Table of extracted systematic review evidence statements

Source	Evidence statements	Quality reported (yes or no/unclear)	Method of quality assessment
Cochrane			
Bala <i>et al.</i> 2008 ¹²¹	There is evidence that comprehensive tobacco control	Recommendations: no	Recommendations: no
	programmes that include mass media campaigns can be effective in changing smoking behaviour in adults	Evidence: yes	Evidence: criteria reported [Cochrane Effective Practice and Organisation of Care Group (EPOC 2006) ⁴²¹]
Brunner et al.	Dietary advice appears to be effective in bringing	Recommendations: no	Recommendations: no
2007 ²³²	about modest beneficial changes in diet (longer-term effects are not known)	Evidence: yes	Evidence: criteria reported (descriptive)
Cahill <i>et al.</i>	Varenicline increased the chances of successful long-	Recommendations: no	Included only RCTs
2008 ¹⁶⁷	term smoking cessation	Evidence: yes	Recommendations: no
			Evidence: criteria reported (<i>Cochrane</i> handbook for systematic reviews on interventions ⁴²²)
Cahill <i>et al.</i>	Workplace interventions including individual	Recommendations: no	Recommendations: no
2008 ¹²³	counselling, group counselling and pharmacological treatment are effective	Evidence: yes	Evidence: criteria reported (descriptive)
Dobbins et al.	There is good evidence that school-based physical	Recommendations: no	Recommendations: no
2009 ¹⁸⁰	activity interventions have a positive impact on four of the nine outcome measures. Specifically, positive effects were observed for duration of physical activity, television viewing and VO_{2max}	Evidence: yes	Evidence: criteria reported (a previously developed and tested quality assessment tool ⁴²³)
Foster et al.	Results are indicative that professional advice and guidance with continued support can encourage people to be more physically active in the short to mid-term. Conclusions about the effectiveness of individual aspects of interventions must be interpreted with caution as studies were heterogeneous	Recommendations: no	Included RCTs only
2005 ²⁰⁴		Evidence: yes	Recommendations: no
			Evidence: criteria reported (descriptive)
Hughes et al.	The antidepressants bupropion and nortriptyline aid long-term smoking cessation (evidence suggests that they are of similar efficacy to nicotine replacement)	Recommendations: no	Included RCTs only
2007 ¹⁶³		Evidence: yes	Recommendations: no
			Evidence: criteria reported (descriptive – reported to be consistent with Cochrane methods)
Lancaster and	Individually delivered smoking cessation counselling	Recommendations: no	Recommendations: no
Stead 2005 ¹³⁰	can assist smokers to quit. Did not detect a greater effect with intensive counselling compared with brief counselling	Evidence: yes	Evidence: criteria reported (descriptive)
Lancaster and	Standard self-help materials may increase quit rates	Recommendations: no	Recommendations: no
Stead 2005 ¹⁴⁰	compared with no intervention, but the effect is likely to be small. Absolute effect size that tailored materials are more effective than untailored materials was small	Evidence: yes	Evidence: criteria reported (descriptive)
Rice and Stead	Reasonable evidence of potential benefits of smoking	Recommendations: no	Included RCTs only
2008 ¹⁵⁰	cessation advice and/or counselling provided by nurses to patients; the effect was weaker when nurse	Evidence: yes	Recommendations: no
	providers' main role was not health promotion or smoking cessation		Evidence: criteria reported (Cochrane methods)
Stead and	Group therapy is effective for helping people stop	Recommendations: no	Recommendations: no
Lancaster 2005 ¹³³	smoking. There is insufficient evidence to support the use of any specific psychological components and insufficient evidence whether or not group counselling is more effective than intensive counselling	Evidence: yes	Evidence: criteria reported (descriptive)

Source	Evidence statements	Quality reported (yes or no/unclear)	Method of quality assessment
Stead <i>et al.</i> 2006 ¹³⁶	Proactive telephone counselling helps smokers interested in quitting to quit. Evidence of dose—response: one or two calls may be insufficient; three or more calls increase likelihood of quitting. This is compared with minimal intervention, i.e. standard self-help materials, brief advice or pharmacotherapy alone	Recommendations: no Evidence: yes	Included RCTs or quasi-RCTs Recommendations: no Evidence: criteria reported (descriptive)
Stead <i>et al.</i> 2008 ¹⁵⁴	All of the commercially available forms of NRT (gum, transdermal patch, nasal spray, inhaler and sublingual tablets/lozenges) can help people who make a quit attempt to increase their chances of successfully stopping smoking. NRTs increase the rate of quitting by 50–70% regardless of setting. The effectiveness of NRT appears to be largely independent of the intensity of the additional support provided	Recommendations: no Evidence: yes	Included RCTs only Recommendations: no Evidence: criteria reported (descriptive)
Stead <i>et al.</i> 2008 ¹⁴⁷	Physician-provided brief advice has a small effect on smoking cessation: it can increase quitting by 1–3% over the assumed unassisted quit rate of 2–3%. There is a small additional benefit from more intensive intervention compared with brief intervention	Recommendations: no Evidence: yes	Included only RCTs Recommendations: no Evidence: criteria reported (<i>Cochrane</i> <i>Handbook</i> ⁴²²)
Whittaker <i>et al.</i> 2007 ¹⁶⁹	Mobile telephone (any intervention via mobile telephone delivery) interventions have been shown to have short-term effectiveness only; no long-term outcomes. Meta-analysis of text message programme trials demonstrated a significant increase in short-term self-reported quitting (RR 2.18, 95% CI 1.80 to 2.65). When data from the internet and mobile telephone programmes were pooled it significantly increased both short- and long-term self-reported quitting (RR 2.03, 95% CI 1.40 to 2.94)	Recommendations: no Evidence: yes	Recommendations: no Evidence: criteria reported (descriptive)
Database of Abstr	acts of Reviews of Effects		
Adams and White 2003 ¹⁹⁶	Transtheoretical model-based activity promotion programmes are effective in promoting adoption of physical activity in the short term; long-term evidence is limited but likely not promising	Recommendations: no Evidence: no	Recommendations: no Evidence: no explicit method reported
Ammerman <i>et al.</i> 2001 ²²⁹	Components such as social support, group delivery and family are associated with increasing fruit and vegetable consumption (greater increases in fruit than vegetable). Average increase in fruit and vegetable intake reported was 0.6 servings per day, along with consistent decreases in intake of total fat and saturated fat. The mean change in total fat intake estimated as a 7.3% reduction in the percentage of calories from fat. Interventions appeared to be more successful for those at risk or diagnosed with disease than for healthy populations. Difficult to draw conclusions because of heterogeneity; unclear long-term sustainability	Recommendations: no Evidence: yes	Recommendations: no Evidence: criteria reported (developed own quality rating form)
Ammerman et al. 2002 ²³⁰	Counselling patients can improve dietary behaviours, including reduction in dietary total and saturated fat and increases in fruit and vegetable intake. More intensive counselling and counselling directed to higher-risk patients have generally produced larger changes than less intensive interventions delivered to low-risk populations. Common feature: goal setting and self-monitoring	Recommendations: no Evidence: yes	Recommendations: no Evidence: criteria reported (descriptive)

Source	Evidence statements	Quality reported (yes or no/unclear)	Method of quality assessment
Ashenden et al.	For smoking cessation, meta-analysis showed that	Recommendations: no	Recommendations: no
1997 ¹³⁸	providing smoking cessation advice, brief or intensive, in primary care increased the odds of stopping smoking (OR 1.32, 95% CI 1.18 to 1.48); intensive-only advice improves this by a small amount (OR 1.46 compared with 1.27) — meta-analysis studies showed no significant difference between brief and intensive advice (OR 1.07, 95% CI 0.88 to 1.29). General practice-based lifestyle intervention may be promising but no evidence so far of substantial changes	Evidence: yes	Evidence: criteria reported (simplified version of Chalmers <i>et al.</i> ⁴²⁴)
	No definite conclusions for diet and exercise		
Blue and Black	There is evidence that physical activity and dietary	Recommendations: no	Recommendations: no
2005 ²¹¹	interventions which include educational components, including written materials; involving group sessions; and utilising behaviour change theory are successful in improving physical activity and dietary outcomes	Evidence: yes	Evidence: criteria reported (descriptive according to methods of Sidani and Braden ⁴²⁵)
Bravata <i>et al.</i> 2007 ²⁰⁸	Pedometer use increases physical activity. In RCTs pedometer users significantly increased their physical activity by 2491 steps per day compared with control participants (95% Cl 1098 to 3885 steps per day, p =0.001). Among observational studies, pedometer users significantly increased their physical activity by 2183 steps per day over baseline (95% Cl 1571 to 2796 steps per day over baseline (95% Cl 1571 to 2796 steps per day, p <0.0001). Overall, pedometer users increased their physical activity by 26.9% over baseline. An important predictor of increased physical activity was having a step goal such as 10,000 steps per day (p =0.001). When data from all studies were combined, pedometer users significantly decreased their BMI by 0.38 (95% Cl 0.05 to 0.72, p =0.03). This decrease was associated with older age (p =0.001) and having a step goal (p =0.04)	Recommendations: no Evidence: no	Recommendations: no Evidence: some criteria reported (descriptive)
Breckon et al.	Counselling can result in behavioural change and	Recommendations: no	Recommendations: no
2008 ¹⁸⁸	increased physical activity	Evidence: no	Evidence: no explicit method reported although criteria were mentioned
Brothwell 2001 ¹⁵¹	There is good evidence to recommend oral health professionals provide cessation counselling. Separately, there is good evidence to recommend the use of smoking cessation adjuncts, including NRT patches and gum and bupropion	Recommendations: yes	Recommendations: there is good
		Evidence: yes	evidence to recommend that oral health professionals provide cessation counselling for all patients who use tobacco [level of recommendation A, level of evidence I (meta-analysis and systematic reviews) and III (case series)]; there is good evidence to recommend the use of smoking cessation adjuncts (nicotine patches, gum and bupropion) [level of recommendation A, level of evidence I (meta-analysis and systematic reviews)]
			Evidence: criteria reported (Canadian Task Force on the Periodic Health Examination ⁴²⁶)
Brunner <i>et al.</i> 1997 ²³⁴	Dietary advice can lead to dietary change and modest risk reduction (changes in blood pressure and serum	Recommendations: no Evidence: no	Randomised (or systematically allocated) studies only
	cholesterol) among healthy adults. Longest study was 18 months		Recommendations: no
			Evidence: no explicit measure of quality of evidence reported

Source	Evidence statements	Quality reported (yes or no/unclear)	Method of quality assessment
Brunton et al.	For physical activity, the following have been	Recommendations: no	Recommendations: no
2003 ¹⁷⁹	demonstrated to be effective in one or more studies: education and provision of monitoring equipment for television or video game use; engaging parents in supporting or encouraging their children's physical activity and providing opportunities for family participation; and multicomponent, multisite interventions using a combination of education in the classroom, improvements in school PE and homebased activities. Unclear if consistent association or which are the essential components	Evidence: no	Evidence: criteria reported (methods used reported in previous EPPI-Centre health promotion reviews; only five evaluations judged to be methodologically sound — recommendations are based on these five evaluations)
Ciliska <i>et al.</i> 2000 ²³³	Of the 18 studies that were rated strong or moderate in quality, the most effective interventions were clear messages about increasing fruit and vegetable consumption; longer, more intensive interventions rather than one or two contacts; involved family members; had a greater impact on those with lower baseline values for knowledge and intake	Recommendations: no Evidence: yes	Recommendations: no Evidence: criteria reported (descriptive)
Clemmens and Hayman 2004 ¹⁹⁸	School-based, multicomponent interventions designed to decrease sedentary behaviour were also effective in increasing physical activity	Recommendations: no Evidence: no	RCTS and quasi-experimental designs only Recommendations: no Evidence: no explicit method reported
Contento et al.	Multifaceted, sustained, ongoing nutrition education, goal oriented with supportive educational strategies. Successful elements include motivating communications and group educational strategies, strategies for behavioural change, active involvement of both the individual and the community and building health-enhancing environments	Recommendations: no	Recommendations: no
1995 ²¹⁸		Evidence: unclear	Evidence: some criteria reported (descriptive)
Coruh et al.	Religion/religious setting, faith-based partnerships,	Recommendations: no	Recommendations: no
2005 ²²⁷	collaboration with churches may improve fruit and vegetable intake – although all of the studies this was based on were in African American populations	Evidence: yes	Evidence: criteria reported (investigators independently reviewed abstracts and used a modified Delphi to reach consensus; RCTs evaluated using CONSORT guidelines; other studies used guidelines published in the Canadian Medical Journal (127,428)
DeMattia <i>et al.</i> 2007 ²⁰⁹	Decreasing sedentary behaviours, as measured by self-reported television/video use and improved	Recommendations: no Evidence: no	Only controlled intervention studies included
	weight measures		Recommendations: no
			Evidence: criteria reported (validity assessed with items from the Jadad scale ⁴²⁹)
Dishman and Buckworth 1996 ¹⁹⁹	Behaviour modification for healthy people – larger effect observed when exercise is group based,	Recommendations: no Evidence: no	Strict inclusion criteria for meta- analysis
	unsupervised or when the emphasis is on leisure activities and is low intensity		Recommendations: no
D.11.	,	D	Evidence: no explicit method reported
Dobbins <i>et al.</i> 2001 ¹⁸¹	Limited but good evidence that school-based physical interventions are effective in increasing physical activity rates and duration in children and adolescents	Recommendations: no Evidence: yes	Recommendations: no Evidence: criteria reported (developed own)
Eakin <i>et al.</i> 2000 ¹⁸⁴	Primary care-based counselling for physical activity was found to be moderately effective in the short	Recommendations: no Evidence: yes	RCTs or quasi-experimental studies with comparison group
	term, although heterogeneous studies. Tailoring to participant characteristics and provision of written		Recommendations: no
	materials have larger effects		Evidence: criteria reported (based on the RE-AIM model ⁴³⁰)

Source	Evidence statements	Quality reported (yes or no/unclear)	Method of quality assessment
Eakin <i>et al.</i>	Telephone interventions are effective for physical	Recommendations: no	RCTs prioritised for inclusion
2007 ¹⁸⁶	activity and nutrition; positive factors include	Evidence: yes	Recommendations: no
	length of intervention and the number of calls, with interventions lasting 6–12 months and those including ≥ 12 calls producing the most favourable outcomes		Evidence: Cochrane guidelines ⁴³¹
Eisenberg <i>et al.</i> 2008 ¹⁵²	Pharmacotherapy (varenicline, bupropion and five other NRTs) was more efficacious than placebo for smoking abstinence at 6 and 12 months	Recommendations: no Evidence: no	Only included double-blind, placebo- controlled RCTs with biochemically validated outcomes
			Recommendations: no
			Evidence: no explicit method reported
Engbers et al.	Strong evidence of effect for worksite programmes on	Recommendations: no	Only RCTs/controlled trials included
2005 ²²⁵	dietary intake; inconclusive for physical activity	Evidence: yes	Recommendations: no
			Evidence: criteria reported (checklist by Cochrane Back Review Group ⁴³²)
Eriksen and	Smoking cessation worksite programmes found to be	Recommendations: no	Recommendations: no
Gottlieb 1998 ¹²⁴	more effective than minimal treatment programmes. Tobacco worksite policies also reduced cigarette consumption at work	Evidence: yes	Evidence: criteria reported (descriptive)
Etter and Stapleton	NRT is effective for smoking cessation; addition of	Recommendations: no	RCTs only included
2006155	NRT to brief advice or behavioural support has OR of	Evidence: no	Recommendations: no
	2, representing a 70–90% increase in cessation rate without NRT		Evidence: no explicit method reported
Faith <i>et al.</i> 2007 ²¹⁷	Strong evidence that subsidisation influences food purchases (but not necessarily food consumption or body weight). Ease of food access may influence food purchases, and possibly food intake and body weight. Policies at organisational level (e.g. schools and universities)	Recommendations: yes	Recommendations: yes
		Evidence: yes	Evidence: criteria reported (NHLIBI 2000 criteria ⁴³³)
Fichtenburg and	Smoke-free workplaces protect non-smokers and	Recommendations: no	Recommendations: no
Glantz 2002 ¹²⁵	encourage smokers to quit or reduce consumption	Evidence: no	Evidence: no explicit method reported
Fiore <i>et al.</i> 1994 ¹⁶⁰	NRT patch is an effective aid to quitting smoking across different patch-use strategies	Recommendations: no Evidence: no	Included only double-blind, placebo- controlled nicotine patch studies with random assignment of subjects and biochemical validation of abstinence
			Recommendations: no
			Evidence: no explicit method reported
Foster and Hillsdon	Changing environment or creating 'point of choice'	Recommendations: no	Recommendations: no
2004 ¹⁷⁵	educational materials show small increases for physical activity (before-and-after studies), e.g. stimulus for stair climbing shows consistent, small and short-term effects	Evidence: no	Evidence: no explicit method reported
Friend and Levy	Mass media campaigns for smoking cessation	Recommendations: no	Recommendations: no
2002 ¹¹⁹	targeting the general population (state level) along with comprehensive tobacco control programmes are associated with reduced smoking rates. More mixed results observed in youth-targeted interventions	Evidence: no	Evidence: no explicit method reported
Gorin and Heck 2004 ¹⁴⁵	Provider for increased smoking cessation: physicians > multiprovider > dentists and nurses (in order of effectiveness)	Recommendations: no Evidence: no	Only included RCTs or quasi- experimental studies Recommendations: no Evidence: no explicit method reported
Gourlay 1994 ¹⁶¹	Transdermal nicotine therapy is an effective smoking cessation therapy for motivated, nicotine-dependent smokers	Recommendations: no Evidence: no	Only included randomised double-blind trials
	omonoro		Recommendations: no
			Evidence: no explicit method reported

Source	Evidence statements	Quality reported (yes or no/unclear)	Method of quality assessment
Hillsdon and	Home-based moderate-intensity walking with regular	Recommendations: no	Recommendations: no
Thorogood 1996 ¹⁹⁴	follow-up increased physical activity. Home-based walking more successful than attendance-based structured exercise sessions	Evidence: no	Evidence: no explicit method reported, although EPPI-Centre review guidelines ⁴³⁴ used
Hillsdon et al.	Home-based physical activity intervention targeting	Recommendations: no	Recommendations: no
1995 ¹⁹³	sedentary subjects. Techniques associated with high levels of participation include unsupervised, informal or frequent professional contact, walking and moderate intensity	Evidence: yes	Evidence: criteria reported (descriptive)
Holmes et al.	There is a growing body of evidence supporting the	Recommendations: no	Recommendations: no
2004 ¹⁶⁴	effectiveness of bupropion slow release as an aid to smoking cessation; 6-month point prevalence smoking cessation rates ranged from 25% to 49%	Evidence: no	Evidence: no explicit method reported
Holtzman et al.	Behavioural interventions for physical activity provided	Recommendations: no	Recommendations: no
2004 ²¹⁵	evidence for short-term effect only	Evidence: yes	Evidence: criteria reported (<i>Guide to community preventive services</i> by Briss <i>et al.</i> ⁴³⁵ and scale developed by Chalmers <i>et al.</i> ⁴³⁶)
Hopkins <i>et al.</i> 2001 ¹¹⁸	Setting/policy: smoking bans in the workplace reduce exposure	Recommendations: yes Evidence: yes	Recommendations and evidence: community guide method (Briss <i>et</i>
	Environment: increasing tobacco prices; mass media to reduce tobacco use; reducing cost of cessation therapies	2.180.180.190	al. ⁴³⁵)
	Providers: multicomponent health-care systems with provider reminders and education with or without self-help materials		
	Resources: telephone cessation services combined with other components such as self-help materials as a minimum		
Howerton et al.	School-based nutrition interventions produced a	Recommendations: no	Recommendations: no
2007 ²¹⁹	moderate increase in fruit and vegetable intake among children	Evidence: no	Evidence: no explicit method reported
Hughes <i>et al.</i> 2003 ¹⁵⁷	Over-the-counter NRT is pharmacologically efficacious and produces modest quit rates similar to those seen in real-world prescription practice	Recommendations: no Evidence: no	Recommendations: no Evidence: no explicit method reported
Jago and	Physical activity can be increased during school	Recommendations: no	Recommendations: no
Baranowski 2004 ¹⁷⁸	break periods; can be increased by 17–60% through existing youth organisations, summer day camps and active transportation	Evidence: no	Evidence: no explicit method reported
Kamath <i>et al.</i> 2008 ²¹²	Paediatric obesity prevention programmes (physical activity and nutrition) caused small changes in target behaviours such as increasing physical activity, decreasing sedentary activity and decreasing unhealthy dietary behaviours. Trials of duration 6+ months and trials with post-intervention outcomes showed slightly larger effects	Recommendations: no Evidence: yes	Recommendations: no Evidence: criteria reported (descriptive)
Kerr <i>et al.</i> 2007 ¹⁶⁸	Varenicline shown to increase cessation rates compared with placebo (and possibly bupropion slow release). Limited safety concerns	Recommendations: no Evidence: no	Only included RCTs Recommendations: no Evidence: no explicit method reported

Source	Evidence statements	Quality reported (yes or no/unclear)	Method of quality assessment
Knai <i>et al.</i> 2006 ²²⁰	The evidence is strongest in favour of multicomponent	Recommendations: no	Recommendations: no
	interventions to increase fruit and vegetable consumption in children	Evidence: unclear	Evidence: criteria reported [a quality assessment tool (www.lshtm.ac.uk/ ecohost/projects/interventions-fruitveg.htm) was designed based on those of previous reviews by the Centre for Reviews and Dissemination of the University of York, UK ^{437,438}]
Kroeze <i>et al.</i> 2006 ²⁰⁷	Overall, there seems to be potential for the application of computer tailoring for promoting healthy diets	Recommendations: no Evidence: no	Only included RCTs with pre-test and post-test
			Recommendations: no
			Evidence: criteria reported (study protocol based on the <i>Cochrane Handbook</i> ⁴³⁹)
Kuhn et al.	Health coalitions for tobacco reduction; decrease	Recommendations: no	Recommendations: no
1999122	in smoking prevalence of 7% (10% for women < 35 years of age) among low socioeconomic neighbourhoods in a large city compared with 1% in comparable neighbourhoods in another city	Evidence: yes	Evidence: criteria reported (<i>Quality</i> assessment tool for quantitative studies developed for the EPHPP ²⁴⁹)
Law and Tang	Physician advice, behavioural modification techniques	Recommendations: no	Only included RCTs
1995 ¹⁴⁸	(relaxation, rewards and punishment, avoiding 'trigger'	Evidence: unclear	Recommendations: no
	situations, etc.) used in group or individual sessions led by a psychologist and NRT are all effective for smoking cessation. Among those who seek help in cessation, the effect is greater in those who are nicotine dependent		Evidence: no explicit method reported
Manske <i>et al.</i> 2004 ¹³²	Multicomponent behavioural interventions and pharmacological treatment (NRT, bupropion) are effective for group-based smoking cessation programmes. Successful components include behavioural skills, information about smoking, self-monitoring, social support and four or more sessions of 60–90 minutes. Results did not differ between worksite or community interventions	Recommendations: yes Evidence: yes	Recommendations: criteria reported (descriptive – effective, plausible and practical)
			Evidence: criteria reported (developed own – RCTs and quasi-experimental received high rating if met three or more quality criteria)
McArthur 1998 ²²¹	School-based interventions are effective for improving	Recommendations: no	Recommendations: no
	healthy eating behaviours of students; overall effect size was 0.24 (95% Cl 0.17 to 0.30)	Evidence: yes	Evidence: criteria reported (seven items for 18 points, higher score = higher quality)
McClure 2002 ¹¹⁵	Biomarkers (biological information) can produce	Recommendations: no	Only included published randomised
(general behaviour	behaviour change (motivation, intent, change) for	Evidence: no	trials
change)	diet, physical activity and tobacco use compared with control group (did not receive biomarker feedback). Using multiple biomarkers or one biomarker at more		Recommendations: no explicit method reported
	than one time point increased detection of behaviour change		Evidence: no explicit method reported
McRobbie <i>et al.</i> 2006 ¹⁷⁰	Using NRT to assist in reducing cigarette consumption before quitting	Recommendation: no Evidence: unclear	Recommendation: no Evidence: no criteria reported
	Use of NRTs prior to quitting can reduce number of cigarettes smoked before quitting		·
	Five published, randomised, placebo-controlled trials with sample size of 2138 excluded no-treatment arm. Pooled results at 6–12 months: 16% using NRT vs 9% using placebo sustained reduction of ≥ 50% of baseline levels at 1 year. No meta-analysis owing to heterogeneity. 8% using NRT stopped smoking 6–12 months post randomisation vs 4% using placebo (OR 2.50; 95% Cl 1.69 to 3.68)		

Source	Evidence statements	Quality reported (yes or no/unclear)	Method of quality assessment
Mojica et al.	Physicians, counsellors/psychologists, nurses and	Recommendations: no	Recommendations: no
2004 ¹⁴⁶	self-help without NRT are effective for smoking cessation. Effectiveness with NRT is doubled for most providers	Evidence: unclear	Evidence: criteria reported (quality of the study based on study design: RCT > CCT; blinding not considered a factor)
Morgan 2005 ¹⁸²	Exercise referral schemes can increase physical	Recommendations: no	Recommendations: no
	activity in certain populations [not sedentary/slightly active, older adults, overweight (but not obese)] in the short term. Long-term sustainability unknown	Evidence: yes	Evidence: criteria reported [SIGN framework (rating) ⁴⁴⁰]
Mullen et al.	Behavioural techniques, especially self-monitoring,	Recommendations: no	Recommendations: no
1997 ¹²⁹	with multiple communication channels, e.g. media + personal, can increase behaviour change for smoking/nutrition groups	Evidence: unclear	Evidence: no explicit method reported
Müller-	Additional exercise prescription strategies, counselling	Recommendations: no	Recommendations: no
Riemenschneider et al. 2008 ¹⁸⁹	and provision of materials and booster interventions by telephone or mail can facilitate long-term increases in physical activity behaviour. Unclear most effective and efficient delivery mode of booster messages. Information technologies used for booster interventions may be equally as effective as print materials	Evidence: yes	Evidence: criteria reported (SIGN framework ⁴⁴⁰)
Myung <i>et al.</i> 2007 ¹⁶²	Nicotine patches effective for smoking abstinence at 1 year compared with placebo group: OR 1.79 (95% CI 1.55 to 2.08)	Recommendations: no Evidence: yes	Only RCT studies with 1 year of follow- up, abstinence biochemically validated, OR as outcome measure included
			Recommendations: no Evidence: criteria reported (Jadad scale ⁴²⁹)
Ogilvie et al.	Evidence that targeted behaviour change programmes	Recommendations: no	Recommendations: no
2004 ¹⁹⁷	to increase walking and cycling over using cars can produce behaviour change in motivated subgroups (short-term benefits). No good evidence on health effects of intervention at population level	Evidence: yes	Evidence: criteria reported (descriptive)
Ogilvie et al.	Interventions that cater to people's needs, targeted	Recommendations: no	Recommendations: no
2007 ²⁰²	at either the most sedentary or the most motivated at the individual level (brief advice, supported use of pedometers, telecommunications), can increase walking in the short term; increase an average of 30–60 minutes/week	Evidence: yes	Evidence: criteria reported (validity score between 1 and 7)
Pan 2006 ¹³⁵	Proactive telephone counselling as an additional	Recommendations: no	Recommendations: no
	component to minimal intervention is effective for smoking cessation for particular subgroups (younger, male, light smokers)	Evidence: no	Evidence: no explicit method reported
Petrella and	Positive associations found between counselling and	Recommendations: no	Recommendations: no
Lattanzio 2002 ¹⁹⁰	adoption of physical activity, stage of change and change in physical activity level	Evidence: no	Evidence: no explicit method reported
Pomerleau <i>et al.</i> 2005 ²²⁸	Positive effects on fruit and vegetable intake observed with face-to-face education or counselling, as well	Recommendations: no	Recommendations: no
2000	as with telephone contacts or computer-tailored information and community-based multicomponent interventions. Larger effects for those with preexisting health disorders	Evidence: yes	Evidence: criteria reported (based on tools used in previous reviews; studies of poor quality excluded)
Proper et al.	Worksite physical activity programmes can increase	Recommendations: no	Recommendations: no
2003 ¹⁸⁵	physical activity. No evidence for physical fitness, general health	Evidence: yes	Evidence: criteria reported (Cochrane
(some general health behaviour but mostly physical activity)			Back Review Group ⁴³²)

Source	Evidence statements	Quality reported (yes or no/unclear)	Method of quality assessment
Resnicow and Robinson 1997 ¹¹⁴	School setting interventions are effective	Recommendations: no Evidence: no	Recommendations: no Evidence: no (effect ratios reported instead)
Revere and	Computer-generated health behaviour interventions	Recommendations: no	Recommendations: no
Dunbar 2001 ¹¹⁶ (general health behaviour)	are effective when used as an adjunct to face-to-face patient care, e.g. tailored interventions had positive effects on health behaviour change compared with targeted, personalised and generic interventions. Computer-generated health behaviour interventions as extensions of face-to-face patient care in ambulatory settings are effective	Evidence: yes	Evidence: criteria reported (created own system, 10 points maximum, minimum 5 for inclusion)
Rice 1999 ¹⁴⁹	Nurses as intervention provider can increase smoking	Recommendations: no	Only RCTs included
	cessation. Modest effects at 6 months or longer; no evidence that intensiveness of intervention made any difference to effect	Evidence: yes	Recommendations: no Evidence: criteria reported (<i>Cochrane Handbook</i> ⁴⁴²)
Ritvo et al. 1997144	Family physician/practice setting can enhance	Recommendations: no	Recommendations: no
	smoking cessation; NRT can double effect of physician intervention alone	Evidence: no	Evidence: no explicit method reported
Roe et al. 1997 ²²²	Interventions in school, workplace, primary care and the community with diet only or diet and exercise showed sustained effect on diet-related outcomes,	Recommendations: no Evidence: yes	In most settings, only included controlled experimental and quasi-experimental studies
	e.g. reduction of dietary fat as a percentage of total		Recommendations: no
	energy intake Behavioural theories and goals rather than information alone, personal contact with individuals or groups, degree of personalisation, feedback, multiple contacts and social support were features of effective healthy eating interventions		Evidence: criteria reported (descriptive – more weight given to well-designed and well-conducted studies)
Salmon <i>et al.</i> 2007 ²¹⁰	School setting can increase physical activity for children and adolescents by focusing on physical education, activity breaks and family strategies. Family settings demonstrated weak positive effects	Recommendations: no Evidence: unclear	Sample size of > 16; RCT, group randomised trial or quasi-experimental study design
			Recommendations: no
			Evidence: criteria reported (methodological limitations described)
Seymour et al.	Workplace and university point-of-purchase	Recommendations: no	Recommendations: no
2004 ²¹⁶	interventions can affect behaviour change (e.g. food choices). Grocery stores were the least effective setting. Interventions in 'limited access' sites (i.e. with fewest choices for food) had greatest effect	Evidence: yes	Evidence: criteria reported (research design rated using published rating schemes; studies with serious methodological limitations excluded)
Shepherd et al.	'Whole school' approach can promote healthy eating;	Recommendations: no	Recommendations: no
2001 ²²⁴	this includes availability of health foods and classroom activities with information on nutrition. These may be effective, particularly among young women	Evidence: Evidence: criteria reported (EPPI-Centre Review Guidelines ⁴⁴³)	Evidence: criteria reported (Jadad scale ⁴²⁹)
Shiffman and	Nicotine patch use before quitting smoking compared	Recommendations: no	Recommendations: no
Ferguson 2008 ¹⁵⁶	with starting on quit day is effective for cessation. Patches double the odds of quitting at 6 weeks (pooled OR 1.96, 95% Cl 1.31 to 2.93) and 6 months (pooled OR 2.17, 95% Cl 1.46 to 3.22)	Evidence: no	Evidence: no explicit method reported
Shilts <i>et al.</i> 2004 ²¹³	Goal setting shows some positive effects for promoting dietary and physical activity behaviour	Recommendations: no Evidence: yes	Experimental, quasi-experimental or pre-experimental studies were included
	change in adults, whereas evidence of effect in adolescents and children was limited	•	Recommendations: no
	audesteins and timulen was illined		Evidence: criteria reported (grading — methodological quality rated with four-letter rating system designating research qualities)

Source	Evidence statements	Quality reported (yes or no/unclear)	Method of quality assessment
Smedslund <i>et al.</i> 2004 ¹²⁶	Workplace settings for smoking cessation are effective in the short term; however, effects decrease over time and are not sustained beyond 12 months. The adjusted random effects OR was 2.03 (95% Cl 1.42 to 2.90) at 6 months' follow-up, 1.56 (95% Cl 1.17 to	Recommendations: no Evidence: no	Studies analysed according to randomised and non-randomised. The non-randomised studies show a much stronger effect (OR 4.65) than the randomised ones (OR 1.74)
	2.07) at 12 months' follow-up and 1.33 (95% Cl 0.95 to 1.87) at > 12 months' follow-up		Recommendations: no Evidence: no explicit method reported
Sorensen <i>et al.</i> 2006 ¹⁹²	Exercise on prescription can increase physical activity levels compared with control groups (the level of physical activity was significantly increased for patients in half of the studies reviewed). Limited effectiveness evidence on intensive vs less intensive interventions; unknown if sustainable for everyday use in general practice	Recommendations: no Evidence: yes	Recommendations: no Evidence: criteria reported (studies rated high, medium or low quality; all studies included)
Thomas <i>et al.</i> 2003 ²²³	Schools can promote healthy eating (hands-on learning, parent/teacher involvement) for children aged 4–10 years. Fruit consumption easier to increase than vegetable consumption; important that health benefits were not emphasised; interventions focused on fruits and vegetables only	Recommendations: no Evidence: yes	Recommendations: no Evidence: criteria reported [EPPI-Centre health promotion review criteria (four factors) ^{444–446}]
Thomas et al.	Schools can be effective in increasing physical activity of children by balancing aerobic activity and skill development. Actual differences and clinical significance unknown. Involving parents had mixed results. Teachers' skills need addressing	Recommendations: no	RCTs and cohort studies included
2004 ²¹⁴		Evidence: unclear	Recommendations: no
			Evidence: criteria reported (methodological limitations assessed, only strong studies described)
Thorogood et al.	Workplaces and churches can reduce fat intake and increase fruit and vegetable intake (small positive effects). Community-based interventions showed little effect. Short-term effects may not be sustained	Recommendations: no Evidence: yes	Recommendations: no
2007 ²²⁶			Evidence: criteria reported (own method for assessing methodological quality)
Vandelanotte <i>et al.</i>	Website-delivered physical activity interventions can increase physical activity. Better outcomes with five or more contacts and short follow-up times. Effects were small and only short term	Recommendations: no Evidence: no	Recommendations: no
2007 ²⁰⁶			Evidence: no explicit method reported
van den Berg <i>et al.</i>	Internet-based physical activity interventions tailored to individuals may be effective compared with waiting list control. Self-monitoring and feedback used; longer-term effects unknown	Recommendations: no	Only RCTs included
2007 ²⁰⁵		Evidence: yes	Recommendations: no
			Evidence: criteria reported (rating — list based on Cochrane Back Review Group ⁴⁴⁷)
van der Bij <i>et al.</i>	Home-based, group-based and educational physical	Recommendations: no	Only RCTs included
2002 ²⁰³	activity interventions can increase physical activity, but	Evidence: unclear	Recommendations: no
	effect was small and short term		Evidence: methodological rigour evaluated but not reported
van Sluijs <i>et al.</i> 2007 ¹⁷⁷	School-based interventions with involvement of family	Recommendations: no	Recommendations: no
2007	or community and multicomponent interventions can increase physical activity in adolescents	Evidence: unclear	Evidence: criteria reported (only studies with high methodological quality included)
VanWormer and	Motivational interviewing plus education moderately	Recommendations: no	Recommendations: no
Boucher 2004 ²³⁵	effective for diet behaviour change compared with education alone. Reduced fat and sodium intake and increased fruit and vegetable intake; longer-term maintenance unknown	Evidence: yes	Evidence: criteria reported (simplified version of the American Diabetes Association evidence grading system ⁴⁴⁸)
VanWormer et al.	Telephone-based counselling can increase fruit and	Recommendations: no	Only RCTs included
2006 ²³¹	vegetable consumption and reduce dietary fat intake	Evidence: yes	Recommendations: no
	compared with usual care; effects particularly evident among women with (or at high risk for developing) cancer. Not enough evidence to recommend over other forms of dietary counselling; best used as adjunct to clinical care		Evidence: criteria reported (American Diabetes Association evidence grading system ⁴⁴⁸)

Source	Evidence statements	Quality reported (yes or no/unclear)	Method of quality assessment
Wagena et al.	Nortriptyline is effective for smoking cessation compared with placebo. Higher prolonged abstinence	Recommendations: no	Only RCTs included
2005 ¹⁶⁵		Evidence: yes	Recommendations: no
	rates after at least 6 months (RR 2.4, 95% Cl 1.7 to 3.6; RD 0.11, 95% Cl 0.07 to 0.15). Lower cost than bupropion		Evidence: criteria reported (score between 7 and 11; items from the Delphi list ⁴⁴⁹ + Jadad criteria ⁴²⁹)
Wall et al. 2006 ²³⁷	Four trials showed that monetary incentives on food	Recommendations: no	Only RCTs included
	purchases, food consumption or weight loss had a	Evidence: yes	Recommendations: no
	positive effect; goal was to reduce financial barriers or reward behaviour change (e.g. farmers' market coupons, payment for weight loss)		Evidence: criteria reported
Wang et al.	NRT-supported reduction in smoking can result in	Recommendations: no	Recommendations: no
2008 ¹⁴²	long-term (12-month) abstinence. The 12-month sustained abstinence success rate was approximately 5.3% with NRT vs 2.6% with placebo.	Evidence: yes	Evidence: criteria reported (quality appraisal guidelines in Report No. 4 of the NHS Centre for Reviews and Dissemination ⁴⁵⁰)
Wantland et al.	One time web-based intervention can improve positive	Recommendations: no	Recommendations: no
2004 ¹¹⁷ (general behaviour)	outcomes for knowledge and behaviour change compared with non-web-based interventions. Studies demonstrated heterogeneity	Evidence: yes	Evidence: criteria reported (quality appraisal from Haynes <i>et al.</i> ⁴⁵¹)
White and Moody	Auricular acupuncture may be effective for smoking	Recommendations: no	Recommendations: no
2006 ¹⁴¹	cessation compared with control interventions (OR 2.24, 95% Cl 1.61 to 3.10); effect may not depend on point location	Evidence: yes	Evidence: criteria reported (reviewer developed points system)
Wilcox et al.	Health-care settings can improve outcomes for	Recommendations: no	Majority were RCTs
2001183	physical activity, dietary fat, BMI or weight, albeit these are modest changes. Effects larger for older adults (> 50 years) and for studies with shorter followup times (< 6 months)	Evidence: no	Recommendations: no
			Evidence: no explicit method reported
Williams et al.	Exercise referral schemes can increase physical activity in sedentary people. A statistically significant increase was observed in the proportion of participants doing moderate exercise (combined RR 1.20, 95% Cl 1.06 to 1.35)	Recommendations: no	Recommendations: no
2007 ¹⁹⁵		Evidence: yes	Evidence: criteria reported (descriptive and scored out of a maximum of 34 on quality scale)
Williams et al.	Telephone counselling (brief and intensive) can	Recommendations: no	Only RCTs
2008187	increase physical activity, especially when tailored	Evidence: no	Recommendations: no
	and theory based; individual studies support walking prescriptions to increase walking; mass media campaigns can increase knowledge and awareness but unclear if they can initiate individual behaviour change		Evidence: no explicit method reported
Woolacott et al.	NRT and bupropion are effective for smoking	Recommendations: no	Recommendations: no
2002158	cessation	Evidence: yes	Evidence: criteria reported
Wu <i>et al.</i> 2006 ¹⁵⁹	NRT, bupropion and varenicline can assist smoking	Recommendations: no	Recommendations: no
	cessation; hierarchy varenicline > bupropion > NRTs (gum, patch) > placebo	Evidence: yes	Evidence: criteria reported [(descriptive) quality of studies described]
National Institute f	or Health Research Health Technology Assessment		
Cohen et al.	Brief structured counselling in primary care	Recommendations: no	Recommendations: no
1998 ¹²⁸	settings and dental services followed by clear recommendations to stop smoking and advice on NRTs is cost-effective when performed routinely	Evidence: yes	Evidence: criteria reported (descriptive)
Elford et al.	Brief counselling in primary care setting	Recommendations: no	Recommendations: no
2001 ¹¹³ (general health behaviours)		Evidence: no	Evidence: no explicit method reported
Gorgojo Jimenez	Bupropion and NRT plus medical advice and support	Recommendations: no	Recommendations: no
et al. 2003 ¹³⁴	are effective and cost-effective for smoking cessation. Medical practitioners to advise and support cessation	Evidence: no	Evidence: criteria reported (descriptive – high-quality interventions included)

Source	Evidence statements	Quality reported (yes or no/unclear)	Method of quality assessment
Ranney <i>et al.</i> 2006 ¹⁵³	Self-help alone is not effective in smoking cessation;	Recommendations: yes	Recommendations: criteria reported
2000	however, counselling and pharmacotherapy, either alone or combined with each other, are effective in smoking cessation	Evidence: yes	[strength of evidence using categories (strong, sufficient, insufficient) based on criteria from the Task Force on Community Preventive Services ⁴⁵²]
			Evidence: criteria reported (US Preventive Services Task Force ⁴³⁵ and the NHS Centre for Reviews and Dissemination ⁴⁵⁰)
Swedish Council on Technology	Advice and counselling by health-care professionals can increase physical activity by 12–50% for at	Recommendations: yes Evidence: yes	Recommendations: criteria reported (evidence grades 1, 2 and 3)
Assessment in Health Care 2007 ²⁰¹	least 6 months after the counselling session; more frequent, intensive counselling can additionally increase physical activity; counselling plus prescribed physical activity, diaries, pedometers and information brochures also increase physical activity; lifestyle-focused interventions reinforce the increase in activity; multicomponent school interventions, theory-based behavioural interventions and structured exercise programmes increase physical activity compared with usual care	Evidence, year	Evidence: criteria reported (weak, medium, strong)
Van den Bruel et	For smoking, recommended brief interventions –	Recommendations: no	Recommendations: no
al. 2004 ¹³¹	doctor or nurse (for every 50 smokers advised, one will stop smoking); individual counselling (for every 25 people, one will stop smoking); group counselling; telephone counselling (for every 40 people, one will stop smoking); NRT and bupropion (effective and cost-effective). Group counselling > self-help; group counselling < individual counselling; group counselling + NRT = group counselling alone	Evidence: yes	Evidence: criteria reported (Cochrane based)
	Self-help found not to be effective		
	Not enough evidence for aversion therapy, exercise therapy, hypnotherapy or acupuncture		

BMI, body mass index; CCT, clinical controlled trial; CI, confidence interval; CONSORT, Consolidated Standards of Reporting Trials; NRT, nicotine replacement therapy; OR, odds ratio; PE, physical education; RCT, randomised controlled trial; RD, risk difference; RR, risk ratio; SIGN, Scottish Intercollegiate Guidelines Network.