

Appendix 7 (as supplied by the authors): Impact of the NHS Health Check stratified by modelled CVD risk categories pre-intervention using complete cases

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	5,303	4.6 (2.6)	4.4 (2.6)	-0.23 (-0.26, -0.19)	-0.02 (-0.09, 0.03)	-0.03 (-0.09, 0.03)	
	Non-attendees	1,502	4.6 (2.6)	4.4 (2.7)	-0.20 (-0.26, -0.13)			
	QRISK2 10-20%							
	Attendees	2,278	14.0 (2.7)	12.6 (3.5)	-1.42 (-1.54, -1.30)	-0.12 (-0.36, 0.11)	0.17 (-0.07, 0.41)	
	Non-attendees	726	14.5 (2.7)	13.2 (3.7)	-1.29 (-1.50, -1.09)			
QRISK2 ≥20%	Attendees	495	24.8 (5.2)	20.1 (5.8)	-4.70 (-5.20, -4.20)	-1.02 (-1.88, -0.16)	0.25 (-0.77, 1.27)	
	Non-attendees	248	25.1 (4.5)	21.4 (5.9)	-3.67 (-4.37, -2.98)			
	Systolic BP (mm Hg)	QRISK2 <10%						
		Attendees	5,303	131.5 (17.0)	129.4 (14.8)	-2.08 (-2.53, -1.63)	-0.24 (-1.20, 0.72)	-0.17 (-1.15, 0.81)
		Non-attendees	1502	132.6 (16.4)	130.7 (15.0)	-1.84 (-2.71, -0.97)		
		QRISK2 10-20%						
Attendees		2,278	140.6 (18.0)	134.8 (14.1)	-5.80 (-6.55, -5.05)	-0.64 (-2.16, 0.86)	-0.002 (-1.59, 1.59)	
Non-attendees		726	139.5 (15.5)	134.3 (14.1)	-5.15 (-6.45, -3.85)			
QRISK2 ≥20%	Attendees	495	147.5 (18.7)	136.7 (13.6)	-10.7 (-12.5, -8.98)	-6.32 (-9.30, -3.33)	-4.61 (-8.06, -1.16)	
	Non-attendees	248	141.0 (16.2)	136.6 (15.8)	-4.43 (-6.75, -2.10)			
	Diastolic BP (mm Hg)	QRISK2 <10%						
		Attendees	5,303	81.1 (10.8)	78.9 (9.3)	-2.17 (-2.46, -1.88)	-0.25 (-0.87, 0.36)	-0.13 (-0.76, 0.50)
		Non-attendees	1,502	81.2 (10.4)	79.3 (9.1)	-1.91 (-2.46, -1.37)		
		QRISK2 10-20%						
Attendees		2,278	81.7 (10.2)	78.2 (8.5)	-3.54 (-3.99, -3.08)	0.95 (0.03, 1.87)	1.50 (0.52, 2.48)	
Non-attendees		726	81.2 (9.5)	76.7 (9.2)	-4.49 (-5.29, -3.68)			
QRISK2 ≥20%	Attendees	495	83.0 (10.6)	77.1 (8.7)	-5.85 (-6.82, -4.87)	-2.18 (-3.84, -0.53)	-1.95 (-3.87, -0.03)	
	Non-attendees	248	80.2 (9.1)	76.5 (9.0)	-3.66 (-4.96, -2.36)			

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	5,303	28.9 (5.7)	28.9 (5.7)	0.008 (-0.05, 0.06)	-0.28 (-0.41, -0.15)	-0.30 (-0.44, -0.16)
	Non-attendees	1,502	29.1 (5.8)	29.4 (6.0)	0.29 (0.16, 0.42)		
	QRISK2 10-20%						
	Attendees	2,278	28.1 (4.8)	28.0 (4.8)	-0.15 (-0.23, -0.07)	-0.24 (-0.41, -0.07)	-0.23 (-0.43, -0.03)
	Non-attendees	726	27.5 (5.0)	27.6 (5.0)	0.08 (-0.07, 0.25)		
	QRISK2 ≥20%						
	Attendees	495	28.6 (4.8)	28.3 (4.7)	-0.25 (-0.42, -0.08)	-0.07 (-0.39, 0.23)	-0.11 (-0.52, 0.30)
Non-attendees	248	28.0 (4.9)	27.8 (4.8)	-0.17 (-0.47, 0.11)			
Total cholesterol (mmol/L)	QRISK2 <10%						
	Attendees	5,303	5.5 (1.0)	5.3 (1.0)	-0.20 (-0.23, -0.18)	-0.03 (-0.09, 0.02)	-0.02 (-0.08, 0.04)
	Non-attendees	1,502	5.4 (0.9)	5.2 (1.0)	-0.17 (-0.22, -0.11)		
	QRISK2 10-20%						
	Attendees	2,278	5.7 (1.1)	5.1 (1.1)	-0.53 (-0.57, -0.48)	-0.04 (-0.13, 0.05)	0.05 (-0.05, 0.15)
	Non-attendees	726	5.5 (1.0)	5.0 (1.0)	-0.49 (-0.57, -0.41)		
	QRISK2 ≥20%						
	Attendees	495	5.8 (1.1)	5.0 (1.1)	-0.88 (-1.00, -0.77)	-0.12 (-0.32, 0.07)	0.03 (-0.19, 0.25)
Non-attendees	248	5.7 (1.0)	4.9 (1.2)	-0.76 (-0.92, -0.61)			

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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	5,303	17.5	15.7	-1.84 (-2.46, -1.22)	0.41 (-0.98, 1.81)	0.38 (-1.23, 1.99)
	Non-attendees	1,502	20.5	18.3	-2.26 (-3.71, -0.81)		
	QRISK2 10-20%						
	Attendees	2,278	18.5	16.1	-2.37 (-3.29, -1.44)	1.62 (-0.32, 3.56)	2.24 (0.03, 4.45)
	Non-attendees	726	17.3	13.3	-3.99 (-5.86, -2.12)		
Statin prescribing (%)	QRISK2 <10%						
	Attendees	5,303	12.8	21.7	8.80 (7.97, 9.63)	-0.24 (-2.01, 1.51)	-0.66 (-2.46, 1.14)
	Non-attendees	1,502	14.1	23.2	9.05 (7.47, 10.6)		
	QRISK2 10-20%						
	Attendees	2,278	25.0	42.6	17.5 (15.8, 19.2)	4.61 (1.16, 8.06)	3.10 (-0.41, 6.61)
	Non-attendees	726	25.6	38.5	12.9 (10.1, 15.7)		
Antihypertensive prescribing (%)	QRISK2 <10%						
	Attendees	5,303	6.6	15.2	8.52 (7.69, 9.34)	-14.5 (-16.5, -12.6)	-14.5 (-16.9, -12.0)
	Non-attendees	1,502	7.8	30.9	23.1 (20.8, 25.3)		
	QRISK2 10-20%						
	Attendees	2,278	9.0	23.3	14.2 (12.7, 15.7)	-13.5 (-16.8, -10.2)	-15.7 (-19.6, -11.7)
	Non-attendees	726	11.2	39.1	27.8 (24.4, 31.1)		
	QRISK2 ≥20%						
	Attendees	495	12.7	32.7	20.0 (16.3, 23.6)	-9.03 (-15.6, -2.43)	-17.3 (-25.5, -9.01)
	Non-attendees	248	8.0	37.0	29.0 (23.2, 34.8)		

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