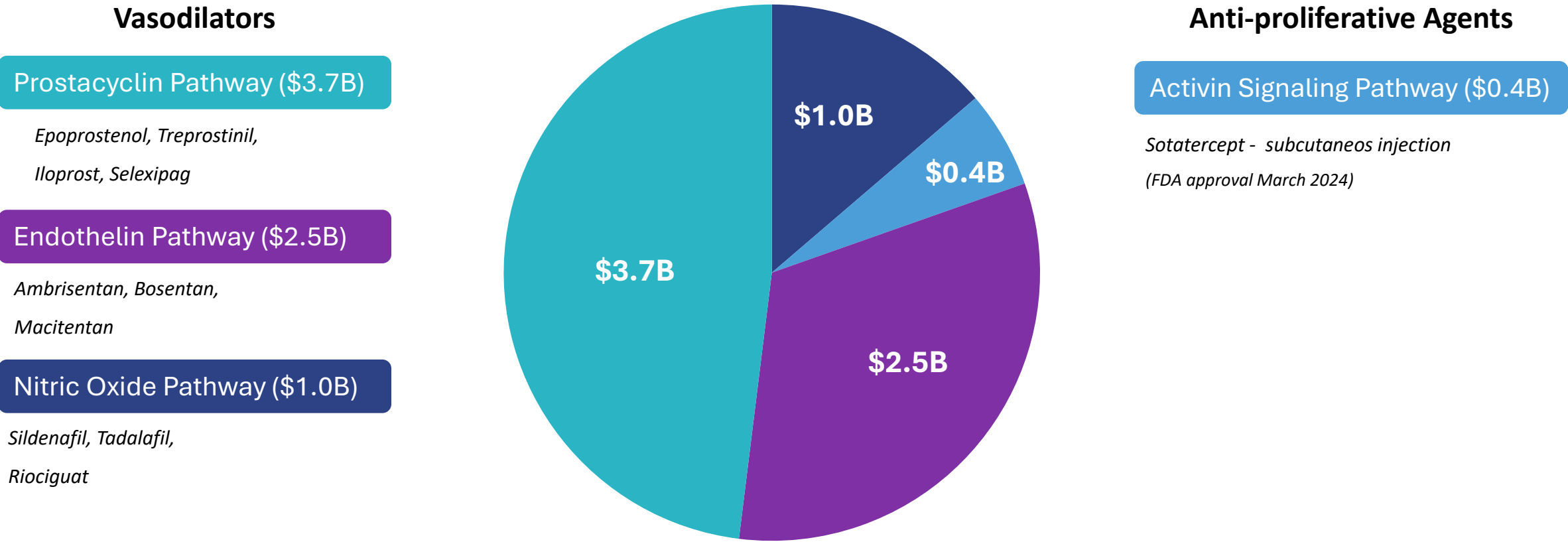
Progressive pulmonary vasculopathy driving right heart failure (RHF)

WHO Functional Class	ESC/ERS 4 Risk Strata (Risk of 1 year Mortality) ⁽¹⁾				
	Low (0-3%)		Intermediate Low (2-7%)	Intermediate High (9-19%)	High (>20%)
	Class 1 No limitation of physical activity	Class 2 Slight limitation of physical activity. Ordinary physical activity causes dyspnea, fatigue, chest pain, or near syncope		Class 3 Marked limitation in physical activity. Less than ordinary activity causes undue dyspnea, fatigue, chest pain or near syncope	Class 4 Inability to carry out any physical activity without symptoms. Signs of RHF. Discomfort increased by any physical activity. Dyspnea and fatigue present at rest
	6MWD	>440 meters	320 – 440 meters	165 - 319 meters	<165 meters
NT-ProBNP	<300ng.L ⁻¹	300-649ng.L ⁻¹	650-1100ng.L ⁻¹	>1100ng.L ⁻¹	



\$7.6B Market Driven by Vasodilators Which Don't Treat Underlying Causes of PAH

Novel antiproliferative agents with disease modifying properties expected to revolutionize treatment



Our Solution: An Oral Pro-Drug of Imatinib Optimized for PAH

Engineered to realize imatinib's best-in-class efficacy potential in PAH

**Gleevec
(Imatinib)**



**IKT-001 (Imatinib
Pro-Drug)**



History

First Approved in 2001; 25 years of real-world experience
Indicated for: Leukemia, Soft Tissue Sarcoma, Myelodysplastic Syndromes, Mastocytosis and GIST

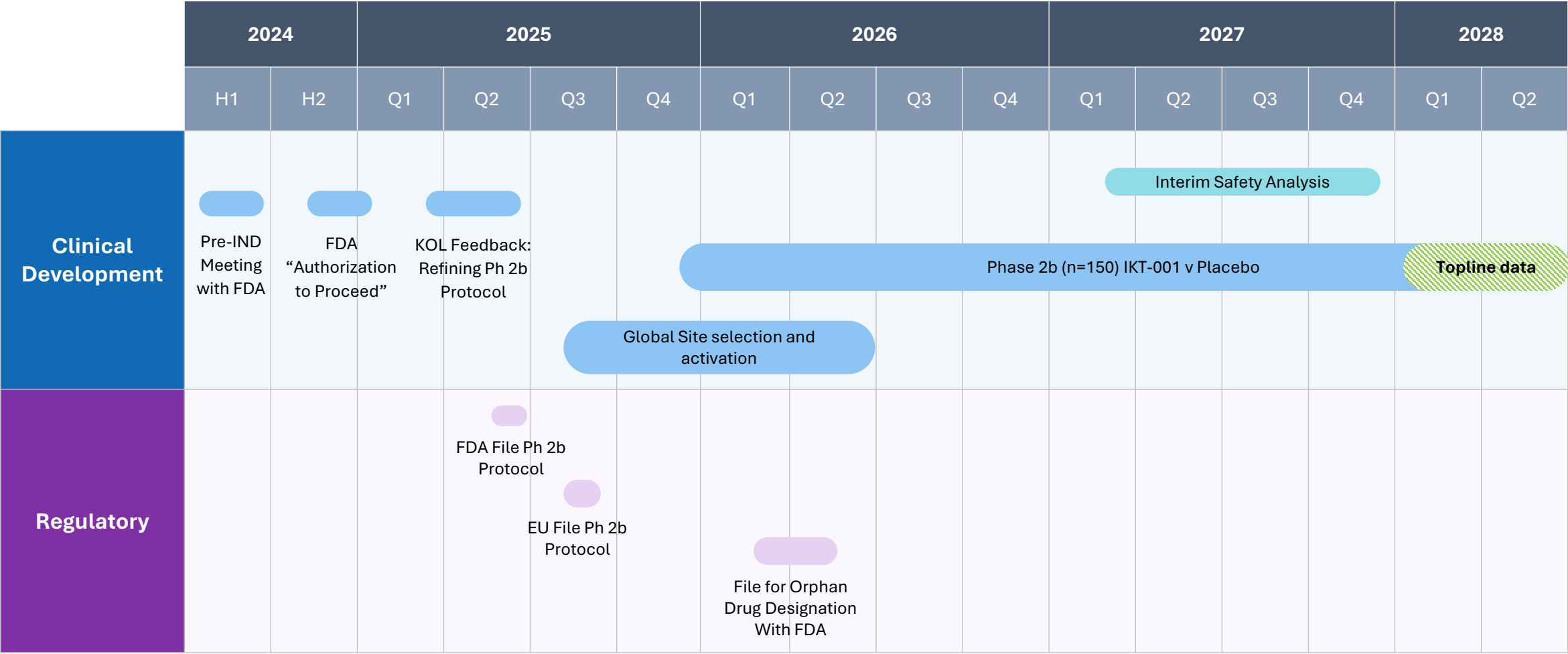
IKT-001 is a novel pro-drug of imatinib designed for better GI tolerability allowing optimal efficacy

PAH Data

Best-in-class improvements in PVR and 6MWD in Phase 2 & 3
Greatest efficacy at 400mg but not clinically tolerated
Contemporary study supports 400mg efficacy/tolerability findings

Potential to be the first and only once-daily oral anti-proliferative tyrosine kinase inhibitor (TKI) for PAH

Development and Regulatory Timeline

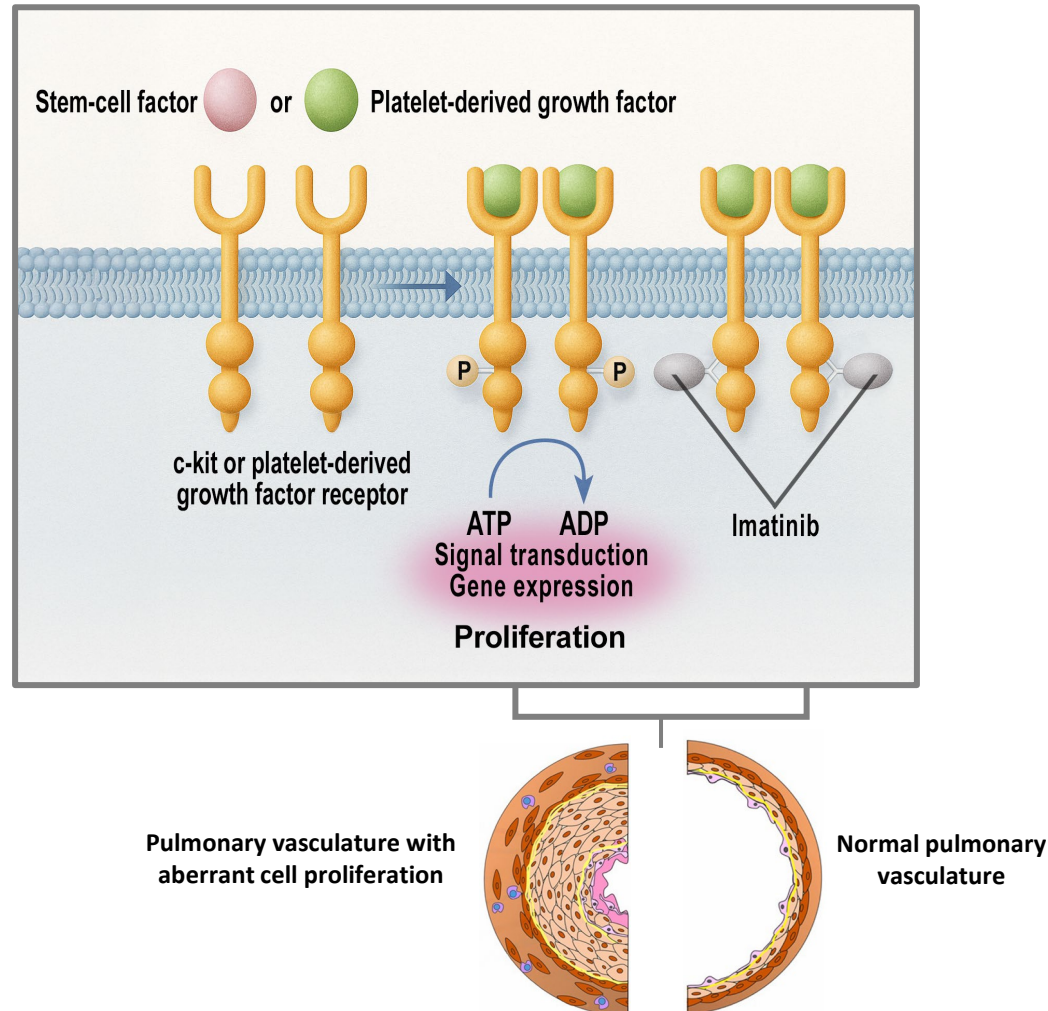


Inhibikase
Therapeutics

Scientific and Clinical Rationale



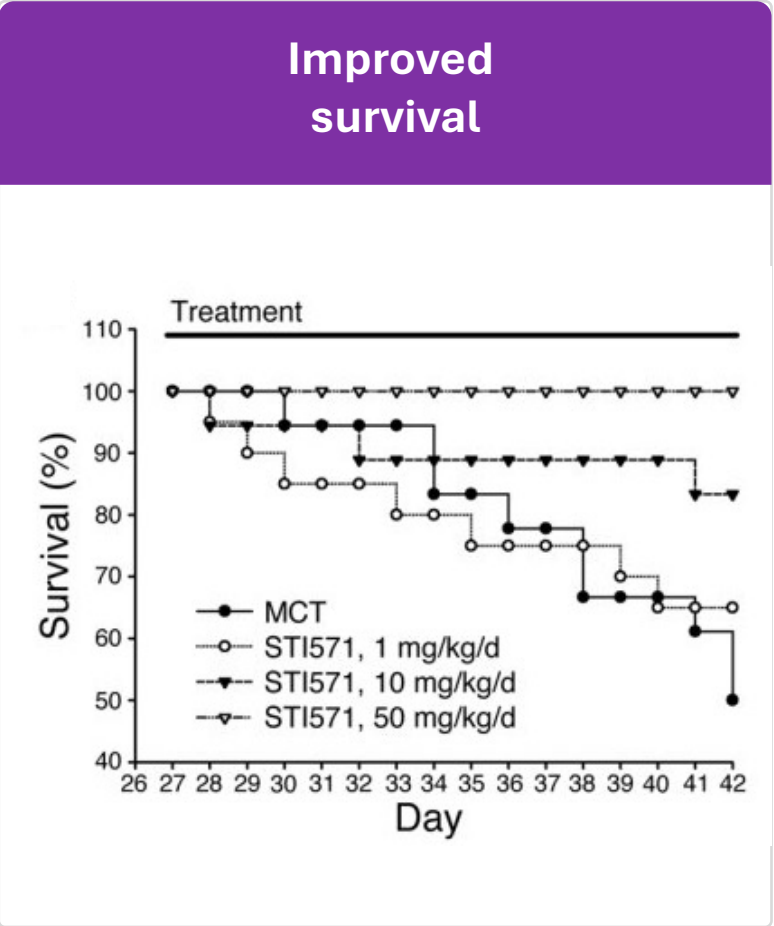
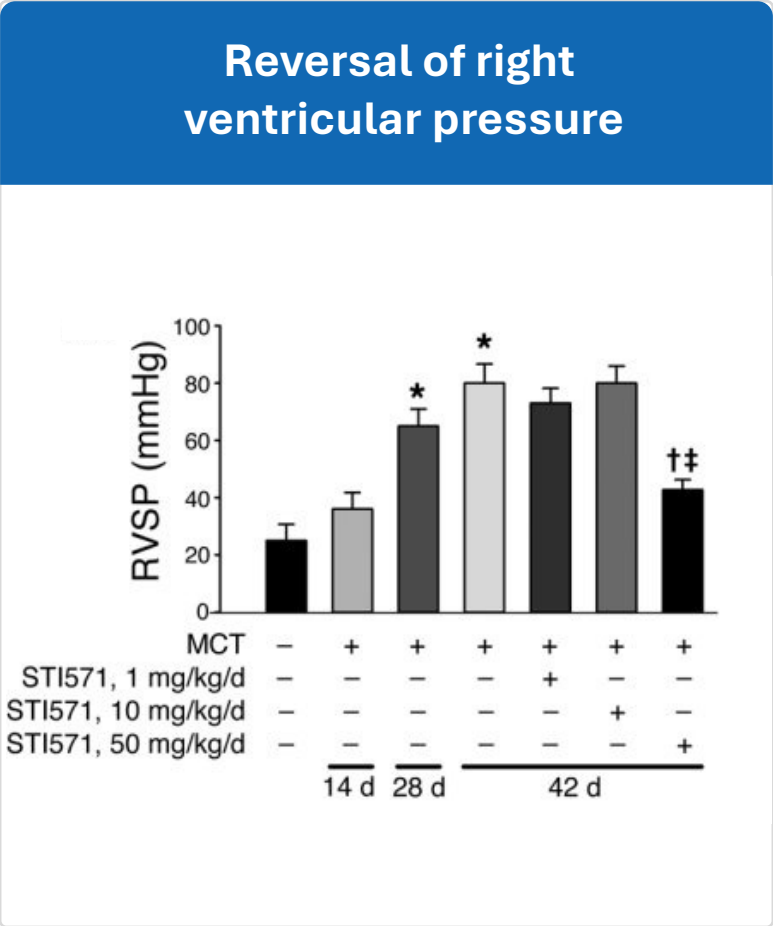
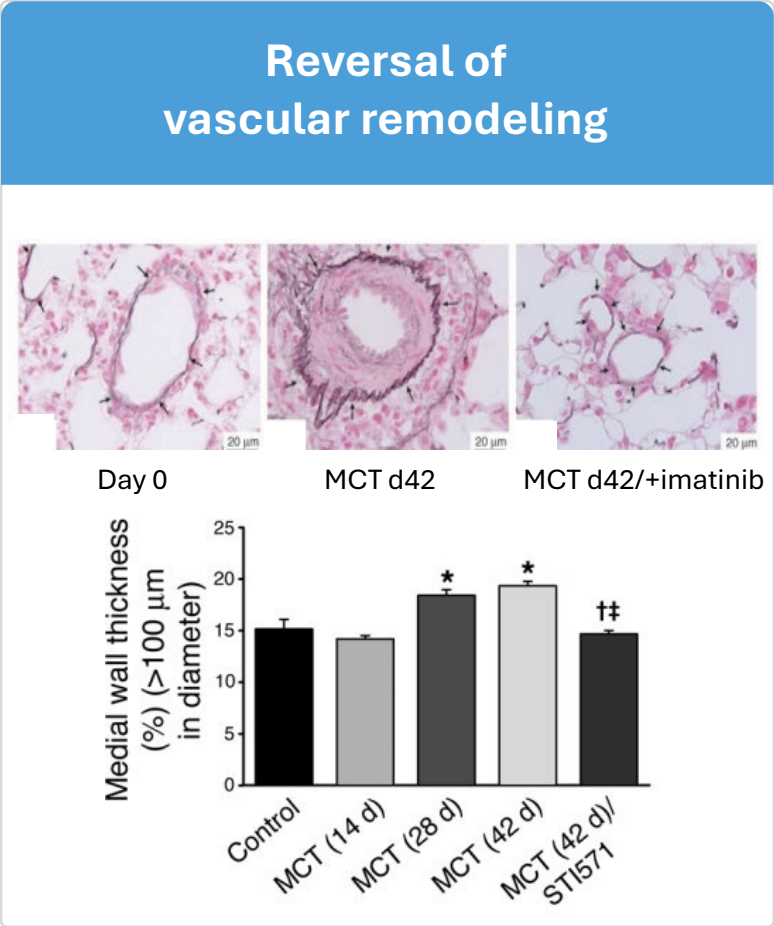
Imatinib Mechanism of Action in PAH Targets the Underlying Cause of PAH



Overactive kinases implicated in aberrant cell proliferation and migration in the pulmonary vasculature

Imatinib inhibits the tyrosine kinase activity of PDGFR and c-kit, blocking cell signaling that drives vascular remodeling

Imatinib Demonstrated Reversal of PAH in Standard Animal Model

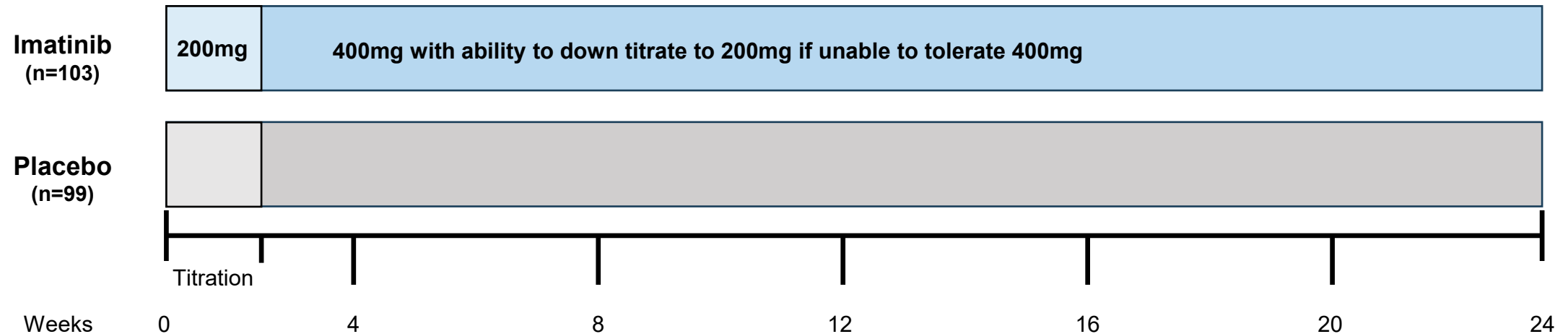


Imatinib reverses pulmonary vascular remodeling, right ventricular pressure / remodeling and improves survival

STI571 = imatinib; MCT = monocrotaline
*P < 0.05 versus control; †P < 0.05 versus MCT at day 28 or hypoxia at day 21; ††P < 0.05 versus MCT at day 42 or hypoxia at day 35.

IMPRES – Imatinib Phase 3 Study

Randomized, double blind, placebo controlled study to assess the efficacy, safety and tolerability of 400mg imatinib once daily (n=202)



Primary Endpoint

- Change in 6MWD at 24 weeks

Secondary Endpoints

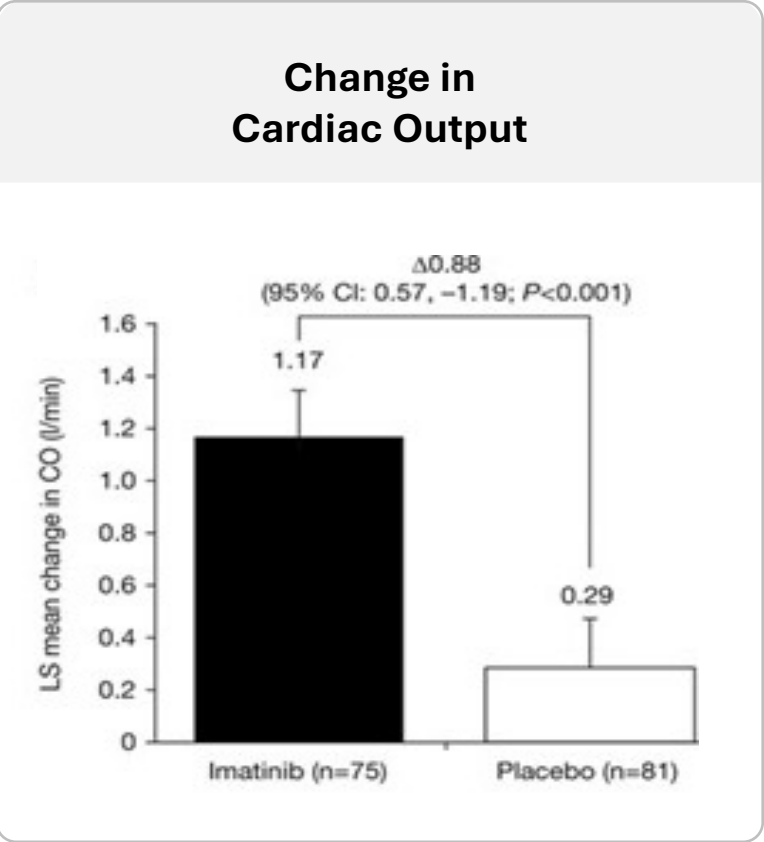
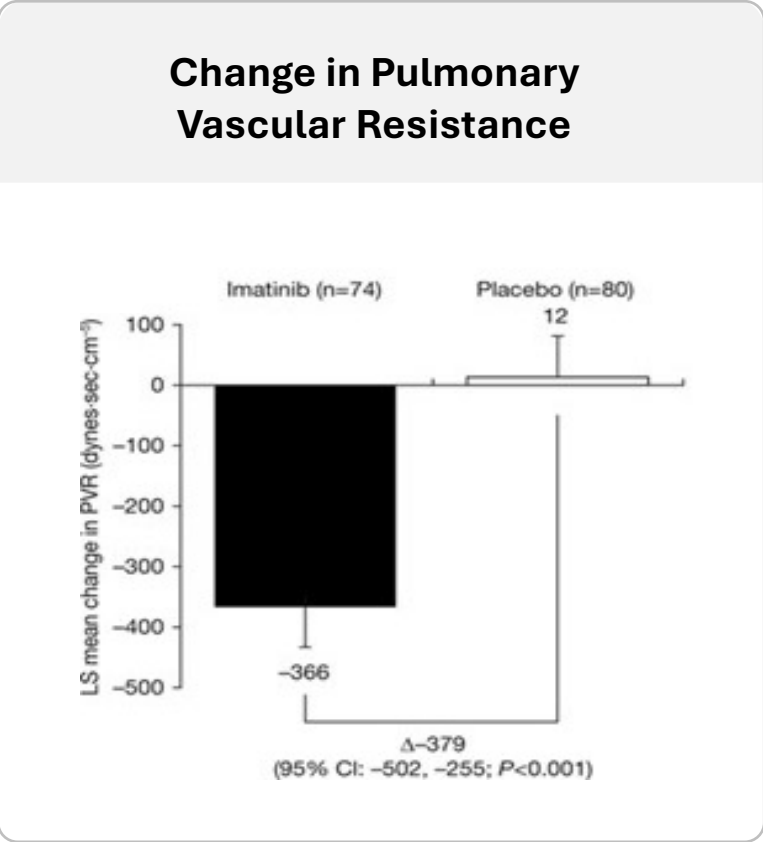
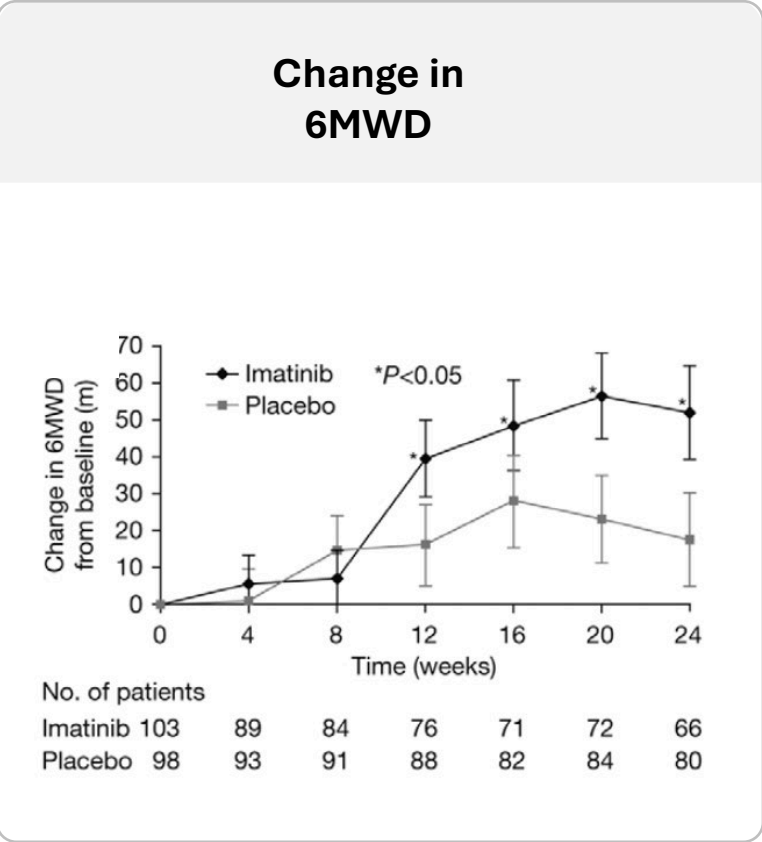
- Changes in hemodynamics (PVR, CO, mPAP, RAP) at 24 weeks
- Time to clinical worsening

Key Inclusion Criteria

- Functional Class II-IV
- 2 or more background PAH therapies
- $PVR \geq 800 \text{ dynes.s.cm}^{-5}$
- $6MWD \geq 150 \text{ meters and } \leq 450 \text{ meters}$

Phase 3 IMPRES: Statistically Significant Improvement in Function & Hemodynamics

32-meter improvement in 6MWD and 32% reduction in PVR at week 24



Phase 3 IMPRES study hit its primary endpoint along with key clinically relevant secondary endpoints

Phase 3 IMPRES: 3 of the Top 5 AEs were GI Related

Majority of patients were unable to maintain 400 mg target dose of imatinib

	Imatinib n=103 (%)	Placebo n=98 (%)
Adverse Events	100 (97)	94 (96)
Nausea	57 (55)	23 (24)
Peripheral edema	45 (44)	20 (20)
Diarrhea	36 (35)	19 (19)
Vomiting	31 (30)	10 (10)
Periorbital edema	30 (29)	7 (7)

- The AE profile in IMPRES was similar to the established AE profile of imatinib in other indications
- Poor tolerance prevented most patients from maintaining the target dose of 400 mg of imatinib

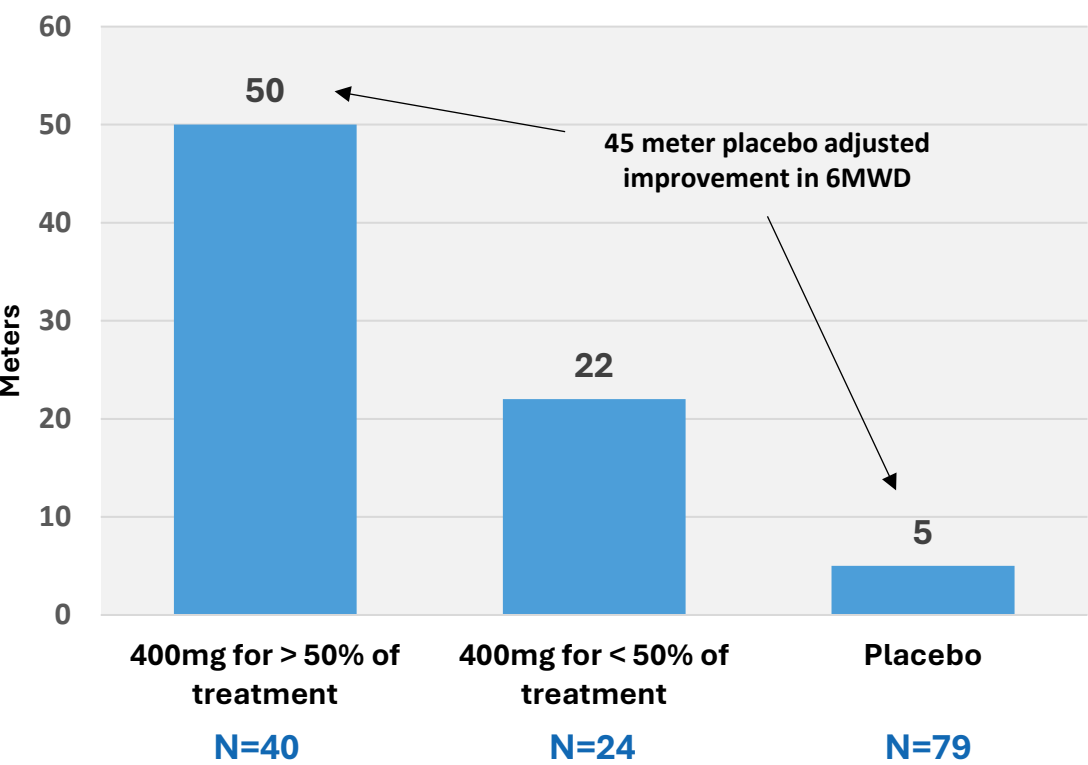
Phase 3 IMPRES hit its primary endpoint DESPITE only 48/103 participants maintaining 400mg dose for at least half of the treatment period

IKT-001 is a novel pro-drug of imatinib designed for better GI tolerability allowing optimal efficacy

IMPRES: Efficacy Impacted by Tolerability of 400mg Per Day

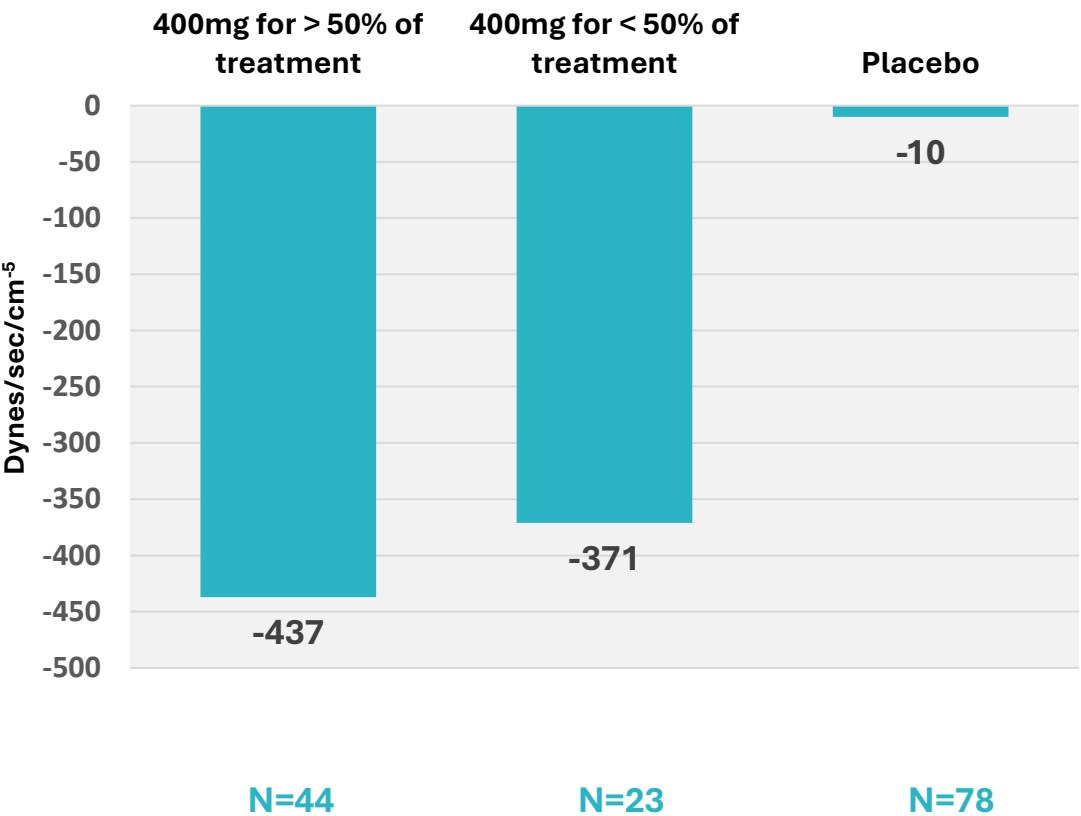
Patients able to sustain 400mg dose showed greater improvements in 6MWD and PVR

Changes in 6MWD at Week 24



(Baseline*: 355 meters imatinib; 366 meters placebo)

Changes in PVR at Week 24

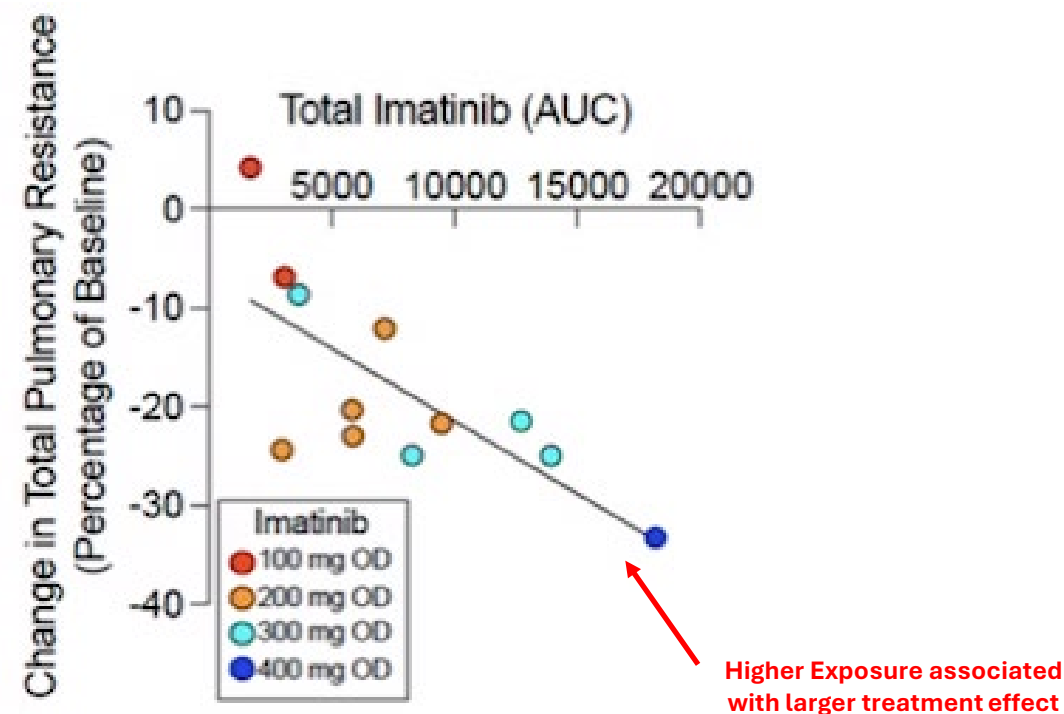


(Baseline*: 1202 dynes/sec/cm⁻⁵ imatinib;
1181 dynes/sec/cm⁻⁵ placebo)

Contemporary Study of Imatinib Supports 400mg Dose for Best Efficacy

Higher Exposure = Larger Improvement

Doses over 200mg per day were poorly tolerated



More than 50% of subjects who completed the study were on 200mg per day or less

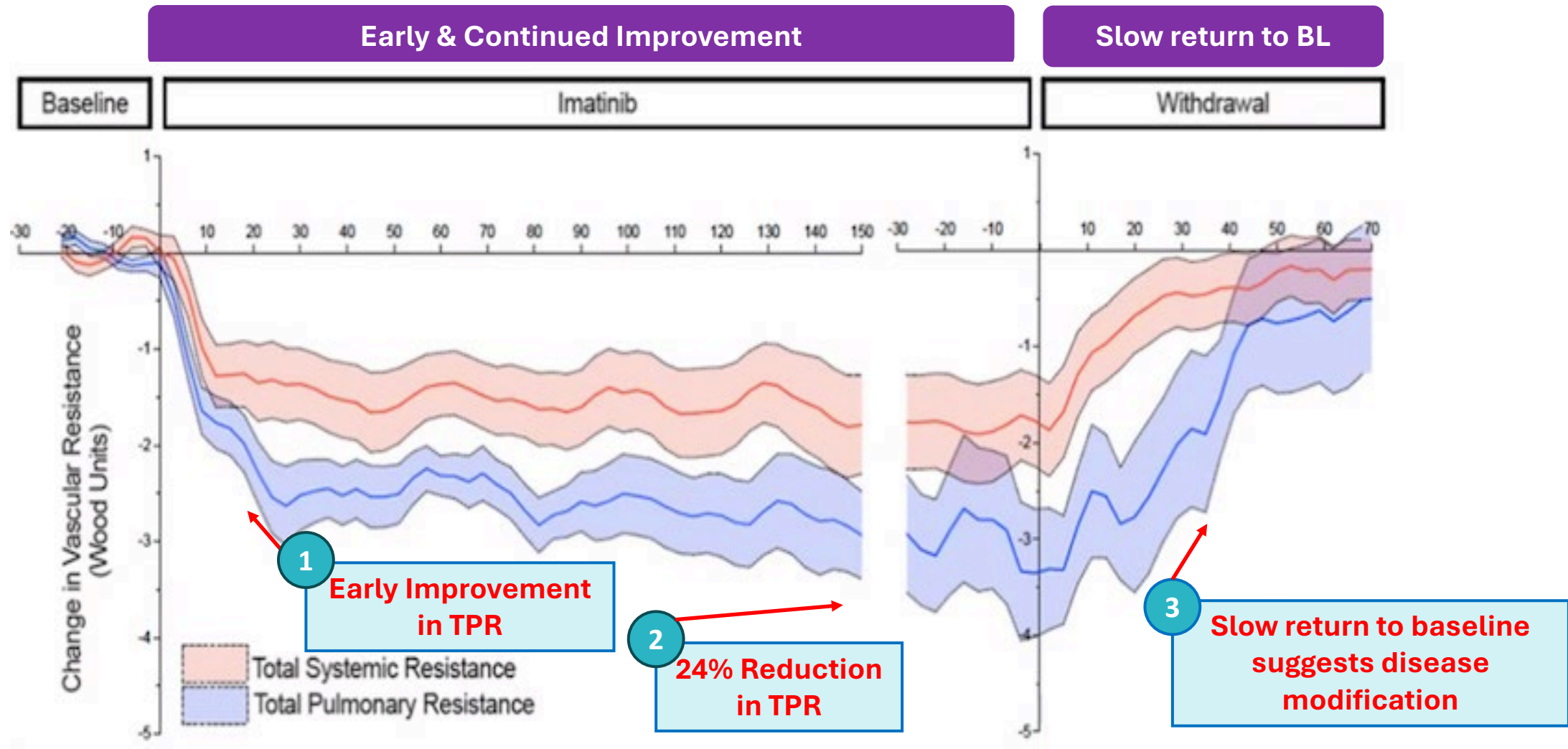
One-third of patients who started the study at either 300mg or 400mg had dose-limiting toxicity at Week 4 and subsequent dose reduction

Only 5 patients completed the study at 300mg or 400mg per day

Percentage change in total pulmonary resistance from baseline at 60 days in relation to plasma level (area under curve in $\mu\text{g}\cdot\text{h/L}$) of imatinib at steady state (red-100mg QD, orange-200mg QD, cyan-300mg QD, blue-400mg QD)

Rapid and Sustained Hemodynamic Effect & Disease Modification of Imatinib in PAH

24% reduction in Total Pulmonary Resistance (TPR); Patients at 200mg or less leaves “efficacy on the table”



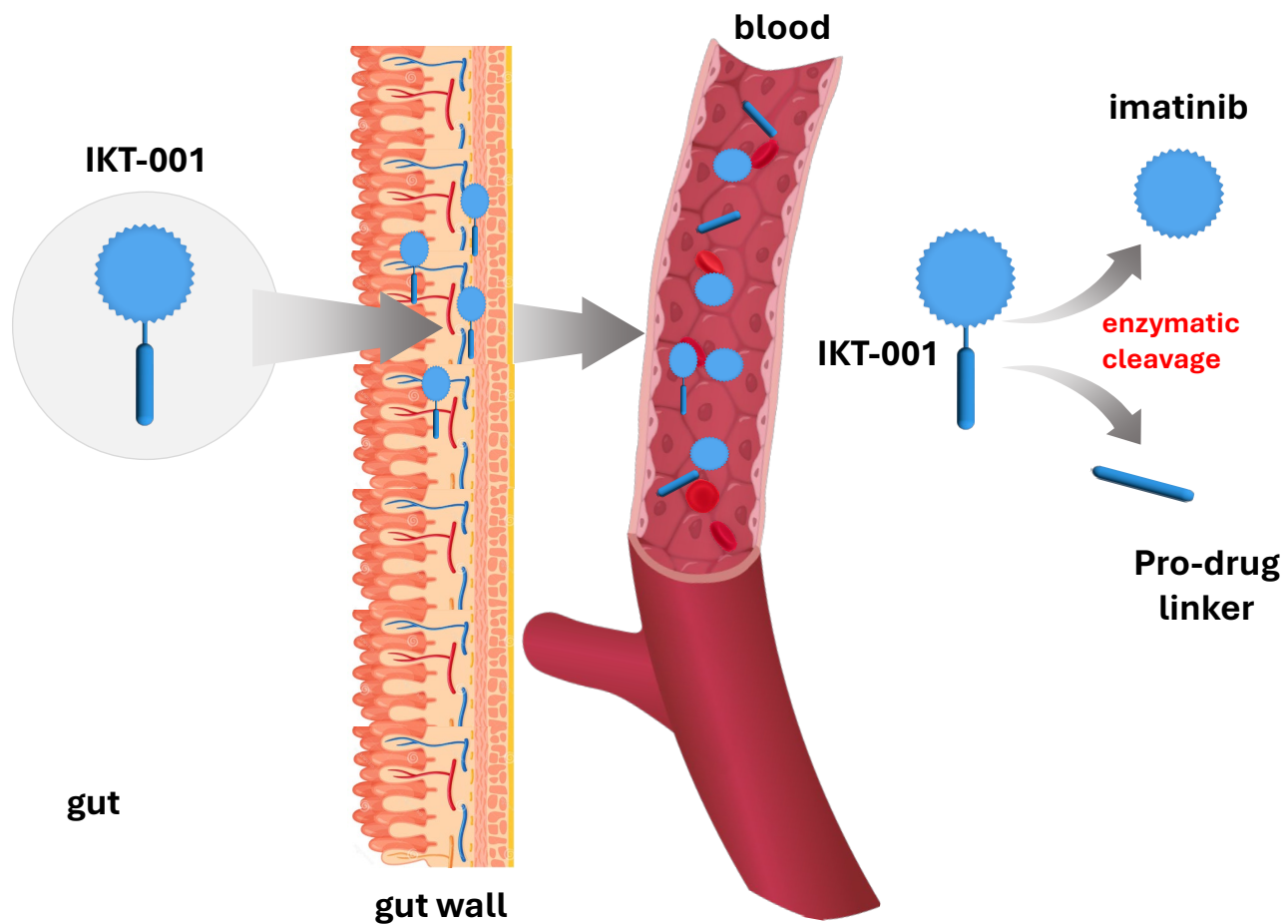
Inhibikase
Therapeutics

IKT-001



IKT-001 Minimizes GI Imatinib Exposure to Drive Increased Tolerability

28 Day non-human primate study documents improved GI tolerability



>2.5x Improvement in GI Tolerability

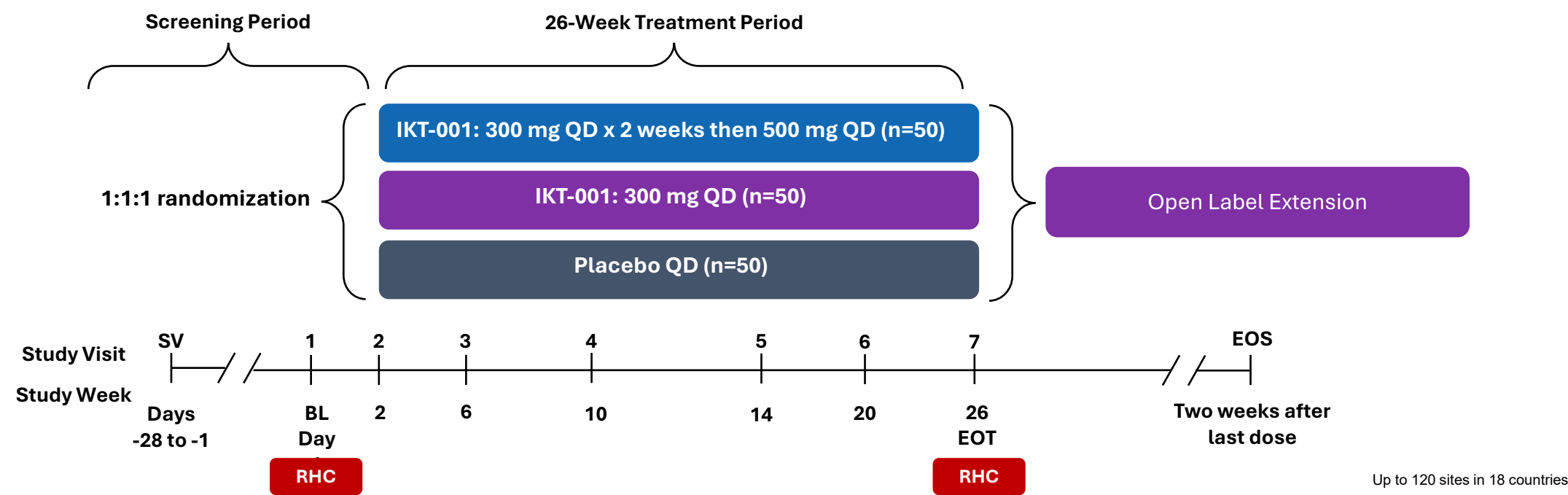
Dose Associated with GI Toxicity

Imatinib: **75** mg per kg per day

IKT-001: **200** mg per kg per day

IKT-001-201: A Phase 2b Study of IKT-001 in PAH

Randomized double-blind, placebo-controlled study to evaluate efficacy and safety of once daily IKT-001



Primary Endpoints:

PVR at week 26, change from baseline
Safety and tolerability

Secondary Endpoints:

6MWD
WHO Functional Class
Pharmacokinetics

Inclusion / Stratification:

WHO Group 1 PAH with New York Heart Association Functional Class II / III symptoms

Baseline Right Heart Catheter performed during screening period:

- PVR of ≥ 400 dynes/sec/cm⁻⁵; PCWP ≤ 15 mmHg; mPAP > 20 mmHg
- PVR enrichment criteria to ensure population baseline PVR > 700 dynes/sec/cm⁻⁵

6MWD ≥ 100 and ≤ 500 meters

Previous sotatercept allowed if discontinued 6 months prior to screening and no history of serious bleeding events

Stratification by number of background therapies and ERS/ESC Risk Score

PVR = pulmonary vascular resistance; 6MWD = 6-minute walk distance; RHC = right heart catheter; PCWP = pulmonary capillary wedge pressure; mPAP = mean pulmonary arterial pressure; BL = baseline; SV = screening visit; EOT = end of treatment; EOS = end of study

Inhibikase and IKT-001: Pulmonary Arterial Hypertension (PAH)

Major unmet need with high mortality, poor QoL and high cost

- PAH is a rare, progressive and life-threatening disease with significant unmet need
- ~30% 5-year mortality⁽¹⁾, reduced quality of life and high economic burden
- \$7.6 Billion market with limited treatments that address the underlying etiology

Imatinib has proven efficacy in Phase 3 in PAH

- Imatinib is an anti-proliferative TKI with potential best-in-class improvements in PVR and 6MWD (45 meters*) based on Phase 3 IMPRES and Phase 2 studies
- Imatinib hit primary efficacy endpoints in IMPRES but was not well tolerated at 400mg

Potential to be the 1st oral anti-proliferative agent

- IKT-001 is a pro-drug engineered to realize the potential of imatinib in PAH
- IKT-001 releases imatinib in the blood with potential to minimize GI side effects maximizing potential to achieve highly efficacious doses

Strong Leadership
Executing Near Term
Development

- IKT's Phase 2b is on track to initiate in the second half of 2025
- Long intellectual property runway through 2044
- Team with extensive PAH / CV experience

Inhibikase
Therapeutics

Thank You

