Table 1: Summary of search and abstract review results

Source	Search Strategy	Date	Number of Citations			
			Retrieved	Unique (included in abstract review process)	Eligible for Second Level Abstract Review	Eligible for Article Review Process
PubMed	PubMed	Jan 11, 2001	4,426	4,426	843	529
CENTRAL Issue 1 2001	CENTRAL	Feb 15, 2001	1,382	232	9	6
HealthSTAR	HealthSTAR	Feb 16, 2001	34	34	0	0
PubMed	PubMed	Mar 23, 2001	162	160	50	33
Handsearch	table of contents of priority journals	to May 31, 2001	9	NA	6	6
Handsearch	reference lists of key reviews	July 20, 2001	181	NA	29	22
		TOTAL	**6,194**	**4,852**	**937**	**596**

Table 2: Reasons for exclusion at article review level (n=252)

Reason for Exclusion	Number of Articles (percent of excluded)
article did not include human data	0 (0%)
article was not in English	2 (0.8%)
article contained no original data	12 (4.8%)
meeting abstract (no full article for review)	1 (0.4%)
article did not apply to any of the research questions	34 (14%)
article did not include ambulatory or self-measured blood pressure	5 (2%)
article had ≤50 patients or addressed reproducibility and had ≤20 patients	3 (1.2%)
device evaluation was the primary purpose of the study	3 (1.2%)
study population was exclusively pregnant women	18 (7%)
study population was exclusively children (< 20 years of age)	13 (5.2%)
article addressed research question but did not present data in abstractable format	17 (6.7%)
article addressed only the prevalence of dipping versus non-dipping and no other research questions	6 (2.4%)
other reasons (e.g., duplicate publication)	22 (8.8%)
Exclusions specific to articles only addressing Question #1	
article provided data for clinic blood pressure AND ambulatory blood pressure, or clinic blood pressure AND self-measured blood pressure but did not include a formal within-person comparison of measurements (e.g. no p-value, standard error, standard deviation, confidence intervals or only correlation coefficient(s) provided)	34 (14%)
clinic blood pressure measurement used in analyses was completed on one day only	60 (24%)
Exclusions specific to articles only addressing Questions #2a and #3a	
article described cross-sectional/retrospective study and did not include comparison with clinic measurement	13 (5%)
article described cross-sectional study but outcome was not left ventricular mass (by echocardiography) or proteinuria/albuminuria	9 (3.6%)
	252

Table 3: Number of significant associations / number of number of studies, by outcome and type of BP measurement (clinic BP; day, night and 24 hr ABP, systolic and diastolic; WCH and Dipping Status)

	Systolic BP				Diastolic BP				ABP Patterns	
	Clinic	Day	Night	24 Hr	Clinic	Day	Night	24 Hr	WCH	Dipping
Total mortality	0/2	0/2	1/2	1/2	0/1	0/1	0/1	0/1	0	2/2
CVD mortality	0/3	1/3	2/3	1/3	1[a]/2	1/2	0/2	0/2	0	1/2
CVD morbidity and mortality	2/4	3/4	2/2	4/4	1/2	1/2	1/1	1/1	1/1	3/3
Stroke	0/2	2/2	2/2	2/2	0/1	1/1	1/1	0	1/1	3/3
Cardiac morbidity and mortality	0/1	1/1	1/1	1/1	0	0	0	0	1/1	0
Dialysis	0	0	0	0	0	0	0	0	0	1/1

[a] Significant inverse association