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# **Paltusotine in the Treatment of Surgically Naïve Patients** With Acromegaly: Post Hoc Analysis of Three Clinical Trials

# BACKGROUND

- Surgical resection of causative pituitary tumor is recommended first-line treatment for acromegaly<sup>1</sup> but fails to achieve cure in ~50% of patients<sup>2</sup>
- Some patients are not surgical candidates or refuse surgery, or surgery may be delayed<sup>1</sup>
- Paltusotine is a non-peptide selective SST2 receptor agonist in development as once-daily oral treatment for patients with acromegaly<sup>3</sup>

# AIM

• To evaluate the efficacy and safety of paltusotine in patients with acromegaly who had no previous pituitary surgery

# **METHODS**

Post hoc analysis of 26 surgically naïve patients

Surgically Naïve Patients From One of Three Clinical Trials

	PATHFNDR-1	PATHFNDR-2	ACROBAT Advance
Study design	Randomized, placebo-controlled trial (phase 3)	Randomized, placebo-controlled trial (phase 3)	Single-arm, open- label extension study (phase 2, ongoing)
Patient population	Biochemically controlled (IGF-I ≤1.0× ULN) on injected depot SRL	Biochemically uncontrolled, no acromegaly medications at randomization	Biochemically controlled or uncontrolled on injected depot SRL ± adjunctive medication
Treatment	Switched (randomly assigned) to paltusotine or placebo	Randomly assigned to paltusotine or placebo	Paltusotine (switched from SRL-based regimen in parent study)
Treatment duration	36 weeks	24 weeks	Up to 3 years (this analysis)
Concomitant acromegaly medications	None	None	Add-on treatment with cabergoline or pegvisomant permitted

# RESULTS

**Patient Characteristics and Study Treatment** 

Age, years, mean (SD)

Female, n (%)

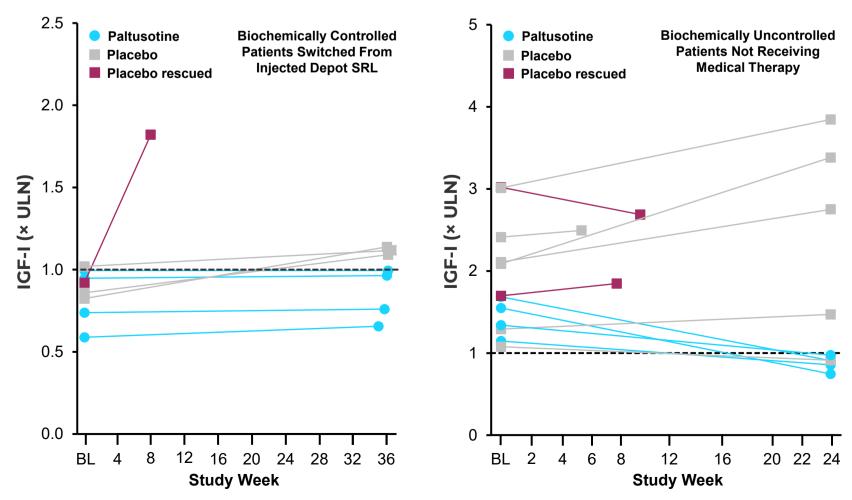
Paltusotine, n Placebo, n

Baseline IGF-I, ×ULN\* Paltusotine Placebo

Paltusotine dose, n (%) 40 mg/day 60 mg/day

\*Mean (SD) for PATHFNDR-1 and PATHFNDR-2; median (range) at parent study baseline for ACROBAT Advance.

# **PATHFNDR-1: IGF-I Level at Baseline and EOT\* for Each Patient**



\*EOT (end of treatment) defined as Week 36 if no rescue medication administered or last assessment prior to rescue. BL = baseline; EOT = end of treatment; IGF-I = insulin-like growth factor-I; ULN = upper limit of normal.

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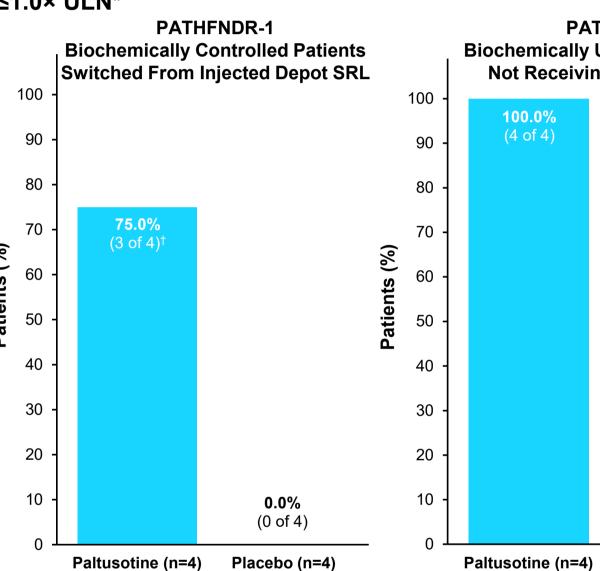
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PATHFNDR-1 (n=8)	PATHFNDR-2 (n=12)	ACROBAT Advance (n=6)
56.3 (13.1)	53.2 (10.8)	65.5 (4.4)
5 (62.5)	7 (58.3)	4 (66.7)
4	4	6
4	8	
0.82 (0.19)	1.43 (0.24)	1.09 (0.60-1.79)
0.91 (0.09)	2.09 (0.72)	
2 (50.0)	2 (50.0)	3 (50.0)
2 (50.0)	2 (50.0)	3 (50.0)

PATHFNDR-2: IGF-I Level at **Baseline and EOT\* for Each Patient** 

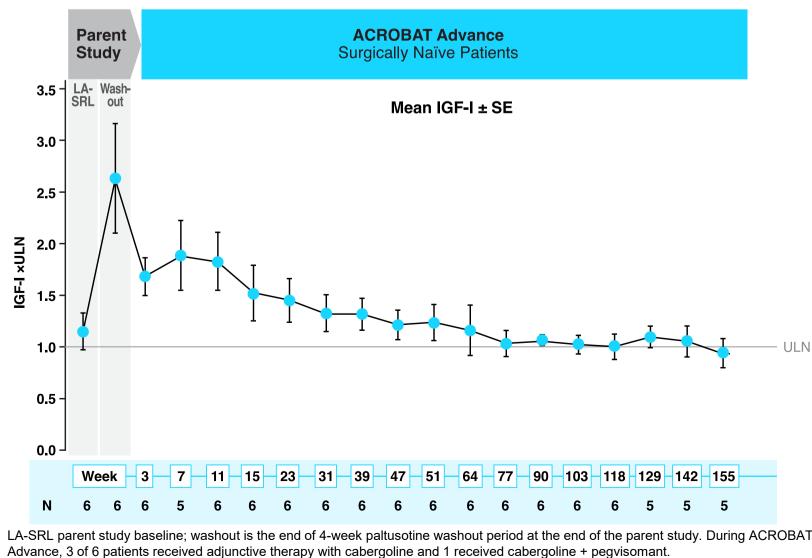
\*EOT (end of treatment) defined as Week 24 if no rescue medication administered or last assessment prior to rescue. BL = baseline: EOT = end of treatment; IGF-I = insulin-like growth factor-I; ULN = upper limit of normal.



# PATHFNDR-1 and PATHFNDR-2: Proportion of Patients With IGF-I ≤1.0× ULN\*

\*Based on average of Weeks 34 and 36 in PATHFNDR-1 and average of Weeks 22 and 24 in PATHFNDR-2, or the last assessment before rescue medication was administered (1 placebo patient was rescued in PATHFNDR-1; 2 placebo patients were rescued in PATHFNDR-2). <sup>†</sup>For one patient, IGF-I (average of Weeks 34 and 36) was 1.08× ULN; the Week 36 value (shown in the line graph) was 0.96× ULN.

# ACROBAT Advance: Mean IGF-I Level During Open-Label Treatment With Paltusotine



LA-SRL = long-acting somatostatin receptor ligand.

PATHFNDR-2 **Biochemically Uncontrolled Patients** Not Receiving Medical Therapy



Paltusotine (n=4) Placebo (n=8)

# CONCLUSIONS

- Surgically naïve patients experienced rapid and durable treatment effects of paltusotine
- Paltusotine was well tolerated in surgically naïve patients
- Safety and efficacy in this limited sample of surgically naive patients was similar to that in the overall study population (primarily patients with prior surgery)
- These initial findings should be evaluated in future studies with larger sample sizes

# Safety

- 1 paltusotine-treated patient discontinued study participation (ACROBAT Advance) due to inability to fulfill study requirements and procedures
- 3 paltusotine-treated patients (ACROBAT Advance) experienced serious adverse events (osteoarthritis, worsening coronary artery disease, renal oncocytoma) that were considered not related to study medication
- Radiology assessments showed tumor size stability in paltusotine-treated patients

# REFERENCES

1. Fleseriu M, et al. Lancet Diabetes Endocrinol. 2022;10(11):804-826. 2. Starnoni D, et al. Acta Neurochir. 2016;158(11):2109-2121. 3. Zhao J, et al. ACS Med Chem Lett. 2023;14(1):66-74.

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## AUTHOR DISCLOSURES

MM reports being a PI of research grants from Crinetics; receiving consulting fees, honoraria, and meeting support from Novo Nordisk, and Recordati; and serving on advisory boards for Novo Nordisk; and Recordati. CB reports being a PI of research grants from Crinetics; receiving consulting fees, honoraria, and meeting support from Crinetics; receiving consultant for Quest Diagnostics and Recordati. CB reports being a PI of research grants from Crinetics; a consultant for Quest Diagnostics and Regeneron; and an occasional advisory board member for Camurus, Chiesi, and Crinetics. CS reports being a PI of a research grant from Crinetics; and an occasional advisory board member for Camurus, Chiesi, and Crinetics, Novo Nordisk, Pfizer, Recordati, and Sandoz-Hexal. MB reports being a PI of research grants from Amolyt, Camurus, Chiasma, Crinetics, Novo Nordisk, Pfizer, Recordati, and Sandoz; and a speaker for Crinetics, IDS, Ionis, Lumos, and OPKO; an occasional consultant for Crinetics, IDS, Ionis, Lumos, and OPKO; an occasional consultant for Crinetics, IDS, Ionis, Lumos, and OPKO; an occasional consultant for Crinetics, IDS, Ionis, Novo Nordisk, Pfizer, Roche, and Sandoz; and a speaker for Euroimmun, Novo Nordisk, and Pfizer. MG reports being a PI of research grants from Crinetics and Ionis; and a speaker for Camurus, Chiesi, and Crinetics, IDS, Ionis, Lumos, and OPKO; an occasional consultant for Crinetics, IDS, Ionis, Lumos, and OPKO; an occasional consultant for Crinetics, IDS, Ionis, Lumos, and OPKO; an occasional consultant for Crinetics, IDS, Ionis, Lumos, and Recordati, Breports being a PI of research grants from Crinetics, IDS, Ionis, Lumos, and OPKO; an occasional consultant for Crinetics, IDS, Ionis, Lumos, and OPKO; an occasional consultant for Camurus, Chiesi, and Recordati, BR peorts being a PI of research grants from Crinetics and Ionis; and an occasional consultant for Amolyt, Camurus, Chiesi, Crinetics, Pfizer, and Recordati, BH, AC, and LK are employees of Crinetics and Ionis; and an occasional con