Table S6
Responsiveness of data obtained by objective physical activity monitors

Participants N and subject type	Intervention	Instrument Parameter (units)	Result	Did other endpoints detect difference?	Statistic	Author
Exercise and Physica	Activity Interventions					
38 children, adolescents and adults	Partially supervised activity program (baseline to 3-6mo)	ActiGraph Time spent in vigorous PA (hr/week)	p=NS	Yes	ANOVA	Hebestreit 2010 [A:10]
	Partially supervised activity program (baseline to 12mo)	ActiGraph Time spent in vigorous PA (hr/week)	p=NS	Yes		
	Partially supervised activity program (baseline to 18-24mo)	ActiGraph Time spent in vigorous PA (hr/week)	p=0.047	Yes		
Other interventions (
19 adults with CF	During IVAB to 40day follow-up	SenseWear (steps/d)	P<0.05	Yes	ANOVA	Burtin 2013 [A:1]
		SenseWear Time spent in physical activity >4.8 METS (mins)	P<0.05	Yes		
22 adults	During IVAB to 1mo follow-up	SenseWear Time spent in physical activity <3 METS (mins)	p<0.001	Yes	Paired t-test	Ward 2013 [A:3]
		SenseWear Time spent in physical activity ≥3 METS (mins)	p<0.001	Yes		
		SenseWear Time spent in physical activity 3-6 METS ACSM Moderate (mins)	p<0.001	Yes		
		SenseWear Time spent in physical activity 6-9 METS ACSM Vigorous (mins)	p<0.001	Yes		
		SenseWear Time spent in physical activity >9 METS ACSM Very vigorous (mins)	P=NS	Yes		
		SenseWear Time spent in physical activity 3-4.8 METS	p<0.001	Yes		

		Troosters Mild (mins)				
		SenseWear	p<0.001	Yes		
		Time spent in physical	'			
		activity 4.8-7.2 METS				
		Troosters Moderate (mins)				
		SenseWear	P=NS	Yes		
		Time spent in physical				
		activity >7.2 METS				
		Troosters Vigorous (mins)				
		SenseWear	p<0.001	Yes		
		Total energy expenditure				
		(kcal)				
		Time spent lying down (mins)	P=NS	Yes		
		Time spent sleeping (mins)	P=NS	Yes		
13 adults	Hospital admission for	SenseWear	p=NS	Yes	ANOVA	Wieboldt 2012
	IVAB (admission to discharge)	Step count (steps/d)				[A:4]
		SenseWear	p=0.01	Yes		
		Energy expenditure (kJ/d)				
	Hospital admission for IVAB (admission to 1mo follow-up)	SenseWear	p=0.001	Yes		
		Step count (steps/d)				
		SenseWear	p=0.001	Yes		
		Energy expenditure (kJ/d)				
	Hospital admission for	SenseWear	p=0.008	Yes		
	IVAB (discharge to	Step count (steps/d)				
	1mo follow-up)	SenseWear	p=NS	Yes		
		Energy expenditure (kJ/d)				
21 children	Well to III state	RT3	P=NS	No	MWUT	Beghin 2009
adolescents and		Physical activity		1		[A:15]
adults		(counts/min)				[]
13 children and	Pre and Post IVABs	TriTrac-R3D	p=0.02	No	Wilcoxon	Beghin 2005
adolescents		Physical activity				[A:16]
		(counts/min)				
30 adolescents and adults	III to well state	DigiWalker	p=0.015	NR	Linear Regression	Quon 2012
		step rate (steps/hr)	1			[A:18]
		DigiWalker	p<0.05			
		step count (steps/d)				

Abbreviations: ACSM=American College of Sports Medicine; ANOVA=analysis of variance; d=day; h=hour; IVAB=intravenous antibiotics; kcal=kilocalories; kJ=kilojoules; METS=metabolic equivalents; min=minute; mins=minutes; mo=month; MWUT=Mann-Whitney U Test; N=number; NS=not significant

Physical Activity Assessment in CF (Mar 2015)

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