Campaigns and Informational Approaches to Increase Physical Activity: Community-Wide Campaigns

Summary Evidence Table

Study	Intervention and comparison	Population	Effect measure	Value used in summary	FU time
Smith et al. (1998)	Components: Mass media campaigns (newspapers, radio TV), national health initiatives, provision of fitness trails, health clubs for primary school students, joint ventures with business/industry, competition and award schemes	Probability sample of entire Welsh population ages 12-64 Response rates 61-88% for mail- in survey (low) and home interview (high)	Net % Δ from baseline, intervention group - control	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	5 years
Quality of Execution: Good Setting: Nationwide	Comparison: assessments only				
Author (Year): Meyer (1980) Design Suitability: Greatest Study Design: Nonrandomized group trial Quality of Execution:	Location: Watsonville, Gilroy and Tracy, CA Components: Mass media campaign (television and radio ads and programming, newspaper columns, billboards, bus ads, direct mail); Faceto-face communication Comparison: 1) media only (no counseling); 2) assessment only (no counseling or media)	Probability sample of high- risk individuals within communities W1: n=67; W2: n=37; G: n=85; T: n=90 Follow- up/response rate: > 70%	Net % Δ from baseline, intervention group - control (C1 and C2: media only) (C3: no intervention)	Media & counseling vs controls Outcome Diff (C1) Diff(C2) Diff (C3) METs expended 17.1% 20.4% 21.4% Relative wt 0.004% -0.8% 0.0% Knowledge 268.4% 203.5% 379.3% Log risk -5.9% -12.9% -21.0%	3 year follow up

Study	Intervention and comparison	Population	Effect measure	Value used in summary	FU time
Author (Year): Owen et al. (1995)	Location: Australia Components: national television ads;	1990: 2426 Pre- 2474 Post- 1991: 2584 Pre-	Net % Δ from baseline, (I-C)	Outcome Diff (1990) Diff (1991) % recall 67.4% 59.8% % intend8 PA 154.9% 157.1%	5-6 wks
Design Suitability: Moderate Study Design: Timeseries Quality of Execution: Fair	Radio public service announcements; publicity tours and promos; scripted TV show episodes; state-level activities; news coverage Comparison: Pre-campaign measurements	2517 Post- Response rates: ~ 45-60%	Net % Δ from pre-campaign (I-C)	% recall % intend8 PA OR walking 40-49 50-59 60+ 07.6% 17.6% -3.7% OR =1.57 OR =1.79 OR =1.79	
Setting: Nationwide					
Author (Year): Wimbush et al. (1998) Design Suitability: Moderate Study Design: Timeseries Quality of Execution: Fair	Components: national television ads (2 rounds 6 months apart); local radio programming; toll-free telephone information/helpline (Fitline) Comparison: Pre-campaign measurements	Random samples of Scottish adults (16-74) N= ~800	Net % Δ from baseline, (intervention only) % strongly agreeing with belief	OutcomeΔAd awareness69%Walking uses same energy as running1300.0%Walking is good exercise62.2%Exercise doesn't need to make you sweaty etc. to benefit69.2%Need 30 mins. day for benefit88.9%Intend to exercise3.6%	5-6 weeks after 2 nd round
Setting: Nationwide		Random sample of Fitline callers (490 at 10 wks, 283 at 1 yr)	Net % Δ from baseline, (intervention only) % strongly agreeing with belief	OutcomeΔ1Δ2Walking uses same energy as running17.5%14.0%Walking is good exercise Exercise doesn't need to make you sweaty etc. to benefit-1.0%0%Intend to exerciseB36.7%% Increasing activity50%48%	BL = during campaign 10 weeks, 1 year
Author (Year): Luepker et al. (1996)	Location: Upper Midwest, USA (urban, suburban, small-town communities)	1) Random samples of adults in 6 communities	Net % Δ from baseline	Pop subgroup $\Delta 1$ $\Delta 2$ $\Delta 3$ % people regularly active X section9.7%3.7%6.3%	T1 = 1 year; T2 = 3 yrs;
Design Suitability: Greatest	Components: Mass media messages; risk factor screening and education;	(n = ~300-500 per survey; n = ~18K overall		Cohort -3.8% -2.3% 9.4% BMI -1.5% 0.0% -1.2%	T3 = 6 years

Study	Intervention and comparison	Population	Effect measure	Value used in summary	FU time
Study Design: Nonrandomized group trial Quality of Execution: Good Setting: Community- wide	community-based activities; environmental changes; school- based education Comparison: Pre-campaign measurements; comparison (no- intervention) communities	2) Cohort drawn from pre- intervention surveys, n= ~ 4700 (67.1% FU)		Cohort -0.4% 0.4% 0.0% Note: no significant effect on BMI	Cohort: T1 = 2 yr; T2 = 4 yrs; T3 = 7 yrs
Author (Year): Young et al. (1996) Design Suitability: Greatest Study Design: Nonrandomized group trial Quality of Execution: Fair Setting: Community-wide	Components: Mass media messages B print material, newspaper columns, TV segments, videotapes, public service announcements; workshops; events; clubs; worksite programs; community events, school programs Comparison: Pre-campaign measurements; comparison (no-intervention) communities	1) Random samples of adults in 4 communities (n = ~1800-2500/survey; n = ~7.5-10K overall? 2) Cohort drawn from pre-intervention surveys, n= 907 (39% FU)	Net % Δ from baseline	Arm/Grp Outcome Δ1 Δ2 Δ3 X, & Energy Exp NA NA 7.6% Sum of usu act 6.3% 6.2% 12.5% C, & Sum of usu act -12.5% 12.5% 6.2% X, % Exer Knowl 18.5% 13.6% 24.1% Energy Exp NA NA 16.3% Sum of usu act 6.6% 15.4% 23.1% % in vig act -16.0% 11.0% 23.4% Few consistent significant effects. & usu act increase in cohort and x-section	BL, 25,51,73 months
Author (Year): Osler et al. (1993) Design Suitability: Greatest Study Design: serial cross sectionals Quality of Execution: Fair Setting: Community-wide	Location: Slangerup and Helsinge, Denmark Components: Mass media messages B health spots at local cinema, radio and newspaper reports, fitness tests, structured exercise. Comparison: (non-intervention community with different media system.	Random samples of adults (20-65) in community Year 1: I = 1010, C = 1092; Year 2: I = 1003, C = 1109	(Intervention - control)/ control) C Assume 0 Δ in control, i.e., control - baseline HNet % Δ from baseline	Outcome Δ % considering more exercise 17.6% % attempting more exercise -8.3% % exercising more 0.0% % aware of local activities 22.4% H% physically inactive -2.2%	6 months
Author (Year): Goodman et al. (1995)	Location: Florence, SC Components: PA campaigns "Florence	All adults eligible Florence	I/Ipre – C/Cpre	$\begin{array}{ccc} \underline{\text{Outcome}} & \underline{\Delta} \\ \text{\% physically active} & 2.1\% \\ \text{\% overweight} & -8.1\% \end{array}$	5 yrs

Study	Intervention and comparison	Population	Effect measure	Value used in summary	FU time
Design Suitability: Greatest Study Design: Non- randomized group trial Quality of Execution: Fair	Walks around the World" and "Florence Shoots for the Moon"; also used media billboards, church bulletins to provide health information, health fairs, distribution of health ed kits, development of walking trails Comparison: Anderson, SC	Int 2895 1173 Phy ex 1642 1642 Andersen Int 2538 1087 phy ex 1511 1551			
Author (Year): Jason et al. (1991) Design Suitability: Moderate Quality of Execution: Fair	Location: Chicago, Illinois Components: 15, 2-4 min television news broadcasts over 3 weeks. Some participants encouraged to attend weight loss support groups Comparison: Media only	Volunteers; 89 pre; 74 post test, 66 post intervention follow-up		Outcome net effect Aerobic activity (min) 136.8% Nonaerobic activity (min) 46.6% Weight (lbs) -7.2%	3 mo
Author (Year): Malmgren et al. (1986) Design Suitability: Greatest Quality of Execution: Fair Setting: Community- wide	Location: Linkoping and Motala, Sweden Components: Newspaper (special weekly supplements), informational meetings with health specialist, formation of exercise groups and questions and answer segment.	Volunteer sample of adults in community 2887 participants registered. Fitness test: 844 pre; 255 completed 1-yr follow-up.	baseline post-pre/pre	Outcome % change Weight -1.4% % No Exercise -41.2% VO2 max 4.0%	