



# Feasibility trial findings of a peer-led intervention to increase the physical activity of Year 8 girls.

# **About PLAN-A**

The PLAN-A (Peer-Led Physical Activity iNtervention for Adolescent girls) study, funded by the National Institute for Health Research (NIHR), is a feasibility study of a school-based peer-led intervention to address the observed decline and persistent low levels of physical activity amongst adolescent girls.



The PLAN-A model was based on the ASSIST stop smoking trial. It operated on a whole school year level where all consenting Year 8 girls nominated influential girls in their year. The 18% of girls with the most nominations were invited to become peersupporters and attend a two-day training session to provide them with the skills, knowledge and confidence to return to school and informally encourage and support their peers to be more active. Five weeks after the initial training, the peersupporters attended a top-up training day which reenergised the girls and helped them put their peersupporting into practise. The training was led by peer -supporter trainers who had been trained to deliver the sessions.

The training used interactive activities to provide the peer-supporters with a mix of information about the importance of physical activity, inspiring and empowering girls to be active and how to diffuse these messages to peers using informal strategies.

The design was a feasibility study with a formative phase in which we refined the intervention. Six secondary schools were randomised (four intervention & two control) after baseline data collection and consenting participants provided accelerometer physical activity data and completed a psychosocial questionnaire at the beginning and end of Year 8, and the beginning of Year 9. Focus groups and interviews were conducted with trainers, peer-supporters, non-peer-supporters, school contacts and parents.

Key objectives were to investigate the **feasibility** and **acceptability** of recruitment, training and intervention implementation to stakeholders and whether the intervention showed promise to increase moderate-to-vigorous physical activity (MVPA).

### The results

### Recruitment and attendance

427 girls participated, of which 55 became peersupporters. Five trainers were recruited to deliver the training. Attendance at the peer-supporter training was very high across all four intervention schools (Figure 1).

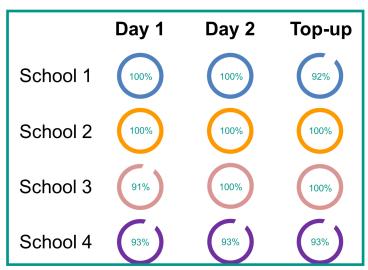


Figure 1. Training day attendance



## Intervention implementation

the training (Figure 2), in particular activities that girls' confidence and self-perception.



Figure 2. Peer-supporter enjoyment ratings for each day per school

involved debate/discussion, fun games competition, and they felt that it helped them to per weekday than girls in the control schools. This prepare to go back to school and support their peers demonstrates the promise of the informal peerto be active.

"Like slipping it into a conversation was pretty easy after we learnt how to do it. Like before you'd be like 'urrrr' [...] learning it I think it actually helped." Peer-supporter focus group

activities at the end of the day and those that to deliver the intervention was £37 per girl, or £2685 involved lots of sitting down/writing. Girls also per reported wanting more help with how to start improvement in mean weekday MVPA 12 months conversations and what to say. Three key strategies after baseline was £6.06. that peer-supporters reported using to support peers were; sharing their knowledge of physical activity, co What's next? -participating in activities with friends and taking a The study findings are currently being written up. The subtle approach in doing so.

She said ... she had encouraged her friends to be more active and explained why and if she was going to go out for a run or go and do a fitness programme in a room she'd say to her friends, "Oh come on let's go and do this together" Parent of peer-supporter

This approach may have led non-peer supporters to feel that they were not overtly supported by peersupporters. Peer-supporter success also depended on

how well the girls knew each other, how non-peer-Peer-supporters had a positive attitude towards the supporters were approached and whether they found training, which they found interesting, engaging and the topic interesting. The most notable impact of pitched at the right level. Peer-supporters enjoyed PLAN-A on peer-supporters was its positive effect on

> I think it's done their confidence a world of good [...] they've taken quite a lot of pride in what they're doing because they've been chosen to do it. School contact

### Evidence of promise

PLAN-A showed evidence of promise to positively influence Year 8 girls' physical activity levels. The measurements taken at the third data collection (Year 9 - five months after the intervention) showed that girls in intervention schools performed 6.1 minutes (95% CI = 1.4 to 10.8) more MVPA and 23.3 and minutes less sedentary time (95% CI = -43.7 to -2.8) diffusion approach adopted in PLAN-A, and has potential for an important population level impact if replicable at scale.

### Affordability and cost-effectiveness

All the information needed for a health economic analysis was able to be recorded. The project showed Level of engagement was challenged by lengthy promise for cost-effective delivery; the average cost school. The incremental cost-per-minute

results of the feasibility study provides strong rationale to now test the PLAN-A intervention on a larger scale in a definitive trial.

> National Institute for Health Research