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ePoster Presentation



Open-label Extension Study Evaluating the Safety and Efficacy of Long-term Use of Relacorilant in Patients With Endogenous Hypercortisolism (Cushing Syndrome): Results from the First Interim Analysis

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INTRODUCTION

- Relacorilant (CORT125134) is a selective glucocorticoid receptor modulator in development for the treatment of endogenous hypercortisolism (Cushing syndrome)
 - Relacorilant modulates cortisol activity by competing with cortisol for binding to the GR
 - It has similar antagonistic effects at the GR as the FDAapproved GR antagonist mifepristone but has no activity at the progesterone or other steroid hormone receptors¹
- Relacorilant's safety and efficacy in patients with CS of any etiology have been assessed in one phase 2 and two phase 3 studies,^{2–4} see also AACE MENA 2024 poster P213
 - The phase 3 GRACE study met its primary endpoint (loss of response with respect to hypertension; OR 0.17 for relacorilant vs placebo, P=0.02)^{3,4}
 - Patients receiving relacorilant were 5.9x more likely to maintain hypertension response than those who were switched to placebo
 - Due to relacorilant's specificity for the GR and its unique mechanism of action, the observed efficacy was seen:^{3,4}
 - Without cases of relacorilant-induced irregular vaginal bleeding with endometrial hypertrophy
 - Without increases in cortisol concentration and relacorilant-induced hypokalemia
 - Without reported cases of adrenal insufficiency
 - Without independently confirmed QT prolongation

	Total (N=53)
Age (years), mean (SD)	50.4 (12.5)
F emale , n (%)	44 (83.0%)
Weight (kg), mean (SD)	85.5 (20.8)
Body mass index (kg/m²), mean (SD)	32.0 (6.4)
Waist circumference (cm), mean (SD)	108.6 (18.0)
HbA1c (%), mean (SD)	6.3 (1.7)
Mean 24-h SBP (mmHg), mean (SD)	134.8 (11.87
Mean 24-h DBP (mmHg), mean (SD)	85.7 (8.50)
Etiology, n (%) ACTH-dependent (pituitary, ectopic) ACTH-independent (adrenal)	39 (73.6%) 14 (26.4%)
Plasma ACTH (pg/mL), mean (SD) ACTH-dependent ACTH-independent	109.9 (92.1) 12.7 (9.0)
24-h urinary-free cortisol (μg/day), mean (SD) ACTH-dependent ACTH-independent	334.5 (869.2 169.5 (229.4
Late-night salivary cortisol (ng/dL), mean (SD) ACTH-dependent ACTH-independent	423.3 (725.9 292.5 (337.7
Pituitary tumor size,ª n (%) Not visible Microadenoma Macroadenoma	11 (35.5%) 15 (48.4%) 5 (16.1%)

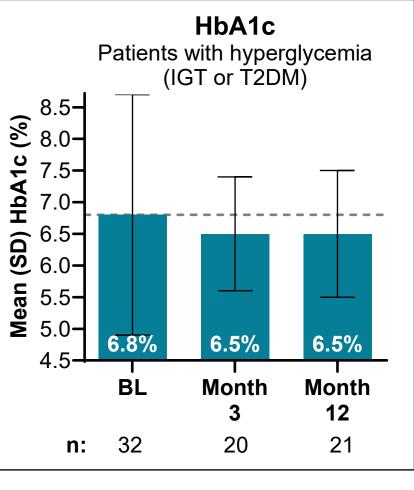
"In patients with Cushing Disease and evaluable MRI scans at baseline (n=31). Pituitary MRI scans were centrally read. ACTH, adrenocorticotropic hormone; DBP, diastolic blood pressure; HbA1c, hemoglobin A1c; SBP, systolic blood pressure; SD, standard deviation.

Improvement and/or maintenance of benefit in other

cortisol-related comorbidities Hyperglycemia

Patients had well-controlled HbA1c at baseline as they rolled over from a parent study in which their hyperglycemia improved upon treatment with relacorilant

Still, numerical reductions in HbA1c were observed in the OLE



Pituitary tumor size

- At baseline, evaluable MRI scans were available in 31 patients with Cushing Disease
- In the majority of these patients, tumor volume decreased or remained unchanged throughout the OLE

n (%)	Baseline	Month 6	Month 12	Last observation
Non-visible, scans available (n)	11	1	5	6
Increased	—	0	0	0
Decreased	—	0	0	0
Unchanged	—	1 (100%)	5 (100%)	6 (100%)
Microadenoma, scans available (n)	15	1	10	11
Increased	—	0	4 (40%)	3 (27.3%)
Decreased	—	0	4 (40%)	4 (36.4%)
Unchanged	—	1 (100%)	2 (20%)	4 (36.4%)
Macroadenoma, scans available (n)	5	1	0	2
Increased		0	0	0
Decreased	—	1 (100%)	0	2 (100%)
Unchanged	_	0	0	0

CS, Cushing syndrome; GR, glucocorticoid receptor; OR, odds ratio.

AIM

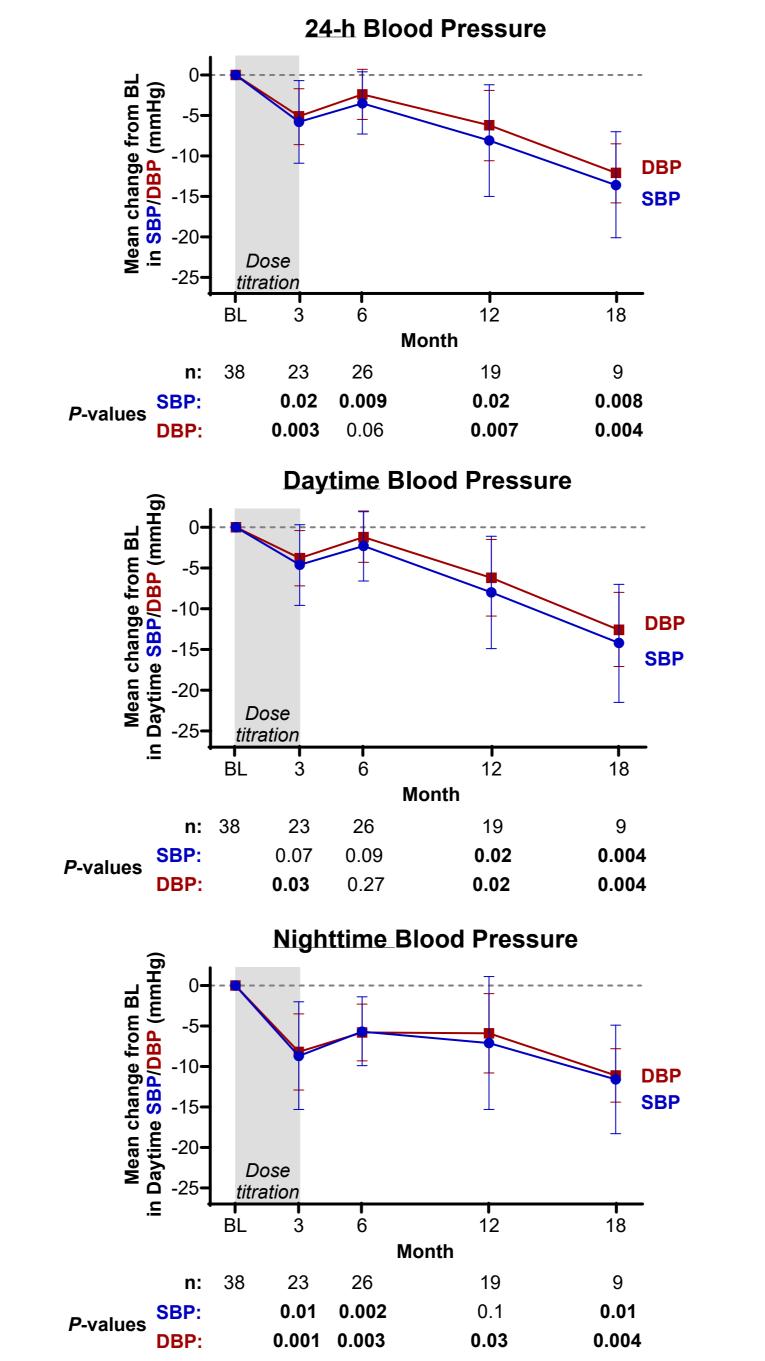
Here, we present results from an interim analysis of the ongoing phase 2/3 extension study (NCT03604198), which aims to evaluate relacorilant's long-term safety and therapeutic effect

METHODS

- Patients are eligible to enter the single-arm OLE if they completed a Corcept-sponsored parent study of relacorilant in patients with CS (NCT02804750, NCT03697109, NCT04308590) and, in the investigator's opinion, may benefit from treatment with relacorilant
- In some patients, relacorilant is discontinued during the transition period between parent study and OLE
- For those entering the OLE from an open-label study, and if roll-over occurs within 4 weeks, the OLE starting dose is the dose last received in the parent study
- For all others, including those who completed a placebocontrolled parent study, the OLE starting dose is 100 mg QD titrated up to 400 mg QD based on tolerability
- Dose titration up or down during the OLE is allowed based on tolerability
- Safety, as well as changes in blood pressure (by ABPM), glucose parameters, and other cortisol-related comorbidities are being assessed throughout the study
- Data cutoff date for the interim analysis: 8 April 2024

Clinically and statistically significant reductions in blood pressure

In patients with hypertension with or without hyperglycemia (n=38), clinically and statistically significant reductions from baseline in mean 24-hour, daytime, and nighttime blood pressure were observed



Increase/decrease defined as a 20% increase/decrease in tumor volume (mm³) from baseline (defined as the last measurement available before or up to 6 weeks after day 1 in the OLE).

Bone and cortisol activity markers

Statistically significant increases from baseline in osteocalcin were observed, along with numerical increases in alkaline phosphatase and no worsening in bone mineral density by DXA

	Baseline	Month 6	CFB to Month 6	Month 12	CFB to Month 12
Serum osteocalcin	12.7 ± 6.5	15.5 ± 9.1	+2.0 ± 4.3	14.8 ± 7.4	+1.6 ± 5.7
(ng/mL)	(n=49)	(n=36)	(n=34)	(n=30)	(n=28)
Alkaline	82.2 ± 34.6	87.5 ± 36.1	+1.4 ± 19.8	93.2 ± 58.6	+5.9 ± 30.6
phosphatase (U/L)	(n=50)	(n=38)	(n=36)	(n=30)	(n=29)

	Baseline (n=14)	Month 12 (n=7)	CFB to Month 12 (n=5)
T-score			
Total lumbar spine	-1.39 ± 1.27	-0.39 ± 1.37	+0.11 ± 0.56
Total hip	-0.85 ± 0.62	-0.39 ± 0.95	-0.18 ± 0.12
Femoral neck	-1.10 ± 0.67	-0.88 ± 0.71	-0.17 ± 0.23
Z-score			
Total lumbar spine	-0.79 ± 1.21	0.49 ± 1.30	+0.16 ± 0.60
Total hip	-0.36 ± 0.62	0.25 ± 0.91	-0.12 ± 0.13
Femoral neck	-0.36 ± 0.47	0.00 ± 0.61	-0.13 ± 0.24

Mean ± standard deviation shown. Bold print indicates statistically significant change from baseline (P<0.05). CFB, change from baseline; DXA, dual-energy X-ray absorptiometry.

Relacorilant was well tolerated with an adverse event profile consistent with the parent studies

ABPM, ambulatory blood pressure monitoring; OLE, open-label extension.

RESULTS

Patient characteristics and baseline demographics

- 53 patients were enrolled in the OLE and received at least 1 dose of relacorilant
- 17 (31.5%) had hypertension^a
- 5 (9.3%) had hyperglycemia (IGT or T2DM)^a
- 31 (59.3%) had both hypertension and hyperglycemia^a
- The median duration of treatment at the time of the interim analysis was 53.1 weeks (range: 4.6–307.9)

IGT, impaired glucose tolerance; T2DM, type 2 diabetes mellitus. ^aComorbidities assessed at the beginning of the respective parent study.

BIBLIOGRAPHY

- 1. Hunt HJ, et al. J Med Chem. 2017;60:3405–3421.
- 2. Pivonello R, et al. Front Endocrinol (Lausanne). 2021;12:662865.
- 3. Pivonello R, et al. Poster P108 presented at ENDO 2024, June 1–4, 2024, Boston, MA.
- 4. Pivonello et al. Oral presentation at 8th Annual Heart in Diabetes, June 7–9, 2024, Philadelphia, PA.

Error bars: 95% confidence intervals. P-values: Wilcoxon signed rank test to evaluate if there is a significant change from to BL at each time point. BL, baseline; DBP, diastolic blood pressure; SBP, systolic blood pressure. Daytime: 6am–10pm; nighttime: 10pm–6am.

SUMMARY / CONCLUSIONS

- Relacorilant is a selective glucocorticoid receptor modulator in development for the treatment of endogenous hypercortisolism (Cushing syndrome) of all etiologies
- The presented ongoing open-label phase 2/3 extension study investigates the long-term safety and efficacy of relacorilant treatment in patients with endogenous CS
- This interim analysis provides support for the long-term tolerability and efficacy of relacorilant in patients with endogenous CS
- Relacorilant led to improvement and/or long-term maintenance of clinical and cardiometabolic benefit

- The majority of TEAEs were mild to moderate in severity (grade ≤2)
- The most common TEAEs (occurring in >15% of the study population) were arthralgia, peripheral edema, pain in extremity, and COVID-19
- The frequency of serious AEs was low, and no new safety signals compared to the parent studies were identified
- There were no reports of relacorilant-induced hypokalemia, no reported cases of adrenal insufficiency, no clinically significant changes in ACTH and cortisol concentrations, no vaginal bleeding associated with endometrial hypertrophy, and no reports of QTcF prolongation

AE, adverse event; TEAE, treatment-emergent adverse event.

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