1. Participant flow



2. Baseline characteristics

Characteristic	Total	Usual Care	Intervention
	404	202	202
Age (Years)			
Mean (SD)	54.77 (14.50)	55.58 (13.82)	53.96 (15.11)
Gender			
Female N (%)	158 (39.11)	86 (42.57)	72 (35.64)
Male N (%)	246 (60.89)	116 (57.43)	130 (64.36)
Ethnic group			
White British (%)	372 (92.08)	189 (93.56)	183 (90.59)
White Other* (%)	15 (3.71)	6 (2.98)	9 (4.46)
Other† (%)	11 (2.72)	3 (1.50)	8 (3.96)
Unknown (%)	6 (1.49)	4 (1.96)	2 (0.99)
Multiple deprivation index rank			
1 – most deprived(%)	168 (42.00)	82 (41.21)	86 (42.79)
2 (%)	85 (21.25)	47 (24.62)	38 (18.91)
3 (%)	60 (15.00)	31 (15.58)	29 (14.43)
4 (%)	42 (10.50)	19 (9.55)	23 (11.44)
5 – least deprived (%)	45 (11.25)	20 (10.05)	25 (12.44)
Reason admitted to hospital	- \ - /	· · · · /	, ,
Elective surgery N (%)	58 (14.36)	26 (12.87)	32 (15.84)
Emergency N (%)	340 (84.16)	172 (85.15)	168 (83.17)
Routine care N (%)	3 (0.74)	3 (1.47)	0
Other N (%)	3 (0.74)	1 (0.49)	2 (0.99)
Number of other people living in the house	3 (0.74)	1 (0.49)	2 (0.99)
Adults			
Mean (SD)	0.88 (0.92)	0.86 (0.89)	0.90 (0.95
Children	0.88 (0.92)	0.80 (0.89)	0.90 (0.93
Mean (SD)	0.44 (0.99)	0.41 (0.93)	0.47 (1.05)
Qualification	0.44 (0.55)	0.41 (0.93)	0.47 (1.03)
None N (%)	163 (40.35)	84 (41.58)	79 (39.11)
GCSEs N (%)	117 (28.96)	45 (22.28)	72 (35.64)
A-levels/AS-levels N (%)	44 (10.89)	23 (11.39)	21 (10.40)
Degree N (%)	38 (9.41)	23 (11.39)	15 (7.43)
Other (%)	42 (10.40)	27 (13.37)	15 (7.43)
General No of cigs daily before admission	42 (10.40)	27 (13.37)	15 (7.45)
Median (IQR)	15 (10-20)	15 (10 - 20)	15 (9–20)
Heaviness of smoking index	15 (10-20)	15 (10 - 20)	15 (9-20)
Very low dependence (%)	139 (35.10)	60 (30.30)	79 (39.90)
Low to moderate dependence (%)	119 (30.05)	59 (29.80)	60 (30.30)
Moderate dependence	94 (23.74)	48 (24.24)	46 (23.23)
High dependence	44 (11.11)	31 (15.66)	13 (6.57)
Fagestrom score	······	51 (15.00)	13 (0.37)
No dependence	17 (4.21)	8 (3.96)	9 (4.46)
Low dependence	60 (14.85)	26 (12.87)	34 (16.83)
Low to moderate dependence	110 (27.23)	51 (25.25)	59 (29.21)
Moderate dependence	169 (41.83)	92 (45.54)	77 (38.12)
High dependence	48 (11.88)	25 (12.38)	23 (11.39)
Live with other smokers	+0 (11.00)		
Yes	144 (37.11)	77 (40.10)	67 (34.18)
No	244 (62.89)	115 (59.90)	129 (65.82)
Years as a smoker		113 (33.30)	123 (03.02)
<1	1 (0.26)	0	1 (0.52)
1-10	25 (6.53)	8 (4.19)	17 (8.85)
T - TO	23 (0.33)	0 (4.15)	11 (0.0)

11 - 20	53 (13.84)	23 (12.04)	30 (15.63)
21 -40	146 (38.12)	76 (39.79)	70 (36.46)
41 +	158 (41.25)	84 (43.98)	74 (38.54)
Readmission status			
Readmitted to hospital between baseline and 4 weeks post discharge	43 (10.64)	18 (8.91)	25 (12.38)
Readmitted to hospital between baseline and 3 months post discharge	69 (17.08)	31 (15.35)	38 (18.81)
Duration of admisssion			
Median (IQR)	3 (1 - 6)	2 (1 – 5)	3 (1 – 6)

* White – Irish and European †Mixed White and Black Carribean, Mixed White and Black African, Asian/Asian British Indian, Asian/Asian British Pakistani, Black/Black British Carribean, Black/Black British African, Any Other Ethnic Group

3. Outcome measures

Trial effectiveness summaries: Four week and three month comparison by treatment arm (Odds Ratio)

				-	
	Usual Care	Intervention	Unadjusted	Adjusted	Adjusted
	Group	Group		model 1†	model 2 ‡
			Odds ratio	Odds ratio	Odds ratio
			(95% CI)	(95% CI)	(95% CI)
			[P-value]	[P-value]	[P-value]
Total	202	202	404	392	277
Continuous smoking	38 (18.81%)	43 (21.29%)	1.17	1.05	0.95
cessation, validated at			(0.72, 1.90)	(0.64, 1.73)	(0.56, 1.62)
4 weeks*			[0.53]	[0.84]	[0.85]
Self-reported	50 (24.75%)	55 (27.23%)	1.14	1.11	0.99
continuous smoking	50 (24.7570)	55 (27.2570)	(0.73, 1.78)	(0.70, 1.75)	(0.60, 1.63)
cessation (4 weeks)			[0.57]	[0.66]	[0.97]
cessation (4 weeks)			[0.37]	[0.00]	[0.97]
Self-report having a	92 (45.54%)	102 (50.50%)	1.22	1.11	1.06
smoke-free home (4			(0.83, 1.80)	(0.72, 1.70)	(0.69, 1.64)
weeks)			[0.32]	[0.64]	[0.78]
,					
Self-reported	32	42	1.39	1.32	1.31
continuous smoking	(15.84%)	(20.79%)	(0.84, 2.32)	(0.78, 2.22)	(0.74, 2.32)
cessation (3 months)			[0.17]	[0.30]	[0.35]
Continuous smoking	29	28	0.96	0.86	0.81
cessation, validated at	(14.36%)	(13.86%)	(0.55, 1.68)	(0.49, 1.53)	(0.44, 1.50)
3 months [*]			[0.89]	[0.67]	[0.51]

* Validated by exhaled CO less than 6ppm † Adjusted for co-habitation with a smoker status, deprivation index & heaviness of smoking index ‡ Adjusted for readmission status, cohabitation with a smoker status, deprivation index & heaviness of smoking index

Adherence to and helpfulness of intervention components at three months (intervention group only)

	Used at least Participants reporting	
	once during	the component as
	trial(%)	useful [*] (%)
Received behavioural support	97 (79.51%)	61 (62.89%)
Home visit	89 (72.95%)	64 (71.91%)
Nicotine Replacement Therapy	69 (56.56%)	47 (68.12%)
Supportive phone calls texts	69 (56.56%)	37 (53.62%)
Support to make home Smoke-Free	25 (20.49%)	13 (52.00%)
Air quality feedback	20 (16.39%)	14 (70.00%)
Information on E-Cigarettes	16 (13.11%)	7 (43.75%)
Advice given to other smokers about quitting**	12(9.84%)	4 (33.33%)
Signposting to websites	12 (9.84%)	2 (16.67%)
Signposting to phone apps	12 (9.84%)	2 (16.67%)
Referral to local SSS	2 (1.64%)	0 (0%)

*In those using the component

** To family, carers, others.

4. Adverse events

There were no adverse events associated with this trial