

# AN OPEN-LABEL EXTENSION STUDY TO EVALUATE THE SAFETY OF LONG-TERM USE OF RELACORILANT IN PATIENTS WITH ENDOGENOUS CUSHING SYNDROME

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## Introduction

Endogenous hypercortisolism (Cushing syndrome) is a chronic and debilitating multisystem endocrine disorder associated with high morbidity and mortality<sup>1</sup>

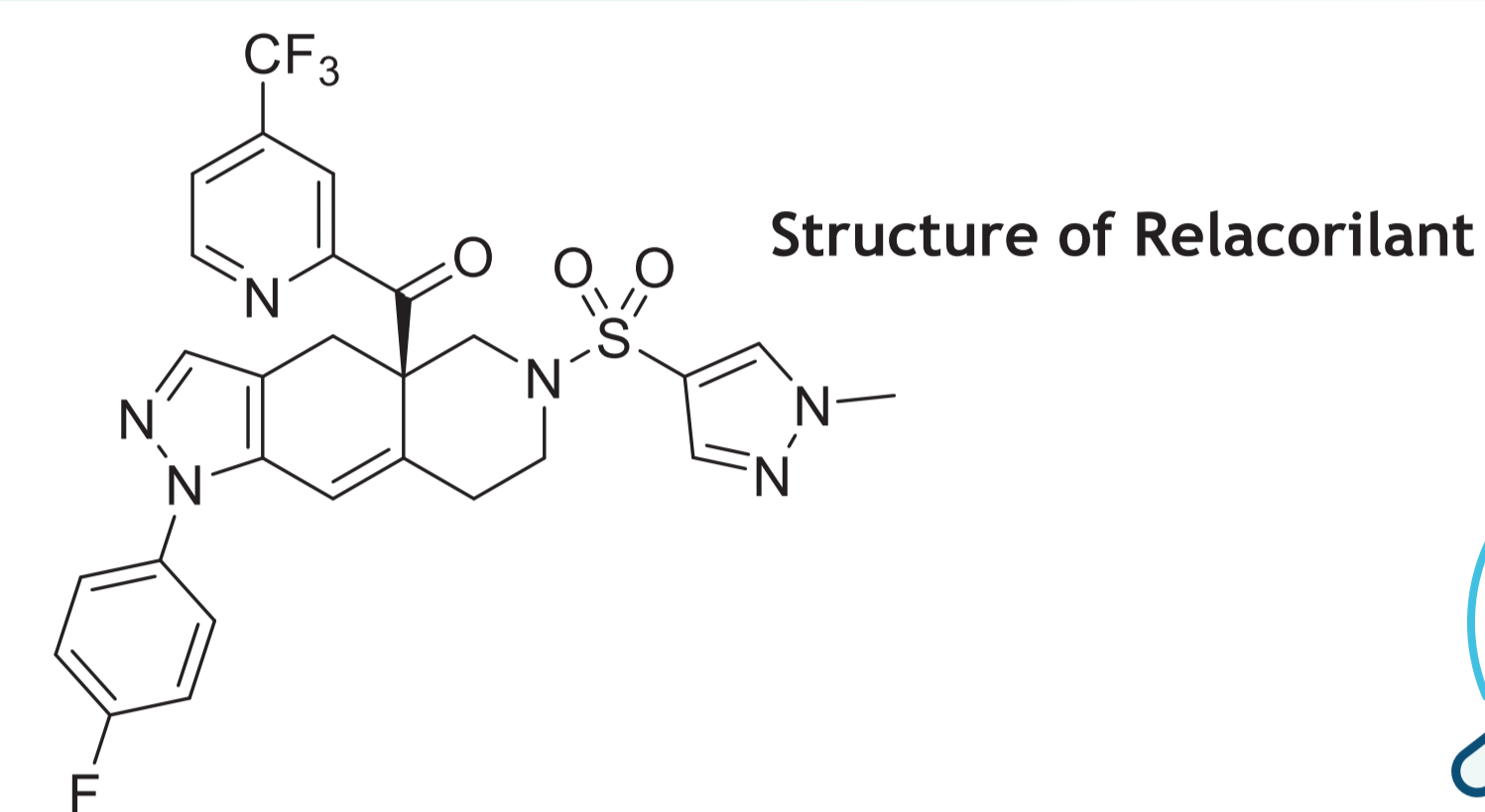
Treatment modalities include surgical resection of the tumor, pharmacologic therapy, pituitary irradiation (in the case of Cushing disease), or bilateral total adrenalectomy<sup>2</sup>

Treatment is focused on reversal of clinical manifestations, avoidance of permanent hormonal deficiency, and management of the comorbidities

Development of novel, safe, and effective medical therapies with a positive benefit-risk ratio would improve the pharmacologic treatment options for participants who have failed surgery or are not candidates for surgery

Relacorilant (CORT125134) is a highly selective GR modulator in clinical development for the treatment of endogenous hypercortisolism

- Relacorilant has similar antagonistic effects at the GR as the FDA-approved GR antagonist mifepristone, but with no activity against the progesterone receptor<sup>3</sup>



In a phase 2 study in participants with endogenous hypercortisolism (NCT02804750), relacorilant showed clinically meaningful improvements in hypertension and hyperglycemia without undesirable antiprogesterone effects or drug-induced hypokalemia<sup>4</sup>

Two ongoing global phase 3 studies are evaluating the efficacy and safety of relacorilant in participants with endogenous hypercortisolism and concurrent hypertension and/or hyperglycemia:

- GRACE (NCT03697109):** Double-blind, placebo-controlled, randomized-withdrawal study evaluating participants with endogenous hypercortisolism of any etiology<sup>5</sup>
- GRADIENT (NCT04308590):** Double-blind, placebo-controlled, randomized study evaluating relacorilant in participants with endogenous hypercortisolism related to adrenal adenoma(s) or adrenal hyperplasia<sup>6</sup>



Here, we are presenting the study design of the phase 2/3, open-label extension study evaluating the long-term safety and therapeutic effect of prolonged GR modulation with relacorilant in participants with endogenous hypercortisolism

FDA, US Food and Drug Administration; GR, glucocorticoid receptor.

## Study Design (NCT03604198; EudraCT 2018-001616-30)<sup>7</sup>

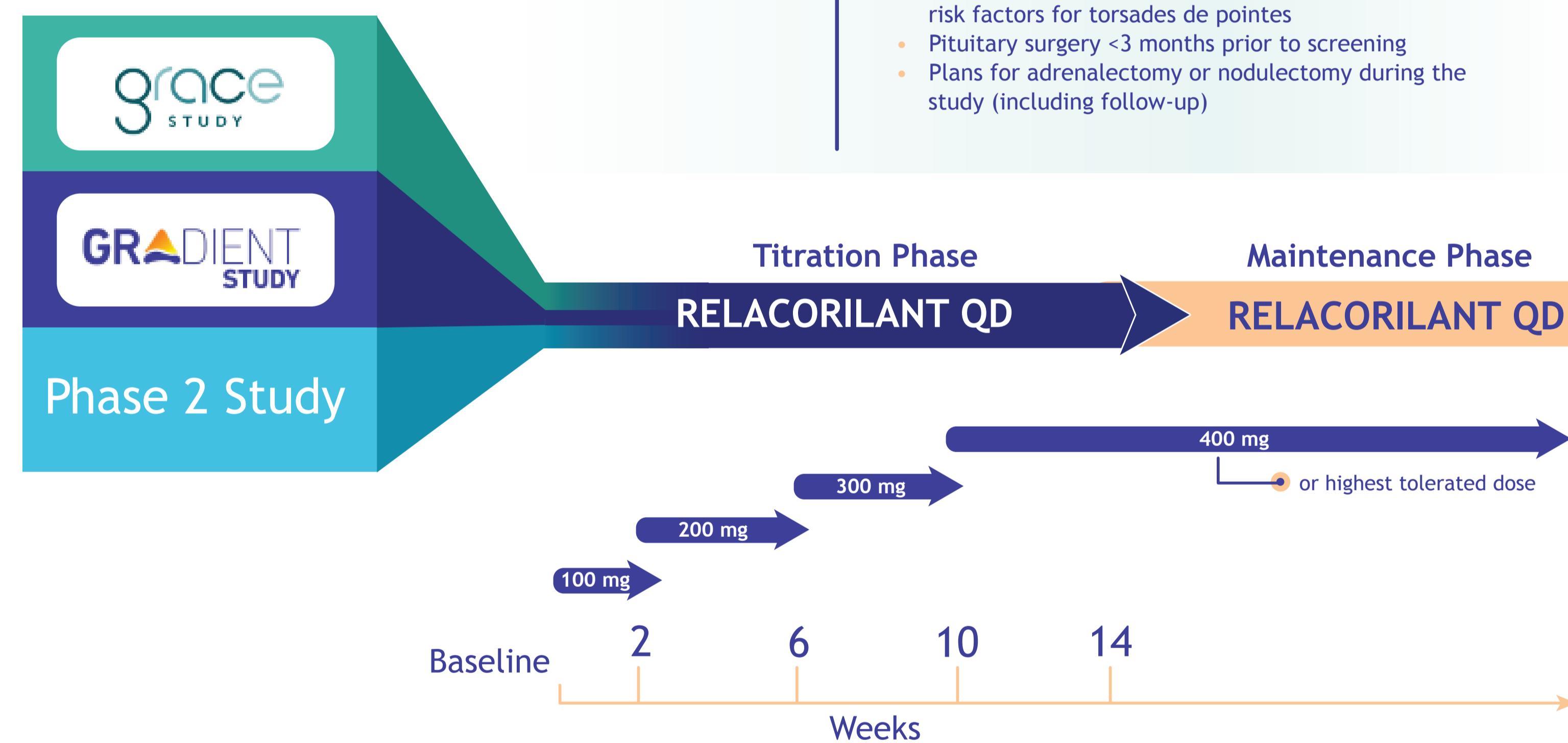
### Endogenous Hypercortisolism Long-term Extension Study

#### Key inclusion criteria:

- Must have successfully completed a phase 2 or 3 study of relacorilant in endogenous hypercortisolism (phase 2 study, GRACE, GRADIENT)<sup>4-6</sup> and, in the investigator's opinion, may benefit from further treatment with relacorilant
- For participants entering the study >12 weeks after last dose of parent study, confirmation of hypercortisolism consistent with the parent study is required

#### Key exclusion criteria:

- Uncontrolled, clinically significant hypothyroidism or hyperthyroidism
- Uncorrected, clinically significant hypokalemia (serum potassium <3 mEq/L) ≤2 weeks prior to enrollment
- Renal failure (serum creatinine ≥2.2 mg/dL)
- Total bilirubin >1.5 x the ULN or elevated ALT or AST ≥3 x ULN
- Prolonged QT interval and/or history of additional risk factors for torsades de pointes
- Pituitary surgery <3 months prior to screening
- Plans for adrenalectomy or nodulectomy during the study (including follow-up)



#### Dosing

- Relacorilant oral capsules at the last dose received in the parent study unless dose modification is indicated by the investigator's clinical judgment
- Dose titration required for participants entering from a blinded placebo-controlled study or if the last relacorilant dose was >4 weeks before enrollment

Treatment with relacorilant may continue for participants who receive a clinical benefit, in the investigator's opinion, until relacorilant is commercially or otherwise available or until the study is stopped by the sponsor<sup>7</sup>

Clinic visits occur at 3-month intervals for assessment of safety, tolerability, and treatment effect

- Monthly contact between visits to capture adherence, adverse events, and medication changes; additional visits will accompany dose titrations



Currently ongoing at centers in Europe, Israel, and North America

## Objectives and Endpoints

#### Primary Objective

- To assess the long-term safety of relacorilant in the treatment of signs and symptoms of endogenous hypercortisolism

#### Exploratory Objectives

- To assess the long-term benefit of relacorilant in the treatment of signs and symptoms of endogenous hypercortisolism
- To assess GR activity biomarkers

#### Primary Endpoints

- Incidence of treatment-emergent adverse events
- Changes from baseline in:
  - Clinical laboratory tests (hematology and chemistry panels)
  - Physical examination and vital sign measurements
  - 12-lead ECGs
  - Pituitary tumor size based on MRI in participants with Cushing disease

#### Key Exploratory Endpoints

- Changes from baseline in:
  - HbA1c and insulin resistance indices in participants with diabetes mellitus or glucose intolerance at baseline in the parent study
  - BP by ABPM in participants with uncontrolled HTN at baseline in the parent study and in participants with controlled HTN taking at least one anti-HTN medication
  - Body weight and waist circumference
  - CushingQoL questionnaire
  - Serum osteocalcin, plasma ACTH, serum cortisol, lipid metabolism, sex steroid hormones, bone mineral density measured by DXA scans, coagulation panels, clinical appearance (based on photography) for GRACE participants only
- Measurement of mRNA expression of GR-activity biomarkers (eg, glucocorticoid-induced gene panel)

ABPM, ambulatory blood pressure measurement; ACTH, adrenocorticotropic hormone; BP, blood pressure; DXA, dual-energy x-ray absorptiometry; ECG, electrocardiogram; GR, glucocorticoid receptor; HbA1c, glycated hemoglobin; HTN, hypertension; MRI, magnetic resonance imaging; mRNA, messenger RNA; QoL, quality of life.

#### References

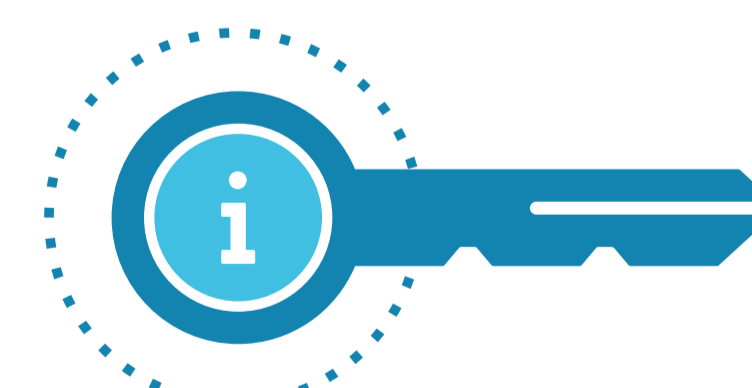
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Summary

Relacorilant is a selective GR modulator in development for the treatment of endogenous hypercortisolism of all etiologies

In a phase 2 study, relacorilant showed clinically meaningful improvements in cortisol-related comorbidities

These findings are being further evaluated in 2 ongoing phase 3 studies

The presented ongoing, open-label phase 2/3 extension study investigates the long term safety and efficacy of relacorilant treatment in endogenous hypercortisolism

Enrollment is ongoing

GR, glucocorticoid receptor.

- Irina Bancos, MD: None
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