

Table S12**Responsiveness of data obtained using physical activity questionnaires and diaries**

Participants N and subject type	Intervention	Questionnaire/ Diary Parameter (units)	Results	Did other endpoints detect difference?	Statistic	Author
<i>Responsiveness of questionnaires</i>						
<i>Exercise and Physical Activity Interventions</i>						
59 children and adolescents	2 month exercise regime	HAES Moderate to vigorous activity (weekday) (%time)	Weekday p=0.040	Yes	Wilcoxin signed – rank test	Paranjape et al. 2012 [A:20]
		HAES Moderate to vigorous activity (weekend) (%time)	Weekend p=0.017			
20 children and adolescents	Anaerobic training programme	HAES % time spent active	No significant change	Yes	ANOVA	Klijn 2004 [A:23]
16 adolescents	Training programme	30-Day Physical Activity Recall Questionnaire (adapted from Sallis et al 1993 and Sallis et al 1996) MET-hours/30days	p<0.05	NR	MWUT	Baker & Wideman 2006 [A:36]
<i>Other interventions (e.g. IV antibiotics)</i>						

No data were found on responsiveness of questionnaires to other interventions						
Responsiveness of diaries						
<i>Exercise and Physical Activity Interventions</i>						
15 children	Aerobic training during inpatient	Bratteby Activity Diary, Activity level (<i>combination of accelerometer and activity diary</i>)	Pre vs. post: p<0.01 Aerobic vs. resistance training: p<0.05	Yes	ANOVA	Selvadurai 2002 [A:39]
18 children	Resistance training during inpatient		Pre vs. post: p<0.05	Yes		
16 children	Control		NS	Yes		
<i>Other interventions (e.g. IV antibiotics)</i>						
No data were found on responsiveness of diaries to other interventions						

Abbreviations: ANOVA= analysis of variance; d=day; HAES=Habitual Activity Estimation Scale; IVAT=intravenous antibiotic therapy; MST=Modified Shuttle Test; MWUT=Mann Whitney U Test; VO₂=oxygen uptake

Note: All references are listed in the online supplementary material reference list