

Appendix 4 (as supplied by the authors): Impact of the NHS Health Check stratified by modelled CVD risk categories pre-intervention (N=138,788)

Outcome & pre-intervention risk category		n	Pre-intervention Mean (S.D.)	Post-intervention Mean (S.D.)	Paired t-test Difference (95%CI)	Crude DID (95%CI)	DID matching estimator (95%CI)
QRISK2 (10-year % risk)	QRISK2 <10%						
	Attendees	22,531	4.0 (2.6)	3.8 (2.6)	-0.12 (-0.13, -0.10)	-0.08 (-0.09, -0.07)	-0.14 (-0.16, -0.12)
	Non-attendees	92,362	3.2 (2.4)	3.2 (2.4)	-0.03 (-0.03, -0.03)		
	QRISK2 10-20%						
	Attendees	6,017	13.8 (2.7)	12.6 (3.3)	-1.15 (-1.21, -1.08)	-0.38 (-0.44, -0.32)	-0.34 (-0.44, -0.24)
	Non-attendees	13,831	13.8 (2.7)	13.0 (3.0)	-0.76 (-0.79, -0.73)		
Systolic BP (mm Hg)	QRISK2 <10%						
	Attendees	22,531	129.1 (16.4)	128.3 (12.2)	-0.85 (-1.03, -0.67)	-2.09 (-2.26, -1.92)	-2.16 (-2.46, -1.86)
	Non-attendees	92,362	126.8 (12.9)	128.1 (10.7)	1.23 (1.16, 1.30)		
	QRISK2 10-20%						
	Attendees	6,017	139.7 (17.5)	134.9 (12.7)	-4.72 (-5.14, -4.31)	-3.42 (-3.86, -2.99)	-3.16 (-3.84, -2.47)
	Non-attendees	13,831	136.9 (13.5)	135.6 (11.7)	-1.29 (-1.52, -1.07)		
Diastolic BP (mm Hg)	QRISK2 <10%						
	Attendees	22,531	79.8 (10.5)	78.5 (7.6)	-1.27 (-1.39, -1.15)	-1.61 (-1.72, -1.50)	-1.47 (-1.66, -1.28)
	Non-attendees	92,362	78.4 (8.2)	78.7 (6.6)	0.34 (0.29, 0.39)		
	QRISK2 10-20%						
	Attendees	6,017	81.4 (10.2)	78.5 (7.7)	-2.83 (-3.08, -2.58)	-1.30 (-1.56, -1.03)	-1.09 (-1.46, -0.72)
	Non-attendees	13,831	80.3 (8.3)	78.8 (7.1)	-1.53 (-1.67, -1.39)		
	QRISK2 ≥20%						
	Attendees	1,124	82.4 (10.6)	77.8 (8.2)	-4.61 (-5.22, -4.00)	-2.13 (-2.76, -1.50)	-1.91 (-2.82, -0.99)
	Non-attendees	2,923	80.7 (8.3)	78.3 (7.4)	-2.48 (-2.79, -2.17)		

Appendix to: Chang KCM, Lee JT, Vamos EP, et al. Impact of National Health Service Health Check on cardiovascular disease risk: a difference-in-differences matching analysis. *CMAJ* 2016. DOI:10.1503/cmaj.151201.

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Outcome & pre-intervention risk category		n	Pre-intervention Mean (S.D.)	Post-intervention Mean (S.D.)	Paired t-test Difference (95%CI)	Crude DID (95%CI)	DID matching estimator (95%CI)
Body mass index (kg/m²)	QRISK2 <10%						
	Attendees	22,531	27.7 (5.3)	27.8 (5.2)	0.06 (0.04, 0.08)	-0.27 (-0.29, -0.26)	-0.28 (-0.35, -0.21)
	Non-attendees	92,362	26.9 (4.1)	27.3 (4.0)	0.34 (0.33, 0.34)		
	QRISK2 10-20%						
	Attendees	6,017	27.6 (4.6)	27.5 (4.5)	-0.12 (-0.16, -0.08)	-0.23 (-0.26, -0.19)	-0.24 (-0.33, -0.14)
	Non-attendees	13,831	26.9 (3.8)	27.0 (3.8)	0.10 (0.08, 0.12)		
	QRISK2 ≥20%						
	Attendees	1,124	28.0 (4.5)	27.8 (4.3)	-0.24 (-0.33, -0.15)	-0.22 (-0.31, -0.13)	-0.18 (-0.38, 0.01)
	Non-attendees	2,923	27.1 (3.6)	27.1 (3.7)	-0.01 (-0.06, 0.02)		
Total cholesterol (mmol/L)	QRISK2 <10%						
	Attendees	22,531	5.4 (1.0)	5.3 (0.8)	-0.12 (-0.13, -0.11)	-0.16 (-0.17, -0.15)	-0.15 (-0.18, -0.13)
	Non-attendees	92,362	5.3 (0.6)	5.3 (0.5)	0.03 (0.03, 0.04)		
	QRISK2 10-20%						
	Attendees	6,017	5.6 (1.0)	5.2 (0.9)	-0.45 (-0.48, -0.43)	-0.18 (-0.20, -0.15)	-0.13 (-0.17, -0.09)
	Non-attendees	13,831	5.5 (0.7)	5.3 (0.7)	-0.27 (-0.28, -0.26)		
	QRISK2 ≥20%						
	Attendees	1,124	5.8 (1.1)	5.0 (1.0)	-0.80 (-0.87, -0.74)	-0.32 (-0.38, -0.26)	-0.12 (-0.20, -0.03)
	Non-attendees	2,923	5.6 (0.7)	5.2 (0.8)	-0.48 (-0.51, -0.45)		

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Outcome & pre-intervention risk category		n	Pre-intervention %	Post-intervention %	Paired t-test Difference (95%CI)	Crude DID (95%CI)	DID matching estimator (95%CI)
Smoking prevalence (%)	QRISK2 <10%						
	Attendees	22,531	17.7	16.3	-1.35 (-1.58, -1.12)	-0.16 (-0.43, 0.10)	-0.14 (-0.39, 0.11)
	Non-attendees	92,362	22.1	20.9	-1.19 (-1.31, -1.07)		
	QRISK2 10-20%						
	Attendees	6,017	18.5	16.4	-2.19 (-2.68, -1.70)	-0.02 (-0.62, 0.57)	0.13 (-0.48, 0.74)
	Non-attendees	13,831	22.2	20.1	-2.16 (-2.50, -1.83)		
	QRISK2 ≥20%						
	Attendees	1,124	19.8	16.5	-3.29 (-4.54, -2.03)	0.09 (-1.46, 1.65)	0.59 (-1.04, 2.22)
	Non-attendees	2,923	23.8	20.4	-3.38 (-4.22, -2.54)		
Statin prescribing (%)	QRISK2 <10%						
	Attendees	22,531	7.0	10.4	3.32 (3.04, 3.61)	2.55 (2.35, 2.76)	2.23 (1.94, 2.52)
	Non-attendees	92,362	1.9	2.7	0.76 (0.69, 0.84)		
	QRISK2 10-20%						
	Attendees	6,017	18.1	29.5	11.3 (10.3, 12.2)	7.87 (7.03, 8.72)	7.22 (6.20, 8.24)
	Non-attendees	13,831	9.1	12.6	3.44 (3.05, 3.83)		
	QRISK2 ≥20%						
	Attendees	1,124	19.3	39.9	20.5 (17.8, 23.2)	16.3 (14.0, 18.6)	15.2 (12.2, 18.1)
	Non-attendees	2,923	9.8	14.0	4.20 (3.19, 5.22)		
Antihypertensive prescribing (%)	QRISK2 <10%						
	Attendees	22,531	3.9	7.6	3.65 (3.36, 3.94)	1.82 (1.57, 2.07)	1.13 (0.82, 1.44)
	Non-attendees	92,362	1.4	3.2	1.82 (1.72, 1.92)		
	QRISK2 10-20%						
	Attendees	6,017	7.3	16.1	8.74 (7.96, 9.51)	2.22 (1.35, 3.08)	1.17 (0.25, 2.09)
	Non-attendees	13,831	4.1	10.6	6.52 (6.06, 6.98)		
	QRISK2 ≥20%						
	Attendees	1,124	10.1	23.4	13.3 (11.1, 15.5)	4.99 (2.77, 7.22)	2.16 (-0.41, 4.73)
	Non-attendees	2,923	5.4	13.7	8.34 (7.24, 9.44)		

Notes: DID=difference-in-differences; Crude DID=difference in differences without matching; S.D.=standard deviation; CI=confidence interval ; BP= blood pressure.