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# Ripretinib Intra-patient Dose Escalation (IPDE) Following Disease Progression Provides Clinically Meaningful Progression-Free Survival (PFS) in Gastrointestinal Stromal Tumor (GIST) in Phase 1 Study

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## Disclosure Information

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# Ripretinib Phase 1 Intra-Patient Dose Escalation Study Design

Patients may dose escalate to ripretinib 150 mg BID after disease progression



## Efficacy Endpoint

**PFS (per RECIST v1.1 based on [local review](#))\***

- **PFS 1:** Progression-free survival on ripretinib 150 mg QD defined as Cycle 1, Day 1 to progression
  - **PFS 2:** Progression-free survival on ripretinib 150 mg BID defined as the date of IPDE to progression or death
- All patients with radiologic progression had the option to dose escalate
  - In this presentation, we review GIST patients who started at ripretinib 150 mg QD and escalated to 150 mg BID
  - Data from the escalation and expansion phases were pooled for this presentation

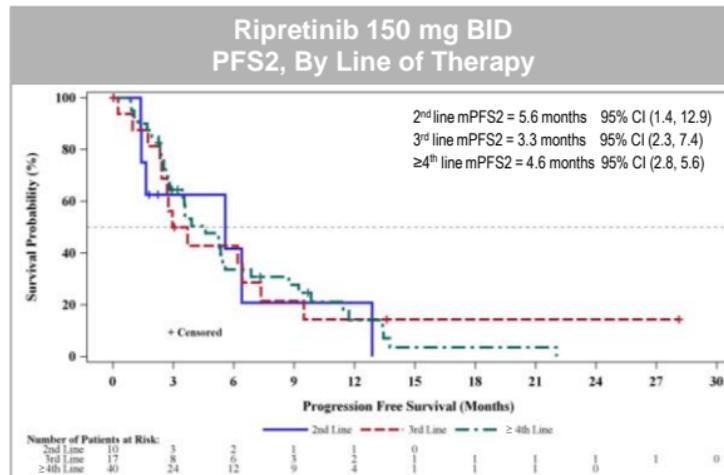
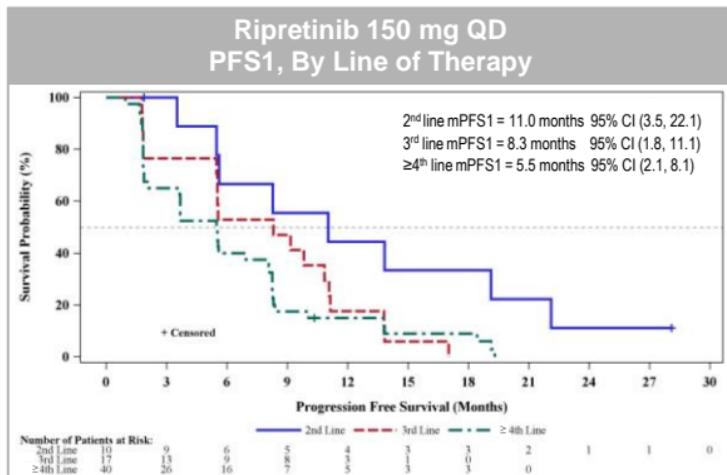


Data cutoff  
**8 May 2020**

\*Three patients were dose escalated without progression per RECIST (clinical progression per investigator, n = 2; debulking surgery for non-responding lesions prior to progression n = 1). BID, twice daily; GIST, gastrointestinal stromal tumor; PFS, progression-free survival; QD, once daily; RECIST, response evaluation criteria in solid tumors.

# Kaplan-Meier Plots of Progression-Free Survival for GIST IPDE Patients

Patients with GIST who received ripretinib 150 mg QD and escalated to 150 mg BID

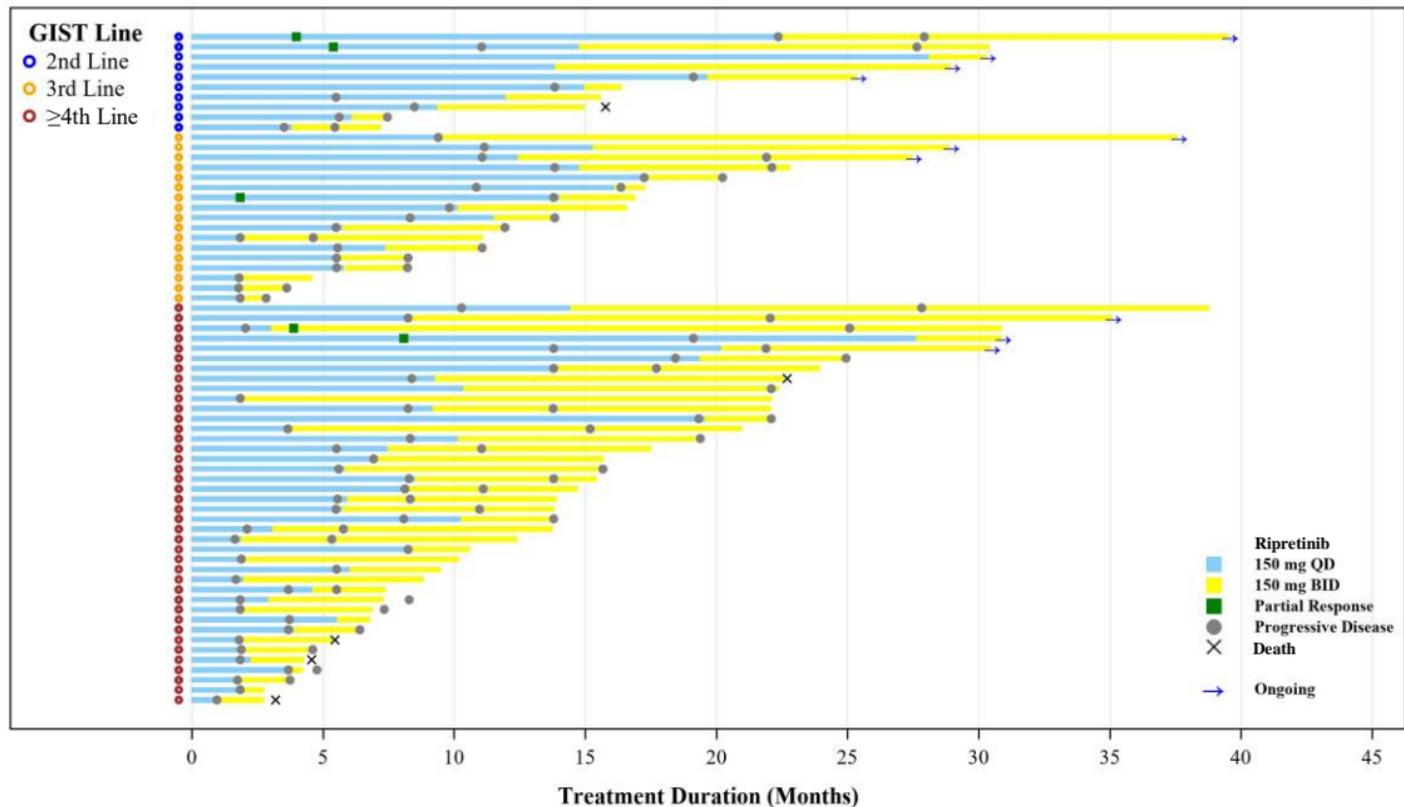


**Ripretinib 150 mg BID (n = 67)**

Line of Therapy	2 <sup>nd</sup> line (n = 10)	3 <sup>rd</sup> line (n = 17)	≥4 <sup>th</sup> line (n = 40)
mPFS, months	mPFS1, 11.0	mPFS1, 8.3	mPFS1, 5.5
	mPFS2, 5.6	mPFS2, 3.3	mPFS2, 4.6
mPFS2/mPFS1	51%	40%	84%

# Objective Responses and PFS Events

Patients with GIST who received ripretinib 150 mg QD and escalated to 150 mg BID



# Key Safety Findings

Patients with GIST who received ripretinib 150 mg QD and escalated to 150 mg BID

## TEAEs Occurring in >20% of Patients in the Total Dosing Period

Parameters, n (%)	Ripretinib 150 mg QD Period (N=67)		Ripretinib 150 mg QD + 150 mg BID Period (N=67)	
	All Grades	Grade 3/4	All Grades	Grade 3/4
Alopecia	41 (61)	0	49 (73)	0
Fatigue	23 (34)	0	35 (52)	2 (3.0)
Myalgia	33 (49)	0	35 (52)	0
Nausea	24 (36)	0	35 (52)	0
Palmar-plantar erythrodysesthesia syndrome	24 (36)	0	33 (49)	0
Diarrhoea	13 (20)	1 (1.5)	28 (42)	2 (3.0)
Abdominal pain	15 (22)	0	27 (40)	7 (10)
Muscle spasms	19 (28)	0	27 (40)	0
Lipase increased	22 (33)	14 (21)	25 (37)	16 (24)
Weight decreased	19 (28)	0	24 (36)	0
Constipation	18 (27)	0	23 (34)	0
Decreased appetite	11 (16)	0	22 (33)	1 (1.5)
Hypertension	14 (21)	2 (3.0)	18 (27)	3 (4.5)
Anaemia	3 (4.5)	0	17 (25)	4 (6.0)
Dry skin	11 (16)	0	17 (25)	0
Vomiting	9 (13)	0	16 (24)	0
Back pain	10 (15)	0	15 (22)	0
Cough	12 (18)	0	15 (22)	0
Actinic keratosis	14 (21)	0	14 (21)	0
Dyspnoea	5 (7.5)	0	14 (21)	2 (3.0)
Headache	8 (12)	0	14 (21)	1 (1.5)
Hypokalaemia	8 (12)	1 (1.5)	14 (21)	2 (3.0)

## Dose Modifications

Parameters, n (%)	Ripretinib 150 mg QD Period (N=67)	Ripretinib 150 mg QD + 150 mg BID Period (N=67)
Any TEAE leading to treatment discontinuation	N/A	10 (15)
Any dose reduction	4 (6.0)	9 (13)
Any dose interruption	24 (36)	40 (60)

# Ripretinib Phase 1 IPDE: Conclusions

- In this Phase 1 study, escalation to ripretinib 150 mg BID after progression on ripretinib 150 mg QD provided additional clinically meaningful benefit for patients with advanced GIST
  - This benefit was demonstrated for patients with GIST receiving 2nd, 3rd, or 4th-line therapy
- Comparison of TEAEs reported in the ripretinib 150 mg QD and 150 mg BID periods demonstrated that ripretinib was similarly well-tolerated
- Ripretinib 150 mg QD is currently approved for 4th-line GIST in the United States (FDA), Canada (Health Canada), and Australia (TGA)

Enrollment is ongoing in INTRIGUE, a phase 3, interventional, randomized, multicenter, open-label study of ripretinib vs sunitinib in patients with advanced GIST after treatment with imatinib (NCT03673501)