



THE UNIVERSITY *of* EDINBURGH

Edinburgh Research Explorer

Regular acetaminophen use and blood pressure in people with hypertension The PATH-BP Trial

Citation for published version:

MacIntyre, I, Turtle, EJ, Farrah, TE, Graham, C, Dear, JW, Webb, DJ, for the PATH-BP (Paracetamol in Hypertension–Blood Pressure) Investigators, Melville, V & Caparrotta, TM 2022, 'Regular acetaminophen use and blood pressure in people with hypertension The PATH-BP Trial', *Circulation*.
<https://doi.org/10.1161/CIRCULATIONAHA.121.056015>

Digital Object Identifier (DOI):

[10.1161/CIRCULATIONAHA.121.056015](https://doi.org/10.1161/CIRCULATIONAHA.121.056015)

Link:

[Link to publication record in Edinburgh Research Explorer](#)

Document Version:

Publisher's PDF, also known as Version of record

Published In:

Circulation

General rights

Copyright for the publications made accessible via the Edinburgh Research Explorer is retained by the author(s) and / or other copyright owners and it is a condition of accessing these publications that users recognise and abide by the legal requirements associated with these rights.

Take down policy

The University of Edinburgh has made every reasonable effort to ensure that Edinburgh Research Explorer content complies with UK legislation. If you believe that the public display of this file breaches copyright please contact openaccess@ed.ac.uk providing details, and we will remove access to the work immediately and investigate your claim.



SUPPLEMENTAL MATERIAL

<i>PATH-BP list of authors and investigators</i>	<i>2</i>
<i>Figure S1. Study design</i>	<i>4</i>
<i>Table S1. Baseline data for those that completed both arms of the study.....</i>	<i>5</i>
<i>Figure S2. Placebo-corrected change in systolic daytime ambulatory blood pressure from baseline.</i>	<i>6</i>
<i>Figure S3. Placebo-corrected change in clinic blood pressure from baseline</i>	<i>7</i>

PATH-BP list of authors and investigators

Authors

Iain M. MacIntyre^{1,2} PhD

Emma J. Turtle² MD

Tariq E. Farrah^{1,2} MBChB

Catriona Graham³ MSc

James W. Dear² PhD

David J. Webb² DSc

Study Investigators

Morag McCallum² RN

Vanessa Melville² RN

Henry Fok² PhD

Jame C. McCrae² PhD

Ashish Sule² MD

Thomas M. Caparrotta² MBBCh

Sample analysis

Nicholas S. Kirkby⁴ PhD

Jane A. Mitchell⁴ PhD

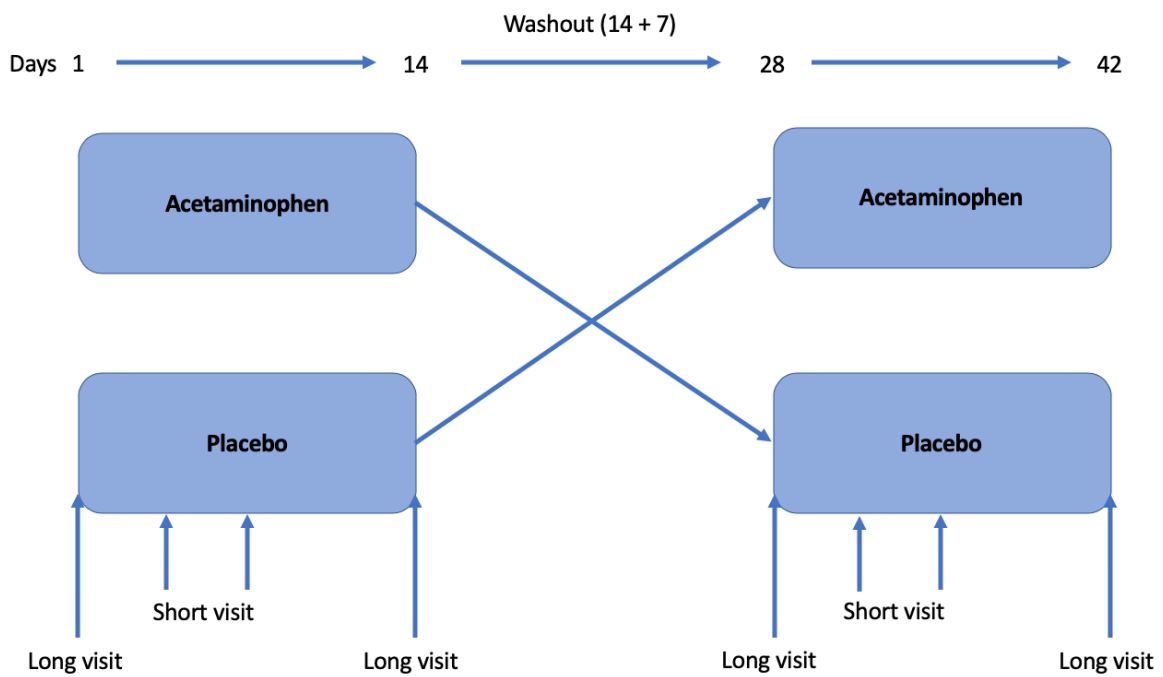
Statistical analysis

Catriona Graham³ MSc

1. Department of Renal Medicine, Royal Infirmary of Edinburgh, NHS Lothian, 51 Little France Crescent, Edinburgh, EH16 4SA, United Kingdom
2. University/British Heart Foundation Centre of Research Excellence, Centre for Cardiovascular Science, Queen's Medical Research Institute, University of Edinburgh, 47 Little France Crescent, Edinburgh, EH16 4TJ, United Kingdom
3. Edinburgh Clinical Research Facility, University of Edinburgh, Western General Hospital, Crewe Road South, Edinburgh, EH4 2XU, United Kingdom

4. Cardiothoracic Pharmacology, National Heart and Lung Institute, Imperial College
London, SW7 2AZ, United Kingdom.

Figure S1. Study design

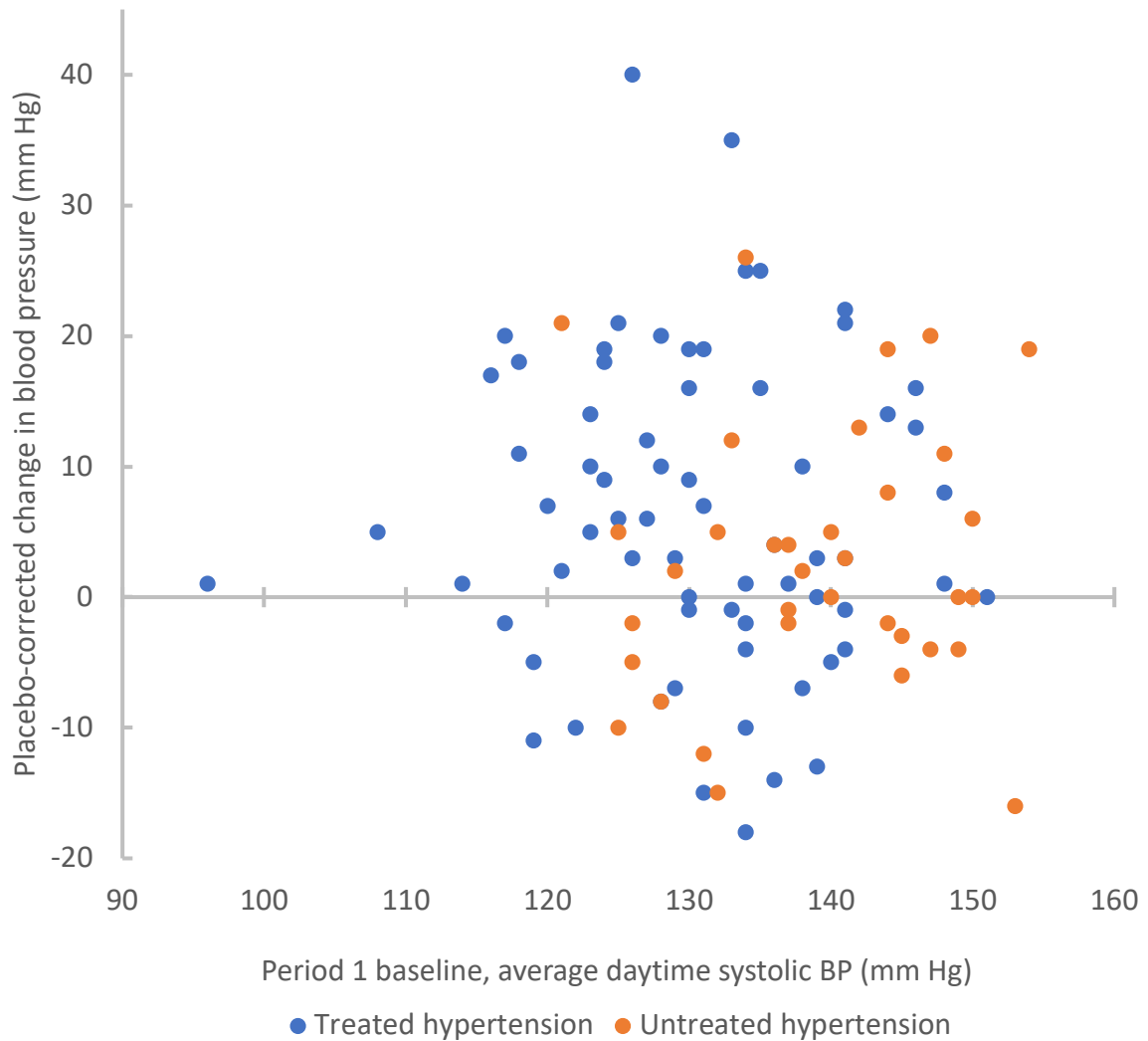


PATH-BP cross-over study design. Participants attended for 4 visits during each arm of the study (2 long and 2 short). Long visits (~1hr) at days 0 and 14 consisted of semi-automated clinic BPs (x3), blood sampling and fitting of an ambulatory BP monitor. Short visits (~30 minutes) at days 4 and 7 consisted of semi-automated clinic BPs (x3) and blood sampling.

Table S1. Baseline data for those that completed both arms of the study

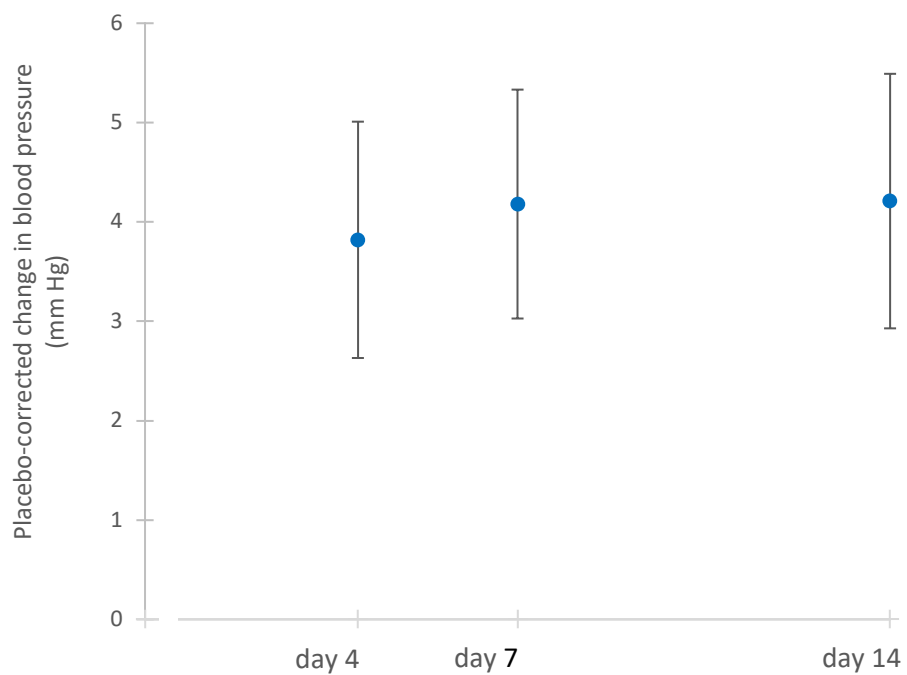
	Acetaminophen-first (n = 53)	Placebo-first (n = 50)
Age (yrs.) (± SD)	61.1 (7.9)	62.1 (8.1)
Male sex – no. (%)	38 (72)	41 (82)
Smoking Status – no. (%)		
• Current	2 (7)	1 (2)
• Ex-smoker	17 (32)	20 (40)
• Never smoked	34 (64)	29 (58)
On treatment for hypertension – no. (%)	38 (72)	31 (62)
Antihypertensive treatment – no. (%)		
ACE Inhibitor	19 (36)	12 (20)
Angiotensin receptor blocker	18 (34)	15 (30)
Calcium channel blocker	9 (17)	13 (26)
Diuretic	12 (23)	16 (32)
Beta-blocker	4 (8)	3 (6)
Number of Antihypertensives – no. (%)		
No antihypertensives	15 (28)	19 (38)
1 Drug	20 (38)	10 (20)
2 Drugs	12 (23)	14 (28)
3 Drugs	6 (11)	7 (14)
Statin therapy – no. (%)	15 (28)	10 (20)

Figure S2. Placebo-corrected change in systolic daytime ambulatory blood pressure from baseline.



Placebo-corrected change in average daytime systolic ambulatory BP from baseline. There was no statistical difference in systolic BP change between those participants treated and not treated for hypertension, $p = 0.13$

Figure S3. Placebo-corrected change in clinic blood pressure from baseline



The change in clinic systolic BP from baseline to day 4 ,7, 14, taking the difference between active and placebo phase. Values given are mean \pm standard error.