## **Supplementary Online Content**

Dewland TA, Soliman EZ, Davis BR, et al; Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial ALLHAT Collaborative Research Group. Effect of the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT) on conduction system disease: a secondary analysis of a randomized clinical trial. *JAMA Intern Med.* Published online June 27, 2016. doi:10.1001/jamainternmed.2016.2502.

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This supplementary material has been provided by the authors to give readers additional information about their work.

## eTable 1. ALLHAT Comorbidity Definitions

Comorbidity	Definition
Coronary Heart Disease	History of myocardial infarction, angina, primary cardiac arrest, coronary stenosis > 50%, reversible perfusion defect on stress testing, or prior coronary revascularization procedure.
Diabetes	Fasting plasma glucose > 140 mg/dl, a non-fasting glucose > 200 mg/dl, or treatment with insulin or oral hypoglycemic agent during the two years prior to study enrollment
Smoking Status	
Current Smoker	Any cigarette use within 30 days of enrollment
Non Smoker	No cigarette use within 30 days of enrollment

eTable 2. Criteria for Conduction System Disease Diagnosis

<b>Conduction Disease Diagnosis</b>	Minnesota Code	Definition		
First Degree AV Block	6-3	PR interval ≥ 220 ms		
Left Anterior Fascicular Block	7-7	QRS duration < 120 ms, plus Q-wave amplitude ≥ 0.25 mm and < 30 ms duration in lead I, plus left axis deviation of -45 degrees or more		
Incomplete Left Bundle Branch Block	7-6	QRS duration ≥ 110 ms and < 120 ms without Q waves in I, aVL, V5, or V6		
Left Bundle Branch Block	7-1-1	QRS duration ≥ 120 ms with an R peak duration ≥ 60 ms in leads I, II, aVL, V5, or V6		
Incomplete Right Bundle Branch Block	7-3	QRS duration ≤ 120 ms and R' > R in either leads V1 or V2		
Right Bundle Branch Block	7-2-1	QRS duration ≥ 120 ms, a R' > R or mainly upright QRS in V1, and either a R peak duration ≥ 60 ms in V1/V2 or a S duration > R duration in leads I or II		
Intraventricular conduction delay	7-4	QRS duration ≥ 120 ms not fulfilling either LBBB or RBBB criteria		

LBBB, left bundle branch block; ms, milliseconds; RBBB, right bundle branch block.

eTable 3. Baseline Characteristics of ALLHAT Participants With and Without Serial Electrocardiograms

	ECG Present (n = 21,004)	ECG Absent* (n = 10,691)	P value <sup>†</sup>
Age, years, mean (SD)	66.5 (7.3)	67.2 (8.3)	<0.001
Female Gender, n (%)	9,322 (44.4)	5,776 (54.0)	<0.001
Race / Ethnicity, n (%)			<0.001
White Non-Hispanic	11,093 (52.8)	3,664 (34.3)	
White Hispanic	2,747 (13.1)	2,304 (21.6)	
Black	6,805 (32.4)	4,555 (42.6)	
Other <sup>‡</sup>	359 (1.7)	168 (1.6)	
Body Mass Index, kg/m <sup>2</sup> , mean (SD)	29.8 (6.0)	29.7 (6.5)	0.47
Current Smoker, n (%)	4,528 (21.6)	2,511 (23.5)	<0.001
Prior Antihypertensive Treatment, n (%)	19,015 (90.5)	9,542 (89.3)	<0.001
Aspirin Use, n (%)	8,012 (38.5)	3,174 (30.3)	<0.001
Diabetes, n (%)	7,848 (39.7)	4,668 (48.3)	<0.001
Coronary Heart Disease, n (%)	5,296 (25.4)	2,505 (23.6)	<0.001
Left Ventricular Hypertrophy, n (%)	1,235 (5.9)	532 (9.4)	<0.001
GFR, ml/min/1.73 m <sup>2</sup> , mean (SD)	77.93 (18.8)	77.8 (21.6)	0.56
Serum potassium, mEq/L, mean (SD)	4.30 (0.5)	4.32 (0.5)	0.020
Cholesterol, mg/dL, mean (SD)			
Total	215.8 (42.4)	217.8 (45.6)	<0.001
HDL	46.5 (14.7)	48.0 (15.0)	<0.001
LDL	135.8 (36.4)	136.5 (38.7)	0.14
Antihypertensive treatment group, n (%)			<0.001
Chlorthalidone	9,726 (46.3)	4,757 (44.5)	
Amlodipine	5,736 (27.3)	2,868 (26.8)	

Lisinopril	5,542 (26.4)	3,066 (28.7)	
Pravastatin treatment, n (%)	2,882 (13.7)	992 (9.3)	0.547

\*Participants without a baseline and at least one follow-up ECG are labeled as "ECG absent" and were excluded from the incident analysis. †P values are for the comparison of the indicated characteristic among participants with and without serial ECGs. ‡Participants who did not identify as White, Black, or Hispanic were included in the "Other" race category. Individuals with missing data were omitted from the proportion calculations for the missing variable. CI, confidence interval; ECG, electrocardiogram; GFR, glomerular filtration rate; HDL, high density lipoprotein, HTN, hypertension; HR, hazard ratio; LDL, low density lipoprotein; SD, standard deviation.

eTable 4. Antihypertensive Randomization and Blood Pressure

	Chlorthalidone	Amlodipine	Lisinopril	P value <sup>*</sup>	P value <sup>†</sup>	P value <sup>‡</sup>
	Systolic Blood	Pressure, mea Hg	n (SD), mm			
Baseline	145.8 (15.7)	145.8 (15.8)	145.7 (15.4)	0.83	0.84	0.71
1 Year	136.3 (15.2)	138.0 (14.4)	139.3 (18.1)	<0.001	<0.001	<0.001
2 Years	135.4 (15.5)	136.6 (14.4)	138.1 (17.6)	<0.001	<0.001	<0.001
3 Years	134.4 (14.9)	135.0 (14.6)	136.2 (17.1)	0.01	<0.001	<0.001
4 Years	134.0 (15.4)	134.8 (15.1)	135.5 (17.0)	0.01	<0.001	0.09
5 Years	133.9 (14.9)	134.9 (14.4)	136.1 (17.9)	0.02	<0.001	0.02
Diastolic Blood Pressure, mean (SD), mm Hg						
Baseline	84.0 (10.0)	83.9 (10.1)	84.0 (9.9)	0.47	0.97	0.50
1 Year	79.3 (9.2)	78.5 (9.3)	79.6 (10.2)	<0.001	0.05	<0.001
2 Years	78.3 (9.5)	77.4 (9.4)	78.5 (10.1)	<0.001	0.18	<0.001
3 Years	77.1 (9.3)	76.1 (9.3)	77.0 (10.2)	<0.001	0.70	<0.001
4 Years	76.5 (9.6)	75.7 (9.6)	76.5 (10.3)	<0.001	0.99	<0.001
5 Years	75.5 (9.7)	74.5 (9.7)	75.4 (10.4)	<0.001	0.86	0.003

<sup>\*</sup>P value for comparison of amlodipine versus chlorthalidone. †P value for comparison of lisinopril versus chlorthalidone. ‡P value for comparison of amlodipine versus lisinopril. SD, standard deviation.