

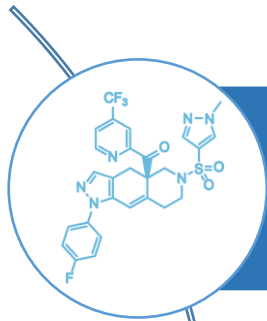
Effects of Relacorilant on Body Weight and Body Composition in Patients With Endogenous Hypercortisolism in the Phase 3 GRACE and GRADIENT Studies

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The views expressed in this educational program are those of the faculty and do not necessarily represent the views of the Endocrine Society.

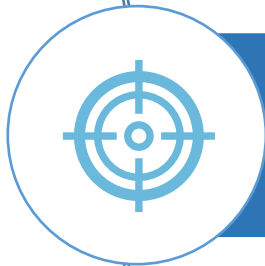
Relacorilant: In Development for the Treatment of Endogenous Hypercortisolism



A selective GR modulator

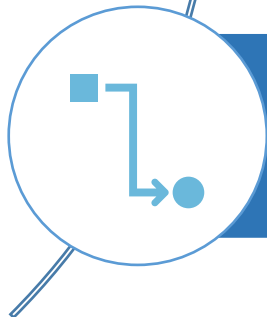
Structurally different from mifepristone (nonsteroidal)

Decreases excess cortisol activity by competing with cortisol for binding to the GR



Highly selective: No PR, MR, or AR activity

Avoids unwanted PR effects (eg, endometrial hypertrophy, vaginal bleeding)



Unique downstream effects

No clinically significant impact on ACTH levels

No clinically significant rise in cortisol levels

Relacorilant Phase 3 Clinical Development Program



Patients with pituitary, ectopic, or adrenal hypercortisolism



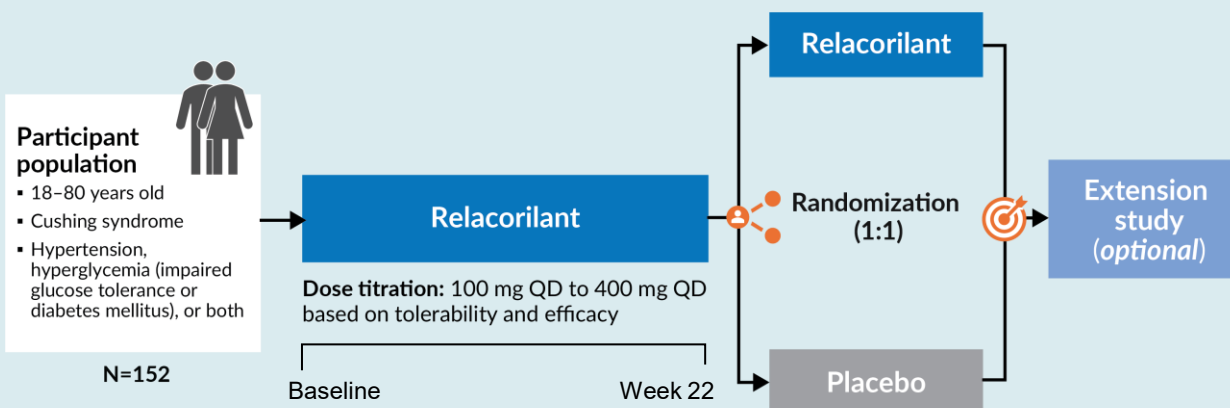
Pituitary



Adrenal



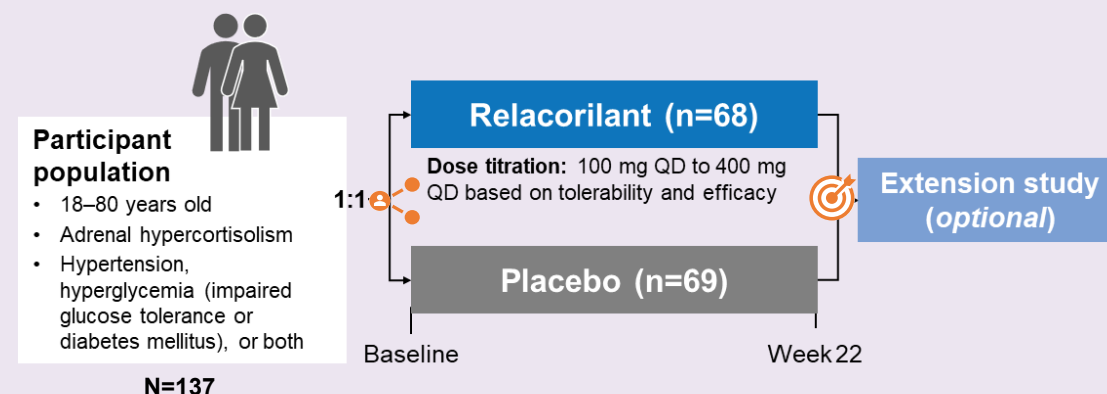
Ectopic



Patients with adrenal hypercortisolism



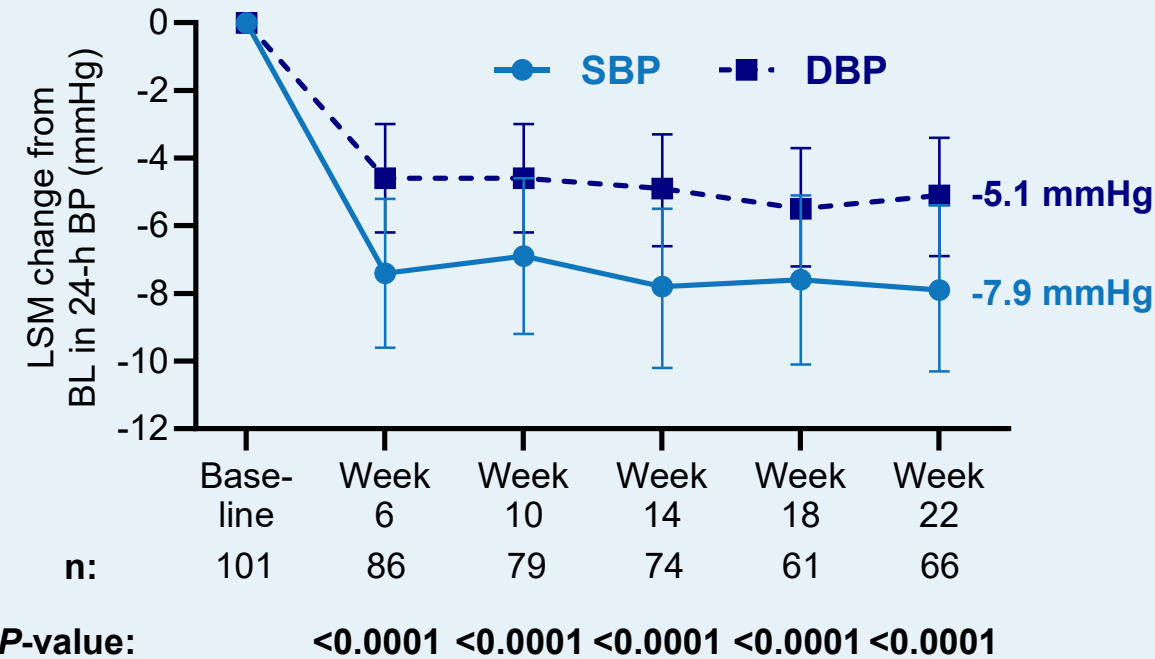
Adrenal



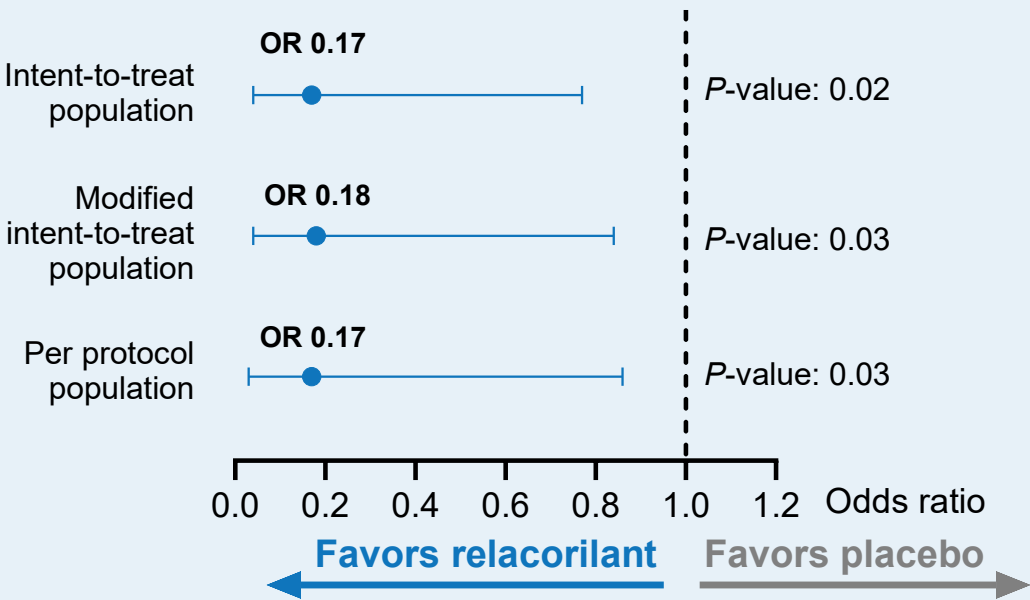
Pivotal GRACE Study: Rapid and Sustained Improvements in Blood Pressure With Relacorilant¹



Blood Pressure in GRACE OL Phase
Participants with hypertension



Primary Endpoint: Loss of hypertension response in the RW Phase
Participants with hypertension



1. Pivonello R, et al. Presented at: 8th Heart in Diabetes Conference; June 7–9, 2024; Philadelphia, PA. Error bars: 95% CI. LSM and CI calculated using a linear mixed model for repeated measures (MMRM). Wilcoxon rank sum test p-values for the mean change from baseline shown. Blood pressure measured by ABPM. Intent-to-treat population (ITT), participants randomized in the double-blind RW phase who received at least one dose of study drug post randomization. Modified ITT population, participants in the ITT population who had at least one post-randomization efficacy assessment. Per protocol population, participants in the modified ITT population who completed the study without an important protocol deviation. ABPM, ambulatory blood pressure monitoring; BL, baseline; BP, blood pressure; CI, confidence interval; DBP, diastolic blood pressure; LSM, least squares mean; OL, open label; OR, odds ratio; RW, randomized withdrawal; SBP, systolic blood pressure.



Focus today: Effects of
relacorilant on
**glucose measures, body
weight, & body composition**
in the 22-week treatment
phases of GRACE &
GRADIENT

Baseline Characteristics in GRACE and GRADIENT

	GRACE		GRADIENT			
	Relacorilant		Relacorilant		Placebo	
	Mean ± SD	n	Mean ± SD	n	Mean ± SD	n
Age, years	50.4 ± 13.2	152	62.5 ± 9.11	68	63.0 ± 9.0	69
Female, n (%)	127 (83.6%)	—	50 (73.5%)	—	49 (71.0%)	—
Etiology, n (%)						
ACTH-independent	34 (22.4%)	—	68 (100%)	—	69 (100%)	—
ACTH-dependent	118 (77.6%)	—	0	—	0	—
Body weight, kg	93.8 ± 24.7	152	89.6 ± 20.5	68	85.9 ± 20.9	69
Tissue fat mass by DXA, %	46.4 ± 8.4	131	44.1 ± 8.3	38	42.6 ± 8.8	37
Tissue lean mass by DXA, %	53.6 ± 8.4	131	53.7 ± 7.8	38	55.1 ± 8.5	37
Systolic blood pressure, mmHg	135.5 ± 12.6	148	132.4 ± 12.2	66	131.0 ± 11.5	66
Diastolic blood pressure, mmHg	84.8 ± 9.4	148	78.4 ± 9.2	66	78.7 ± 9.4	66
HbA1c, %	6.8 ± 1.6	152	6.2 ± 1.0	65	6.4 ± 1.1	68

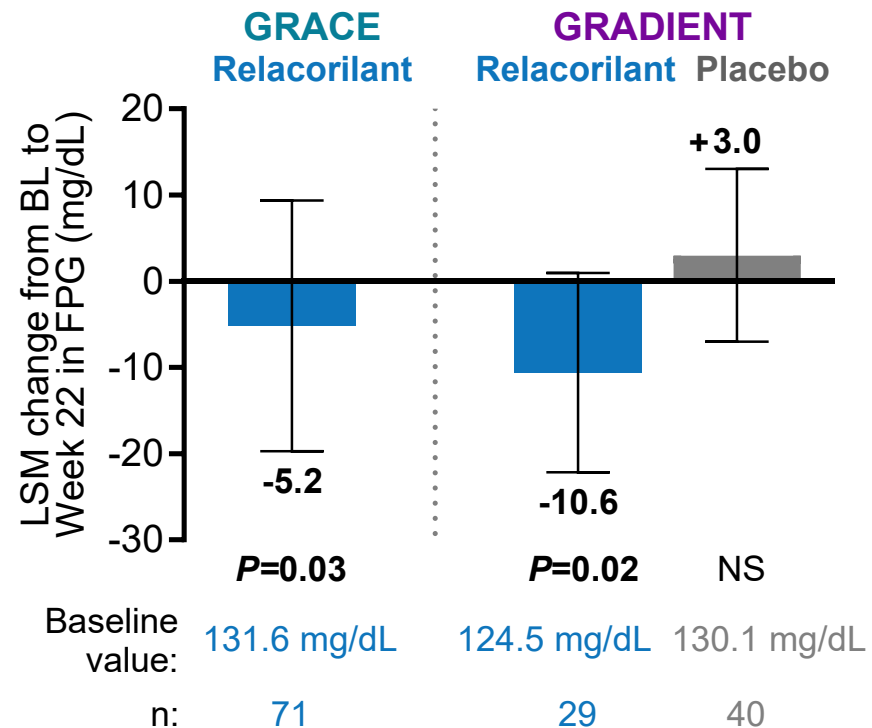
Mean ± SD shown unless otherwise noted. ACTH, adrenocorticotrophic hormone; DXA, dual-energy X-ray absorptiometry; HbA1c, hemoglobin A1c; SD, standard deviation.

Relacorilant Improved Glycemic Measures in Both Studies



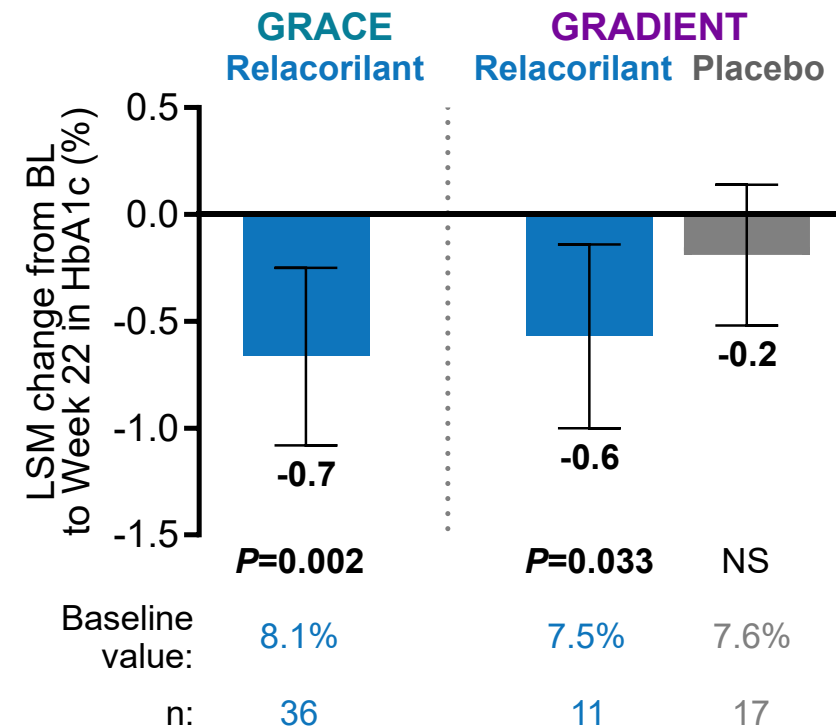
Fasting Plasma Glucose

Participants with IGT/DM



HbA1c

Participants with DM and BL HbA1c $\geq 6.5\%$

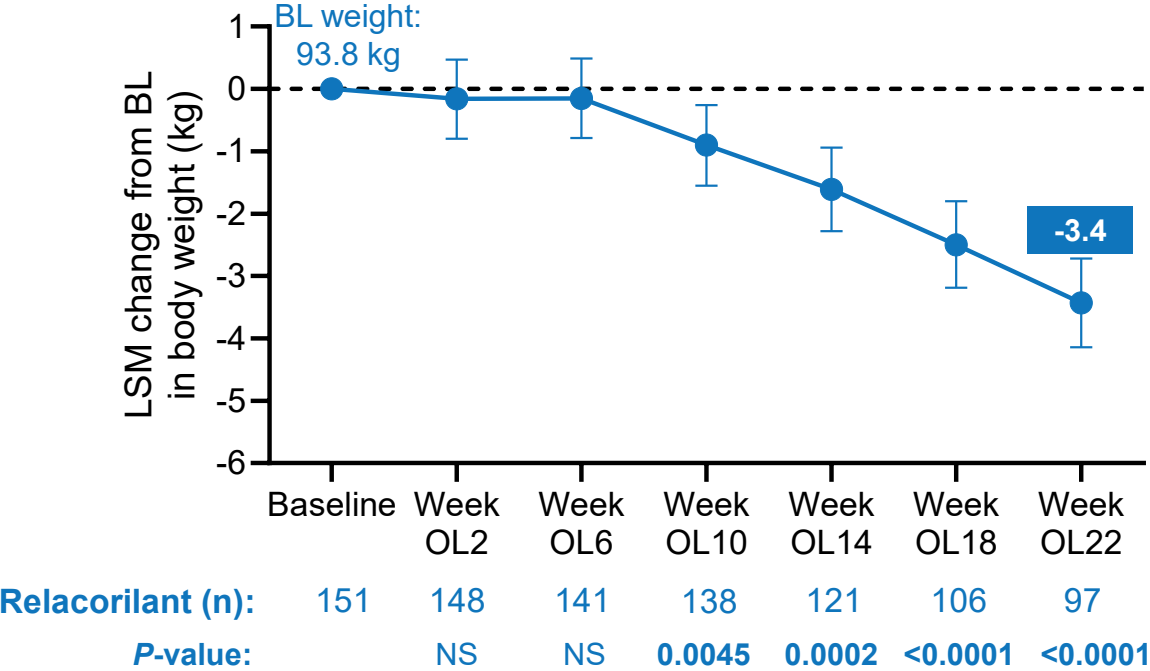


Error bars: 95% CIs. P -values from a Wilcoxon signed rank test for detecting significant changes compared to baseline. LSM and CI from a mixed model for repeated measures. BL, baseline; DM, diabetes mellitus; FPG, fasting plasma glucose; HbA1c, hemoglobin A1c; IGT, impaired glucose tolerance; LSM, least squares mean; NS, not significant ($P>0.05$).

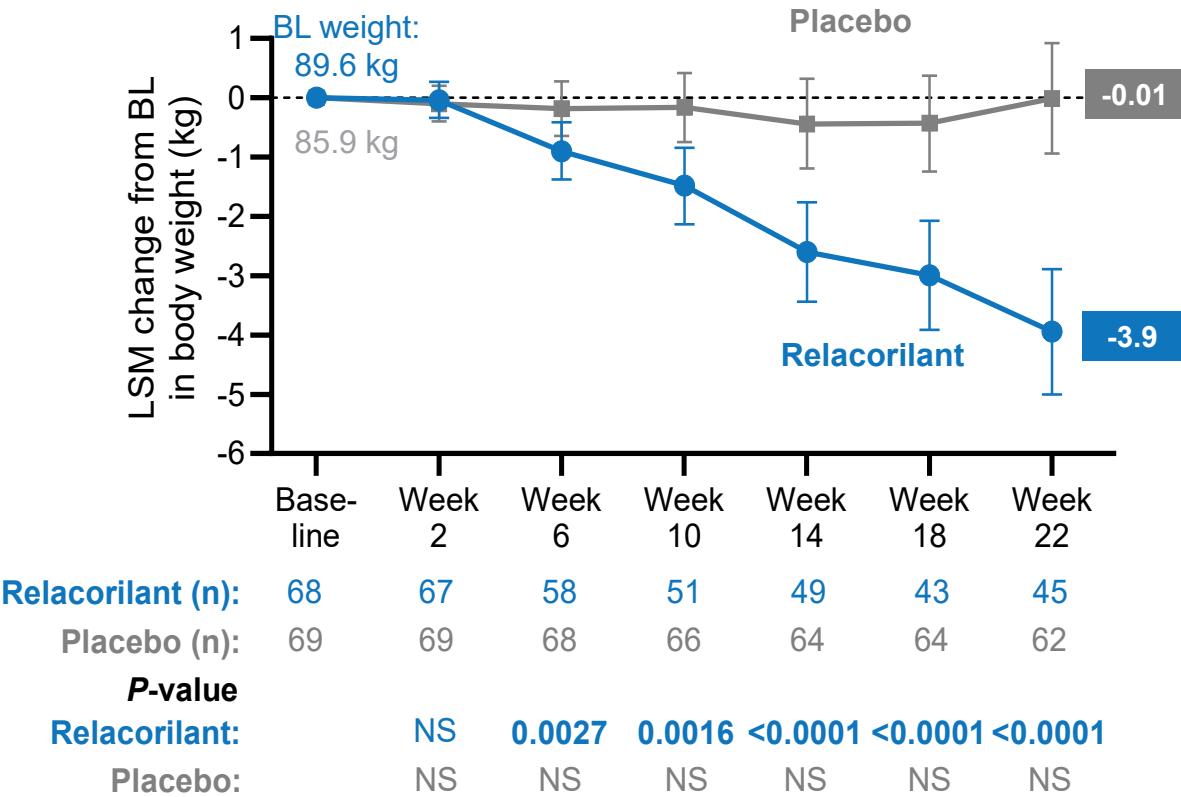
Relacorilant Resulted in Consistent Weight Loss In Both Studies



GRACE: Body weight
All participants

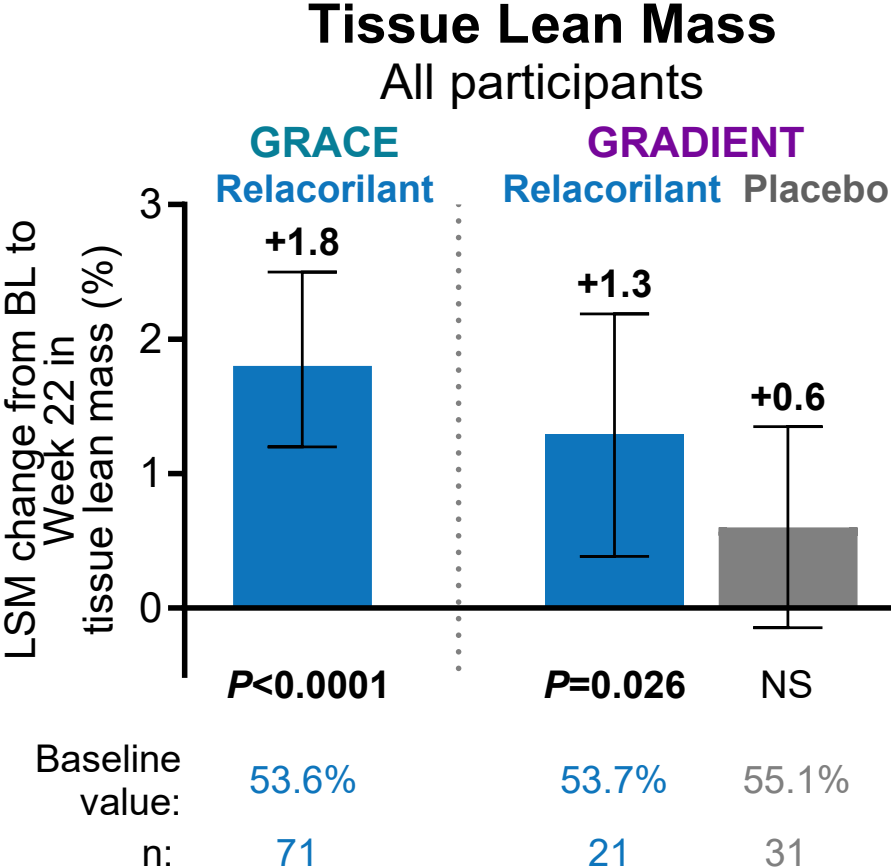
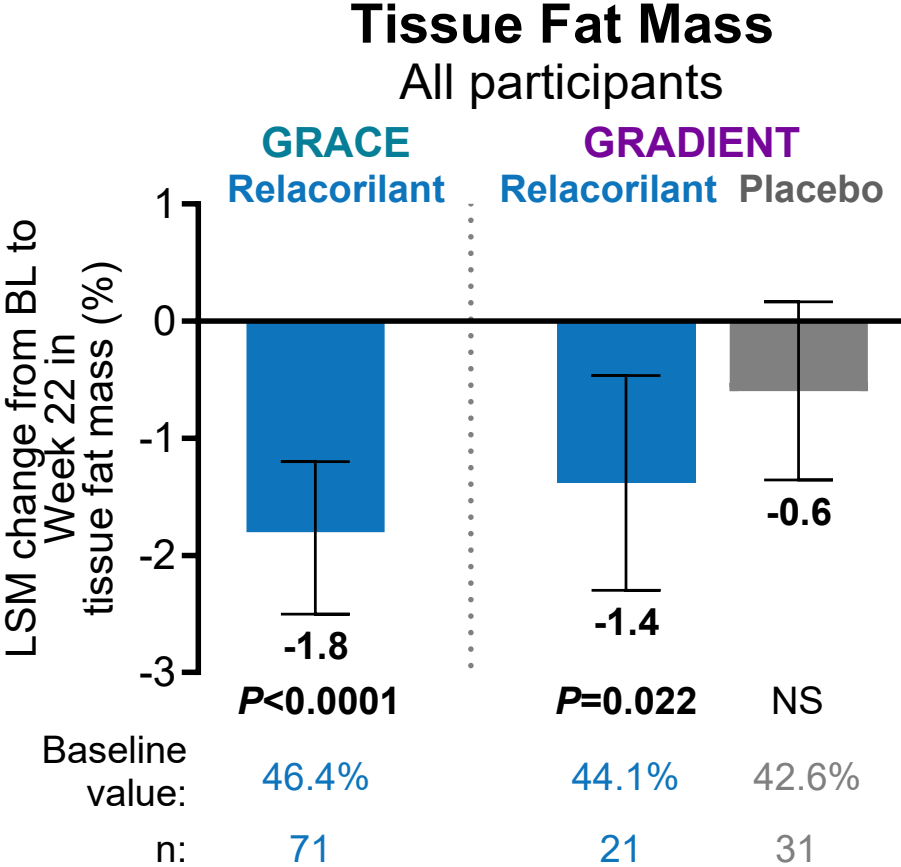
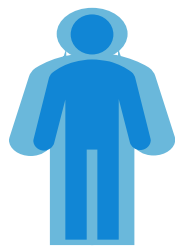


GRADIENT: Body weight
All participants



Error bars: 95% CI. P-values from a Wilcoxon signed rank test for detecting significant changes compared to baseline. LSM and CI from a mixed model for repeated measures. BL, baseline; CI, confidence interval; LSM, least-squares mean; NS, not significant (P>0.05); OL, open-label.

Relacorilant Reduced Fat Mass & Increased Lean Mass In Both Studies



Results shown are based on DXA scans. In GRACE, DXA scans were locally read, while they were centrally read in GRADIENT. Error bars: 95% CI. Wilcoxon signed rank test was used for detecting significant changes compared to baseline. LSM and 95% CI from a mixed model for repeated measures (GRACE) and from an ANCOVA model (GRADIENT) BL, baseline; CI, confidence interval; DXA, dual-energy X-ray absorptiometry; LSM, least-squares mean; NS, not significant ($P>0.05$).

Relacorilant Reduced Visceral Adipose Tissue, a Marker of Cardiovascular Risk, in GRADIENT

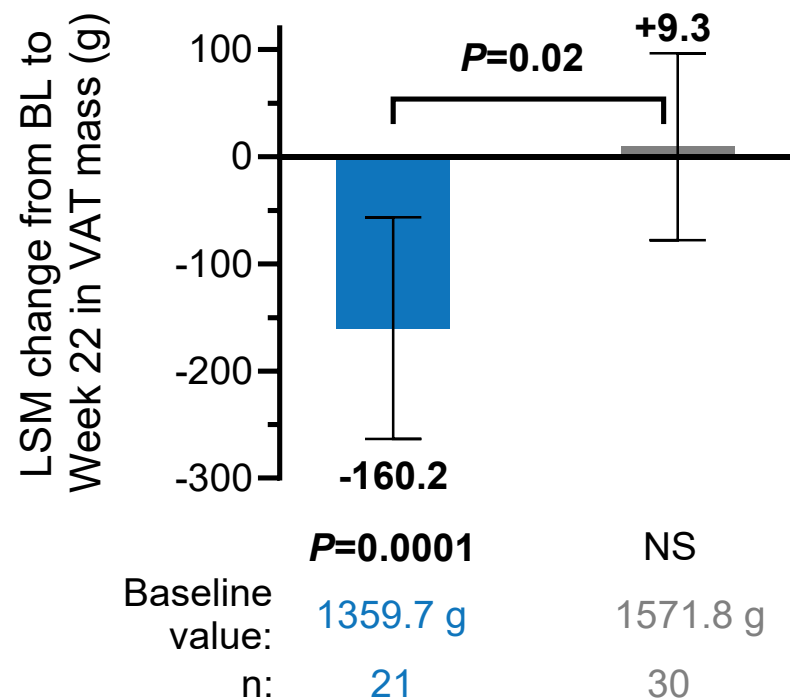


Visceral Adipose Tissue Mass

All participants

GRADIENT

Relacorilant Placebo

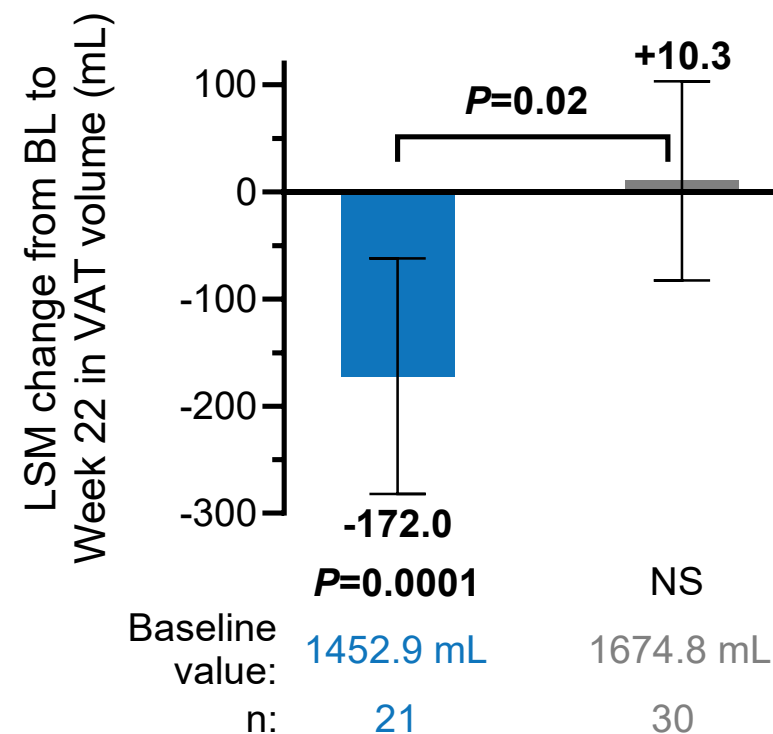


Visceral Adipose Tissue Volume

All participants

GRADIENT

Relacorilant Placebo



Visceral adipose tissue data not available in GRACE. Error bars: 95% CIs. P-values from a Wilcoxon signed rank test for detecting significant changes compared to baseline. LSM and CI from an ANCOVA model. BL, baseline; CI, confidence interval; LSM, least-squares mean; VAT, visceral adipose tissue.

Safety: Most Common Adverse Events Were Consistent Across Both Studies (AEs Occurring in $\geq 15\%$ in Either Study Arm)

GRACE	
n (%)	Relacorilant (n=152)
Nausea	52 (34.2%)
Edema peripheral	50 (32.9%)
Pain in extremity	43 (28.3%)
Back pain	41 (27.0%)
Fatigue	34 (22.4%)
Headache	31 (20.4%)
Arthralgia	30 (19.7%)
Diarrhea	28 (18.4%)
Skin hyperpigmentation	24 (15.8%)
Abdominal pain upper	23 (15.1%)
Constipation	23 (15.1%)
Dizziness	23 (15.1%)

GRADIENT		
n (%)	Relacorilant (n=68)	Placebo (n=69)
Back pain	21 (30.9%)	9 (13.0%)
Fatigue	16 (23.5%)	10 (14.5%)
Upper abdominal pain	14 (20.6%)	3 (4.3%)
Nausea	13 (19.1%)	8 (11.6%)
Pain in extremity	13 (19.1%)	5 (7.2%)
Abdominal pain	12 (17.6%)	2 (2.9%)
Arthralgia	8 (11.8%)	14 (20.3%)
Headache	7 (10.3%)	12 (17.4%)

Relacorilant was well tolerated across both studies. The most common AEs were consistent with cortisol withdrawal.

Conclusions

- | | | |
|---|---|--|
| 1 | Primary endpoint met in GRACE | Relacorilant treatment led to clinically and statistically significant improvements in blood pressure and other signs and symptoms of hypercortisolism ¹ |
| 2 | Improvements in glycemic control | Despite well controlled hyperglycemia at baseline, relacorilant treatment improved fasting glucose and HbA1c in GRACE & GRADIENT |
| 3 | Improvements in body composition | Relacorilant led to clinically and statistically significant improvements in body composition and body weight in participants with endogenous hypercortisolism of pituitary, adrenal, and ectopic etiology <ul style="list-style-type: none">• Improvements may occur as early as after 6–10 weeks of treatment |
| 4 | Preserved lean mass | Lean mass was preserved in both studies, in contrast to the reductions in lean mass reported with the most common classes of weight-loss agents |
| 5 | Favorable safety profile | Due to relacorilant's selectivity for the GR and unique downstream effects, no cases of relacorilant-induced hypokalemia, adrenal insufficiency, vaginal bleeding associated with endometrial hypertrophy, or QT interval prolongation were reported in these studies ¹ |

1. Pivonello R, et al. Presented at: 8th Heart in Diabetes Conference; June 7–9, 2024; Philadelphia, PA, USA.
GR, glucocorticoid receptor.

For results in participants with adrenal hypercortisolism from both studies, see poster SUN-463