

# Phase 3 Efficacy and Safety of Lorundrostat, a Novel Aldosterone Synthase Inhibitor, in Patients With Uncontrolled and Treatment- Resistant Hypertension: Launch-HTN Study

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and Cardiovascular Protection  
Late Breakers 1  
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# Disclosures

- Dr. Saxena reports personal consulting fees from Alnylam, Arrowhead, Astra Zeneca, Boehringer Ingelheim, C4 Research, Daiichi Sankyo, IQVIA, Mineralys Therapeutics, Menarini Group, Novartis, PPD, Recor Medical, and Vifor Pharma; Institutional grants from Ablative Solutions, MSD, Recor Medical, and Applied Therapeutics; Honoraria for presentations from Sanofi; Participation in advisory boards with Alnylam, AZ, BI, DSI, and Menarini Group
- Honorary Executive Committee member of the British & Irish Hypertension Society
- Launch-HTN was funded and supported by Mineralys Therapeutics

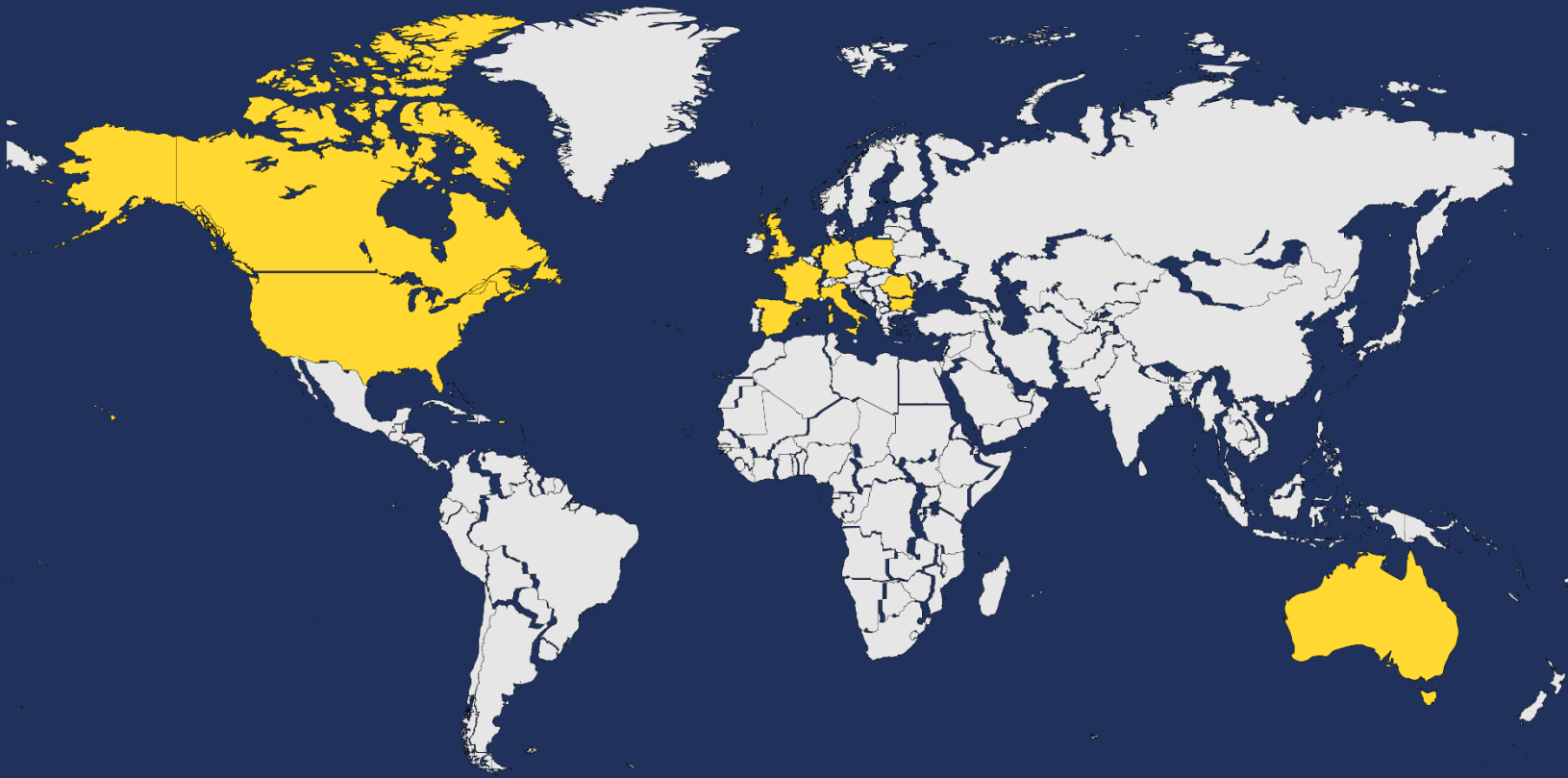
# Background

- Hypertension (HTN) affects 1 in 3 adults worldwide<sup>1</sup>
- Despite available treatment options, >40% of adults with HTN worldwide are not at blood pressure (BP) target<sup>2</sup>
- ~30% of patients with HTN have dysregulated aldosterone secretion<sup>3</sup>
- Spironolactone (MRAs) is 4<sup>th</sup> line add-on treatment option for patients with treatment-resistant HTN<sup>4,5</sup>; however, it is underutilized in clinical practice<sup>6</sup>

## Launch-HTN: Objective

To assess the blood pressure lowering efficacy and safety of **lorundrostat**,  
**an aldosterone synthase inhibitor**,  
in patients with uncontrolled hypertension,  
including treatment-resistant hypertension,  
who were taking 2 to 5 prescribed  
antihypertensive medications

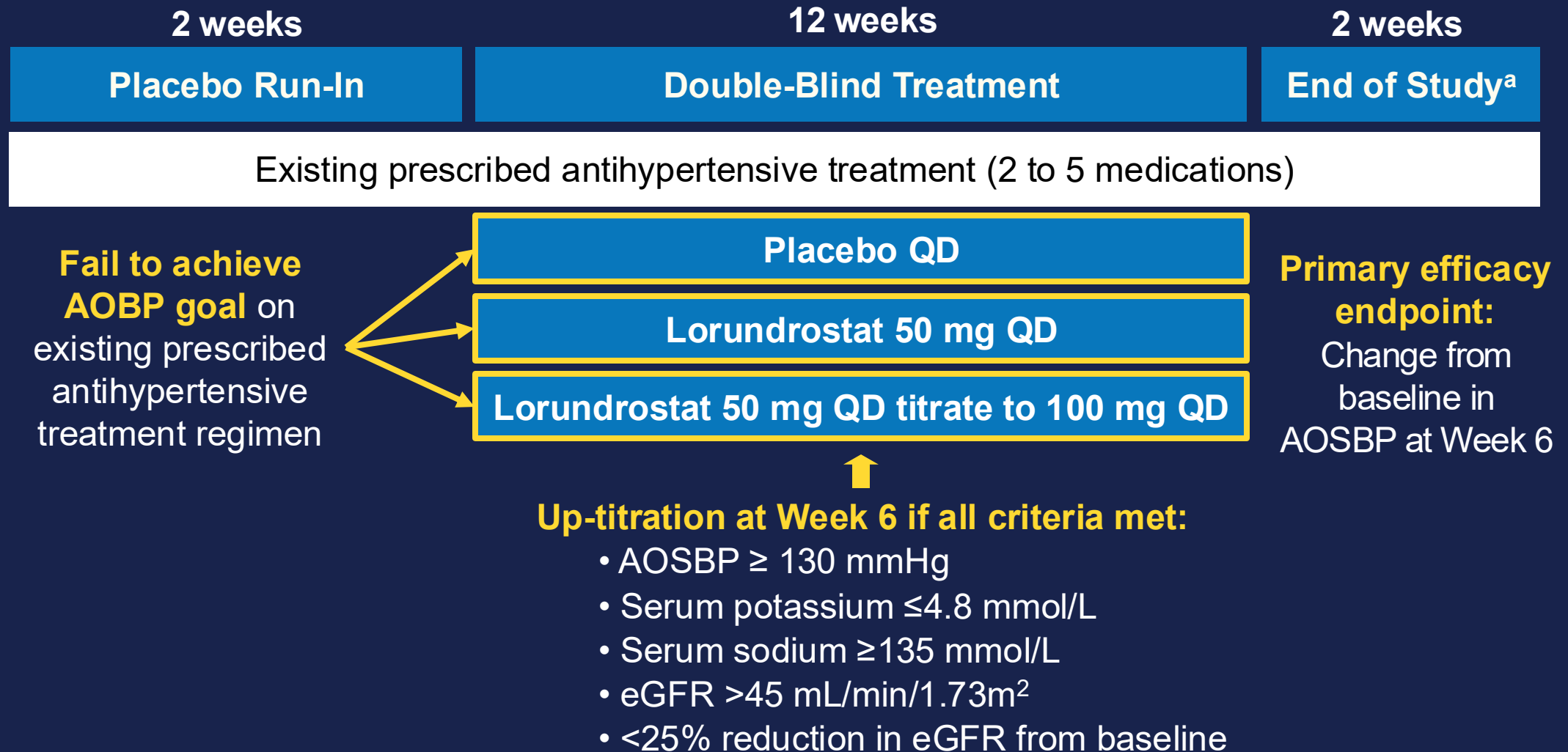
# Launch-HTN: Global Phase 3 Trial



## Global Trial With 159 Sites

**Australia**  
**Bulgaria**  
**Canada**  
**France**  
**Germany**  
**Italy**  
**The Netherlands**  
**Poland**  
**Puerto Rico**  
**Romania**  
**Spain**  
**United Kingdom**  
**United States**

# Launch-HTN: Trial Design



<sup>a</sup>Participants who do not enter the OLE attend a 2-week End of Study safety follow-up visit.

# Key Inclusion & Exclusion Criteria

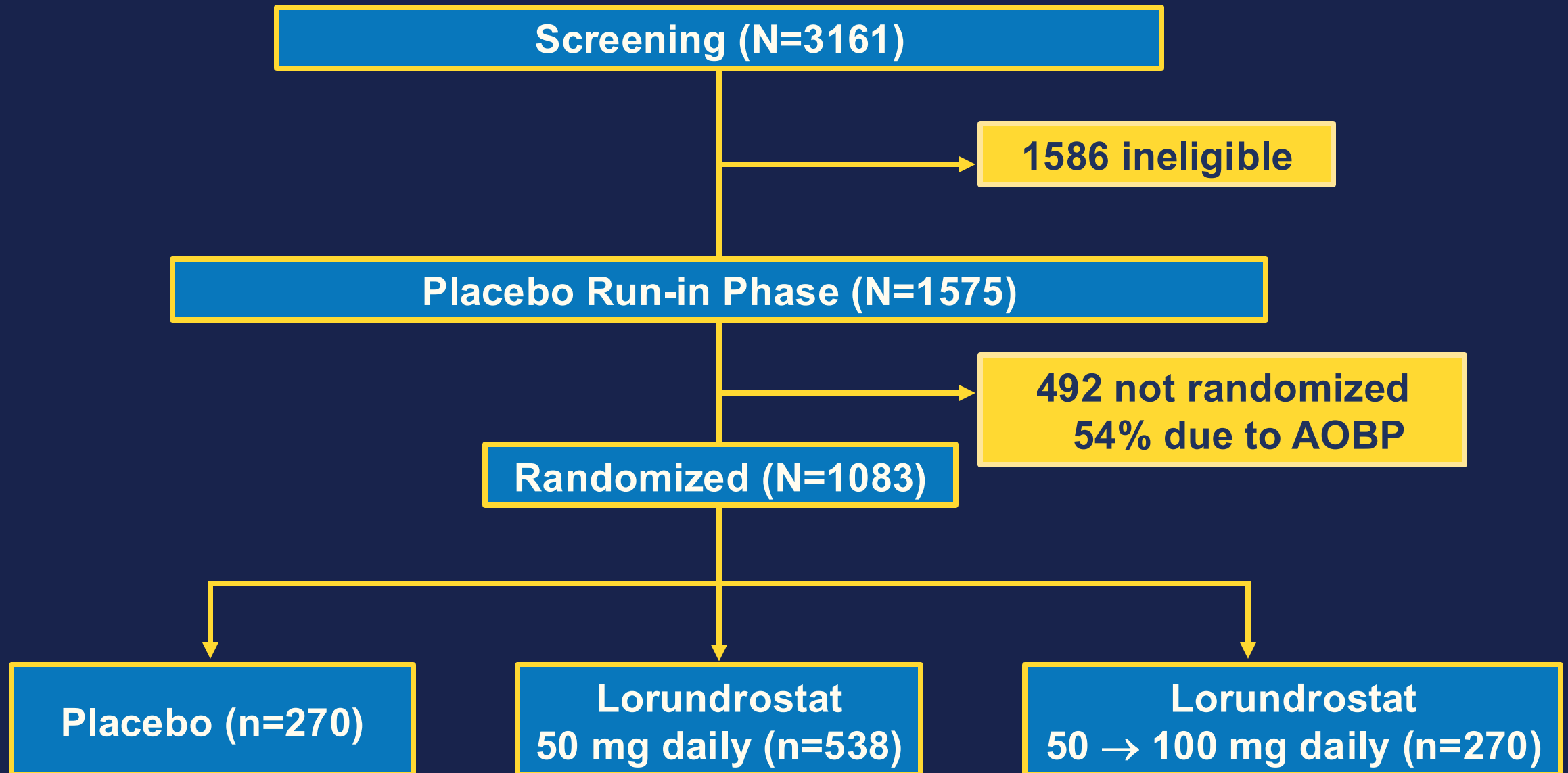
## Inclusion Criteria

- Males or females aged  $\geq 18$  years
- AOSBP of 135-180 mmHg and diastolic BP of 65-110 mmHg at screening and randomization
- On stable doses of 2 to 5 prescribed antihypertensive treatments, including a thiazide or thiazide-like diuretic

## Exclusion Criteria

- eGFR  $< 45$  ml/min/1.73m<sup>2</sup>
- Serum potassium  $> 5.0$  mmol/L at screening or  $> 4.8$  mmol/L at randomization
- Serum sodium  $< 135$  mmol/L at screening
- Use of epithelial sodium channel inhibitors or MRAs/potassium sparing diuretics

# Launch-HTN: Participant Flow





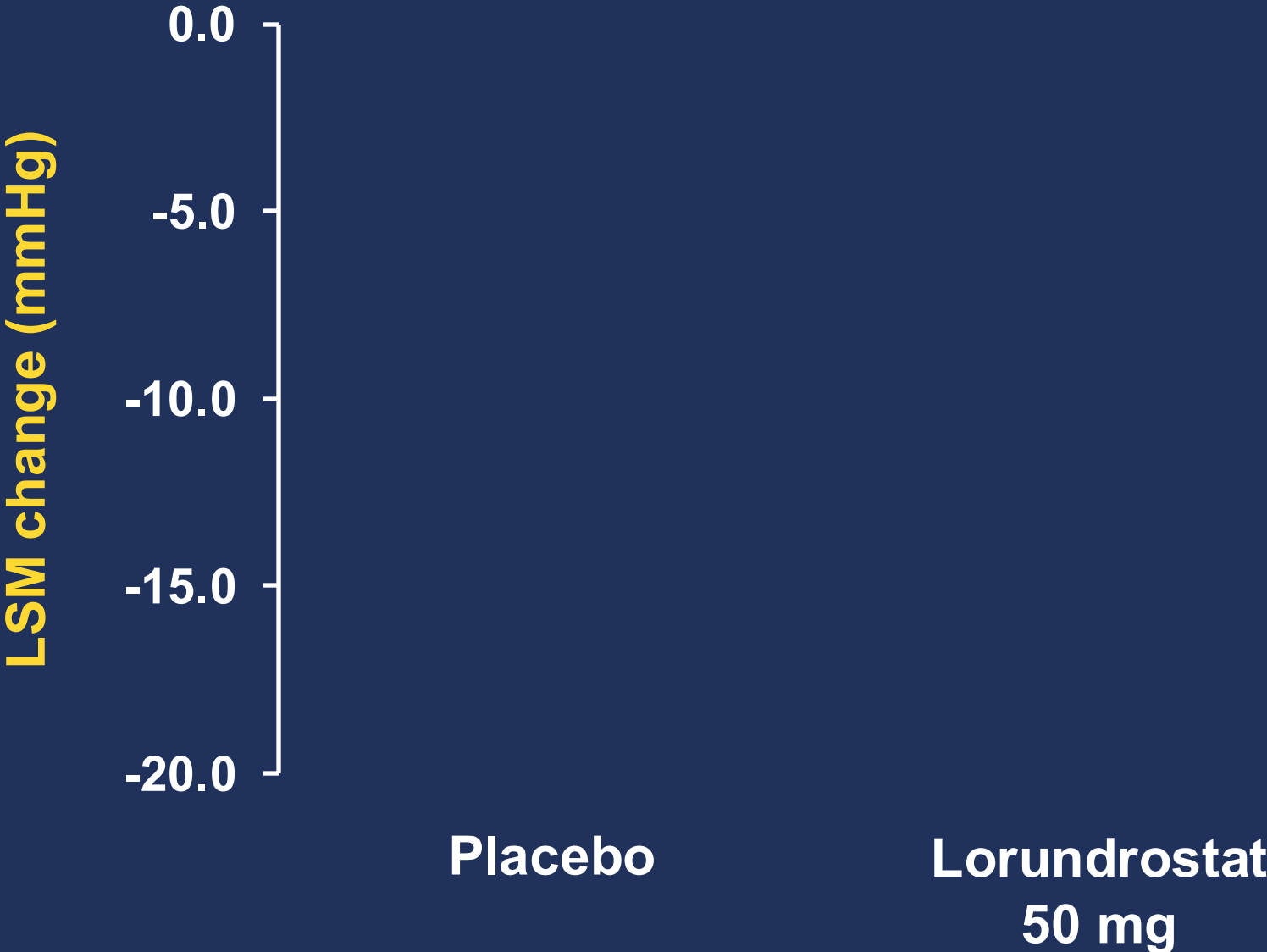
# Baseline Demographics & Clinical Characteristics

	Placebo (n=272)	Lorundrostat 50 mg (n=541)	Lorundrostat 50 mg to 100 mg (n=270)
Mean age, years	61.8	61.7	61.4
<b>Female, %</b>	48.9	45.7	47.4
<b>African American/Black, %</b>	32.0	28.1	26.7
BMI $\geq 30$ kg/m <sup>2</sup> , %	61.8	64.9	61.5
Mean eGFR, mL/min/1.73 m <sup>2</sup>	91.2	90.1	92.8
Diabetes, %	33.0	32.2	28.2
GLP-1 receptor antagonist, %	3.3	5.6	4.8
SGLT2i, %	4.8	3.9	5.2
<b>Mean AOBP at randomization, mmHg</b>	149 / 87	149 / 88	147 / 86

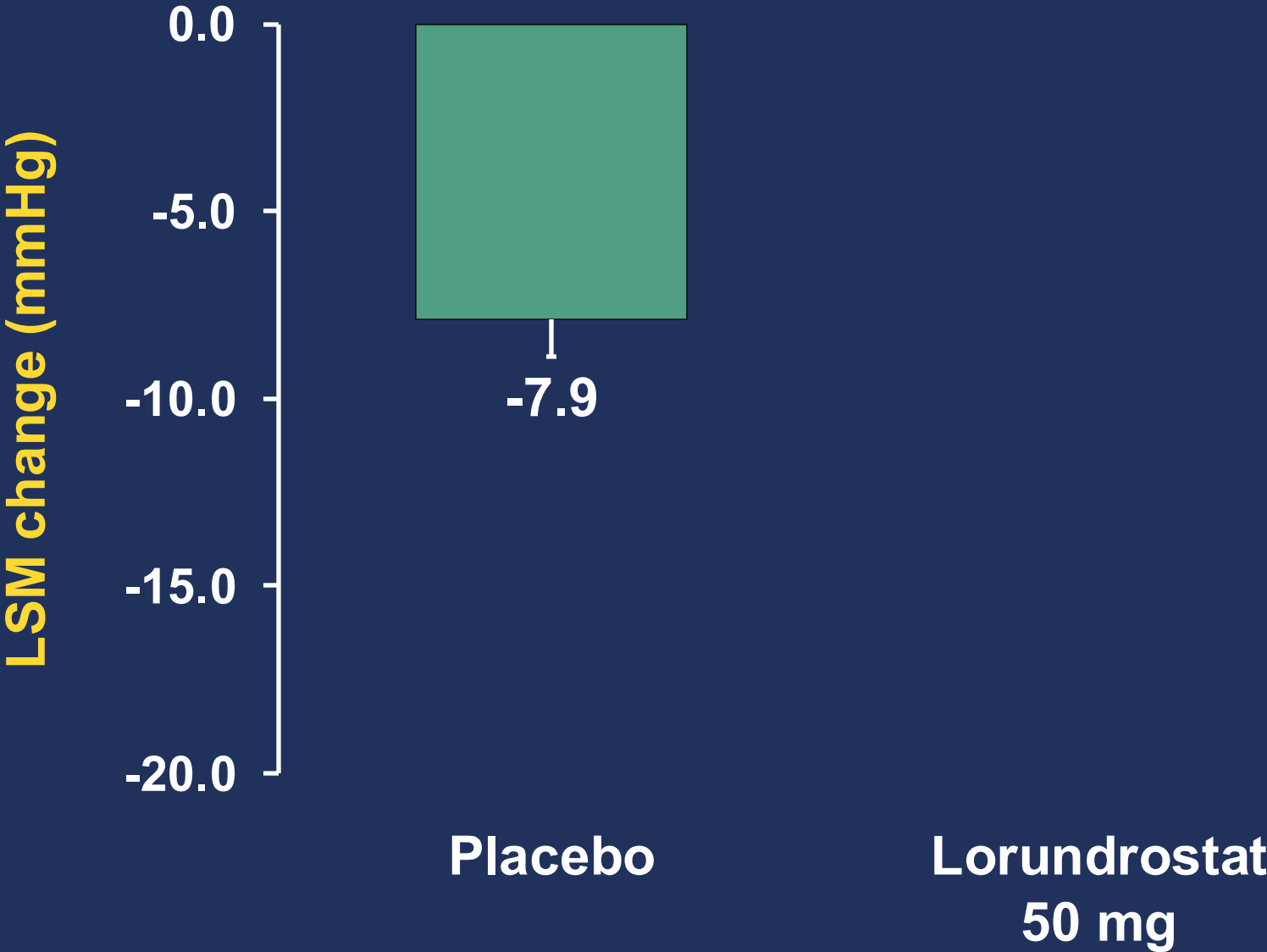
# Antihypertensive Medications at Baseline

	Placebo (n=272)	Lorundrostat 50 mg (n=541)	Lorundrostat 50 mg to 100 mg (n=270)
2 prescribed antihypertensives, %	41.5	39.4	39.3
≥3 prescribed antihypertensives, %	58.5	60.6	60.7
Antihypertensive drug class			
Thiazide/thiazide-like diuretics, %	95.2	96.1	95.9
ACE inhibitor or ARB, %	82.7	86.3	87.8
Calcium channel blocker, %	49.6	51.4	51.9

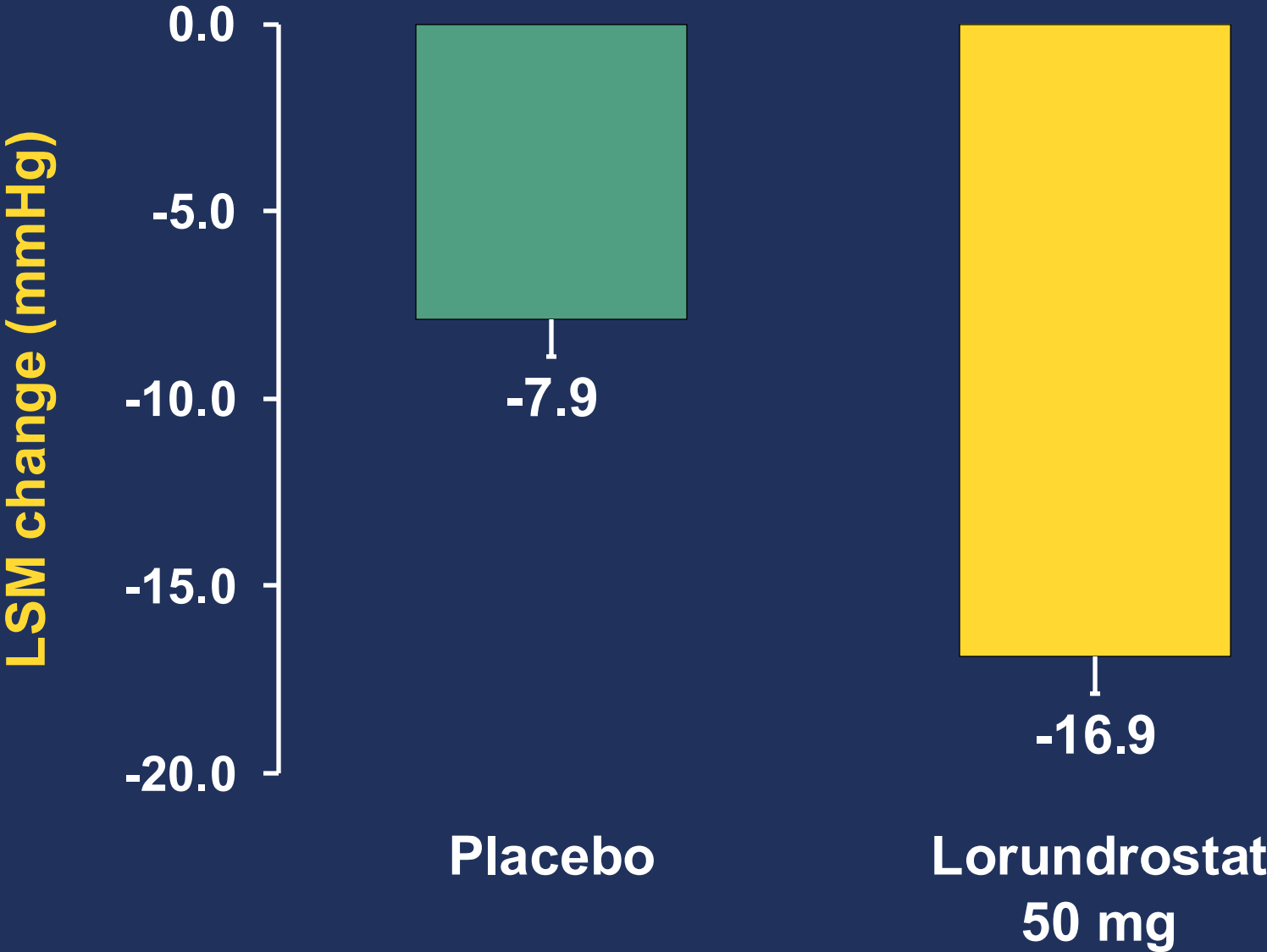
# Primary End Point: AOSBP Change at Week 6



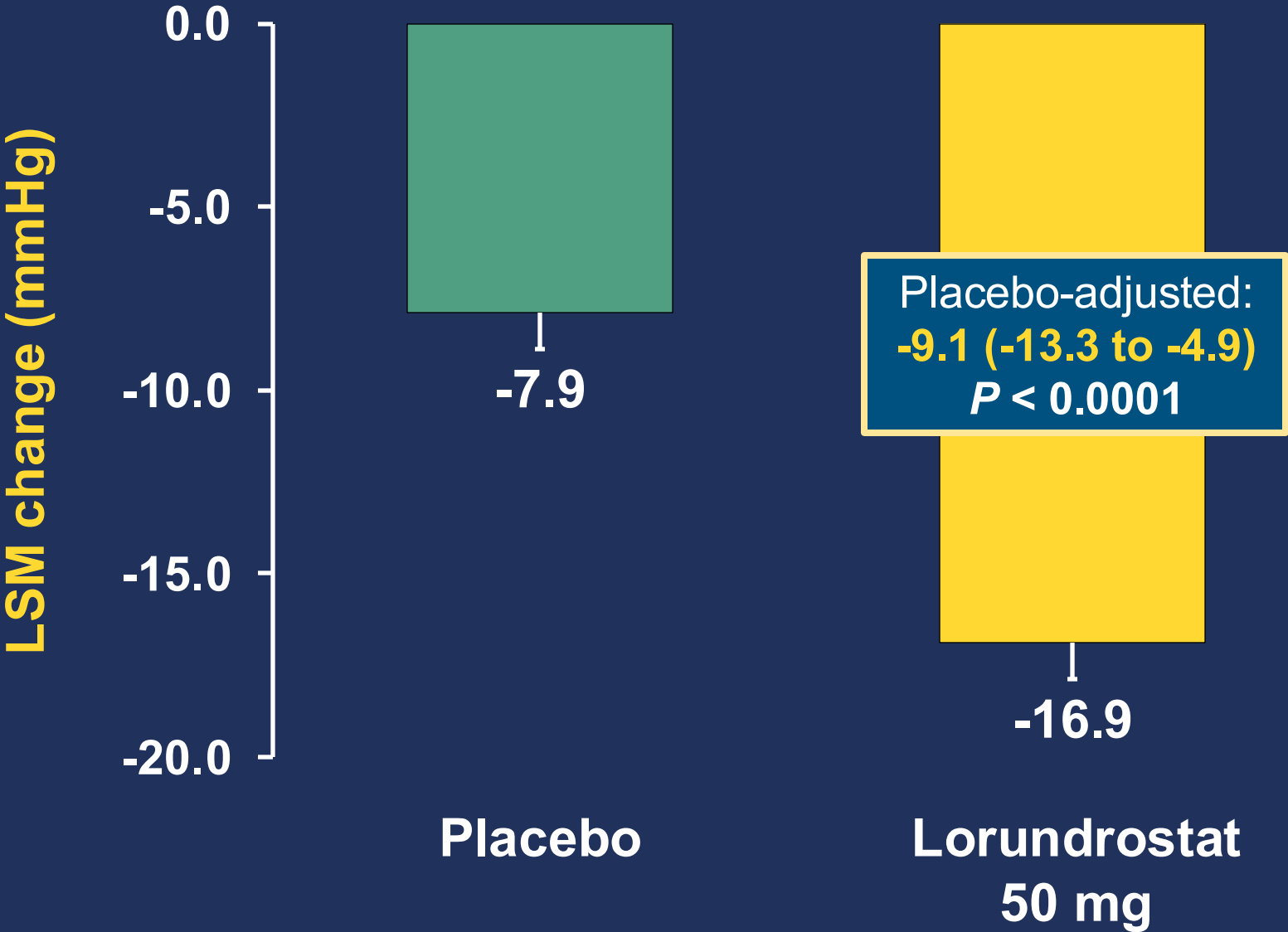
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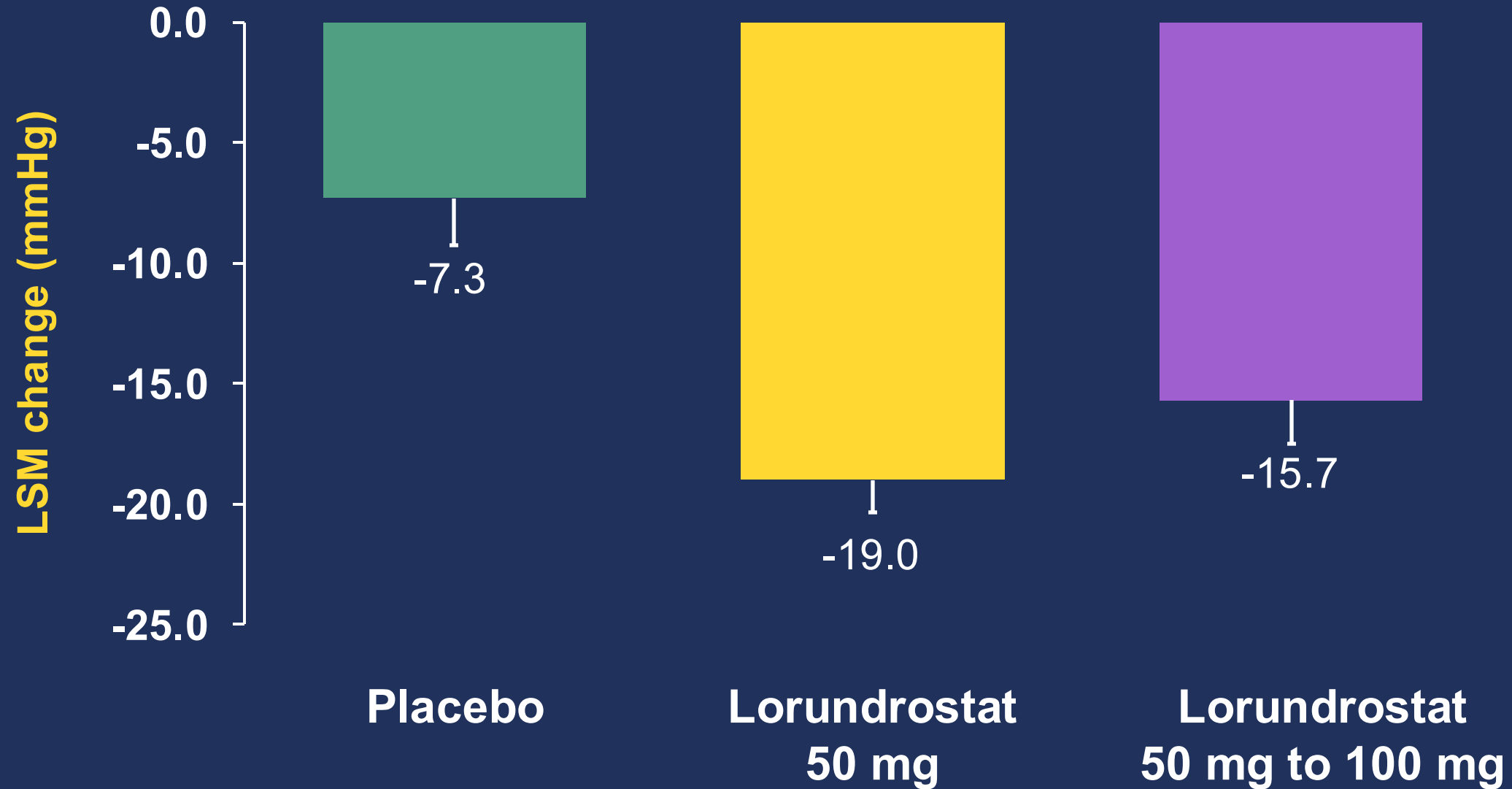
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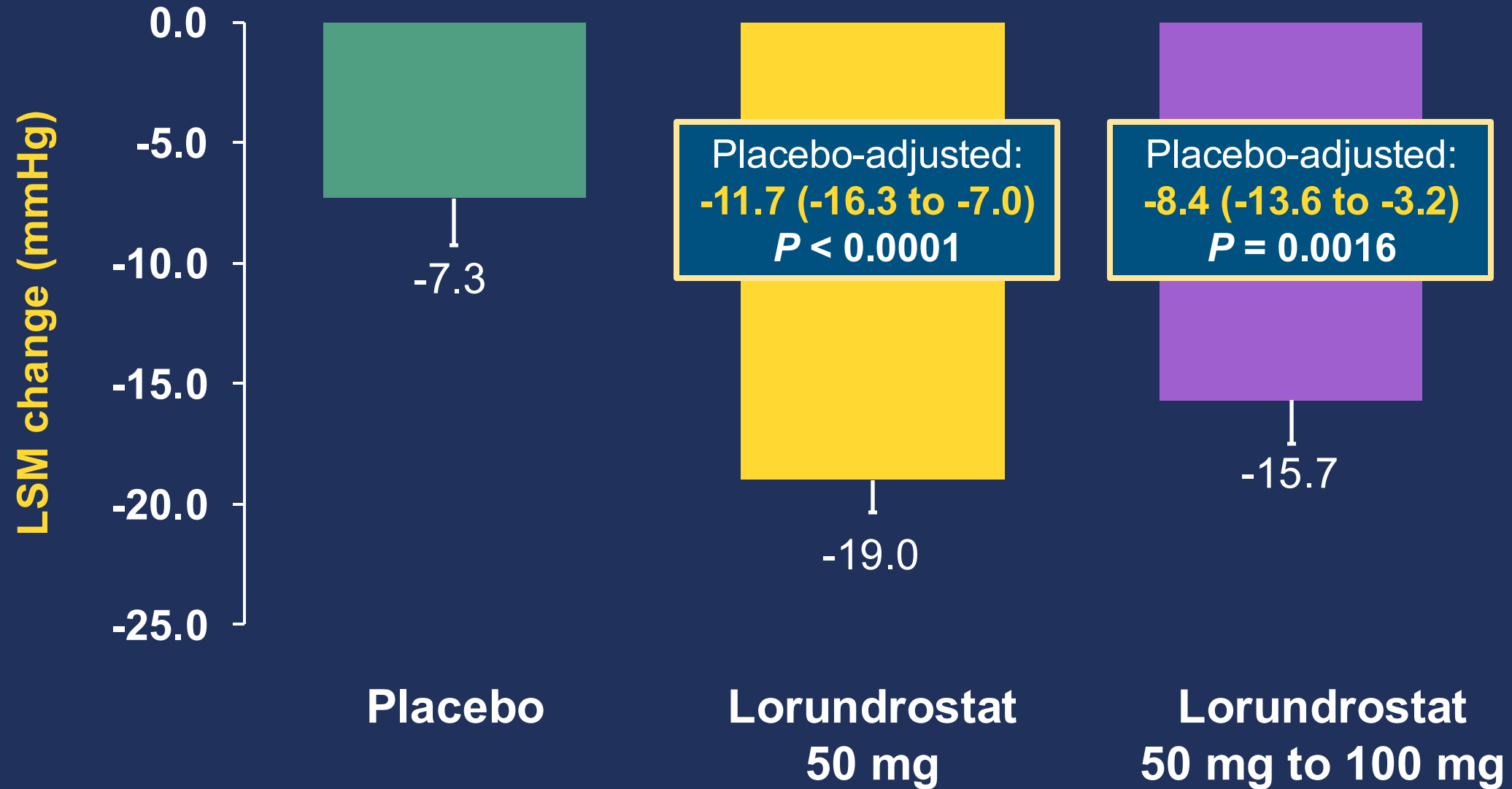
# Primary End Point: AOSBP Change at Week 6



# Predefined End Point: AOSBP Change at Week 12

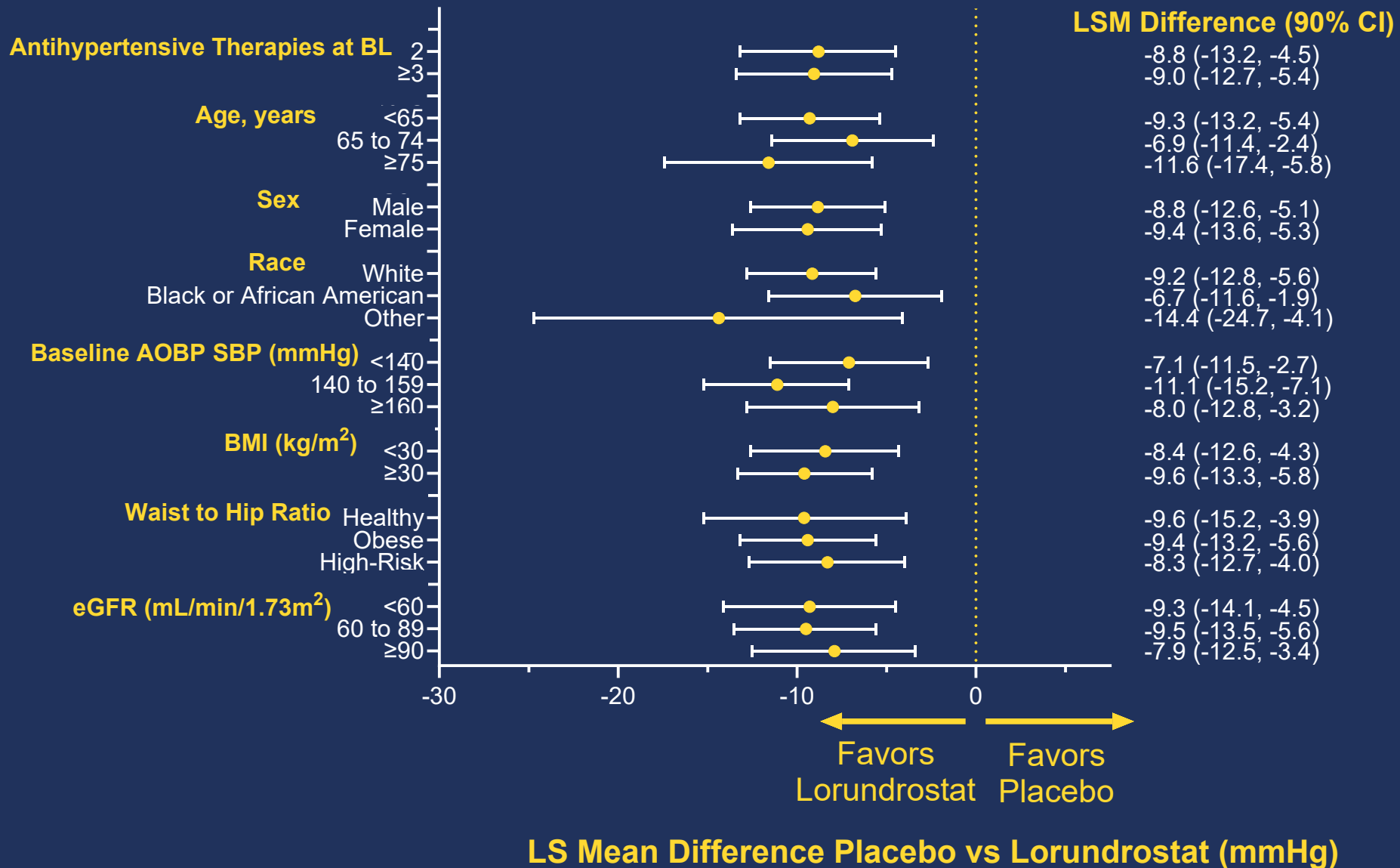


# Predefined End Point: AOSBP Change at Week 12





# Lorundrostat 50mg at Week 6 (Pooled): Efficacy was Consistent Across Subgroups



Adverse Events	Placebo	Lorundrostat 50 mg	Lorundrostat 50 to 100 mg
Any TEAE	36%	54%	56%
Mild	22%	34%	43%
Moderate	12%	19%	11%
Severe	3%	2%	2%
Any Serious AE	3%	2%	1%
Serum Potassium >6.0 mmol / L -Single value	0.7%	1.1%	1.5%
Serum Potassium >6.0 mmol / L -Confirmed per protocol repeat testing	0.4%	0.6%	1.1%
Death*	0.4%	0	0

\*One death occurred and was not related to treatment

Adverse Events of Special Interest <sup>a</sup>	Placebo	Lorundrostat 50 mg	Lorundrostat 50 to 100 mg
Severely elevated BP	4.1%	1.9%	0.7%
Symptomatic hypotension	0.4%	2.0%	2.6%
Hyperkalemia <sup>b</sup>	0.4%	2.0%	2.6%
Hyponatremia <sup>b</sup>	3.3%	6.9%	10.4%
Glucocorticoid deficiency <sup>c</sup>	1.1%	0	0
eGFR reduction <sup>b</sup>	0.7%	3.0%	3.3%

<sup>a</sup>AESI reporting required modification or discontinuation of trial drug. <sup>b</sup>Required modification of trial drug. <sup>c</sup>Confirmed by ACTH stimulation test and required discontinuation of trial drug.

# Conclusions

- Launch-HTN demonstrated efficacy, safety, and tolerability of lorundrostat in a large cohort of diverse participants sustained through week 12
- Consistent efficacy and safety across all subgroups in Launch-HTN supports broad patient selection for lorundrostat treatment
- Lorundrostat was well tolerated with modest increase in serum potassium
- Reduction in AOSBP was clinically meaningful and sustained reduction with long-term treatment would confer cardiovascular-renal protection
- Lorundrostat has demonstrated consistent results across 3 clinical trials
  - The results of Launch-HTN (AOBP) and Advance-HTN (ABPM)<sup>1</sup> complement each other

# Acknowledgements

**Participants**

159 Global Sites

**Investigators and Site Staff**

**Data Safety Monitoring  
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