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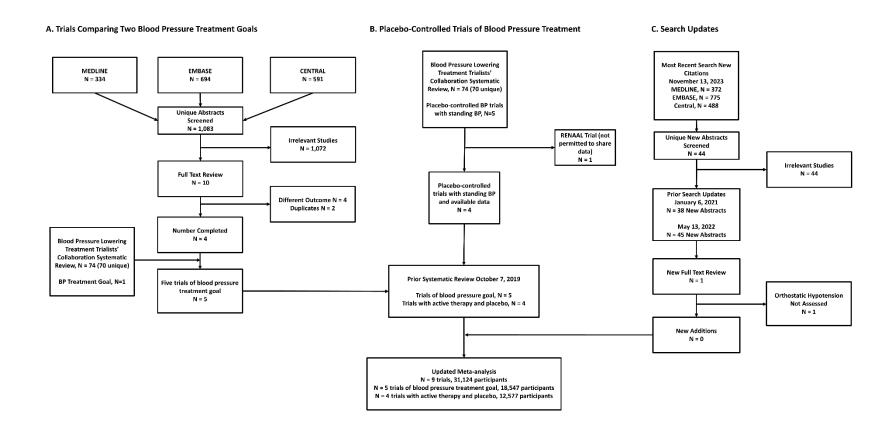
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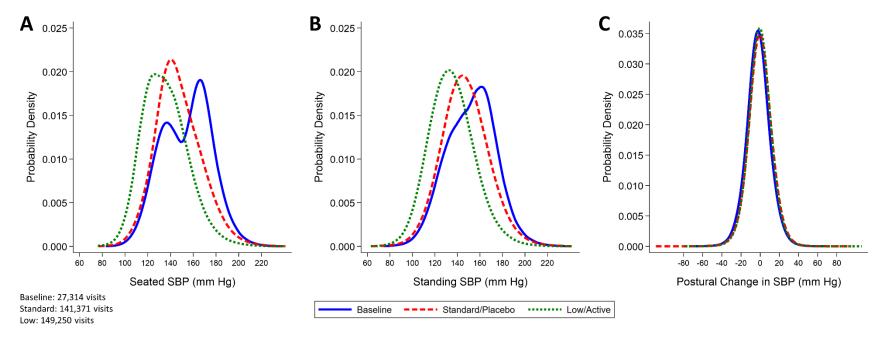
Supplementary Table I. Subgroup analyses using the orthostatic hypertension consensus definition

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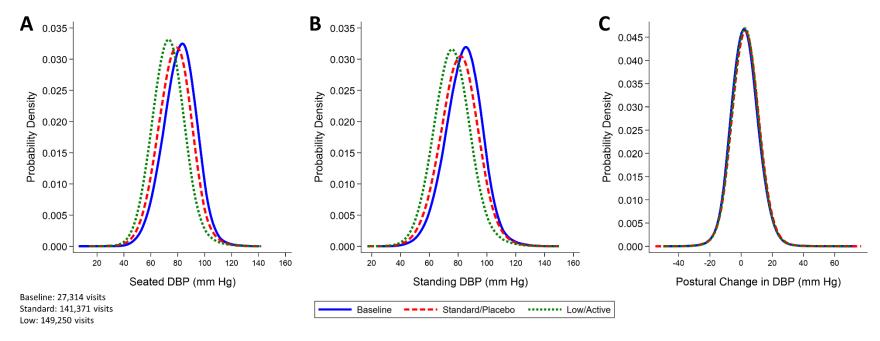
Supplementary Figure A. PRISMA diagram depicting most recent search strategy in the context of prior search results.



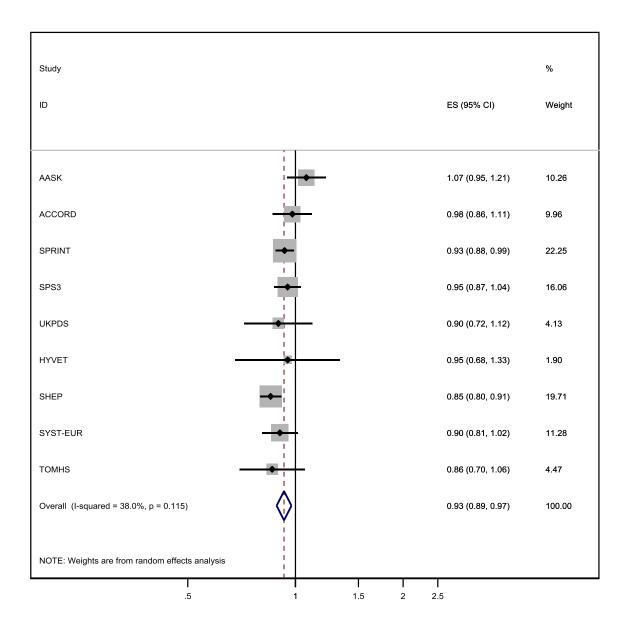
Supplementary Figure B. Kernel density plots (bandwidth 5) of the distribution (y-axis) of (**A**) seated systolic blood pressure (SBP), (**B**) standing SBP, and (**C**) postural change in SBP. Curves represent blood pressure measurements (mm Hg) during baseline (solid line), standard blood pressure treatment goal or placebo follow-up visits (dashed line), and lower blood pressure treatment goal or active therapy follow-up visits (dotted line) for all 9 trials. These figures are restricted to the subpopulation with both baseline and follow-up visits (N=27,314). Note that some trials enrolled participants with treated hypertension, which may account for normal seated blood pressure values at baseline.



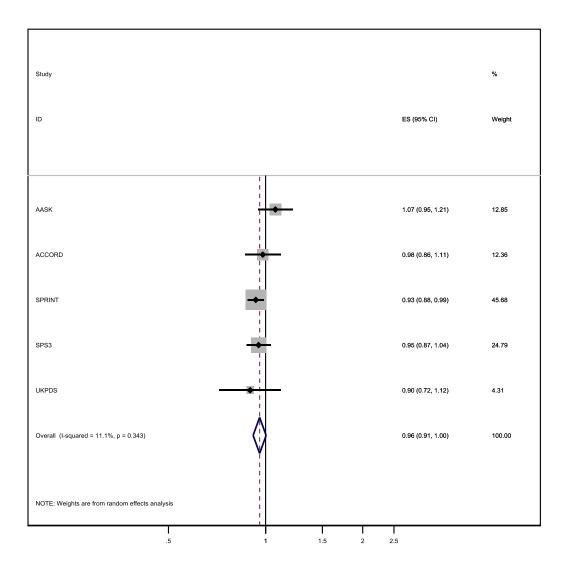
Supplementary Figure C. Kernel density plots (bandwidth 5) of the distribution (y-axis) of (**A**) seated diastolic blood pressure (DBP), (**B**) standing DBP, and (**C**) postural change in DBP. Curves represent blood pressure measurements (mm Hg) during baseline (solid line), standard blood pressure treatment goal or placebo follow-up visits (dashed line), and low blood pressure treatment goal or active therapy follow-up visits (dotted line) for all 9 trials. These figures are restricted to the subpopulation with both baseline and follow-up visits (N=27,314). Note that some trials enrolled participants with treated hypertension, which may account for normal seated blood pressure values at baseline.



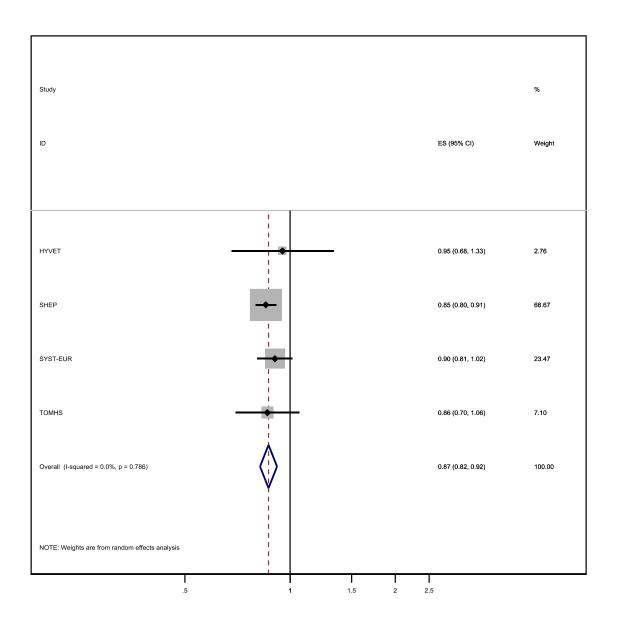
Supplementary Figure D. Two-stage meta-analysis of the effects of more intensive treatment on orthostatic hypertension. Individual effects were determined based on generalized estimating equations (binomial family, logit link, robust variance estimator). The pooled effect from the 9 trials were weighted with the inverse variance, using a random effects model.



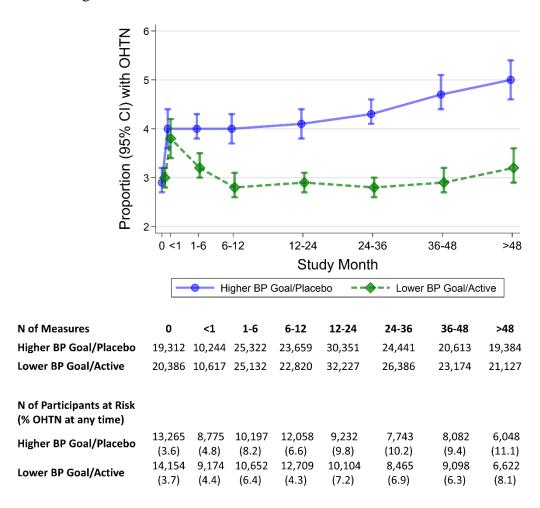
Supplementary Figure E. Two-stage meta-analysis of the effects of more intensive treatment on orthostatic hypertension. Individual effects were determined based on generalized estimating equations (binomial family, logit link, robust variance estimator). The pooled effect from the 5 trials comparing blood pressure treatment goals were weighted with the inverse variance, using a random effects model.



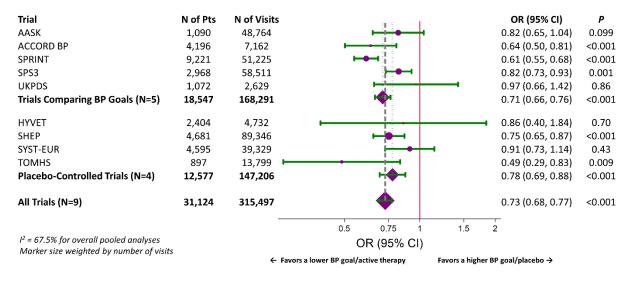
Supplementary Figure F. Two-stage meta-analysis of the effects of more intensive treatment on orthostatic hypertension. Individual effects were determined based on generalized estimating equations (binomial family, logit link, robust variance estimator). The pooled effect from the 4 trials comparing active therapy with placebo were weighted with the inverse variance, using a random effects model.



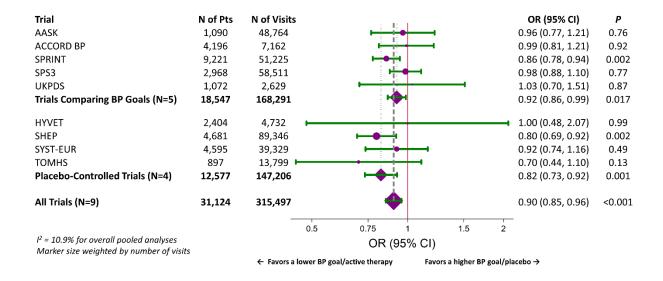
Supplementary Figure G. Proportion of participants with orthostatic hypertension (OHTN) based on the consensus definition by study month. The consensus definition for orthostatic hypertension combines an orthostatic change in systolic blood pressure of at least 20 mm Hg with a standing systolic blood pressure of ≥140 mm Hg. Follow-up visits were grouped together (month 0/prior randomization, <1 month, 1-6 months, 6-12 months, 12-24 months, 24-36 months, 36-48 months, and greater than 48 months). The lines represent the aggregate, pooled proportion across the 9 trials (circle, a higher blood pressure (BP) treatment goal/placebo; diamond, a lower BP treatment goal/active therapy). The vertical capped thick lines represent 95% confidence intervals (CI). Proportions were estimated via generalized estimating equations, using an unadjusted Poisson family, log link. The numbers in the table represent the measurements contributing to each proportion by time period. Note that some trials had multiple visits prior to randomization, which contributed to these models and may account for differences in the proportion of OHTN estimated via this approach, versus the descriptive estimate based on a single visit in Table 2. In addition, we report the number of unique participants at risk in each time period and the % with OHTN at any time during this time period. These proportions differ from the figure.



Supplementary Figure H Effects of blood pressure treatment (either a lower blood pressure treatment goal or active therapy versus a higher blood pressure treatment goal or placebo) on the occurrence of orthostatic hypertension, defined using the consensus definition, at the visit level, using generalized estimating equations to account for clustering by participant. The consensus definition for orthostatic hypertension combines an orthostatic change in systolic blood pressure of at least 20 mm Hg with a standing systolic blood pressure of ≥ 140 mm Hg. Circles represent odds ratios and horizontal lines represent 95% confidence intervals by study. Pooled effects (diamonds) are organized according to the 5 blood pressure treatment goal trials and the 4 placebo-controlled trials and overall. The size of each point estimate and pooled effect is weighted by the number of follow-up visits with orthostatic hypertension assessments. The I^2 statistic was determined based on a two-stage meta-analysis, used to assess trial heterogeneity.



Supplementary Figure I. Effects of blood pressure treatment (either a lower blood pressure treatment goal or active therapy versus a higher blood pressure treatment goal or placebo) on the occurrence of orthostatic hypertension, defined using the orthostatic change in systolic blood pressure of at least 20 mm Hg alone (regardless of change in diastolic blood pressure) at the visit level, using generalized estimating equations to account for clustering by participant. Circles represent odds ratios and horizontal lines represent 95% confidence intervals by study. Pooled effects (diamonds) are organized according to the 5 blood pressure treatment goal trials and the 4 placebo-controlled trials and overall. The size of each point estimate and pooled effect is weighted by the number of follow-up visits with orthostatic hypertension assessments. The I^2 statistic was determined based on a two-stage meta-analysis, used to assess trial heterogeneity.



	Random sequence generation	Allocation concealment	Blinding of participants and personnel*	Blinding of outcome assessment*	Incomplete outcome data**	Selective reporting
Trial Name Trials of Blood Pressu	(selection bias) ire Goal	(selection bias)	(performance bias)	(detection bias)	(attrition bias)	(reporting bias)
AASK	Low	Low	Unclear	Unclear	Low	Low
ACCORD BP	Low	Low	Unclear	Unclear	Low	Low
SPRINT	Low	Low	Unclear	Unclear	Low	Low
SPS3	Low	Low	Unclear	Unclear	Unclear	Low
UKPDS	Low	Low	Unclear	Unclear	Low	Low
Trials of Active Thera	py versus Placebo					
HYVET	Low	Low	Low	Low	Low	Low
SHEP	Low	Low	Low	Low	Unclear/Low	Low
SYST-EUR	Low	Low	Low	Low	Unclear	Low
TOMHS	Low	Low	Low	Low	Low	Low

^{*}The primary outcome of this meta-analysis was orthostatic hypertension, which was not a focus these trials. Thus, while the outcome was not blinded for participants or data assessors, it was not an outcome they were monitoring.

^{**}This was based on the degree of missing outcome data and reporting of attrition by treatment assignment (versus for the whole study). Updated from *Juraschek et al, Annals 2021* to reflect the outcome of the present study, orthostatic hypertension.

Supplementary Table B. Values corresponding to extreme percentiles in the combined dataset

	Perce	entile
Factor	0.01	99.99
Baseline body mass index, kg/m ²	13.70	78.36
Baseline estimated glomerular filtration rate, mL/min per 1.73 m ²	12.63	139.06
Baseline seated systolic blood pressure, mm Hg	80.00	238.00
Baseline seated diastolic blood pressure, mm Hg	6.00	141.00
Baseline standing systolic blood pressure, mm Hg	73.47	242.00
Baseline standing diastolic blood pressure, mm Hg	18.00	150.00
Seated systolic blood pressure (baseline and follow-up), mm Hg	75.00	242.00
Seated diastolic blood pressure (baseline and follow-up), mm Hg	13.00	143.00
Standing systolic blood pressure (baseline and follow-up), mm Hg	62.00	245.00
Standing diastolic blood pressure (baseline and follow-up), mm Hg	16.80	152.00

Supplementary Table C. Values corresponding to less extreme percentiles in the combined dataset

	Perc	entile
Factor	0.1	99.9
Baseline estimated glomerular filtration rate, mL/min per 1.73 m ²	16.52	128.96
Baseline body mass index, kg/m ²	16.41	54.80
Baseline seated systolic blood pressure, mm Hg	95.30	218.00
Baseline seated diastolic blood pressure, mm Hg	35.00	129.00
Baseline standing systolic blood pressure, mm Hg	86.00	224.00
Baseline standing diastolic blood pressure, mm Hg	40.00	138.00
Seated systolic blood pressure (baseline and follow-up), mm Hg	86.00	219.00
Seated diastolic blood pressure (baseline and follow-up), mm Hg	36.00	123.00
Standing systolic blood pressure (baseline and follow-up), mm Hg	80.00	221.00
Standing diastolic blood pressure (baseline and follow-up), mm Hg	37.03	130.00

Supplementary Table D. Participant characteristics with and those missing pre-randomization orthostatic hypertension

	With pre-randomization orthostatic hypertension		-	ore-randomization atic hypertension
Characteristic	N	Mean (SD) or %	N	Mean (SD) or %
Age, years	27310	68.3 (10.6)	3810	63.1 (7.8)
Age > 75 years, %	27310	27.5	3810	8.1
Women, %	27314	47.7	3810	45.5
Black, %	20318	26.6	3807	23.4
Pre-randomization seated SBP, mm Hg	27314	154.2 (21.4)	3674	141.1 (16.7)
Pre-randomization seated DBP, mm Hg	27314	81.5 (11.5)	3656	76.6 (10.7)
eGFR*, mL/min per 1.73 m ²	21340	70.3 (19.8)	3599	82.9 (18.5)
Stage III CKD*, %	26808	30.2	3734	13.3
Body mass index, kg/m ²	27149	28.6 (5.5)	3791	31.4 (5.7)
Obese, %	27149	33.1	3791	55.8
Diabetes, %	27312	16.3	3809	84.4
Prior stroke, %	25010	10.7	823	79.5
History of CVD, %	26219	12.9	3802	28.6

Note: the majority of participants without baseline orthostatic hypertension assessments were from the ACCORD trial due to late implementation of their standing blood pressure protocol. While these participants may not have contributed to the pre-randomization assessment, they did contribute to follow-up assessments

Abbreviations: CKD, chronic kidney disease; DBP, diastolic blood pressure; eGFR, estimated glomerular filtration rate; SBP, systolic blood pressure; SD, standard deviation

Supplementary Table E. Means (SE) blood pressure measurements before and after randomization

	Pre-randomization, N=	27,419 participants with	Post-randomization, N= 31,124 participants with 315,497 measurements		
	39,698 mea	asurements			
	Seated	Standing	Seated	Standing	
Systolic blood pressure					
Higher BP goal/Placebo Lower BP goal/Active	154.5 (0.18)	152.8 (0.18)	145.5 (0.13)	145.8 (0.13)	
Therapy	154.2 (0.18)	152.4 (0.18)	133.8 (0.13)	134.0 (0.12)	
Diastolic blood pressure					
Higher BP goal/Placebo Lower BP goal/Active	80.8 (0.10)	83.4 (0.10)	77.3 (0.08)	80.1 (0.08)	
Therapy	81.2 (0.09)	83.5 (0.10)	72.5 (0.07)	75.1 (0.08)	

Estimated via generalized estimating equations with a normal distribution, identity link, and robust variance estimator. Models were unadjusted.

There were 15,123 participants with 173,326 measurements assigned a lower BP goal/Active therapy and 16,001 participants with 181,869 measurements assigned a higher BP goal/Placebo.

Abbreviations: BP, blood pressure; SE, standard error

Supplementary Table F. The odds of orthostatic hypertension by follow-up time according to treatment assignment for all 9 trials (31,124 participants with 355,195 orthostatic hypertension assessments).

	Lower BP Goal/Active Therapy				Higher BP Goal/Pl	Interaction		
Follow-up time	Proportion with OHTN	Difference in Proportion	OR (95% CI)	Proportion with OHTN	Difference in Proportion	OR (95% CI)	OR (95% CI)	<i>P</i> - interaction
Pre-randomization	16.9	Ref	Ref	15.5	Ref	Ref	Ref	
≤1 month	18.9	2.0 (1.1 to 2.9)	1.16 (1.10 to 1.23)	19.1	3.7 (2.8 to 4.5)	1.02 (0.96 to 1.08)	1.14 (1.05 to 1.24)	0.001
>1 to ≤6 months	19.1	2.3 (1.6 to 2.9)	1.14 (1.08 to 1.19)	18.0	2.6 (1.9 to 3.2)	1.09 (1.04 to 1.14)	1.04 (0.98 to 1.12)	0.22
>6 to ≤12 months	18.1	1.3 (0.6 to 1.9)	1.03 (0.98 to 1.09)	16.2	0.8 (0.1 to 1.4)	1.05 (1.00 to 1.11)	0.98 (0.91 to 1.05)	0.61
>12 to ≤24 months	17.9	1.0 (0.3 to 1.7)	1.01 (0.96 to 1.06)	16.1	0.6 (-0.0 to 1.3)	1.02 (0.97 to 1.07)	0.99 (0.93 to 1.06)	0.82
>24 to ≤36 months	18.5	1.6 (0.8 to 2.3)	0.99 (0.94 to 1.05)	16.0	0.5 (-0.2 to 1.2)	1.04 (0.99 to 1.10)	0.95 (0.88 to 1.03)	0.20
>36 to ≤48 months	18.8	1.9 (1.1 to 2.7)	1.05 (0.99 to 1.11)	16.9	1.5 (0.7 to 2.2)	1.05 (0.99 to 1.11)	1.00 (0.93 to 1.08)	0.97
>48 months	18.9	2.0 (1.1 to 2.9)	1.05 (0.99 to 1.12)	17.2	1.8 (0.9 to 2.6)	1.04 (0.98 to 1.11)	1.01 (0.93 to 1.10)	0.86

Abbreviations: BP, blood pressure; CI, confidence interval; OHTN, orthostatic hypertension; OR, odds ratio

Note: There 15,123 participants assigned to a standard blood pressure treatment goal with 173,326 visits (including baseline), and 16,001 participants assigned to an intensive blood pressure treatment goal with 181,869 visits (including baseline). Effects were determined via generalized estimating equations using a binomial family logit link with a robust variance estimator with a visit-term in strata of assignment. Proportions and difference in proportions were unadjusted, while ORs were adjusted for study. An interaction term was used to a compare effects across visit times. In this table, an OR>1 indicates that orthostatic hypertension was more frequent than the pre-randomization period. Pre-randomization estimates were model-generated and are based on all available pre-randomization visits. As a result the estimates here differ slightly from the estimates presented in Table 2.

Supplementary Table G. Effects of treatment on orthostatic change in systolic or diastolic blood pressure

	N of			
	Measurements	β (95% CI), mm Hg	SE	P
BP Treatment Goal Trials, N=18,547				
ΔSBP, mm Hg	168291	0.24 (0.01 to 0.47)	0.12	0.04
ΔDBP, mm Hg	168291	-0.01 (-0.15 to 0.13)	0.07	0.91
Placebo-Controlled Trials, N=12,577				
ΔSBP, mm Hg	147206	-0.22 (-0.43 to -0.01)	0.11	0.04
ΔDBP, mm Hg	147206	-0.22 (-0.36 to -0.08)	0.07	0.002
All Trials, N=31,124				
ΔSBP, mm Hg	315497	0.04 (-0.12 to 0.21)	0.08	0.59
ΔDBP, mm Hg	315497	-0.09 (-0.20 to 0.01)	0.05	0.07

Effects were determined via generalized estimating equations using a normal family identity link with a robust variance estimator adjusted for study. The beta coefficient is the mean orthostatic change in blood pressure. Abbreviations: BP, blood pressure; CI, confidence intervals; DBP, diastolic blood pressure; SE, standard error; SBP, systolic blood pressure

Supplementary Table H. Effect of treatment on alternate definitions of orthostatic hypertension, using truncated percentiles to exclude extreme blood pressure values (0.1st and 99.9th)

	Lower BP Goal or Active Therapy, N of Visits	Higher BP Goal or Placebo, N of Visits		
Definition of OHTN (mm Hg)	(Exposure/No Exposure)	(Exposure/No Exposure)	OR (95% CI)	P
BP Treatment Goal Trials, N=18,547				
ΔSBP≥20 or ΔDBP≥10	19661/73224	19864/72124	0.96 (0.92 to 1.00)	0.03
ΔSBP≥20	5565/87643	5856/86377	0.92 (0.86 to 0.98)	0.01
ΔDBP≥10	17750/75544	17672/74511	0.97 (0.93 to 1.01)	0.12
ΔSBP≥20 & Standing SBP≥140 (recent				
consensus definition)	4201/89007	5352/86881	0.71 (0.66 to 0.76)	<0.001
Standing SBP≥140	26518/66859	45939/46348	0.31 (0.30 to 0.33)	<0.001
Placebo-Controlled Trials, N=12,577				
ΔSBP≥20 or ΔDBP≥10	11233/76633	12103/68225	0.88 (0.83 to 0.93)	<0.001
ΔSBP≥20	1488/86613	1713/78858	0.84 (0.75 to 0.94)	0.004
ΔDBP≥10	10529/77445	11337/69290	0.88 (0.83 to 0.94)	<0.001
ΔSBP≥20 & Standing SBP≥140 (recent				
consensus definition)	1361/86740	1663/78908	0.80 (0.71 to 0.90)	<0.001
Standing SBP≥140	50618/37517	65397/15311	0.30 (0.28 to 0.32)	<0.001
All Trials, N=31,124				
ΔSBP≥20 or ΔDBP≥10	30894/149857	31967/140349	0.93 (0.90 to 0.96)	<0.001
ΔSBP≥20	7053/174256	7569/165235	0.91 (0.85 to 0.96)	0.001
ΔDBP≥10	28279/152989	29009/143801	0.94 (0.90 to 0.97)	<0.001
ΔSBP≥20 & Standing SBP≥140 (recent				
consensus definition)	5562/175747	7015/165789	0.73 (0.69 to 0.78)	<0.001
Standing SBP≥140	77136/104376	111336/61659	0.31 (0.30 to 0.32)	<0.001

All numbers used in definition are in units of mm Hg.

Abbreviations: BP, blood pressure; CI, confidence interval; DBP, diastolic blood pressure; OR, odds ratio; SBP, systolic blood pressure Effects were determined via generalized estimating equations using a binomial family logit link with a robust variance estimator with adjustment for study.

Supplementary Table I. Subgroup analyses, using new consensus definition (all nine trials)

		N of			
	N of Pts	Visits	OR (95% CI)	P	P-Interaction
Age					
≤ 75 years	23298	252864	0.70 (0.65 to 0.75)	< 0.001	0.91
>75 years	7822	62559	0.69 (0.61 to 0.79)	< 0.001	
Sex					
Men	16365	168933	0.66 (0.60 to 0.72)	< 0.001	0.04
Women	14759	146564	0.75 (0.68 to 0.82)	< 0.001	
Race					
Non-Black	17833	180418	0.67 (0.62 to 0.73)	< 0.001	0.19
Black	6292	91018	0.74 (0.66 to 0.83)	< 0.001	
Pre-randomization SBP ≥130 or DBP ≥80 mm Hg*					
No	3669	31396	0.65 (0.56 to 0.77)	< 0.001	0.34
Yes	27327	281881	0.71 (0.66 to 0.76)	< 0.001	
Diabetes					
No	23446	269158	0.67 (0.63 to 0.72)	< 0.001	0.05
Yes	7675	46320	0.78 (0.69 to 0.89)	< 0.001	
Prior Stroke					
No	22513	198317	0.66 (0.61 to 0.71)	< 0.001	0.003
Yes	3320	61224	0.81 (0.72 to 0.91)	0.001	
Estimated GFR					
\geq 60 mL/min per 1.73 m ²	21959	199587	0.70 (0.65 to 0.75)	< 0.001	0.97
< 60 mL/min per 1.73 m ²	8583	106563	0.70 (0.62 to 0.79)	< 0.001	
Body Mass Index					
<30 kg/m ²	19849	205648	0.73 (0.67 to 0.80)	<0.001	0.10
≥30 kg/m²	11091	108118	0.66 (0.60 to 0.72)	<0.001	
History of CVD	11031	100110	0.00 (0.00 to 0.72)	10.001	
No	25548	237618	0.71 (0.66 to 0.76)	<0.001	0.09
Yes	4473	28849	0.61 (0.51 to 0.72)	<0.001	0.00
Standing SBP Just Prior Randomization*		200 .0	0.01 (0.01 to 0.7 1)		
<140 mm Hg	26842	285204	0.70 (0.65 to 0.74)	<0.001	0.07
≥140 mm Hg	511	6153	1.20 (0.69 to 2.08)	0.53	
Pre-randomization OHTN (consensus definition)*			,		
No	26451	281482	0.69 (0.65 to 0.74)	<0.001	0.86
Yes	863	9139	0.70 (0.57 to 0.88)	0.002	

The consensus definition for orthostatic hypertension combines an orthostatic change in systolic blood pressure of at least 20 mm Hg with a standing systolic blood pressure of ≥140 mm Hg. Effects were determined via generalized estimating equations using a binomial family logit link with a robust variance estimator in strata of baseline covariates with adjustment for study. Models were restricted to follow-up visits and included an interaction term between the low

goal assignment and the stratum of interest.

*Based on visit in closest temporal proximity to randomization.

Abbreviations: CI, confidence interval; CVD, cardiovascular disease; DBP, diastolic blood pressure; GFR, glomerular filtration rate; OHTN, orthostatic hypertension; OR, odds ratio; SBP, systolic blood pressure

Supplementary Table J. Effect of more intensive treatment on orthostatic hypertension, stratified by pre-specified subgroups, truncated at the 0.1st and 99.9th percentiles (all nine trials)

· · ·	<u>-</u>				P-
	N of Pts	N of Visits	OR (95% CI)	P	Interaction
Age					
≤ 75 years	23289	251430	0.90 (0.86 to 0.93)	< 0.001	0.73
>75 years	7819	62111	0.88 (0.82 to 0.95)	0.001	
Sex					
Men	16359	167992	0.92 (0.88 to 0.97)	0.001	0.05
Women	14753	145623	0.86 (0.82 to 0.91)	< 0.001	
Race					
Non-Black	17827	179562	0.86 (0.83 to 0.90)	< 0.001	0.002
Black	6289	90117	0.97 (0.91 to 1.04)	0.39	
Pre-randomization SBP ≥130 or DBP ≥80 mm Hg*					
No	3665	31229	0.95 (0.86 to 1.04)	0.23	0.20
Yes	27319	280198	0.89 (0.86 to 0.92)	< 0.001	
Diabetes					
No	23440	267526	0.88 (0.85 to 0.92)	< 0.001	0.07
Yes	7669	46070	0.96 (0.88 to 1.03)	0.25	
Prior Stroke					
No	22505	197325	0.87 (0.83 to 0.90)	<0.001	0.05
Yes	3320	61006	0.95 (0.87 to 1.03)	0.21	
Estimated GFR					
\geq 60 mL/min per 1.73 m ²	21931	198555	0.89 (0.86 to 0.93)	< 0.001	0.67
< 60 mL/min per 1.73 m ²	8566	105252	0.91 (0.85 to 0.97)	0.003	
Body Mass Index					
<30 kg/m ²	19808	204137	0.89 (0.85 to 0.93)	<0.001	0.83
≥30 kg/m²	11056	107063	0.90 (0.85 to 0.95)	<0.001	
History of CVD			,		
No	25541	236557	0.88 (0.85 to 0.92)	< 0.001	0.64
Yes	4468	28687	0.90 (0.82 to 0.99)	0.03	
Standing SBP Just Prior Randomization					
<140 mm Hg	26808	283159	0.89 (0.86 to 0.92)	< 0.001	0.82
≥140 mm Hg	491	5724	0.91 (0.70 to 1.19)	0.49	
Pre-randomization OHTN (primary definition)					
No	22672	235334	0.89 (0.86 to 0.93)	< 0.001	0.25
Yes	4523	51852	0.94 (0.87 to 1.00)	0.07	

Effects were determined via generalized estimating equations using a binomial family logit link with a robust variance estimator in strata of baseline covariates with adjustment for study. Models were restricted to follow-up visits and included an interaction term between the low goal assignment and the stratum of interest.

Abbreviations: CI, confidence interval; CVD, cardiovascular disease; DBP, diastolic blood pressure; GFR, glomerular filtration rate; OHTN, orthostatic hypertension; OR, odds ratio; SBP, systolic blood pressure

^{*}Based on visit in closest temporal proximity to randomization.