Table S7
Characteristics of physical activity questionnaires and diaries used in studies* which assessed physical activity in CF
[*i.e. where information enabled identification of the questionnaire or diary]

•	Tion enabled identification of the questionnaire or diaryj
Questionnaire	Description and properties
Habitual Activity	Description of questionnaire: Physical activity in one typical weekday and one typical Saturday in the past 2 weeks. % time spent in
Estimation Scale	each of 4 time periods: bed – breakfast, breakfast – lunch, lunch – supper, supper-bedtime
(HAES)	4 domains: Inactive, Somewhat inactive, Somewhat active, Very active
	Output/units:
Savi 2013	<u>energy expenditure</u> – no
Schneiderman	step counts – no
2013	<u>time spent in different intensities</u> – yes
Ruf 2012	<u>sedentary</u> – yes
Paranjape 2012	<u>other</u> – no
Wells 2008	Method of administration: Child: Two days in the life of my child - interviewer administered; Adolescent: Two days in my life-
Grey 2008	interviewer administered or supervised; Adult: Two days in my life - interviewer administered or supervised
Schneiderman	NB: A Standard Operating Procedure has been developed and available by JE Schneiderman.
2005	Scoring method: Excel score sheet
Klijn 2004	Scoring range: 0-100%
Boucher 1997	Instructions available: Available from author
[A:2,19,9,20,11,21-	Length of time to administer: 15-20 minutes
24]	
_	
Baecke	Description of questionnaire: 16-item questionnaire with 3 dimensions to assess physical activity in the previous 12 months: at work
Questionnaire	(work index), sport (sport index) and leisure (leisure index).
	Output/units:
Neri 2008	energy expenditure – no
Hollander 2005	step counts – no
Haworth 1999	time spent in different intensities – yes (total score for physical activity is represented in a work index, sport index and leisure index)
[A:25-27]	sedentary – somewhat
-	other – no
	Method of administration: Self-administered
	Scoring method: The total score for habitual physical activity is obtained by summating the work index, sport index and leisure index
	[Work index = ((6 – (points for sitting)) + SUM(points for the other 7 parameters)) / 8; Sport index = (SUM(points for all 4 parameters)) /
	4; Leisure index = ((6 – (points for television watching)) + SUM(points for remaining 3 items)) / 4
	Scoring range: n/a
	Instructions available: n/a
	Instructions available: n/a Length of time to administer: n/a
Kriska's Modifiable	Instructions available: n/a Length of time to administer: n/a Description of questionnaire: Estimates of how physically active an individual was during the past (past year) and how physically

Activity	active they are currently (past week) exploring participation in leisure time physical activity and sports, and occupational activities in
Questionnaire	adults. A list of common activities is read, and subjects are asked to provide information on the number of months, times per month or
	week, and the average duration of participation for each activity they participated in over the past year. Activities not listed that subjects
Nixon 2001	commonly take part in can be added.
Orenstein 1993	Output/units:
[A:28,17]	energy expenditure – yes
	step counts – no
	time spent in different intensities – yes
	sedentary – no
	other – no
	Method of administration: Interviewer administered
	Scoring method: Calculation of time spent doing physical activity (hours/week): Total time spent participating in physical activities
	(TOT-h·wk-1), estimated relative intensity of all activities (MET-h·wk-1), and time spent engaged in vigorous activities (VIG-h·wk-1)
	Scoring range: n/a
	Instructions available: Yes
	Length of time to administer: n/a
Physical Activity	Description of questionnaire: A recall questionnaire relating to physical activity in a preceding timeframe
Status	Output/units:
Questionnaire	<u>energy expenditure</u> – yes
	step counts – no
Enright 2007	time spent in different intensities – no
Ionescu 2003	sedentary – no
Conway 2000	other – no
Ionescu 2000	Method of administration: n/a
[A:29-32]	Scoring method: The activity score is expressed in metabolic equivalents (METs) [1 MET = the energy expended by a person at rest].
	Scoring range: n/a
	Instructions available: n/a
	Length of time to administer: n/a
Harvard Alumni	Description of questionnaire: Assesses physical activity levels. Physical activity levels quantified assigning values to each activity
Survey	based on energy expenditure. Questionnaire includes light sports (like bowling, biking, golf, light house work), strenuous sports (like
	running, skiing, swimming) total stairs climbed and blocks walked per day.
Orenstein 1993	Output/units:
[A:17]	energy expenditure – yes
	step counts – no
	time spent in different intensities – no
	sedentary – no
	other – no
	Method of administration: Survey
	Scoring method: n/a

	Scoring range: n/a
	Instructions available: n/a
DI : 1 A (' ')	Length of time to administer: n/a
Physical Activity	Description of questionnaire: The PAQ-C is a 7-day recall instrument for assessment of general levels of physical activity throughout
Questionnaire – for	the elementary school year for students in grades 4 to 8 and approximately 8 to 14 years of age. There are 10 items.
Children (PAQ-C)	Output/units:
D	<u>energy expenditure</u> – no
Buntain 2006	step counts – no
Buntain 2004	<u>time spent in different intensities</u> – yes
[A:33-34]	<u>sedentary</u> – no
	other – no
	Method of administration: Self-administered. Can be administered in a classroom setting
	Scoring method: 5-point scale. Score 1 (low physical activity) - 5 (high physical activity) for each of 9 items. Mean of the composite
	score of the 9 items. Item 10 is not included in the score.
	Scoring range: 1 (low physical activity) - 5 (high physical activity)
	Instructions available: Yes
	Length of time to administer: n/a
Lipid Research	Description of questionnaire: Assesses physical activity: very low, low, moderate, and high active based on two questions; regular,
Clinics	strenuous exercise and self-rating of physical activity relative to peers
Questionnaire	Output/units:
(LRC)	<u>energy expenditure</u> – no
	step counts – no
Ruf 2012	<u>time spent in different intensities</u> – no
[A:9]	<u>sedentary</u> – no
	other – the individual's activity level is categorized in very low, low, moderate, and high active
	Method of administration: n/a, usually self-administered
	Scoring method: Scale of 1-4. 1 - very low active to 4 - high active
	Scoring range: Scale of 1-4. 1 - very low active to 4 - high active
	Instructions available: n/a
	Length of time to administer: n/a
7-day Physical	Description of questionnaire: Estimates an individual's time spent in physical activity, strength, and flexibility activities for the 7 days
Activity Recall	prior to the interview. The participant to recall time spent sleeping and doing physical activities for the past 7 days. Duration and
(Interview)	intensity of the physical activities are determined.
(7-Day PÁR)	Output/units:
·, · · · · · · · · · · · · · · · ·	energy expenditure – yes
Ruf 2012	step counts – no
Elkin 2001	time spent in different intensities – yes
[A:9,35]	sedentary – no
,1	other – sleep

Method of administration: Semi structured interview face to face. Can be administered by telephone or self-administered. Scoring method: The number of hours spent in sleep and different activity levels (moderate, hard, and very hard intensity) are obtained and an estimate of total kilocalories/day is calculated. Time spent in sleep (1 MET), light (1.5 METs), moderate (4 METs), hard (6 METs), and very hard (10 METs) activities for the past 7 d are multiplied by their respective MET values and then summed.		
botained and an estimate of total kilocalories/day is calculated. Time spent in sleep (1 MET), light (1.5 METS), moderate (4 METs), hard (6 METs), and very hard (10 METs) activities for the past 7 d are multiplied by their respective MET values and then summed. 30-day Physical Activity Recall (interview) (interview) (30D PAR) Baker and Wideman 2006 [A.36] Wideman 2006 [A.36] Well and the separation of questionnaire: A 30-day PA recall (30D PAR) instrument adapted from: the 7-day PAR and the 1-day PAR Output/units: energy expenditure = yes step counts = no time spent in different intensities = yes sedentary = no different intensities = yes sedentary = no content = niformation on 43 activities is collected Method of administration: Interviewer administered Scoring method: The MET value of every activity performed is multiplied by the times it occurred over 30 days to yield a MET-hour score. The 43 physical activities are grouped according to four intensity levels: light (<3 METS), moderate (3.0-5.9 METS), hard (6.0- 8.9 METS), and very hard (:9 METS). Subtotals for each intensity levels: light (<3 METS), moderate (3.0-5.9 METS), hard (6.0- 8.9 METS), and very hard (:9 METS). Subtotals for each intensity levels are summed and a total MET-hour score is obtained. Scoring range: n/a Instructions available: Not specifically for 30D PAR Length of time to administer: n/a Description of questionnaire: 18 questions in 13 categories, estimating time spent in daily activities covering all possible school or vacation activities over the past year. Participants estimate the average duration of each session in hours and minutes per day and the frequency of these sessions expressed in days per week. Output/units: 10,APACE		
METs), moderate (4 METs), hard (6 METs), and very hard (10 METs) activities for the past 7 d are multiplied by their respective MET values and then summed. 30-day Physical Activity Recall (Interview) (30D PAR) (30D PAR) Baker and Wilderman 2006 [A:36] Case Method of administration: Interviewer administered Scoring method: The MET value of every activity performed is multiplied by the times it occurred over 30 days to yield a MET-hour score. The 43 physical activities are grouped according to four intensity levels: light (<3 METs), moderate (3.0–5.9 METs), hard (6.0–8.9 METs), and very hard (±9 METs). Subtotals for each intensity level are summed and a total MET-hour score is obtained. Scoring range: n/a Instructions available: Not specifically for 30D PAR Length of time to administer: n/a Description of questionnaire: 18 questions in 13 categories, estimating time spent in daily activities covering all possible school or value of time spent in different intensities — very expenditure — yes step counts — no sedentary — no other—time spent in different activities: school and leisure activities estimated Method of administration: Self-administer of Scoring method: Mean daily energy expenditure for school and vacation time along with the physical activity compendium were used to obtain the daily energy expenditure Scoring range: n/a Length of time to administer 30 minutes Past Year Activity Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year; provided an estimate of the average number of hours per week spent in each activity		
values and then summed. Scoring range: n/a Instructions available: Yes Length of time to administer: n/a 30-day Physical Activity Recall ((Interview) engry expenditure – yes step counts – no time spent in different intensities – yes sedentary – no other – information on 43 activities is collected Method of administration: Interviewer administered Scoring method: The MET value of every activity performed is multiplied by the times it occurred over 30 days to yield a MET-hour score. The 43 physical activities are grouped according to four intensity levels: light (a.9 METs) , and very hard		
Scoring range: n/a Instructions available: Yes Length of time to administer: n/a 30-day Physical Activity Recall (Interview) (30D PAR) Baker and Wideman 2006 [A:36] Activity Recall (Activity Recall (Interview) (30D PAR) Baker and Wideman 2006 [A:36] Activity Recall (Interview) Garden ary - no other - information on 43 activities is collected Method of administration: Interviewer administered Scoring method: The MET value of every activity performed is multiplied by the times it occurred over 30 days to yield a MET-hour score. The 43 physical activities are grouped according to four intensity levels: light (-3 METS), moderate (3.0–5.9 METS), hard (6.0–8.9 METS), and very hard (≥9 METS). Subtotals for each intensity level are summed and a total MET-hour score is obtained. Scoring range: n/a Instructions available: Not specifically for 30D PAR Length of time to administer: n/a Description of questionnaire: 18 questions in 13 categories, estimating time spent in daily activities covering all possible school or vacation activities over the past year. Participants estimate the average duration of each session in hours and minutes per day and the frequency of these sessions expressed in days per week. Output/units: energy expenditure – yes step counts – no time spent in different intensities – no sedentary – no other – time spent in different intensities: school and leisure activities estimated Method of administration: Self-administered Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Ouestionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity		
Instructions available: Yes Length of time to administer: n/a		
Length of time to administer: n/a		
Description of questionnaire: A 30-day PA recall (30D PAR) instrument adapted from: the 7-day PAR and the 1-day PAR (Interview) (30D PAR)		
Activity Recall (Interview) (30D PAR) (30D PAR) Baker and Wideman 2006 [A:36] Activity a separation of a diministration: Interviewer administered Scoring method: The MET value of every activity performed is multiplied by the times it occurred over 30 days to yield a MET-hour score. The 43 physical activities are grouped according to four intensity levels: light (<3 METS), moderate (3.0–5.9 METS), hard (6.0–8.9 METS), and very hard (≥9 METS). Subtotals for each intensity level are summed and a total MET-hour score. The 43 physical activities are grouped according to four intensity levels: light (<3 METS), moderate (3.0–5.9 METS), hard (6.0–8.9 METS), and very hard (≥9 METS). Subtotals for each intensity level are summed and a total MET-hour score is obtained. Scoring range: n/a Instructions available: Not specifically for 30D PAR Length of time to administer: 1/a Description of questionnaire: 18 questions in 13 categories, estimating time spent in daily activities covering all possible school or vacation activities over the past year. Participants estimate the average duration of each session in hours and minutes per day and the frequency of these sessions expressed in days per week. Output/units: (QAPACE) Hafen 2013 [A:37] [A:37] Activitie Physique or a participant setimate the average duration of each session in hours and minutes per day and the frequency of these sessions expressed in days per week. Output/units: Sedentary - no offine: The participant activities: school and leisure activities estimated Method of administration: Self-administered Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity		
Interview (30D PAR) step counts = no step counts = no step counts = no other - information on 43 activities is collected Method of administration: Interviewer administered Scoring method: The MET value of every activity performed is multiplied by the times it occurred over 30 days to yield a MET-hour score. The 43 physical activities are grouped according to four intensity levels: light (<3 METS), moderate (3.0–5.9 METS), hard (6.0–8.9 METS), and very hard (≥9 METS). Subtotals for each intensity level are summed and a total MET-hour score is obtained. Scoring range: n/a Instructions available: Not specifically for 30D PAR Length of time to administer: n/a Description of questionnaire 13 questions in 13 categories, estimating time spent in daily activities covering all possible school or vacation activities over the past year. Participants estimate the average duration of each session in hours and minutes per day and the frequency of these sessions expressed in days per week. Output/units: (QAPACE) Gardini and the selection of the separation of the		
Step counts = no time spent in different intensities = yes sedentary = no time spent in different intensities = no sedentary = no time spent in different activities are grouped according to four intensity levels: light (<3 METS), moderate (3.0–5.9 METS), hard (6.0–8.9 METS), and very hard (≥9 METS). Subtotals for each intensity level are summed and a total MET-hour score. The 43 physical activities are grouped according to four intensity levels: light (<3 METS), moderate (3.0–5.9 METS), hard (6.0–8.9 METS), and very hard (≥9 METS). Subtotals for each intensity level are summed and a total MET-hour score is obtained. Scoring range: n/a Instructions available: Not specifically for 30D PAR Length of time to administer: n/a Description of questionnaire: 18 questions in 13 categories, estimating time spent in daily activities covering all possible school or vacation activities over the past year. Participants estimate the average duration of each session in hours and minutes per day and the frequency of these sessions expressed in days per week. Output/units: energy expenditure = yes step counts = no sedentary = no		•
Saker and Sake	,	
Baker and Wideman 2006 [A:36] Method of administration: Interviewer administered Scoring method: The MET value of every activity performed is multiplied by the times it occurred over 30 days to yield a MET-hour score. The 43 physical activities are grouped according to four intensity levels: light (<3 METS), moderate (3.0–5.9 METS), hard (6.0–8.9 METS), and very hard (≥9 METS). Subtotals for each intensity level are summed and a total MET-hour score is obtained. Scoring range: n/a Instructions available: Not specifically for 30D PAR Length of time to administer: n/a	(30D PAR)	
Wideman 2006 [A:36] Other – information on 43 activities is collected Method of administration: Interviewer administered Scoring method: The MET value of every activity performed is multiplied by the times it occurred over 30 days to yield a MET-hour score. The 43 physical activities are grouped according to four intensity levels: light (<3 METS), moderate (3.0–5.9 METS), hard (6.0–8.9 METS), and very hard (29 METS). Subtotals for each intensity level are summed and a total MET-hour score is obtained.		
[A:36] Method of administration: Interviewer administered Scoring method: The MET value of every activity performed is multiplied by the times it occurred over 30 days to yield a MET-hour score. The 43 physical activities are grouped according to four intensity levels: light (<3 METS), moderate (3.0−5.9 METS), hard (6.0−8.9 METS), and very hard (≥9 METS). Subtotals for each intensity level are summed and a total MET-hour score is obtained. Scoring range: n/a Instructions available: Not specifically for 30D PAR Length of time to administer: n/a Quantification de L'Activitie Physique en Altitude chez les Enfants (QAPACE) Hafen 2013 [A:37] Physique en Altitude chez les Enfants (GAPACE) Hafen 2013 [A:37] Image: n/a Length of time to administration: Self-administered Scoring method: Mean daily energy expenditure obtain the daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Past Year Activity Questionnaire Method of administration: Self-administer: 30 minutes Past Year Activity Ouestionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity		
Scoring method: The MET value of every activity performed is multiplied by the times it occurred over 30 days to yield a MET-hour score. The 43 physical activities are grouped according to four intensity levels: light (<3 METS), moderate (3.0–5.9 METS), hard (6.0–8.9 METS), subtotals for each intensity level are summed and a total MET-hour score is obtained. Scoring range: n/a Instructions available: Not specifically for 30D PAR Length of time to administer: n/a Instructions available: Not specifically for 30D PAR Length of time to administer: n/a Instructions available: Not specifically for 30D PAR Length of time to administer: n/a Instructions available: Not specifically for 30D PAR Length of time to administer: 18 questions in 13 categories, estimating time spent in daily activities covering all possible school or vacation activities over the past year. Participants estimate the average duration of each session in hours and minutes per day and the frequency of these sessions expressed in days per week. Output/units: energy expenditure – yes step counts – no time spent in different intensities – no sedentary – no other – time spent in different activities: school and leisure activities estimated Method of administration: Self-administered Scoring method: Mean daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Past Year Activity Output on the past year: provided an estimate of the average number of hours per week spent in each activity	Wideman 2006	
score. The 43 physical activities are grouped according to four intensity levels: light (<3 METS), moderate (3.0–5.9 METS), hard (6.0–8.9 METS), and very hard (≥9 METS). Subtotals for each intensity level are summed and a total MET-hour score is obtained. Scoring range: n/a Instructions available: Not specifically for 30D PAR Length of time to administer: n/a Description of questionnaire: 18 questions in 13 categories, estimating time spent in daily activities covering all possible school or vacation activities over the past year. Participants estimate the average duration of each session in hours and minutes per day and the frequency of these sessions expressed in days per week. Output/units: energy expenditure − yes step counts − no time spent in different intensities − no sedentary − no other, − time spent in different activities: school and leisure activities estimated Method of administration: Self-administered Scoring method: Mean daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Scoription of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity	[A:36]	
8.9 METS), and very hard (≥9 METS). Subtotals for each intensity level are summed and a total MET-hour score is obtained. Scoring range: n/a Instructions available: Not specifically for 30D PAR Length of time to administer: n/a Quantification de L'Activitie Physique en Altitude chez les Enfants (QAPACE) Hafen 2013 [A:37] [A:37] [A:37] Past Year Activity Questionnaire 8.9 METS), and very hard (≥9 METS). Subtotals for each intensity level are summed and a total MET-hour score is obtained. Scoring range: n/a Length of time to administer: n/a Description of questionnaire: 18 questions in 13 categories, estimating time spent in daily activities covering all possible school or vacation activities over the past year. Participants estimate the average duration of each session in hours and minutes per day and the frequency of these sessions expressed in days per week. Output/units: energy expenditure – yes step counts – no time spent in different intensities – no sedentary – no other – time spent in different activities: school and leisure activities estimated Method of administration: Self-administered Scoring method: Mean daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Past Year Activity Questionnaire 8.9 METS) Activity Activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity		
Countification de L'Activitie Physique en Altitude chez les Enfants (QAPACE) Hafen 2013 [A:37] Hafen 2013 [A:37] Hafen 2013 Scoring method: Mean daily energy expenditure Scoring method: Mean daily energy expenditure Scoring method: Mean daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes		
Instructions available: Not specifically for 30D PAR Length of time to administer: n/a		
Quantification de L'Activitie Physique en Altitude chez les Enfants (QAPACE) Hafen 2013 [A:37] Altitude chez les Ender authorities Counts - no time spent in different intensities - no sedentary - no other - time spent in different activities school and leisure activities estimated Method of administration: Self-administered Scoring method: Mean daily energy expenditure Scoring range: n/a Length of time to administer: n/a Description of questionnaire: 18 questions in 13 categories, estimating time spent in dially activities covering all possible school or vacation activities over the past year. Participants estimate the average duration of each session in hours and minutes per day and the frequency of these sessions expressed in days per week. Output/units: energy expenditure - yes step counts - no time spent in different intensities - no sedentary - no other - time spent in different activities: school and leisure activities estimated Method of administration: Self-administered Scoring method: Mean daily energy expenditure for school and vacation time along with the physical activity compendium were used to obtain the daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity		Scoring range: n/a
Description of questionnaire: 18 questions in 13 categories, estimating time spent in daily activities covering all possible school or vacation activities over the past year. Participants estimate the average duration of each session in hours and minutes per day and the frequency of these sessions expressed in days per week. Output/units:		Instructions available: Not specifically for 30D PAR
L'Activitie Physique en Altitude chez les Enfants (QAPACE) Hafen 2013 [A:37] Hafen 2014 [A:37] Past Year Activity Questionnaire Vacation activities over the past year. Participants estimate the average duration of each session in hours and minutes per day and the frequency of these sessions expressed in days per week. Output/units: energy expenditure – yes step counts – no itime spent in different intensities – no sedentary – no other – time spent in different activities: school and leisure activities estimated Method of administration: Self-administered Scoring method: Mean daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Vacation activities over the past year. Participants estimate the average duration of each session in hours and minutes per day and the frequency of these sessions expressed in days per week. Output/units: energy expenditure – yes step counts – no itime spent in different intensities – no sedentary – no other – time spent in different activities: school and leisure activities estimated Method of administration: Self-administered Scoring method: Mean daily energy expenditure for school and vacation time along with the physical activity compendium were used to obtain the abily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity		
en Altitude chez les Enfants (QAPACE) Hafen 2013 [A:37] Hafen 2013 [A:37] Frequency of these sessions expressed in days per week. Output/units: energy expenditure – yes step counts – no time spent in different intensities – no sedentary – no other – time spent in different activities: school and leisure activities estimated Method of administration: Self-administered Scoring method: Mean daily energy expenditure for school and vacation time along with the physical activity compendium were used to obtain the daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity	Quantification de	
Enfants (QAPACE) Hafen 2013 [A:37] Hafen 2013 [A:37] Past Year Activity Questionnaire Output/units: energy expenditure – yes step counts – no time spent in different intensities – no sedentary – no other – time spent in different activities: school and leisure activities estimated Method of administration: Self-administered Scoring method: Mean daily energy expenditure for school and vacation time along with the physical activity compendium were used to obtain the daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity	L'Activitie Physique	
CAPACE energy expenditure – yes step counts – no time spent in different intensities – no sedentary – no other – time spent in different activities: school and leisure activities estimated Method of administration: Self-administered Scoring method: Mean daily energy expenditure for school and vacation time along with the physical activity compendium were used to obtain the daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity	en Altitude chez les	
Hafen 2013 [A:37] Hafen 2013 [A:37] [A:37] [A:37] Hafen 2013 [A:37] [A:37] Image: spent in different intensities – no sedentary – no other – time spent in different activities: school and leisure activities estimated Method of administration: Self-administered Scoring method: Mean daily energy expenditure for school and vacation time along with the physical activity compendium were used to obtain the daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Past Year Activity Questionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity	Enfants	Output/units:
Hafen 2013 [A:37] time spent in different intensities – no sedentary – no other – time spent in different activities: school and leisure activities estimated Method of administration: Self-administered Scoring method: Mean daily energy expenditure for school and vacation time along with the physical activity compendium were used to obtain the daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Questionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity	(QAPACE)	energy expenditure – yes
[A:37] sedentary – no other – time spent in different activities: school and leisure activities estimated Method of administration: Self-administered Scoring method: Mean daily energy expenditure for school and vacation time along with the physical activity compendium were used to obtain the daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity		step counts – no
Other – time spent in different activities: school and leisure activities estimated Method of administration: Self-administered Scoring method: Mean daily energy expenditure for school and vacation time along with the physical activity compendium were used to obtain the daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity	Hafen 2013	time spent in different intensities – no
Method of administration: Self-administered Scoring method: Mean daily energy expenditure for school and vacation time along with the physical activity compendium were used to obtain the daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity	[A:37]	
Scoring method: Mean daily energy expenditure for school and vacation time along with the physical activity compendium were used to obtain the daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity		
to obtain the daily energy expenditure Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity		Method of administration: Self-administered
Scoring range: n/a Length of time to administer: 30 minutes Past Year Activity Questionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity		Scoring method: Mean daily energy expenditure for school and vacation time along with the physical activity compendium were used
Length of time to administer: 30 minutes Past Year Activity Questionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity		to obtain the daily energy expenditure
Past Year Activity Questionnaire Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in during the past year: provided an estimate of the average number of hours per week spent in each activity		
Questionnaire during the past year: provided an estimate of the average number of hours per week spent in each activity		
	Past Year Activity	Description of questionnaire: Participants asked to estimate all leisure-time activities they had participated in a least 10 times in
Output/units:	Questionnaire	during the past year: provided an estimate of the average number of hours per week spent in each activity
		Output/units:

Kilbride 2012	anaray aynanditura yaa
	energy expenditure – yes
[A:14]	step counts – no
	time spent in different intensities – yes
	sedentary – no
	other – time spent in different activities
	Method of administration: Self-administered
	Scoring method: hours per week summed to derive overall leisure-time physical activity estimate, this was converted to METs to
	derive composite estimate for each activity annually. An estimate of hours/week spent in vigorous activity over past year was
	calculated using activities >6 METs.
	Scoring range: n/a
	Instructions available: n/a
	Length of time to administer: n/a
International	Description of questionnaire:
Physical Activity	7 day recall of work, transport, domestic and leisure related habitual physical activities, activities included if performed for at least 10
Questionnaire	minutes, time and number of days are then converted to weighted MET minutes per week
(IPAQ)	Output/units:
D 0040	<u>energy expenditure</u> – yes
Rasekaba 2013	step counts – no
[A:38]	time spent in different intensities – yes
	sedentary – no
	other – no
	Method of administration: self-administered
	Scoring method: work, transport, domestic and leisure activity and then a total physical activity score are calculated in
	MET/min/week; MET/min/week for walking, moderate and vigorous activities, and then a total physical activity score used to categorise
	patients as: Low, moderate or high physical activity category; Sitting score in time spent sitting
	Scoring range: Scored as per IPAQ protocol. Instructions available: IPAQ protocol available for scoring
	Length of time to administer: n/a
Diary	Description and properties
Bouchard's 3 Day	Description of diary:
Physical Activity	3 day activity record for estimation of energy expenditure with 2 days any day of the week, and the 3 rd day must be a Saturday or a
Diary	Sunday. Each day is divided into 96 periods of 15 minutes. Energy expenditure is recorded for each 15 minute period on a 1-9 scale.
Diary	Output/units:
Schneiderman	energy expenditure – yes
2005	step counts – no
Selvadurai 2004	time spent in different intensities – yes
[A:22,13]	sedentary – no
[,22, 10]	other – sleep
	Method of administration: Self-administered
	mound of administration. Central ministered

	Scoring method: Mean time (Minutes per day) spent in activities. Activities are converted to METs to compute daily energy
	expenditure
	Scoring range: n/a
	Instructions available: Some instructions are available in an appendix of the original research paper.
	Length of time to administer: n/a
Bratteby 7-Day	Description of diary
Physical Activity	A 7-day physical activity diary - each day is divided into 15-min intervals and the subject asked to grade their activity into nine
Diary	categories [1 sleep, 2 sitting, 3 standing, 4 walking inside, 5 walking outside, 6–9 represent low, moderate, high and maximum intensity
	activity.
Wells 2008	Output/units:
Selvadurai 2002	energy expenditure – yes
[A:11,39]	step counts – no
	time spent in different intensities – yes
	sedentary – no
	other – sleep
	Method of administration: Self-administered.
	Scoring method: Activities are converted to METs
	Scoring range: n/a
	Instructions available: n/a
	Length of time to administer: n/a

Abbreviation: h·wk-1=hours per week; METS=metabolic equivalents; n/a=information is not available

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