Biomedical risk assessment as an aid for smoking cessation [Data only. When citing 0.1-Jun-2018]

1 All interventions

1.1 Smoking cessation (Lung age spiro only)



Review Manager 5.3

Biomedical risk assessment as an aid for smoking cessation [Data only. When citing0.1-Jun-2018]

1.2 Smoking cessation (spiro only vs CO)

	Intervention		Control		Risk Ratio		Risk Ratio	Risk of Bias			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl				
1.2.4 Spirometry (primary care)											
Buffels 2006	20	102	19	113	9.8%	1.17 [0.66, 2.06]					
Ojedokun 2013	31	192	18	209	9.4%	1.87 [1.09, 3.24]					
Parkes 2008	38	280	18	281	9.7%	2.12 [1.24, 3.62]					
Segnan 1991	19	292	15	275	8.4%	1.19 [0.62, 2.30]					
Subtotal (95% CI)		866		878	37.3%	1.60 [1.20, 2.12]					
Total events	108		70								
Heterogeneity: Chi ² =	3.34, df = 3	(P = 0.	34); l² = ²	10%							
Test for overall effect:	Z = 3.24 (F	P = 0.00	1)								
1.2.6 CO and spirome	etry										
Foulds 2015	61	120	55	105	31.8%	0.97 [0.75, 1.25]					
McClure 2009	40	267	35	269	18.9%	1.15 [0.76, 1.75]					
Risser 1990	9	45	3	45	1.6%	3.00 [0.87, 10.36]		→			
Sippel 1999	9	103	14	102	7.6%	0.64 [0.29, 1.40]					
Walker 1985	10	32	5	32	2.7%	2.00 [0.77, 5.20]		-			
Subtotal (95% CI)		567		553	62.7%	1.08 [0.88, 1.33]	•				
Total events	129		112								
Heterogeneity: Chi ² =	6.70, df = 4	(P = 0.	15); l ² = 4	40%							
Test for overall effect:	Z = 0.74 (F	P = 0.46)								
Total (95% CI)		1433		1431	100.0%	1.27 [1.08, 1.51]	•				
Total events	237		182								
Heterogeneity: Chi ² = 15.81, df = 8 (P = 0.05); l ² = 49%											
Test for overall effect:	Z = 2.81 (F	U.2 U.5 1 2	5 ontion								
Test for subgroup diffe	erences: Cr	ni² = 4.7	, 3, df = 1 ((P = 0.0)3), l² = 78	8.9%	Favours control Favours Interv	ention			
Risk of bias legend											

Biomedical risk assessment as an aid for smoking cessation [Data only. When citing0.1-Jun-2018]

1.3 Smoking cessation (Lung age)

	Intervention		Control		Risk Ratio		Risk Ratio Risk of Bias			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl			
1.3.4 No Lung age										
Buffels 2006	20	102	19	113	9.8%	1.17 [0.66, 2.06]				
McClure 2009	40	267	35	269	18.9%	1.15 [0.76, 1.75]				
Risser 1990	9	45	3	45	1.6%	3.00 [0.87, 10.36]				
Segnan 1991	19	292	15	275	8.4%	1.19 [0.62, 2.30]				
Sippel 1999	9	103	14	102	7.6%	0.64 [0.29, 1.40]				
Walker 1985	10	32	5	32	2.7%	2.00 [0.77, 5.20]				
Subtotal (95% CI)		841		836	49 .1%	1.19 [0.92, 1.54]	◆			
Total events	107		91							
Heterogeneity: Chi ² = 5	5.70, df = 5	5 (P = 0.	34); I ² = 1	12%						
Test for overall effect:	Z = 1.31 (F	P = 0.19)							
1.3.5 Spirometry with	lung age	feedba	ck (with c	or with	out CO)					
Foulds 2015	61	120	55	105	31.8%	0.97 [0.75, 1.25]				
Ojedokun 2013	31	192	18	209	9.4%	1.87 [1.09, 3.24]				
Parkes 2008	38	280	18	281	9.7%	2.12 [1.24, 3.62]				
Subtotal (95% CI)		592		595	50.9%	1.36 [1.09, 1.69]	\bullet			
Total events	130		91							
Heterogeneity: Chi ² = ²	10.71, df =	2 (P = 0	0.005); l ²	= 81%						
Test for overall effect:	Z = 2.72 (F	P = 0.00	7)							
Total (95% CI)		1433		1431	100.0%	1.27 [1.08, 1.51]	◆			
Total events	237		182							
Heterogeneity: Chi ² = 15.81, df = 8 (P = 0.05); l ² = 49%										
Test for overall effect: $Z = 2.81$ (P = 0.005)										
Test for subgroup diffe	rences: Cl	ni² = 0.5	, 7, df = 1 ((P = 0.4	l5), l² = 0%	6	ravours control ravours intervention			
Risk of bias legend					•					

Biomedical risk assessment as an aid for smoking cessation [Data only. When citing0.1-Jun-2018]

1.4 Smoking cessation (all studies)

	Interven	tion	Conti	rol		Risk Ratio	Risk Ratio	Risk of Bias
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl	
1.4.4 Spirometry (pri	mary care))						
Buffels 2006	20	102	19	113	9.8%	1.17 [0.66, 2.06]		
Segnan 1991 Subtotal (95% CI)	19	292 394	15	275 388	8.4% 18.2%	1.19 [0.62, 2.30] 1.18 [0.77, 1.81]	-	
Total events	39		34					
Heterogeneity: Chi ² =	0.00, df = 1	(P = 0.	96); l² = (0%				
Test for overall effect:	Z = 0.75 (F	P = 0.45)					
1.4.5 Spirometry wit	n lung age	feedba	ck (prima	ary car	e)			
Ojedokun 2013	31	192	18	209	9.4%	1.87 [1.09, 3.24]		
Parkes 2008	38	280	18	281	9.7%	2.12 [1.24, 3.62]		
Subtotal (95% CI)		472		490	19.1%	2.00 [1.36, 2.93]		
Total events	69		36					
Heterogeneity: Chi ² =	0.10, df = 1	(P = 0.	75); l² = (0%				
Test for overall effect:	Z = 3.55 (F	P = 0.00	04)					
1.4.6 CO and spirom	etry (smoki	ing clin	ic)					
Walker 1985	10	32	5	32	2.7%	2.00 [0.77, 5.20]		_
Subtotal (95% CI)		32		32	2.7%	2.00 [0.77, 5.20]		
Total events	10		5					
Heterogeneity: Not ap	plicable							
Test for overall effect:	Z = 1.42 (F	P = 0.15)					
1.4.7 CO and spirom	etry (vetera	ans hea	Ith prom	. clinic)			
Risser 1990	9	45	3	45	1.6%	3.00 [0.87, 10.36]		\rightarrow
Subtotal (95% CI)		45		45	1.6%	3.00 [0.87, 10.36]		
Total events	9		3					
Heterogeneity: Not ap	plicable							
Test for overall effect:	Z = 1.74 (F	° = 0.08)					
1.4.8 CO and spirom	etry (prima	ry care)					
Foulds 2015	61	120	55	105	31.8%	0.97 [0.75, 1.25]		
Sippel 1999	9	103	14	102	7.6%	0.64 [0.29, 1.40]		
Subtotal (95% CI)		223		207	39.5%	0.91 [0.71, 1.16]	-	
Total events	70		69					
Heterogeneity: Chi ² =	1.05, df = 1	(P = 0.	31); l² = 4	4%				
Test for overall effect:	Z = 0.78 (F	° = 0.43)					
1.4.9 CO and spirom	etry (resea	rch inst	titution)					
McClure 2009	40	267	35	269	18.9%	1.15 [0.76, 1.75]		
Subtotal (95% CI)		267		269	18.9%	1.15 [0.76, 1.75]		
Total events	40		35					
Heterogeneity: Not ap	plicable							
Test for overall effect:	Z = 0.66 (F	P = 0.51)					
Total (95% CI)		1433		1431	100.0%	1.27 [1.08, 1.51]	•	
Total events	237		182					
Heterogeneity: Chi ² =	15.81, df =	8 (P = 0	0.05); I² =	49%				5
Test for overall effect:	Z = 2.81 (F	P = 0.00	5)				Favours control Favours inter	vention
Test for subgroup diffe	erences: Ch	ni² = 15.	03, df = 5	5 (P = 0	.01), I² = 6	6.7%		
<u>Risk of bias legend</u>								

Biomedical risk assessment as an aid for smoking cessation [Data only. When citing01-Jun-2018]

1.5 Smoking cessation

	Intervention		Control		Risk Ratio		Risk Ratio	Risk of Bias
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI	
Buffels 2006	20	102	19	113	26.2%	1.17 [0.66, 2.06]		
Ojedokun 2013	31	192	18	209	25.1%	1.87 [1.09, 3.24]		
Parkes 2008	38	280	18	281	26.2%	2.12 [1.24, 3.62]		
Segnan 1991	19	292	15	275	22.5%	1.19 [0.62, 2.30]		
Total (95% CI)		866		878	100.0%	1.60 [1.20, 2.12]	•	
Total events	108		70					
Heterogeneity: Chi ² =	3.34, df = 3	B (P = 0.						
Test for overall effect:	Z = 3.24 (F	P = 0.00	Favours control Favours interve	ention				

Risk of bias legend