Interventions to improve participation amongst underserved population groups in young person and adult national screening programmes in the UK: a systematic review

Appendix 7: Results plotted by underserved group

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Abbreviations used in presentation of results

<u>Screenir</u>	ng programme	Underserved grou	р	
AAA	Abdominal Aortic Aneurysm	Category	Code	
BCSP	Bowel Cancer Screening	Socioeconomic	IMD20,	Most deprived quintile (English
	Programme		SIMD20	IMD or Scottish IMD)
SS	Bowel Scope Screening		IMD40,	Two most deprived quintiles
			SIMD40	(English IMD or Scottish IMD)
BSP	Breast Screening		IMD33	Most deprived tertile (English)
SP	Programme		SES33	Most deprived tortile (Townsond
.3P	Cervical Screening Programmes		3E333	Most deprived tertile (Townsend score or measure not reported)
ES	Diabetic Eye Screening		NoQual	No formal qualifications
	Diabolio Lyo Corconing		Unemp	Unemployed
			Tenant	Housing status (renting)
		Ed. 1.2		
	underserved group result	Ethnicity	ETH	Minority ethnicity
W	whole trial population		ASIAN	Asian family origin
S	subgroup of whole trial		PAK	Pakistani family origin
i	population individual demographic		BGD	Bangladeshi family origin
	• .	A ===		
a	area-based demographic	Age	<65	Under 65
			70+	Over
			70+	70
			50-54, 55-	Age range as specified
			60	
		Sex	MEN	Men
		Screening history	FTI	First-time invitee
			pNON	Previous non-attender
			ItNON	Long-term non-attender
		Current screening	rNON	Recent non-attender (population
		status		recruited to trials of reminders)

Intervention description

Event / stage of screening pathway								
Event / s					rintervention			
I	invitation	NFA	no further action	PO	post			
Α	appointment	INV	standard invite	TEL	telephone			
K	home test kit	PIL	patient information leaflet	TXT	text message			
R	reminder	SWI	simplified patient information	F2F	face-to-face			
2R	second reminder	EWI	enhanced patient information	GP	general practice			
LT	long-term non-responder	PNL	pre-notification letter					
		HCP	healthcare professional					
pre.	prefixes to modify the event	PSY	psychological/barriers					
post.	codes where needed	AR	anticipated regret					
		REM	(standard) reminder	<u>Other</u>				
		ERM	enhanced reminder	ICC	intra-cluster			
		Combi	combined invites or leaflets		correlation			
		GPE	GP endorsed		coefficient			
		GPL	GP letter					
		HTK	home test kit					
		IMP	implementation intentions					
		INDIV	tailored to the individual					
		HLOC	health locus of control					
		svy	survey (not an intervention)					
		ann	annual (prefix)					

1 Forest plots for socioeconomically deprived groups

Three trials reported subgroups by qualifications, tenancy status and unemployment status but no numerical results were available for these groups and so all of these results relate to quintiles (or in some cases tertiles) defined by the Index of Multiple Deprivation or its Scottish equivalent (with Stead and Wardle using alternative areabased measures but not reporting any numerical results).

Note that the subgroup results for most deprived 40% in the plots below include the most deprived 20% and so these pairs of estimates are not independent of each other.

Figure 1 Risk difference (socioeconomic status, ordered by screening programme)

rigure i Nisk difference (socioeconomic stat	us, c	uci	cu i	узс	, CCIIIII	g programme,		
Trial, screening programme, comparison & underserved group	control	N	test	N	Risk of Bia	s RD	RD	95%-CI
						1		
Libby 2011 (BCSP),i I-PNL-PO v I-PNL+PIL-PO SIMD20.sa	801	1848	858	1907	Low	-	0.016 [-0.015; 0.048]
Libby 2011 (BCSP).i I-PNL-PO v I-PNL+PIL-PO SIMD40.sa	2689	5474	2613	5411	Low	•		-0.027; 0.010]
Elbay 2011 (2001). The total the telephone of the telephone	2000	•	2010	0	2011	Т	0.000 [0.021, 0.010]
Lo 2014 (BCSP).c K-PIL-PO v K-PIL+IMP-PO IMD33.sa	1257	3804	1522	4319	Low	-	0.022 [-	-0.003; 0.046]
O'Carroll 2015 (BCSP).i I-PNL-PO v I-PNL+HLOC-PO IMD20.sa	1495	3296	1492 3485	3368 7216	Low	<u> </u>		-0.034; 0.013]
O'Carroll 2015 (BCSP).i I-PNL-PO v I-PNL+HLOC-PO IMD40.sa O'Carroll 2015 (BCSP).i I-PNL-PO v I-PNL+HLOC+AR-PO IMD20.sa	3519 1495	7137 3296	1510	3355	Low Low	1		-0.026; 0.006] -0.027; 0.020]
O'Carroll 2015 (BCSP),i I-PNL-PO V I-PNL+HLOC+AR-PO IMD20.sa	3519	7137	3508	7097	Low	I		-0.015; 0.018]
O'Carroll 2015 (BCSP).i I-PNL+HLOC-PO v I-PNL+HLOC+AR-PO IMD20.sa		3368	1510	3355	Low	-		-0.017; 0.031]
O'Carroll 2015 (BCSP).i I-PNL+HLOC-PO v I-PNL+HLOC+AR-PO IMD40.sa		7216	3508		Low	.		-0.005; 0.028]
, ,								
Raine 2016a (BCSP).c I-INV-PO v I-GPE-PO IMD20.sa		19540				- -		-0.022; 0.049]
Raine 2016a (BCSP).c I-INV-PO v I-GPE-PO IMD40.sa	20163	42547	20335	41624	Low	_	0.015 [-	-0.020; 0.050]
Raine 2016b (BCSP).c R-REM-PO v R-ERM-PO IMD20.sa	2198	16489	2040	14441	Some	-	0.008 [-0.017; 0.033]
Raine 2016b (BCSP).c R-REM-PO v R-ERM-PO IMD40.sa		33342				-		-0.019; 0.034]
, ,								
McGregor 2016 (BCSP).c K-PIL-PO v K-PIL+EWI-PO IMD20.sa		12127						-0.086; 0.013]
McGregor 2016 (BCSP).c K-PIL-PO v K-PIL+EWI-PO IMD40.sa	12663	25512	11501	24619	Low	 +	-0.029 [-	-0.078; 0.020]
Smith 2017 (BCSP).c K-PIL-PO v K-PIL+SWI-PO IMD20.sa	5316	12660	5322	12374	Low		0.010 [-0.039; 0.059]
Smith 2017 (BCSP).c K-PIL-PO v K-PIL+SWI-PO IMD40.sa		26129			Low	-		-0.041; 0.057]
Hirst 2017 (BCSP).i -NFA- v 2R-REM-TXT SIMD20.sa	309	866	278	861	Some			-0.079; 0.011]
Hirst 2017 (BCSP).i -NFA- v 2R-REM-TXT SIMD40.sa	794	2151	760	2120	Some	-	-0.011 [-	-0.039; 0.018]
Wardle 2003 (BSS),i pre.l-svy-PO v pre.l-svy+PSY-PO SES33.sa					Low			
Stead 1998 (BSP).i R-OPEN-PO v R-FIXED-PO SES.sa	-			-	Low			
Korrison 2015 (RSR) i NEA y pro A REMITYT IMD20 si	32	66	41	66	Low		0.136 [0.022- 0.2041
Kerrison 2015 (BSP).i -NFA- v pre.A-REM-TXT IMD20.si Kerrison 2015 (BSP).i -NFA- v pre.A-REM-TXT IMD40.si	32 189	383	230	394	Low	T		-0.032; 0.304] 0.020; 0.160]
Remodifization (Bot).1 -141 A- V pre.A-REMI-TAT INID-0.31	103	300	200	034	LOW		0.000 [0.020, 0.100]
Allgood 2016 (BSP).i -NFA- v pre.A-REM-PO IMD20.sa		1279		1242	Low			
Allgood 2016 (BSP).i -NFA- v pre.A-REM-PO IMD40.sa		3615		3651	Low			
Allgood 2017 (BSP),i R-OPEN-PO v R-FIXED-PO IMD20.sa	386	3623	682	3395	Low	_	1 100 0	0.078; 0.111]
Allgood 2017 (BSP).i R-OPEN-PO v R-FIXED-PO IMD40.sa	820	7326	1507	7040	Low			0.090; 0.114]
ringsod 2017 (BOT). IN OT ENTTO A THINKEB TO TIME 10.00	020	, 020	1001		2011	-	0.102 [0.000, 0.111
Szarewski 2011 (CSP).i 2R-REM-PO v 2R-HTK-PO IMD20.sa					Low			
Szarewski 2011 (CSP).i 2R-REM-PO v 2R-HTK-PO IMD40.sa				-	Low			
Cadman 2015 (CSP).i 2R-REM-PO v 2R-HTK-PO IMD20.sa	73	1372	198	1375	Low	-	0.091 [0.069; 0.113]
Cadman 2015 (CSP).i 2R-REM-PO v 2R-HTK-PO IMD40.sa	100	1946	268	1937	Low	<u>-</u>		0.069; 0.105]
. ,							[,
Judah 2018 (DES).i LT-INV-PO v LT-CASH-PO IMD20.sa	19	134	10	74	Low			-0.104; 0.091]
Judah 2018 (DES).i LT-INV-PO v LT-LOT-PO IMD20.sa	19	134	5	96	Low			-0.164; -0.016]
Judah 2018 (DES).i LT-INV-PO v LT-FIN-PO IMD20.sa	19	134	15	170	Low		0.054 [-	-0.126; 0.019]
						-0.3 -0.2 -0.1 0 0.1 0.2	0.3	
						0.0 0.2 -0.1 0 0.1 0.2	0.0	

Assumes ICC of 0.03 for Raine 2016a, Raine 2016b, Smith 2017 and McGregor 2017 because ICC was not reported (estimate of 0.03 used, based on rounding up ICCs reported by other included cluster trials).

Figure 2 Odds ratio (socioeconomic status, ordered by screening programme)

·		-			• • •	•			
Trial, screening programme, comparison & underserved group	control	N	test	N	Risk of Bias	OR	OR	95%-CI	
						1			
Libby 2011 (BCSP).i I-PNL-PO v I-PNL+PIL-PO SIMD20.sa	801	1848	858	1907	Low	-	1.07	[0.94; 1.22]	
Libby 2011 (BCSP).i I-PNL-PO v I-PNL+PIL-PO SIMD40.sa	2689	5474	2613	5411	Low	•	0.97	[0.90; 1.04]	
Lo 2014 (BCSP).c K-PIL-PO v K-PIL+IMP-PO IMD33.sa	1257	3804	1522	4319	Low	-	1 10	[1.00; 1.20]	
25 25 17 (255) / 5 17 12 1 5 7 17 12 1 1 1 1 1 5 1 1 1 1 2 5 1 1 1 1 2 1 1 1 1	1201		TOLL	1010	2011		1.10	[1.50, 1.20]	
O'Carroll 2015 (BCSP).i I-PNL-PO v I-PNL+HLOC-PO IMD20.sa	1495 3519	3296	1492 3485	3368 7216	Low	1	0.96		
O'Carroll 2015 (BCSP).i I-PNL-PO v I-PNL+HLOC-PO IMD40.sa O'Carroll 2015 (BCSP).i I-PNL-PO v I-PNL+HLOC+AR-PO IMD20.sa	1495	7137 3296	1510	3355	Low Low	I	0.96 0.99	[0.90; 1.03] [0.90; 1.09]	
O'Carroll 2015 (BCSP).i I-PNL-PO v I-PNL+HLOC+AR-PO IMD40.sa	3519	7137	3508	7097	Low	Ī	1.00		
O'Carroll 2015 (BCSP).i I-PNL+HLOC-PO v I-PNL+HLOC+AR-PO IMD20.sa		3368	1510	3355	Low	+	1.03		
O'Carroll 2015 (BCSP).i I-PNL+HLOC-PO v I-PNL+HLOC+AR-PO IMD40.sa		7216	3508	7097	Low	=	1.05	[0.98; 1.12]	
Pains 2046s (PCSP) a LINIV PO LOPE PO IMP20 sa	0204	10540	0422	10174	Law	_	4.07	[4 04, 4 42]	
Raine 2016a (BCSP).c I-INV-PO v I-GPE-PO IMD20.sa Raine 2016a (BCSP).c I-INV-PO v I-GPE-PO IMD40.sa		19540 42547			Low Low	ă		[1.01; 1.13] [1.04; 1.12]	
Name 2010a (BCSF).C 1-111V-FO V 1-GFE-FO 11VID40.5a	20103	42041	20000	41024	LOW	T	1.00	[1.04, 1.12]	
Raine 2016b (BCSP).c R-REM-PO v R-ERM-PO IMD20.sa		16489			Some	<u> </u>		[1.03; 1.19]	
Raine 2016b (BCSP).c R-REM-PO v R-ERM-PO IMD40.sa	5634	33342	5144	29120	Some		1.10	[1.05; 1.16]	
McGregor 2016 (BCSP).c K-PIL-PO v K-PIL+EWI-PO IMD20.sa	5580	12127	4966	11722	Low	=	0.92	[0.86; 0.98]	
McGregor 2016 (BCSP).c K-PIL-PO v K-PIL+EWI-PO IMD40.sa		25512						[0.91; 1.00]	
0	5046	40000	F000	40074	1				
Smith 2017 (BCSP).c K-PIL-PO v K-PIL+SWI-PO IMD20.sa Smith 2017 (BCSP).c K-PIL-PO v K-PIL+SWI-PO IMD40.sa		12660 26129			Low Low				
3111111 2017 (DC31).C K-1 12-1 O V K-1 12 13W1-1 O 11VID40.58	12505	20123	12303	21 121	LOW				
Hirst 2017 (BCSP).i -NFA- v 2R-REM-TXT SIMD20.sa	309	866	278	861	Some	 		[0.70; 1.05]	
Hirst 2017 (BCSP).i -NFA- v 2R-REM-TXT SIMD40.sa	794	2151	760	2120	Some	+	0.96	[0.84; 1.08]	
Wardle 2003 (BSS).i pre.l-svy-PO v pre.l-svy+PSY-PO SES33.sa					Low				
Transact 2000 (2007) pro 01) 1 0 1 pro 01) 1 0 1 2 0 2 0 0 0 0 0	•	•			2011				
Stead 1998 (BSP).i R-OPEN-PO v R-FIXED-PO SES.sa			100		Low				
Kerrison 2015 (BSP).i -NFA- v pre.A-REM-TXT IMD20.si	32	66	41	66	Low	 	1.74	[0.87; 3.48]	
Kerrison 2015 (BSP).i -NFA- v pre.A-REM-TXT IMD40.si	189	383	230	394	Low	 -		[1.08; 1.91]	
Allgood 2016 (BSP).i -NFA- v pre.A-REM-PO IMD20.sa		1279		1242	Low				
Allgood 2016 (BSP),i -NFA- v pre.A-REM-PO IMD20.sa		3615		3651	Low				
Alignous Zoro (Dor).1 - HI A- V pre.A-NEW-1 O INID-10.3d		0010		0001	LOW				
Allgood 2017 (BSP).i R-OPEN-PO v R-FIXED-PO IMD20.sa	386	3623	682	3395	Low	-		[1.84; 2.41]	
Allgood 2017 (BSP).i R-OPEN-PO v R-FIXED-PO IMD40.sa	820	7326	1507	7040	Low	•	2.16	[1.97; 2.37]	
Szarewski 2011 (CSP).i 2R-REM-PO v 2R-HTK-PO IMD20.sa					Low				
Szarewski 2011 (CSP).i 2R-REM-PO v 2R-HTK-PO IMD40.sa	-				Low				
Cadman 2015 (CSP),i 2R-REM-PO v 2R-HTK-PO IMD20.sa	73	1372	198	1375	Low		2.99	[2.26: 3.96]	
Cadman 2015 (CSP).i 2R-REM-PO v 2R-HTK-PO IMD20.sa	100	1946	268	1937	Low	-	2.96		
,, = = =									
Light 2040 (DEO) LIT IND DO THE STOLE WINDS							0.05	FO 44: 0 100	
Judah 2018 (DES).i LT-INV-PO v LT-CASH-PO IMD20.sa	19 19	134 134	10 5	74 96	Low Low		0.95		
Judah 2018 (DES).i LT-INV-PO v LT-LOT-PO IMD20.sa Judah 2018 (DES).i LT-INV-PO v LT-FIN-PO IMD20.sa	19	134	15	170	Low			[0.12; 0.92] [0.29; 1.20]	
Sadar Esta (SES). Elimitation a Elimitation independe	13	104	,5	110	LOW		0.00	[0.20, 1.20]	
						0.2 0.5 1 2 5			

For Raine 2016a, Raine 2016b and McGregor 2017, adjusted ORs are reported.

2 Forest plots for minority ethnicity

Three trials identified Asian women by picking out Asian-sounding names (McAvoy 1991, Lancaster 1992, Hoare 1994), a method which in practice classifies women by their father's or husband's assumed ethnicity. One of these trials (Hoare 1994) further classified names as originating from Pakistan or Bangladesh, an approach which may be particularly prone to error. Atri 1997 asked general practices to assess the ethnicity of their included patients. Bush 2014 cluster-randomised ten GP practices with a high proportion of Asian patients and so ethnicity is an area-based measure for this trial.

Trial, screening programme, comparison & underserved group control N test N Risk of Bias RD 95%-CI Lancaster 1992 (BSP).i I-Combi-PO v A-Combi-F2F ASIAN.si 86 32 86 High 0.081 [-0.059; 0.222] Hoare 1994 (BSP).i -NFA- v pre.I-HCP-F2F ASIAN.wi Hoare 1994 (BSP).i -NFA- v pre.I-HCP-F2F PAK.si Hoare 1994 (BSP).i -NFA- v pre.I-HCP-F2F BGD.si 251 122 247 0.028 [-0.060; 0.116] 0.033 [-0.079; 0.144] 0.019 [-0.121; 0.159] 155 38 96 39 Low Atri 1997 (BSP).c post.R-NFA- v post.R-HCP-TEL/PO ETH.si Atri 1997 (BSP).c post.R-NFA- v post.R-HCP-TEL/PO IND.si 0.075 [0.028; 0.122] 0.140 [0.064; 0.217] 149 40 206 High McAvoy 1991 (CSP).i -WI-PO v -HCP+WI-F2F ASIAN.wi 131 57 219 Low 0.153 [0.075; 0.232] 131 80 263 219 80 263 McAyov 1991 (CSP) i -WI-PO v -HCP+VID-E2E ASIAN McAvoy 1991 (CSP).i -HCP+WI-F2F v -HCP+VID-F2F ASIAN.wi Bush 2014 (DES).c -NFA- v R-REM-HCP-TEL rNON.wi 120 580 143 271 High 0.321 [0.193; 0.448]

Figure 3 Risk difference (minority ethnicity, ordered by screening programme)

Assumes ICC of 0.03 for Atri 1997 and Bush 2014 because ICC was not reported.

-0.4 -0.2

0 0.2

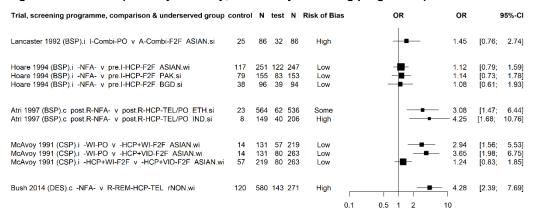


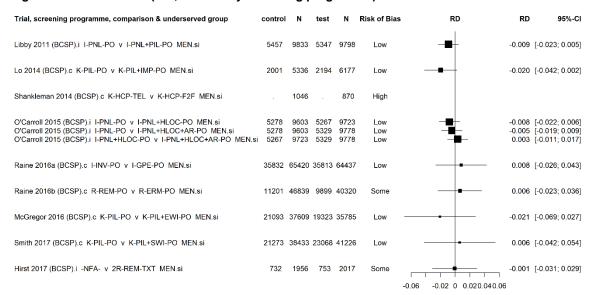
Figure 4 Odds ratio (minority ethnicity, ordered by screening programme)

Assumes ICC of 0.03 for Atri 1997 and Bush 2014 because ICC was not reported.

3 Forest plots for men in BCSP

The only underserved group identified by sex was men in the BCSP.

Figure 5 Risk difference (sex, ordered by screening programme)



Assumes ICC of 0.03 for Raine 2016a, Raine 2016b, Smith 2017 and McGregor 2017 because ICC was not reported.

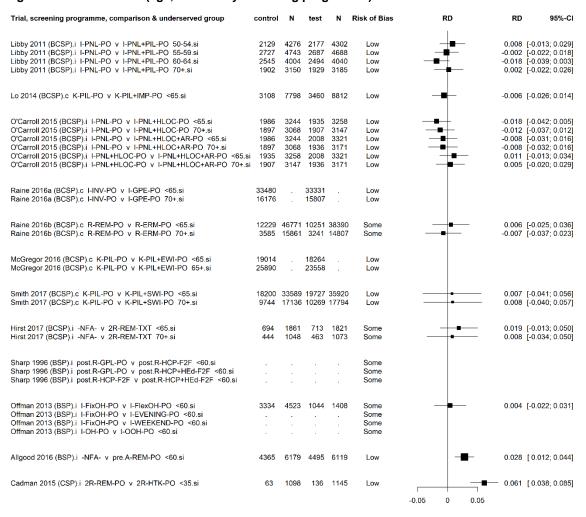
Figure 6 Odds ratio (sex, ordered by screening programme)

Trial, screening programme, comparison & underserved group	control	N	test	N	Risk of Bias	OR	OR	95%-CI
Libby 2011 (BCSP),i I-PNL-PO v I-PNL+PIL-PO MEN.si	5457	9833	5347	9798	Low	-	0.96 [0.96]	91; 1.02]
Lo 2014 (BCSP),c K-PIL-PO v K-PIL+IMP-PO MEN.si	2001	5336	2194	6177	Low —		0.92 [0.8	83; 1.01]
Shankleman 2014 (BCSP).c K-HCP-TEL v K-HCP-F2F MEN.si	÷	1046	-	870	High			
O'Carroll 2015 (BCSP),i I-PNL-PO v I-PNL+HLOC-PO MEN.si O'Carroll 2015 (BCSP),i I-PNL-PO v I-PNL+HLOC+AR-PO MEN.si O'Carroll 2015 (BCSP),i I-PNL+HLOC-PO v I-PNL+HLOC+AR-PO MEN.si	5278 5278 5267	9603 9603 9723	5267 5329 5329	9723 9778 9778	Low Low Low	-	0.97 [0.9 0.98 [0.9 1.01 [0.9	
Raine 2016a (BCSP).c I-INV-PO v I-GPE-PO MEN.si	35832	65420	35813	64437	Low		1.03 [0.	95; 1.11]
Raine 2016b (BCSP),c R-REM-PO v R-ERM-PO MEN.si	11201	46839	9899	40320	Some		1.04 [0.	95; 1.14]
McGregor 2016 (BCSP).c K-PIL-PO v K-PIL+EWI-PO MEN.si	21093	37609	19323	35785	Low		0.98 [0.9	94; 1.03]
Smith 2017 (BCSP).c K-PIL-PO v K-PIL+SWI-PO MEN.si	21273	38433	23068	41226	Low	-	1.05 [1.0	01; 1.10]
Hirst 2017 (BCSP).i -NFA- v 2R-REM-TXT MEN.si	732	1956	753	2017	Some	0.9 1 1.1	1.00 [0.	88; 1.13]

For Raine 2016a, Raine 2016b, Smith 2017 and McGregor 2017, adjusted ORs are reported.

4 Forest plots for age

Figure 7 Risk difference (age, ordered by screening programme)



Assumes ICC of 0.03 for Raine 2016b and Smith 2017 2017 because ICC was not reported.

Figure 8 Odds ratio (age, ordered by screening programme)

Trial, screening programme, comparison & underserved group	control	N	test	N	Risk of Bias	OR	OR	95%-CI
Libby 2011 (BCSP).i I-PNL-PO v I-PNL+PIL-PO 50-54.si Libby 2011 (BCSP).i I-PNL-PO v I-PNL+PIL-PO 55-59.si Libby 2011 (BCSP).i I-PNL-PO v I-PNL+PIL-PO 60-64.si Libby 2011 (BCSP).i I-PNL-PO v I-PNL+PIL-PO 70+.si	2129 2727 2545 1902	4276 4743 4004 3150	2177 2687 2494 1929	4302 4688 4040 3185	Low Low Low Low	•	0.99 0.92	[0.95; 1.12] [0.91; 1.08] [0.84; 1.01] [0.91; 1.11]
Lo 2014 (BCSP).c K-PIL-PO v K-PIL+IMP-PO <65.si	3108	7798	3460	8812	Low	+	0.98	[0.90; 1.06]
O'Carroll 2015 (BCSP),i I-PNL-PO v I-PNL-HLOC-PO <65.si O'Carroll 2015 (BCSP),i I-PNL-PO v I-PNL+HLOC-PO 70+.si O'Carroll 2015 (BCSP),i I-PNL-PO v I-PNL+HLOC+AR-PO <65.si O'Carroll 2015 (BCSP),i I-PNL-PO v I-PNL+HLOC+AR-PO 70+.si O'Carroll 2015 (BCSP),i I-PNL+HLOC-PO v I-PNL+HLOC+AR-PO <65.si O'Carroll 2015 (BCSP),i I-PNL+HLOC-PO v I-PNL+HLOC+AR-PO 70+.si		3244 3068 3244 3068 3258 3147	1935 1907 2008 1936 2008 1936	3258 3147 3321 3171 3321 3171	Low Low Low Low Low	* * * *	0.95 0.97 0.97 1.05	[0.84; 1.02] [0.86; 1.05] [0.88; 1.07] [0.87; 1.07] [0.95; 1.15] [0.92; 1.13]
Raine 2016a (BCSP).c I-INV-PO v I-GPE-PO <65.si Raine 2016a (BCSP).c I-INV-PO v I-GPE-PO 70+.si	33480 16176		33331 15807		Low Low	‡		[0.98; 1.12] [0.89; 1.10]
Raine 2016b (BCSP).c R-REM-PO v R-ERM-PO <65.si Raine 2016b (BCSP).c R-REM-PO v R-ERM-PO 70+.si	12229 3585	46771 15861		38390 14807		-		[0.96; 1.11] [0.83; 1.11]
McGregor 2016 (BCSP).c K-PIL-PO v K-PIL+EWI-PO <65.si McGregor 2016 (BCSP).c K-PIL-PO v K-PIL+EWI-PO 65+.si	19014 25890		18264 23558		Low Low	=		[0.97; 1.05] [0.92; 1.04]
Smith 2017 (BCSP).c K-PIL-PO v K-PIL+SWI-PO <65.si Smith 2017 (BCSP).c K-PIL-PO v K-PIL+SWI-PO 70+.si	18200 9744		19727 10269			2		[0.99; 1.07] [0.99; 1.13]
Hirst 2017 (BCSP).i -NFA- v 2R-REM-TXT <65.si Hirst 2017 (BCSP).i -NFA- v 2R-REM-TXT 70+.si	694 444	1861 1048	713 463	1821 1073	Some Some	-		[0.95; 1.24] [0.87; 1.23]
Sharp 1996 (BSP).i post.R-GPL-PO v post.R-HCP-F2F <60.si Sharp 1996 (BSP).i post.R-GPL-PO v post.R-HCP+HEd-F2F <60.si Sharp 1996 (BSP).i post.R-HCP-F2F v post.R-HCP+HEd-F2F <60.si					Some Some Some			
Offman 2013 (BSP).i I-FixOH-PO v I-FlexOH-PO <60.si Offman 2013 (BSP).i I-FixOH-PO v I-EVENING-PO <60.si Offman 2013 (BSP).i I-FixOH-PO v I-WEEKEND-PO <60.si Offman 2013 (BSP).i I-OH-PO v I-OOH-PO <60.si	3334	4523	1044	1408	Some Some Some	+	1.02	[0.89; 1.17]
Allgood 2016 (BSP).i -NFA- v pre.A-REM-PO <60.si	4365	6179	4495	6119	Low	•	1.15	[1.06; 1.24]
Cadman 2015 (CSP),i 2R-REM-PO v 2R-HTK-PO <35.si	63	1098	136	1145	Low	0.5 1 2	— 2.21	[1.62; 3.02]

For Raine 2016a, Raine 2016b, Smith 2017 and McGregor 2017, adjusted ORs are reported.

5 Forest plots for screening history

The underserved groups by screening history are first-time invitees and previous non-responders (with trials which report these groups usually also reporting on previous responders). Some trials also recruited long-term non-responders or considered them as a subgroup.

For RD plots: assumes ICC of 0.03 for Raine 2016a, Raine 2016b, Smith 2017 and McGregor 2017 because ICC was not reported.

For OR plots: for Raine 2016a, Raine 2016b, Smith 2017 and McGregor 2017, adjusted ORs are reported.

Figure 9 Risk difference (screening history, ordered by screening programme)

rigule 9 Kisk difference (screening i	11510	וכ y,	OIC	iere	u by s	creening progr	allill	ie)	
Trial, screening programme, comparison & underserved group	control	N	test	N	Risk of Bias	s RD	RD	95	5%-CI
Libby 2011 (BCSP),i I-PNL-PO v I-PNL+PIL-PO FTI.si	6461	11237	6370	11240	Low	-	-0.008	[-0.021; 0	0.005]
Shankleman 2014 (BCSP),c K-HCP-TEL v K-HCP-F2F FTLsi Shankleman 2014 (BCSP),c K-HCP-TEL v K-HCP-F2F pNON.si	228 165	497 826	171 203	416 886	High High			[-0.149; 0 [-0.047; 0	
O'Carroll 2015 (BCSP),i I-PNL-PO v I-PNL+HLOC-PO FTI.si O'Carroll 2015 (BCSP),i I-PNL-PO v I-PNL+HLOC-PO pNON.si O'Carroll 2015 (BCSP),i I-PNL-PO v I-PNL+HLOC+AR-PO FTI.si	2233	8810	2240	8994	Low Low Low		-0.004	[-0.017; 0	0.008]
O'Carroll 2015 (BCSP).i I-PNL-PO v I-PNL+HLOC+AR-PO pNON.si O'Carroll 2015 (BCSP).i I-PNL+HLOC-PO v I-PNL+HLOC+AR-PO FTI.si	2233		2316	9028	Low Low	<u> </u>		[-0.010; 0	-
O'Carroll 2015 (BCSP),i I-PNL+HLOC-PO v I-PNL+HLOC+AR-PO pNON.si		8994	2316	9028	Low	Ī		[-0.005; 0	
Raine 2016a (BCSP).c I-INV-PO v I-GPE-PO FTI.si Raine 2016a (BCSP).c I-INV-PO v I-GPE-PO pNON.si		23582 40295			Low Low	+	0.007	[-0.015; 0 [-0.017; 0	0.031]
Raine 2016b (BCSP).c R-REM-PO v R-ERM-PO FTI.si Raine 2016b (BCSP).c R-REM-PO v R-ERM-PO pNON.si	5398 2329	21271 43329		14483 39862	Some Some	Ť		[-0.027; 0 [-0.010; 0	
McGregor 2016 (BCSP) c K-PIL-PO v K-PIL+EWI-PO FTI.si McGregor 2016 (BCSP) c K-PIL-PO v K-PIL+EWI-PO pNON.si	6231 3284	12510 22892		15281 22209	Low Low	+		[-0.045; 0 [-0.037; 0	
Smith 2017 (BCSP).c K-PIL-PO v K-PIL+SWI-PO FTI.si Smith 2017 (BCSP).c K-PIL-PO v K-PIL+SWI-PO pNON.si	5981 3479	12410 24551		13034 26368	Low	+		[-0.035; 0 [-0.030; 0	
Hirst 2017 (BCSP),i -NFA- v 2R-REM-TXT FTI.si	282	809	297	733	Some	-	0.057	[0.008; 0	0.105]
Turner 1994 (BSP),i R-REM-PO v R-REM+GPL-PO FTI.si Turner 1994 (BSP),i R-REM-PO v R-REM+GPL-PO pNON.si	4 3	42 104	7 7	42 101	Low Low	+-		[-0.072; 0 [-0.019; 0	
Meldrum 1994 (BSP).i I-INV-PO v I-INDIV-PO FTI.si Meldrum 1994 (BSP).i I-INV-PO v I-INDIV-PO pNON.si	201 60	372 256	230 38	384 253	Low Low	-	0.059 -0.084	[-0.012; 0 [-0.152; -0).129]).016]
Stead 1998 (BSP),i R-OPEN-PO v R-FIXED-PO FTI.si Stead 1998 (BSP),i R-OPEN-PO v R-FIXED-PO pNON.si Stead 1998 (BSP),i R-OPEN-PO v R-FIXED-PO itNON.si	35 27 21	389 512 429	76 35 26	312 446 386	Low Low Low	<u> </u>	0.026	[0.098; 0 [-0.006; 0 [-0.014; 0	0.057]
OConnor 1998 (BSP).i -NFA- v pre.I-GPL-PO FTI.si OConnor 1998 (BSP).i -NFA- v pre.I-GPL-PO pNON.si	22 24	56 72	29 24	53 73	Low Low			[-0.031; 0 [-0.158; 0	
Bankhead 2001 (BSP).i R-NFA- v R-GPL-PO FTI.wi		96		106	Low				
Bankhead 2001 (BSP)1. R-NFA · v R-FLAG-GP FTI.wi Bankhead 2001 (BSP)1. R-NFA · v R-GPL-HLAG-PO+GP FTI.wi Bankhead 2001 (BSP)1. R-NoGPL- v R-allGPL-PO FTI.wi Bankhead 2001 (BSP)1 R-NoFLAG- v R-allFLAG-GP FTI.wi	:	96 96 188 202		92 100 206 192	Low Low Low Low				
Richards 2001 (BSP).c pre.I-NFA- v pre.I-GPL-PO FTI.si Richards 2001 (BSP).c pre.I-NFA- v pre.I-GPL-PO pNON.si	:	414 318		235 235	Low Low				
Richards 2001 (BSP).c pre.I-NFA- v pre.I-FLAG-GP FTI.si Richards 2001 (BSP).c pre.I-NFA- v pre.I-FLAG-GP pNON.si Richards 2001 (BSP).c pre.I-NFA- v pre.I-GPL+FLAG-PO+GP FTI.si	:	414 318 414		155 155 193	Low Low Low				
Richards 2001 (BSP).c pre.I-NFA- v pre.I-GPL+FLAG-PO+GP pNON.si Richards 2001 (BSP).c pre.I-noGPL- v pre.I-allGPL-PO FTI.si Richards 2001 (BSP).c pre.I-noGPL- v pre.I-allGPL-PO pNON.si	:	318 636		193 428	Low Low				
Richards 2001 (BSP).c pre.l-noFLAG- v pre.l-allFLAG-GP FTI.si Richards 2001 (BSP).c pre.l-noFLAG- v pre.l-allFLAG-GP pNON.si		553		348	Low				
Rutter 2006 (BSP).i -NFA- v pre.l-IMP-PO FTI.si Rutter 2006 (BSP).i pre.l-svy-PO v pre.l-IMP-PO FTI.si	80 91	107 139	188 188	270 270	Some Some	-		[-0.150; 0 [-0.055; 0	
Offman 2013 (BSP).i I-FixOH-PO v I-FiexOH-PO pNON.si Offman 2013 (BSP).i I-FixOH-PO v I-EVENING-PO pNON.si Offman 2013 (BSP).i I-FixOH-PO v I-WEEKEND-PO pNON.si	591	1933	225	650	Some Some Some	•	0.040	[-0.002; 0	0.082]
Offman 2013 (BSP).i I-OH-PO v I-OOH-PO pNON.si Kerrison 2015 (BSP).i -NFA- v pre.A-REM-TXT FTI.wi	703	1118	759	1122	Some		0.048	[0.008; 0	0.087]
Allgood 2016 (BSP),i -NFA- v pre.A-REM-PO FTI.si Allgood 2016 (BSP),i -NFA- v pre.A-REM-PO pNON.si	1164 48	1772 90	1280 44	1814 83	Low Low		0.049	[0.018; 0 [-0.152; 0	0.079]
Allgood 2017 (BSP) i R-OPEN-PO v R-FIXED-PO FTI.si	163	2072	369	2017	Low	_=	0.104	[0.084; 0).125]
Allgood 2017 (BSP),i R-OPEN-PO v R-FIXED-PO ItNON.si Lancaster 1992 (CSP),i I-Combi-PO v A-Combi-F2F pNON.si	97	4445 146	307	4283	Low			[0.041; 0	-
Stein 2005 (CSP), i LT-NFA- v LT-HCP-TEL (tNON.wi	5	285	4	285	Low			[-0.024; 0	-
Stein 2005 (CSP).i LT-NFA- v LT-HCPcomm-PO ltNON.wi Stein 2005 (CSP).i LT-NFA- v LT-celeb-PO ltNON.wi	5 5	285 285	13 5	285 285	Low Low	Į -	0.028 0.000	[-0.001; 0 [-0.022; 0).057]).022]
Stein 2005 (CSP), i LT-HCP-TEL v LT-HCPcomm-PO ItNON.wi Stein 2005 (CSP), i LT-HCP-TEL v LT-celeb-PO ItNON.wi Stein 2005 (CSP), i LT-HCPcomm-PO v LT-celeb-PO ItNON.wi	4 4 13	285 285 285	13 5 5	285 285 285	Low Low Low	*	0.004	[0.004; 0 [-0.017; 0 [-0.057; 0	0.024]
Cadman 2015 (CSP),i 2R-REM-PO v 2R-HTK-PO ItNON.si					Low				
Kitchener 2018a (CSP).c -NFA- v pre.I-WI-PO FTI.wi Kitchener 2018a (CSP).c -NFA- v pre.I-OPENonline-PO FTI.wi	3191 1190	10418 4467	3256 1518	10461 5267	Low Low	•		[-0.014; 0 [-0.003; 0	
Kitchener 2018b (CSP).c R-REM-PO v R-HTK-PO rNON.wi Kitchener 2018b (CSP).c R-REM-PO v R-HTK-PO rNON.wi	1026 1026	3782 3782	342 333	1141 1290	Low		-0.013	[-0.007; 0 [-0.046; 0	0.019]
Kitchener 2018b (CSP).c RREM-PO v RNN-TEL (NON.wi Kitchener 2018b (CSP).c RREM-PO v RFIXED-PO rNON.wi Kitchener 2018b (CSP).c RREM-PO v RNN/HTK-TEL/PO rNON.wi	1026 1026 1026	3782 3782 3782	230 472 385	1007 1629 1277	Low Low Low	 	0.018	[-0.077; -0 [-0.013; 0 [-0.004; 0	0.050]
Kitchener 2018b (CSP).c R.+HTK-PO v R.+HTK-OFFER rNON.wi Kitchener 2018b (CSP).c R.+HTK-PO v RNN-TEL rNON.wi Kitchener 2018b (CSP).c RHTK-PO v RFIXED-PO rNON.wi	342 342 342	1141 1141 1141	333 230 472	1290 1007 1629	Low Low Low		-0.071	[-0.080; -0 [-0.111; -0 [-0.048; 0	0.032]
Kitchener 2018b (CSP).c R-HTK-PO v R-NN/HTK-TEL/PO rNON.wi Kitchener 2018b (CSP).c R-HTK-OFFER v R-NN-TEL rNON.wi	342 333	1141 1290	385 230	1277 1007	Low Low	+	0.002 -0.030	[-0.038; 0 [-0.068; 0	0.041]
Kitchener 2018b (CSP).c R-HTK-OFFER v R-FIXED-PO rNON.wi Kitchener 2018b (CSP).c R-HTK-OFFER v R-NN/HTK-TELIPO rNON.wi Kitchener 2018b (CSP).c R-NN-TEL v R-FIXED-PO rNON.wi	333 333 230	1290 1290 1007	472 385 472	1629 1277 1629	Low Low Low	=	0.043 0.061	[-0.004; 0 [0.006; 0 [0.024; 0	0.081] 0.098]
Kitchener 2018b (CSP).c R-NN-TEL v R-NN/HTK-TEL/PO rNON.wi Kitchener 2018b (CSP).c R-FIXED-PO v R-NN/HTK-TEL/PO rNON.wi	230 472	1007 1629	385 385	1277 1277	Low Low			[0.034; 0 [-0.025; 0	
Judah 2018 (DES).i LT-INV-PO v LT-CASH-PO ItNON.wi Judah 2018 (DES).i LT-INV-PO v LT-LOT-PO ItNON.wi Judah 2018 (DES).i LT-INV-PO v LT-FIN-PO ItNON.wi	34 34 34	435 435 435	17 10 27	312 304 616	Low Low Low	 	-0.045	[-0.059; 0 [-0.077; -0 [-0.064; -0	0.013
						-0.3 -0.2 -0.1 0 0.1 0.2 0.3			•

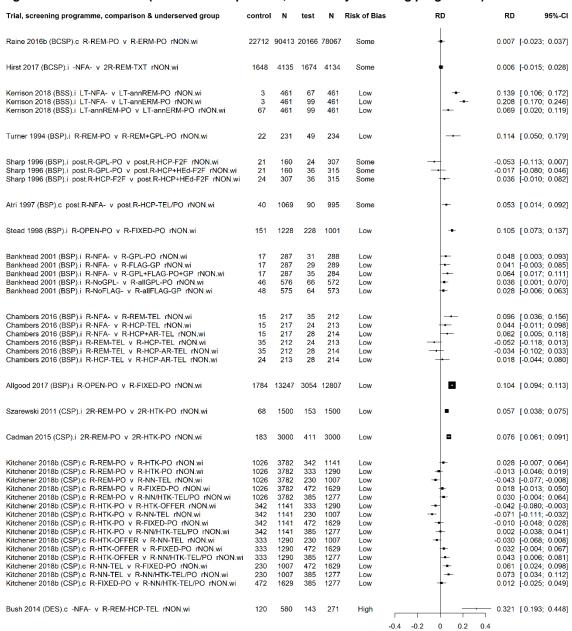
Figure 10 Odds ratio (screening history, ordered by screening programme)

Trial, screening programme, comparison & underserved group	y , اد contro		test	_	Risk of Bi		or	ę	95%-CI
Libby 2011 (BCSP).i I-PNL-PO v I-PNL+PIL-PO FTI.si	6461	11237	6370	11240	Low	4	0.97	[0.92;	1.02]
Shankleman 2014 (BCSP).c K-HCP-TEL v K-HCP-F2F FTI.si Shankleman 2014 (BCSP).c K-HCP-TEL v K-HCP-F2F pNON.si	228 165	497 826	171 203	416 886	High High	-	0.82 1.19	[0.54; [0.76;	1.25] 1.87]
O'Carroll 2015 (BCSP), i I-PNL-PO v I-PNL+HLOC-PO FTI.si O'Carroll 2015 (BCSP), i I-PNL-PO v I-PNL+HLOC-PO pNON.si O'Carroll 2015 (BCSP), I I-PNL-PO v I-PNL+HLOC-AR-PO FTI.si O'Carroll 2015 (BCSP), i I-PNL-PO v I-PNL+HLOC-AR-PO pNON.si O'Carroll 2015 (BCSP), i I-PNL+HLOC-PO v I-PNL+HLOC-AR-PO FTI.si O'Carroll 2015 (BCSP), i I-PNL+HLOC-PO v I-PNL+HLOC-AR-PO pNON.si	2233 2233 2240	8810 8810 8994	2240 2316 2316	8994 9028	Low Low Low Low Low		0.98 1.02 1.04	[0.91; [0.95; [0.97;	1.09]
Raine 2016a (BCSP).c I-INV-PO v I-GPE-PO FTI.si Raine 2016a (BCSP).c I-INV-PO v I-GPE-PO pNON.si	11646 5357	23582 40295		22287 40441	Low Low	=	1.09 1.06	[1.02; [1.00;	1.17] 1.13]
Raine 2016b (BCSP).c R-REM-PO v R-ERM-PO FTI.si Raine 2016b (BCSP).c R-REM-PO v R-ERM-PO pNON.si	5398 2329	21271 43329		14483 39862	Some Some	-	1.02 1.12	[0.95; [1.02;	1.10] 1.22]
McGregor 2016 (BCSP).c K-PIL-PO v K-PIL+EWI-PO FTI.si McGregor 2016 (BCSP).c K-PIL-PO v K-PIL+EWI-PO pNON.si	6231 3284	12510 22892		15281 22209	Low Low		1.03 0.97	[0.99; [0.90;	1.08] 1.04]
Smith 2017 (BCSP).c K-PIL-PO v K-PIL+SWI-PO FTI.si Smith 2017 (BCSP).c K-PIL-PO v K-PIL+SWI-PO pNON.si	5981 3479	12410 24551		13034 26368	Low Low	8	1.04 1.03	[0.98; [0.97;	1.10] 1.10]
Hirst 2017 (BCSP).i -NFA- v 2R-REM-TXT FTI.si	282	809	297	733	Some		1.27	[1.04;	1.57]
Turner 1994 (BSP),i R-REM-PO v R-REM+GPL-PO FTI.si Turner 1994 (BSP),i R-REM-PO v R-REM+GPL-PO pNON.si	4 3	42 104	7 7	42 101	Low Low		1.90 — 2.51	[0.51; [0.63;	7.05] 9.98]
Meldrum 1994 (BSP).i I-INV-PO v I-INDIV-PO FTI.si Meldrum 1994 (BSP).i I-INV-PO v I-INDIV-PO pNON.si	201 60	372 256	230 38	384 253	Low Low		1.27 0.58	[0.95; [0.37;	1.70] 0.91]
Stead 1998 (BSP), i R-OPEN-PO v R-FIXED-PO FTI.si Stead 1998 (BSP), i R-OPEN-PO v R-FIXED-PO pNON.si Stead 1998 (BSP), i R-OPEN-PO v R-FIXED-PO INON.si	35 27 21	389 512 429	76 35 26	312 446 386	Low Low Low	<u></u>	3.26 1.53 1.40	[2.11; [0.91; [0.78;	5.02] 2.57] 2.54]
OConnor 1998 (BSP),i -NFA- v pre.I-GPL-PO FTI.si OConnor 1998 (BSP),i -NFA- v pre.I-GPL-PO pNON.si	22 24	56 72	29 24	53 73	Low Low		1.87 0.98	[0.87; [0.49;	4.00] 1.96]
Bankhead 2001 (BSP).i R-NFA- v R-GPL-PO FTI.wi Bankhead 2001 (BSP).i R-NFA- v R-FLAG-GP FTI.wi Bankhead 2001 (BSP).i R-NFA- v R-GPL-FLAG-PO+GP FTI.wi Bankhead 2001 (BSP).i R-NoFLAG- v R-allFLAG-GP FTI.wi Bankhead 2001 (BSP).i R-NoFLAG- v R-allFLAG-GP FTI.wi		96 96 96 188 202		106 92 100 206 192	Low Low Low Low				
Richards 2001 (BSP).c pre.I-NFA- v pre.I-GPL-PO FTI.si Richards 2001 (BSP).c pre.I-NFA- v pre.I-GPL-PO pNON.si Richards 2001 (BSP).c pre.I-NFA- v pre.I-FLAG-GP FTI.si Richards 2001 (BSP).c pre.I-NFA- v pre.I-FLAG-GP pNON.si Richards 2001 (BSP).c pre.I-NFA- v pre.I-FLAG-GP pNON.si Richards 2001 (BSP).c pre.I-NFA- v pre.I-GPL-FLAG-PO-GP FTI.si Richards 2001 (BSP).c pre.I-NFA- v pre.I-GPL-FLAG-PO-GP pNON.si Richards 2001 (BSP).c pre.I-noGPL- v pre.I-aliGPL-PO pNON.si Richards 2001 (BSP).c pre.I-noFLAG- v pre.I-aliGPL-PO pNON.si Richards 2001 (BSP).c pre.I-noFLAG- v pre.I-aliGFL-PO pNON.si Richards 2001 (BSP).c pre.I-noFLAG- v pre.I-aliGFL-PO pNON.si Richards 2001 (BSP).c pre.I-noFLAG- v pre.I-aliGFL-GP FTI.si Richards 2001 (BSP).c pre.I-noFLAG- v pre.I-aliGFLAG-GP pNON.si		414 318 414 318 414 318 636		235 235 155 155 193 193 428	Low Low Low Low Low Low Low Low				
Rutter 2006 (BSP).i -NFA- v pre.I-IMP-PO FTI.si Rutter 2006 (BSP).i pre.I-svy-PO v pre.I-IMP-PO FTI.si	80 91	107 139	188 188	270 270	Some Some		0.77 1.21	[0.47; [0.78;	1.29] 1.87]
Offman 2013 (BSP).i I-FixOH-PO v I-FlexOH-PO pNON.si Offman 2013 (BSP).i I-FixOH-PO v I-EVENING-PO pNON.si Offman 2013 (BSP).i I-FixOH-PO v I-WEEKEND-PO pNON.si Offman 2013 (BSP).i I-OH-PO v I-OOH-PO pNON.si	591	1933	225	650	Some Some Some Some	-	1.20	[1.00;	1.45]
Kerrison 2015 (BSP).i -NFA- v pre.A-REM-TXT FTI.wi	703	1118	759	1122	Low		1.23	[1.04;	1.47]
Allgood 2016 (BSP).i -NFA- v pre.A-REM-PO FTI.si Allgood 2016 (BSP).i -NFA- v pre.A-REM-PO pNON.si	1164 48	1772 90	1280 44	1814 83	Low Low	-	1.25 0.99	[1.09; [0.54;	1.44] 1.79]
Allgood 2017 (BSP),i R-OPEN-PO v R-FIXED-PO FTI.si Allgood 2017 (BSP),i R-OPEN-PO v R-FIXED-PO ltNON.si	163 97	2072 4445	369 307	2017 4283	Low Low	-	2.62 3.46	[2.16; [2.74;	3.19] 4.37]
Lancaster 1992 (CSP),i I-Combi-PO v A-Combi-F2F pNON.si	62	146	24	121	Some		0.34	[0.19;	0.58]
Stein 2005 (CSP); LT-NFA- v LT-HCP-TEL ItNON.wi Stein 2005 (CSP); LT-NFA- v LT-HCPcomm-PO ItNON.wi Stein 2005 (CSP); LT-NFA- v LT-ceteb-PO ItNON.wi Stein 2005 (CSP); LT-HCP-TEL v LT-HCPcomm-PO ItNON.wi Stein 2005 (CSP); LT-HCP-TEL v LT-Geb-PO ItNON.wi Stein 2005 (CSP); LT-HCP-CTEL v LT-Geb-PO ItNON.wi Stein 2005 (CSP); LT-HCPcomm-PO v LT-celeb-PO ItNON.wi	5 5 4 4 13	285 285 285 285 285 285 285	4 13 5 13 5 5	285 285 285 285 285 285 285	Low Low Low Low Low		0.80 2.68 1.00 — 3.36 1.25 0.37	[0.21; [0.94; [0.29; [1.08; [0.33; [0.13;	3.00] 7.61] 3.49] 10.42] 4.72] 1.06]
Cadman 2015 (CSP).i 2R-REM-PO v 2R-HTK-PO ltNON.si					Low				
Kitchener 2018a (CSP).c -NFA- v pre.l-WI-PO FTI.wi Kitchener 2018a (CSP).c -NFA- v pre.l-OPENonline-PO FTI.wi	3191 1190	10418 4467	3256 1518	10461 5267	Low Low	+	1.01 1.10	[0.93; [0.94;	1.11] 1.28]
Kitchener 2018b (CSP).c R-REM-PO v R-HTK-PO rNON.wi Kitchener 2018b (CSSP).c R-REM-PO v R-HTK-PO rNON.wi Kitchener 2018b (CSSP).c R-REM-PO v R-HTK-PO rNON.wi Kitchener 2018b (CSP).c R-REM-PO v R-FIXED-PO rNON.wi Kitchener 2018b (CSP).c R-REM-PO v R-FIXED-PO rNON.wi Kitchener 2018b (CSP).c R-HTK-PO v R-HTK-OFFER rNON.wi Kitchener 2018b (CSP).c R-HTK-PO v R-HTK-OFFER rNON.wi Kitchener 2018b (CSP).c R-HTK-PO v R-RINATEL rNON.wi Kitchener 2018b (CSP).c R-HTK-PO v R-RINATEL rNON.wi Kitchener 2018b (CSP).c R-HTK-PO v R-RINATEL rNON.wi Kitchener 2018b (CSP).c R-HTK-OFFER v R-NN-HTL rNON.wi Kitchener 2018b (CSP).c R-HTK-OFFER v R-RINATEL rNON.wi Kitchener 2018b (CSP).c R-HTK-OFFER v R-RINATEL rNON.wi Kitchener 2018b (CSP).c R-HTK-OFFER v R-RINATEL RT-EUPO rNON.wi Kitchener 2018b (CSP).c R-NN-TEL v R-RINATEL-PO rNON.wi Kitchener 2018b (CSP).c R-NN-TEL v R-RINATH-TE-PO rNON.wi Kitchener 2018b (CSP).c R-NN-TEL v R-RINATH-TE-PO rNON.wi Kitchener 2018b (CSP).c R-NN-TEL v R-RINATH-TE-PO rNON.wi Kitchener 2018b (CSP).c R-RN-TEL v R-RINATH-TE-PO rNON.wi Kitchener 2018b (CSP).c R-RN-TEL v R-RINATH-TE-PO rNON.wi Kitchener 2018b (CSP).c R-RN-TEL v R-RINATH-TE-PO rNON.wi	1026 1026 1026 1026 1026 1026 342 342 342 333 333 333 230 272	3782 3782 3782 3782 3782 1141 1141 1141 1141 1290 1290 1290 1007 1007 1629	342 333 230 472 385 333 230 472 385 230 472 385 472 385 472 385 385	1141 1290 1007 1629 1277 1290 1007 1629 1277 1629 1277 1629 1277 1627	Low	- - - - - - - - - - - - - - - - - - -	1.29 1.06 0.80 1.19 1.06 0.81 0.69 0.95 1.01 0.85 1.17 1.24 1.38 1.46	[1.06; [0.88; [0.64; [0.97; [0.67; [0.56; [0.79; [0.84; [0.69; [0.98; [1.03; [1.13; [1.19; [0.89;	1.57] 1.26] 0.99] 1.46] 1.29] 0.99] 0.85] 1.14] 1.22] 1.05] 1.40] 1.50] 1.68] 1.79]
Judah 2018 (DES),i LT-INV-PO v LT-CASH-PO ItNON.wi Judah 2018 (DES),i LT-INV-PO v LT-LOT-PO ItNON.wi Judah 2018 (DES),i LT-INV-PO v LT-FIN-PO ItNON.wi	34 34 34	435 435 435	17 10 27	312 304 616	Low Low Low	0.1 0.5 1 2	0.68 0.40 0.54 7	[0.37; [0.20; [0.32;	1.24] 0.82] 0.91]

6 Forest plots for recent non-responders (trials of reminders)

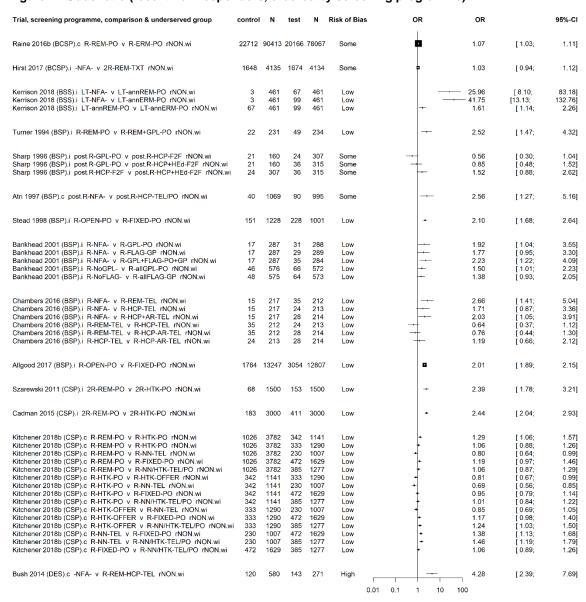
Control arms with no reminders at all have been excluded from this analysis, apart from those for BSS, as reminders are already a part of the standard screening process for other programmes because there is very strong evidence that they improve uptake.

Figure 11 Risk difference (recent non-responders, ordered by screening programme)



Assumes ICC of 0.03 for Atri 1997, Bush 2014 and Raine 2016b because ICC not reported.

Figure 12 Odds ratio (recent non-responders, ordered by screening programme)



For Raine 2016b, adjusted OR is reported.