Table S1: Schedule of assessments for included studies

	Summary of ABPM and PWV assessments						
	1	2	3	4	5		
Parallel design	gn, randomised controll	ed trials					
MARINA	Baseline ABPM and	Midpoint ABPM at	End-of-study ABPM	-	-		
	PWV	6 months	and PWV at 12 months				
CRESSIDA	First baseline ABPM	Second baseline 2	Midpoint ABPM	Midpoint ABPM	End-of-study ABPM		
		ABPM and PWV	4-6 weeks after second	8 weeks after second	and PWV		
		23 ± 16 days after first	baseline	baseline	12 weeks after second		
		baseline			baseline		
Randomised	, placebo-controlled cro	ssover					
Fruit & Veg	Baseline ABPM and	Intervention A:	Intervention B:	Intervention C: ABPM	Intervention D:		
	PWV	ABPM and PWV	ABPM and PWV	and PWV	ABPM and PWV		
		6 weeks after baseline	17 weeks after baseline	28 weeks after baseline	39 weeks after baseline		

ABPM: ambulatory blood pressure monitoring, PWV: pulse wave velocity

Table S2: Mean values of sequential ABPM measurements for each study arm.

Sequential ABPM Measurements								
	1	2	3	4	5	P		
CRESSIE	DA							
Control (1	n=81)							
$SBP_{day} \\$	127.2 ± 12.4	126.8 ± 12.8	126.8 ± 12.8	128.0 ± 12.8	128.8 ± 13.2	0.223		
$SBP_{night} \\$	109.8 ± 14.5	109.7 ± 13.4	109.3 ± 13.4	109.7 ± 12.9	109.3 ± 11.4	0.979		
$DBP_{day} \\$	77.4 ± 7.9	77.0 ± 7.8	77.4 ± 8.2	77.5 ± 8.2	77.8 ± 8.2	0.695		
DBP _{night}	64.6 ± 8.9	68.0 ± 9.1	67.5 ± 10.4	66.9 ± 9.6	66.6 ± 9.5	0.015*		
Dietary G	Dietary Guidance (n= 78)							
SBP_{day}	124.3 ± 13.5	125.3 ± 14.4	124.1 ± 13.1	124.1 ± 14.0	122.7 ± 13.7	0.185		
SBP_{night}	105.2 ± 12.9	105.9 ± 13.7	104.2 ± 11.9	104.5 ± 12.1	104.0 ± 12.8	0.386		
$\mathrm{DBP}_{\mathrm{day}}$	75.9 ± 7.6	76.5 ± 7.9	76.1 ± 7.5	76.0 ± 7.4	74.8 ± 7.3	0.102		
$DBP_{night} \\$	62.9 ± 8.4	65.3 ± 9.5	64.4 ± 9.0	64.7 ± 8.6	64.1 ± 9.7	0.105		
MARINA								
Placebo (1	n= 66)							
SBP_{day}	133.6 ± 11.9	135.9 ± 15.0	131.8 ± 13.8	-	-	0.021^{\dagger}		
SBP_{night}	111.0 ± 12.7	111.3 ± 13.3	110.5 ± 14.6	-	-	0.855		
$\mathrm{DBP}_{\mathrm{day}}$	81.2 ± 6.9	81.7 ± 8.6	79.3 ± 7.3	-	-	0.031		
$DBP_{night} \\$	66.1 ± 7.7	65.2 ± 7.0	65.2 ± 9.1	-	-	0.584		
0.45g/day	(n=76)							
SBP _{day}	129.6 ± 12.8	128.1 ± 11.8	130.0 ± 11.8	-	-	0.204		
SBP _{night}	107.8 ± 11.1	107.5 ± 12.9	108.3 ± 12.4	-	_	0.803		
$\mathrm{DBP}_{\mathrm{day}}$	77.8 ± 7.0	77.8 ± 6.9	78.8 ± 7.4	-	_	0.374		
$\mathrm{DBP}_{\mathrm{night}}$	63.9 ± 7.0	62.4 ± 7.0	64.8 ± 7.9	-	-	0.015 [‡]		
0.9g/day (n = 74)								

SBP _{day}	132.3 ± 12.3	132.5 ± 11.8	132.1 ± 13.5	-	-	0.958	
$SBP_{night} \\$	112.3 ± 15.5	110.6 ± 15.0	111.6 ± 13.5	-	-	0.416	
$DBP_{day} \\$	80.2 ± 7.8	80.6 ± 6.8	79.9 ± 6.9	-	-	0.697	
$DBP_{night} \\$	66.3 ± 7.6	65.6 ± 8.0	66.1 ± 6.7	-	-	0.678	
1.8g/day (n = 77)							
$SBP_{day} \\$	129.2 ± 13.0	130.0 ± 12.6	128.6 ± 11.9	-	-	0.438	
$SBP_{night} \\$	108.0 ± 13.7	106.2 ± 14.0	105.8 ± 12.4	-	-	0.165	
$DBP_{day} \\$	79.0 ± 6.8	79.5 ± 6.5	79.8 ± 7.5	-	-	0.575	
$DBP_{night} \\$	64.5 ± 7.5	62.3 ± 7.2	62.7 ± 7.2	-	-	0.016^{\parallel}	
Fruit & Veg (n =48)							
$SBP_{day} \\$	138.6 ± 14.0	139.5 ± 12.7	139.4 ± 13.1	136.7 ± 12.5	137.8 ± 14.1	0.287	
$SBP_{night} \\$	116.7 ± 14.1	119.1 ± 16.7	119.1 ± 14.5	115.8 ± 14.3	118.4 ± 15.5	0.295	
$DBP_{day} \\$	87.6 ± 7.4	87.9 ± 8.2	87.3 ± 7.9	86.5 ± 7.4	86.7 ± 9.6	0.604	
$DBP_{night} \\$	70.6 ± 8.0	69.9 ± 7.8	72.3 ± 8.3	72.2 ± 10.4	71.3 ± 9.5	0.274	

^{*} Post-hoc pairwise comparison with Bonferroni method shows no significant difference in ABPM 1 vs ABPM 5 (P = 0.942).

- † Post-hoc pairwise comparison with Bonferroni method shows no significant difference in ABPM 1 vs ABPM 3 (P = 0.360)
- ‡ Post-hoc pairwise comparison with Bonferroni method shows no significant difference in ABPM 1 vs ABPM 3 (P = 0.790)
- \parallel Post-hoc pairwise comparison with Bonferroni method shows no significant difference in ABPM 1 vs ABPM 3 (P=0.105)

Values represent means \pm standard deviation. P < 0.05 highlighted in bold.

SBP: systolic blood pressure, DBP: diastolic blood pressure, ABPM: ambulatory blood pressure monitoring

Table S3: Multivariable linear regression showing associations between variability of ambulatory blood pressures to mean blood pressure and demographic risk factors, including sleep duration.

_	SBP _{night} SD		DBP _{night} SD	
	β	P	β	P
Age (years)	0.126	0.096	0.137	0.080
Sex (male/female)	0.019	0.777	0.045	0.520
Ethnicity (white/other)	0.102	0.135	0.068	0.336
BMI (kg/m ²)	0.180	0.010	0.228	0.002
PWV (m/s)	-0.121	0.127	-0.091	0.266
Mean SBP _{night} (mmHg)	0.489	< 0.001	0.643	0.521
Mean DBP _{night} (mmHg)	-0.068	0.601	0.257	0.056
Mean sleep duration (minutes)	-0.045	0.482	-0.094	0.160

 β : standardised regression coefficient. SD: standard deviation (measure of blood pressure variability), BMI: body mass index, PWV: pulse wave velocity, SBP: systolic blood pressure, DBP: diastolic blood pressure. P < 0.05 highlighted in bold.