

**The effect of antihypertensive treatment on headache and blood pressure variability in
randomised controlled trials: a systematic review**

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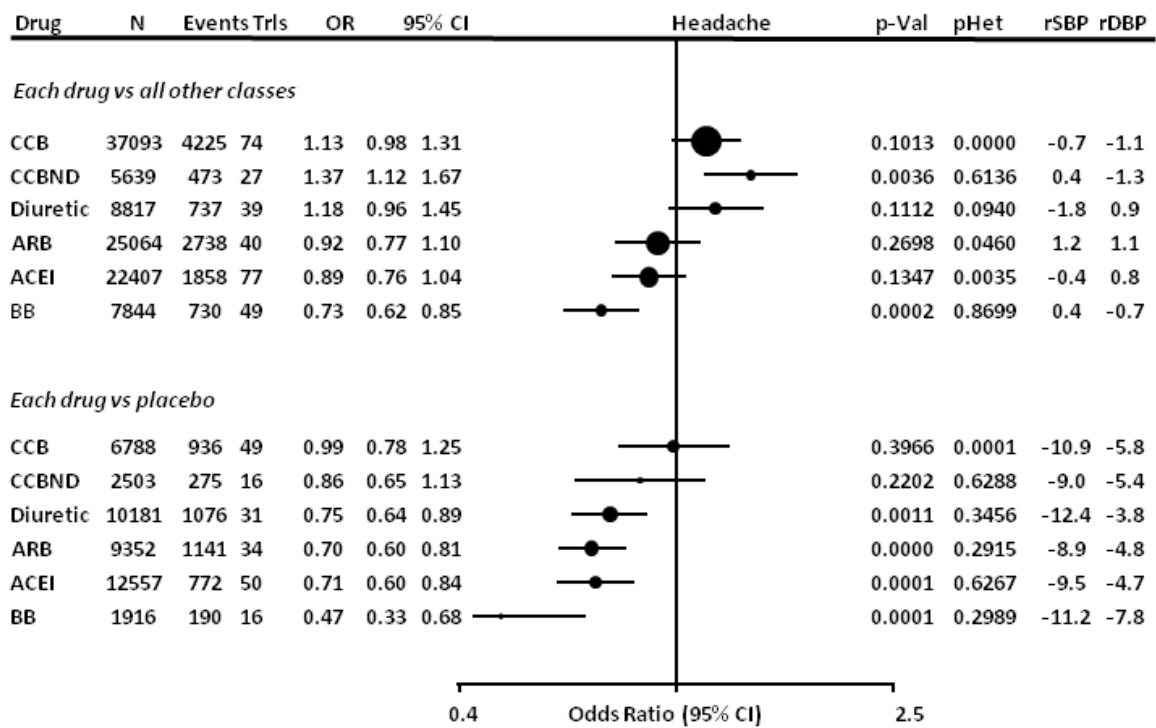
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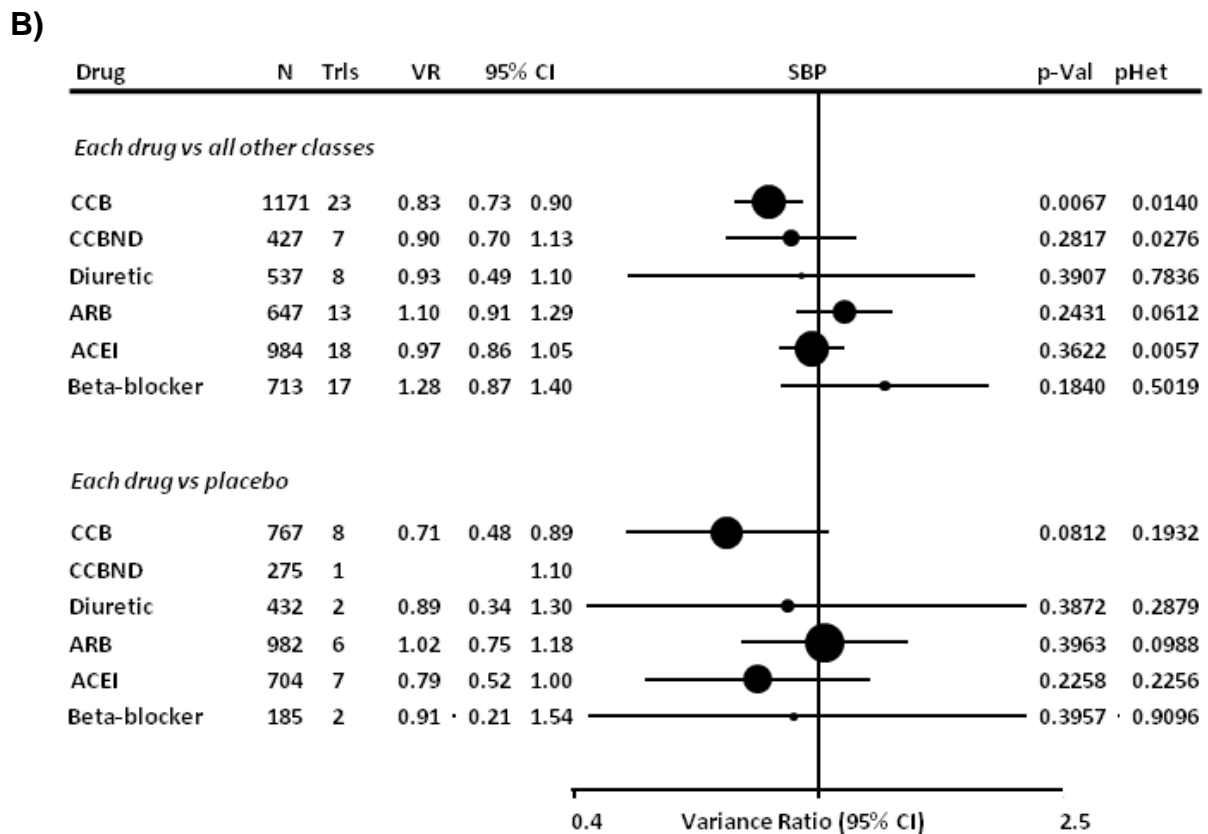
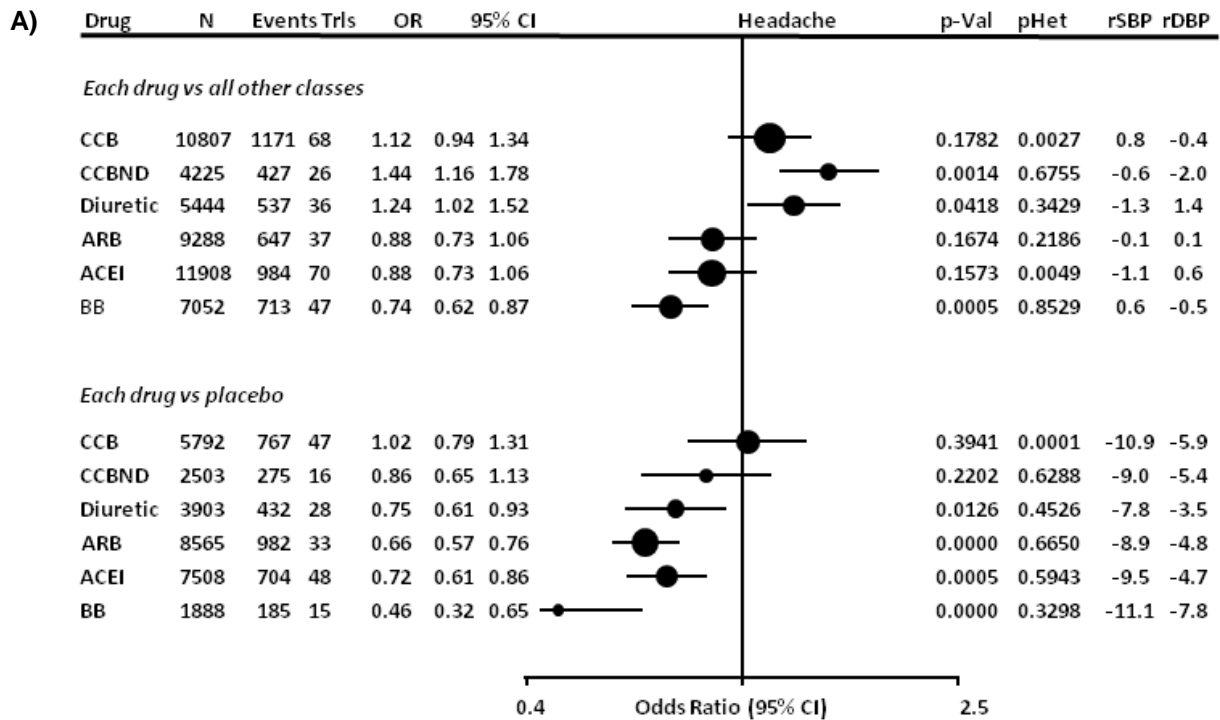
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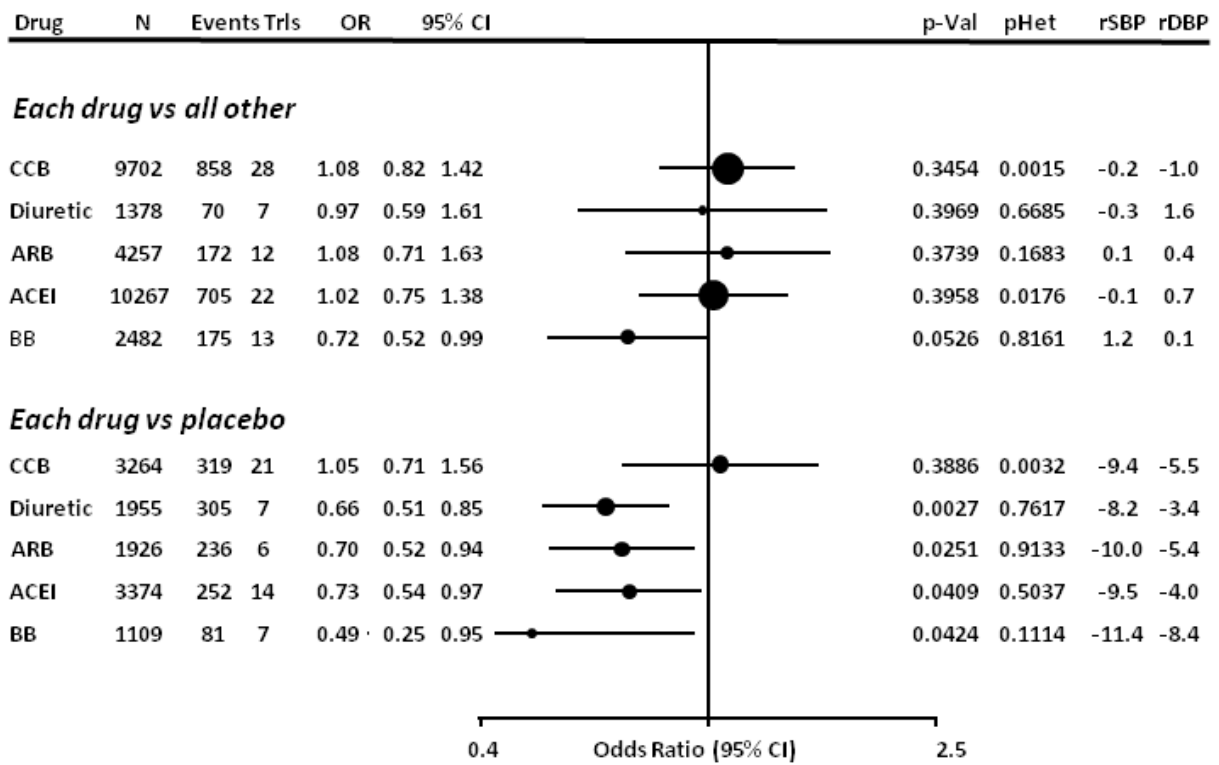
Webfigure 1. Effect of class of antihypertensive agent on incidence of headache compared to other antihypertensive classes or placebo, different CCB classes analysed separately



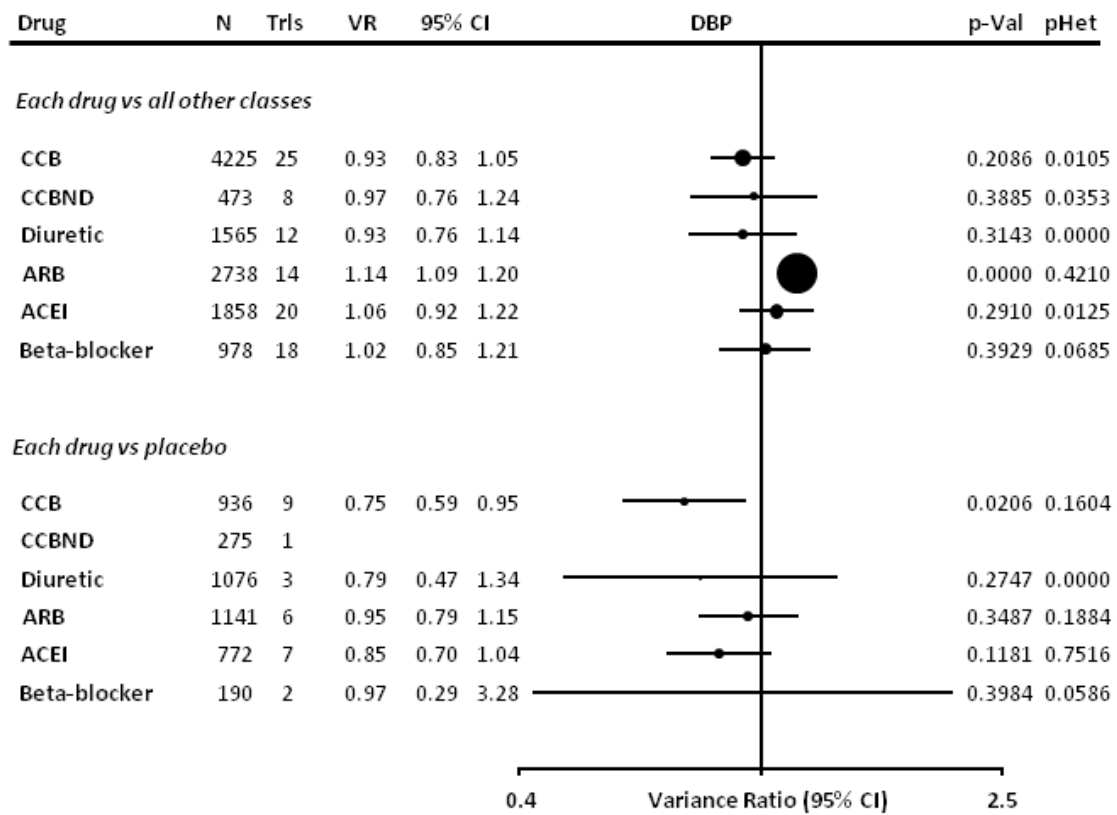
Webfigure 2. Effect of class of antihypertensive agent on incidence of headache and variability in SBP compared to other antihypertensive classes or placebo, limited to trials of 26 weeks duration or less. A) Effect on incidence of headache. B) Effect on variability in SBP.



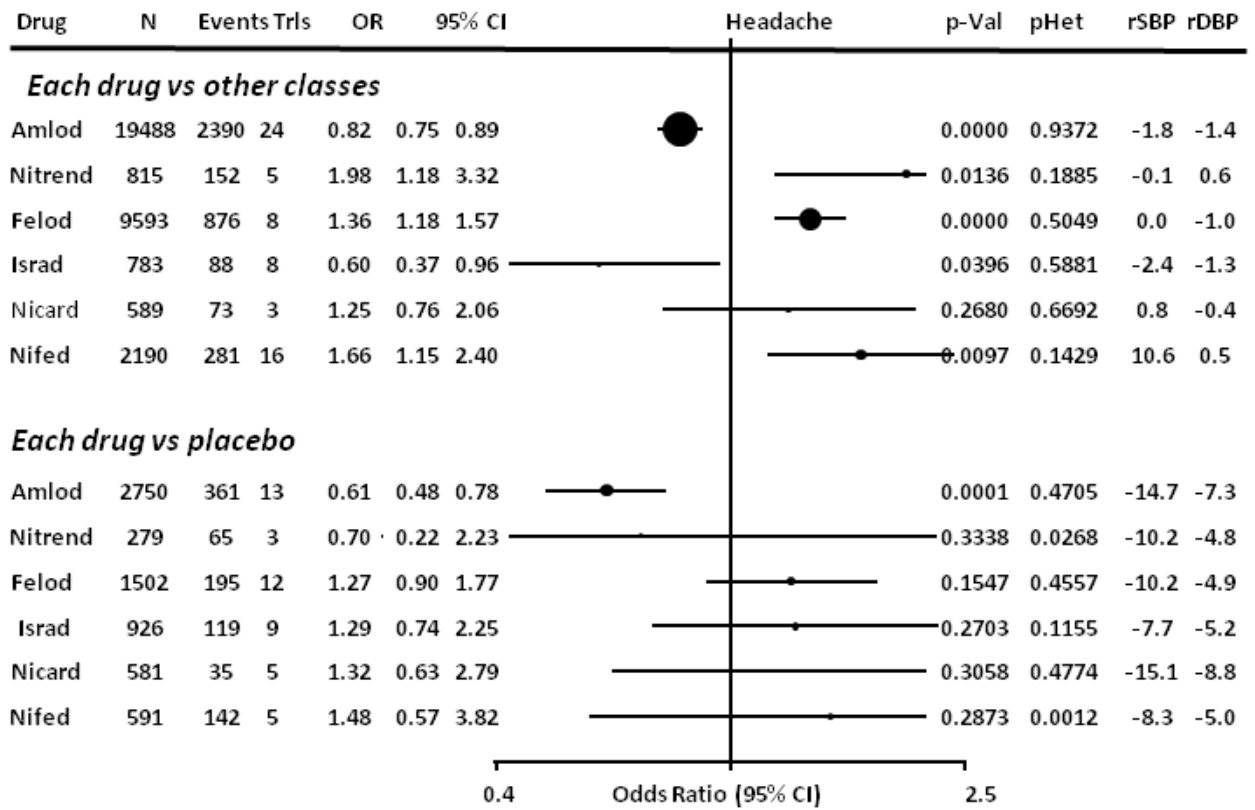
Webfigure 3. Effect of class of antihypertensive agent on incidence of headache compared to other antihypertensive classes or placebo in trials reporting the incidence of new-onset headache or headache felt to be drug-related.



Webfigure 4. Effect of class of antihypertensive agent on difference in variability in DBP at follow-up compared to other antihypertensive classes or placebo.

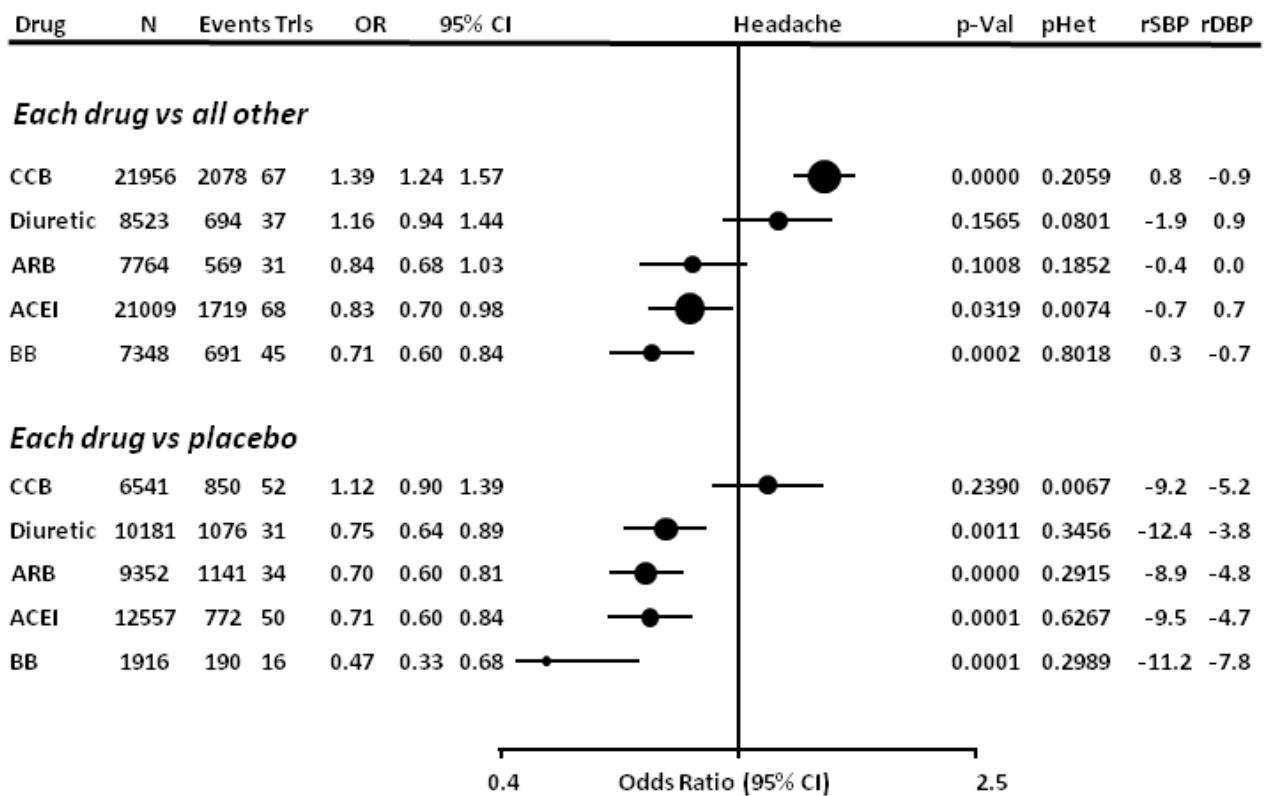


Webfigure 5. Effect of different non-dihydropyridine calcium channel blockers on on incidence of headache compared to other antihypertensive classes or placebo.

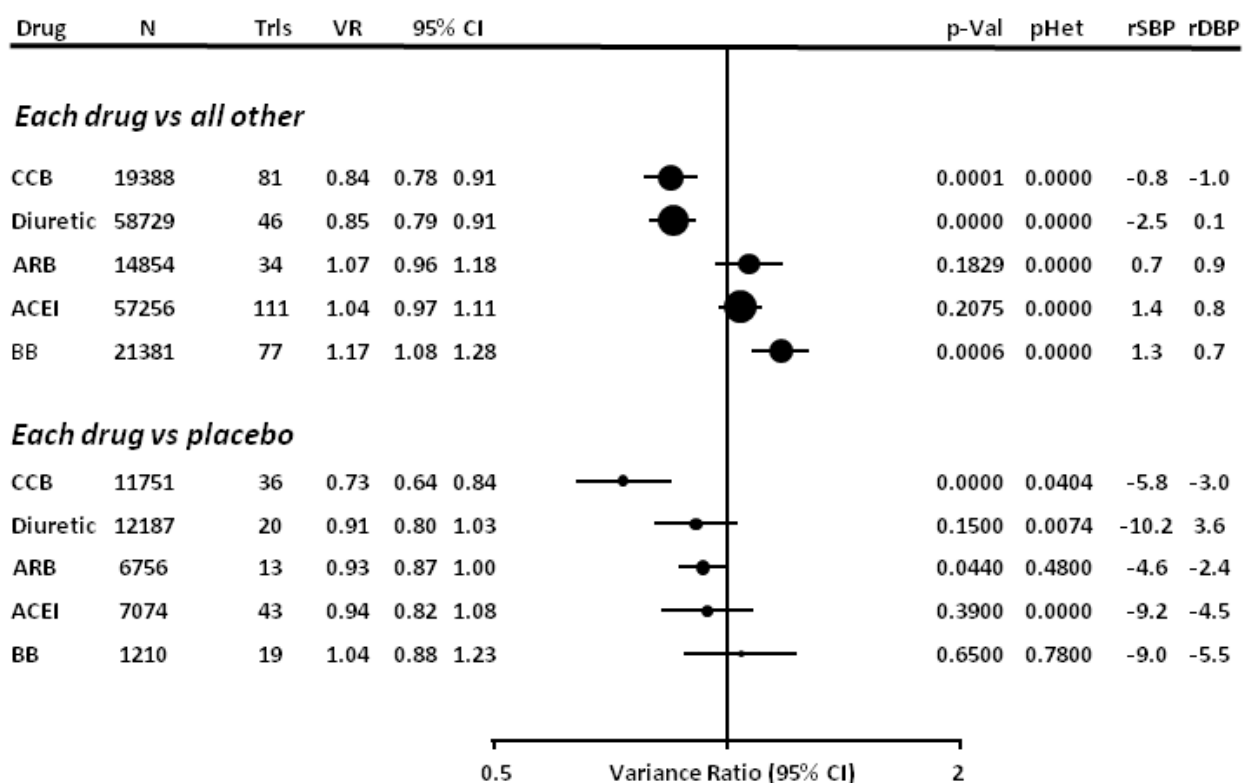


Webfigure 6. Effect of class of antihypertensive agent on incidence of headache and variability in SBP compared to other antihypertensive classes or placebo, excluding amlodipine. A) Effect on incidence of headache. B) Effect on variability in SBP.

A)



B)



Webtable 1. Trials included in meta-analyses.

	Reference	Name	VR	OR
1.	ABC et al. Evaluation of candesartan cilexetil in black patients with systemic hypertension: the ABC Trial. <i>Heart Dis.</i> 2000; 2: 392			X
2.	Aberg et al. Different long-term metabolic effects of enalapril and atenolol in patients with mild hypertension. EGTA Group. <i>J Hum Hypertens</i> 1995; 9.2: 149		X	
3.	Acbay et al. Effects of low-dose losartan treatment on persistent microalbuminuria in normotensive type 1 diabetic subjects. <i>J Endocrinol Invest</i> 2001; 24: 608		X	
4.	Agabiti-Rosei et al. Cardiovascular structural changes and calcium antagonist therapy in patients with hypertension. <i>J Cardiovasc Pharmacol</i> 1994; 24 S A: S37		X	X
5.	Agabiti-Rosei et al. Efficacy and tolerability of moexipril and nitrendipine in postmenopausal women with hypertension. MADAM study group. Moexipril as Antihypertensive Drug After Menopause. <i>Eur J Clin Pharmacol</i> 1999; 55: 185		X	
6.	Agabiti-Rosei et al. Evaluation of the Efficacy and Tolerability of Nebivolol versus Lisinopril in the Treatment of Essential Arterial Hypertension: A Randomized, Multicentre, Double-blind Study <i>Blood Press</i> 2003; 12 s 1: 30		X	
7.	Agardh et al. Greater reduction of urinary albumin excretion in hypertensive type II diabetic patients with incipient nephropathy by lisinopril than by nifedipine. <i>J Hum Hypertens</i> 1996; 10: 185		X	X
8.	Ahmad et al. Effect of 5-year enalapril therapy on progression of microalbuminuria and glomerular structural changes in type 1 diabetic subjects. <i>Diabetes Clin Res</i> 2003; 60: 131		X	
9.	Ahmad et al. Effective postponement of diabetic nephropathy with enalapril in normotensive type 2 diabetic patients with microalbuminuria. <i>Diabetes Care</i> 1997; 20: 1576		X	
10.	Albergati et al. Comparison of the effects of carvedilol and nifedipine in patients with essential hypertension and non-insulin dependent diabetes mellitus. <i>J Cardiovasc Pharmacol</i> 1998; 19: 86		X	
11.	ALLHAT Investigators. Diuretic Versus alpha-Blocker as First-Step Antihypertensive Therapy: Final Results From the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT) <i>Hypertension</i> 2003; 42: 239	ALLHAT I	X	
12.	ALLHAT investigators. Major outcomes in high-risk hypertensive patients randomized to angiotensin-converting enzyme inhibitor or calcium channel blocker vs diuretic: The Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT). <i>JAMA</i> 2002; 288: 2981	ALLHAT II	X	
13.	Amery et al. Mortality and morbidity results from the European Working Party on High Blood Pressure in the Elderly trial. <i>Lancet</i> 1985; 1: 1349	EWPHE	X	
14.	Andersson et al. The antihypertensive effect and tolerability of candesartan cilexetil, a new generation angiotensin II antagonist, in comparison with losartan <i>Blood Press</i> 1998; 7: 53		X	X
15.	Apperloo et al. Differential effects of enalapril and atenolol on proteinuria and renal haemodynamics in non-diabetic renal disease. <i>BMJ</i> 1991; 303: 821		X	
16.	Applegate et al. A randomized controlled trial of the effects of three antihypertensive agents on blood pressure control and			X

quality of life in older women. <i>Arch Intern Med.</i> 1991; 151: 1817		
17. Applegate et al. Evaluation of blood pressure response to the combination of enalapril (single dose) and diltiazem ER (four different doses) in systemic hypertension. <i>Am J Cardiol</i> 1996; 78: 51	X	
18. Armentano et al. Mechanical vs intrinsic components in the improvement of brachial arterial compliance. Comparison of the effects of atenolol versus ramipril in hypertensive patients <i>Medicina (B Aires)</i> 2001; 61 5.1: 535	X	
19. Arora et al. Assessment of left ventricular changes in systemic hypertension--before and after therapy. <i>Indian Heart J</i> 1984; 36: 155	X	
20. Asmar et al. Effect of bisoprolol on blood pressure and arterial hemodynamics in systemic hypertension. <i>Am J Cardiol</i> 1991; 68: 61	X	
21. Asselbergs et al. Effects of fosinopril and pravastatin on cardiovascular events in subjects with microalbuminuria <i>Circulation</i> 2004; 110: 2809	X	
22. Aurell et al. Enalapril versus metoprolol in primary hypertension--effects on the glomerular filtration rate. <i>Nephrol Dial transplant</i> 1997; 12: 2289	X	
23. Baez et al. Antihypertensive effect of doxazosin in hypertensive patients: comparison with atenolol. <i>Br J Clin Pharmacol</i> 1986; 21 s 1: 63S	X	X
24. Bahena et al. Quinapril versus atenolol in the treatment of mild to moderate essential hypertension. <i>Clin Ther</i> 1992; 14: 527	X	X
25. Bainbridge et al. The antihypertensive efficacy and tolerability of a low dose combination of ramipril and felodipine ER in mild to moderate essential hypertension. <i>Br J Clin Pharmacol.</i> 1993; 36: 323		X
26. Bakris et al. <i>Bakris Kidney Int</i> 1998; 54: 1283	X	
27. Bakris et al. Differences in glucose tolerance between fixed-dose antihypertensive drug combinations in people with metabolic syndrome. <i>Diabetes Care</i> 2006; 29: 2592	X	
28. Barenbrock et al. Effect of lisinopril and metoprolol on arterial distensibility. <i>Hypertension</i> 1994; 23: 161	X	
29. Beevers et al. Comparison of lisinopril versus atenolol for mild to moderate essential hypertension <i>Am J Cardiol.</i> 1991; 67.1: 59		X
30. Bell et al. Effective dose range of candesartan cilexetil for systemic hypertension. Candesartan Cilexetil Study Investigators. <i>Am J Cardiol.</i> 1999; 83: 272		X
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33. Berglund et al. Low Doses of Hydrochlorothiazide in Hypertension. Antihypertensive and Metabolic Effects. <i>Eur J Clin Pharmacol</i> 1976; 10: 177	X	
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dose-ranging study <i>J Clin Pharmacol</i> .1991; 31: 144		
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63. Chalmers et al. Long-term efficacy of a new, fixed, very-low-dose angiotensin-converting enzyme-inhibitor/diuretic combination as first-line therapy in elderly hypertensive patients. <i>J Hypertens</i> 2000; 18: 327	X	
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essential hypertension. <i>Am J Hypertens</i> .1998; 11: 23			
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