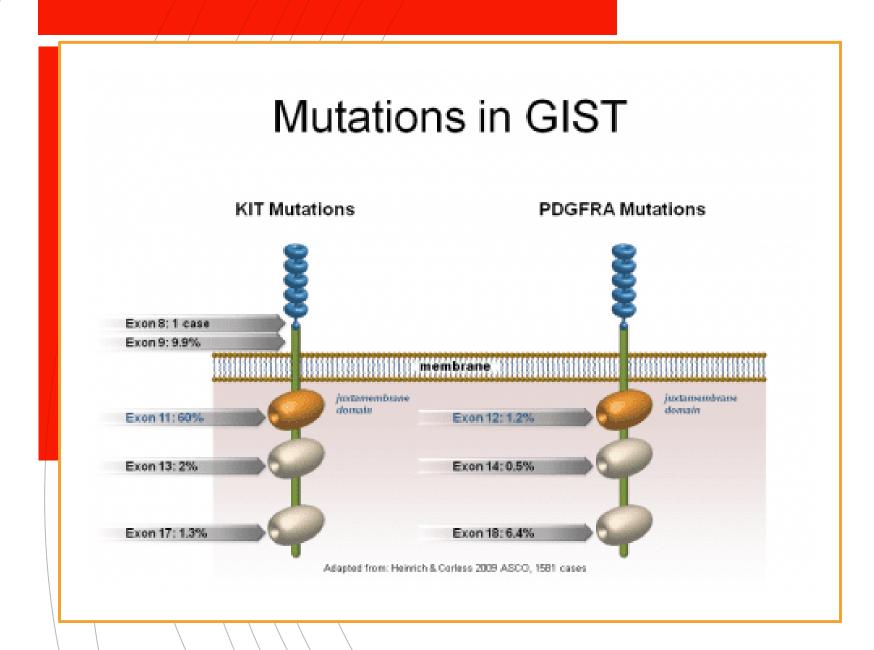
Regulatory Plan for Ripertinib

Table of contents

- A. Background Information on KIT and GIST:
- B. Background information on Ripertinib
- C. Ripertinib development phase
- D. Regulatory Pathway
- E. Competitors landscape
- F. Regulatory Plan
- G. Risk Register

Background Information on KIT and GIST



KIT: Receptor tyrosine kinase. This gene was initially identified as a homolog of the feline sarcoma viral oncogene v-kit and is often referred to as proto-oncogene c-Kit. Mutations in this gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism.

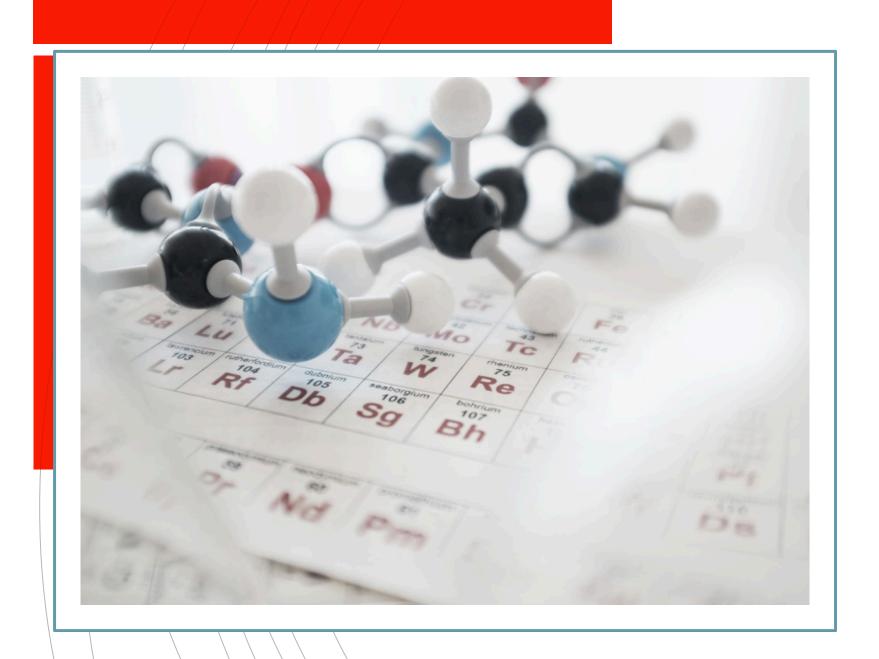
GIST: A gastrointestinal stromal tumor (GIST) is a type of cancer that begins in the digestive system. GIST s happens most often in the stomach and small intestine. A GIST is a growth of cells that's thought to form from a special type of nerve cells. These special nerve cells are in the walls of the digestive organs.

Background information on Ripertinib



• Ripretinib is an orally administered switch-control kinase inhibitor engineered using our proprietary drug discovery platform and developed for the treatment of gastrointestinal stromal tumor, or GIST. Ripretinib is a KIT and PDGFRA switch-control kinase inhibitor that blocks initiating and resistance KIT mutations in exons 9, 11, 13, 14, 17, and 18 known to be present in GIST patients.

Ripertinib development phase



• Ripertinib is currently in Phase 3 and the study completion was estimated to be in December 2024.

Regulatory Pathway



Ripertinib is undergoing the regulatory approval process in approximately 125 centers globally. Key locations for its licensing include the United States, Argentina, Australia, Belgium, Canada, Chile, the UK, and Taiwan. The primary regulatory authorities involved in the drug development process are the FDA (United States), TGA (Australia), Health Canada, MHRA (UK), and TFDA (Taiwan).

Competitors landscape



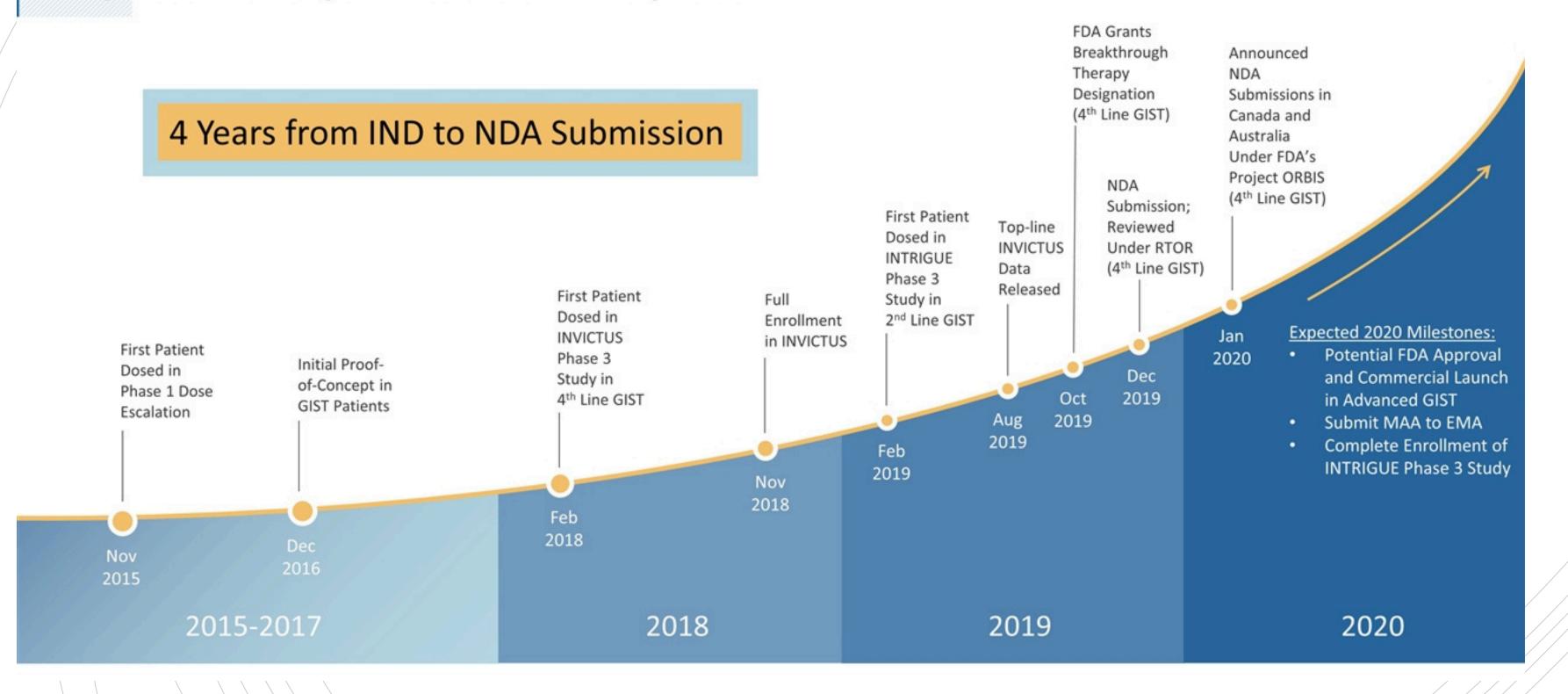
- In the competitive landscape for ripertinib, several alternative drugs developed by other companies are in development:
- Imatinib (Gleevec) by Novartis: Currently in Phase 2 of clinical trials.
- Regorafenib (Stivarga) by Bayer: Currently in Phase 2 of clinical trials. Features a single group assignment design, unlike imatinib and ripertinib, which utilize parallel assignment.

Avapritinib by CStone Pharmaceuticals: Developed by a Chinese company

Phase	Study Description	Key Findings	
Phase I	First-in-human study in GIST and advanced solid tumors to determine dose and evaluate safety and efficacy (142 patients).	- ORR: 19.4% (2nd-line), 14.3% (3rd-line), 7.2% (4th-line+) - PFS: 10.7m (2nd-line), 8.3m (3rd-line), 5.5m (4th-line+) - Supported further development in 2nd-line+ GIST.	
Phase 2	No dedicated Phase 2 study.	- Phase I results supported moving to Phase 3 INVICTUS trial.	
Phase 3	INVICTUS trial in advanced GIST (129 patients) comparing ripretinib to placebo.	- PFS: 6.3m (ripretimib) vs 1.0m (placebo) (br>- ORR: 9.4% (ripretimib) vs 0% (placebo) (placebo) 	
Registration	FDA approval based on INVICTUS trial results.	- FDA Approval: May 15, 2020, for advanced GIST after ≥3 kinase inhibitors, including imatinib.	

Regulatory plan

Ripretinib: Rapid Clinical Development



RISK REGISTER

Risk Risk		4	Probabili Mitigation Strategy		Contingonory Plan	
	ID	Description	t Level	ty	Miligation Strategy	Contingency Plan
	1	Delay in trial enrollment	High	Medium	Increase site engagement and patient outreach	Extend enrollment period, add more sites
	2	Adverse safety findings	High	Low	Close monitoring, safety reviews, immediate reporting	Adjust dose, halt trial if necessary
	3	results	High	Medium	Interim analysis, adaptive trial design	design
	4	Regulatory non- compliance	High	Low	Regular audits, compliance training	Address findings immediately, enhance compliance protocols
	5	Manufacturing issues	Medium	Low	Secure multiple suppliers, rigorous quality control	Shift production to alternate supplier, maintain inventory stock
	6	Intellectual property disputes	High	Low	Thorough patent research, legal consultation	Legal defense, explore licensing agreements
	7	Changes in regulatory requirements	Medium	Medium	Continuous regulatory surveillance, proactive communication	Adjust development plan, engage with regulatory authorities
	8	High dropout rates	Medium	Medium	Enhance patient support and follow-up	Increase patient engagement efforts, offer additional support
	9	Data management issues	Medium	Low	Robust data management plan, regular data audits	Implement data recovery procedures, enhance data security
	10	Funding shortfalls	High	Low	Secure diverse funding sources, budget contingency	Seek additional funding, adjust project scope

