Table S1
Characteristics of activity monitors and pedometers which assessed physical activity in CF

<table>
<thead>
<tr>
<th>Activity monitors</th>
<th>Characteristics</th>
</tr>
</thead>
</table>
| SenseWear*         | **Device Type:** tri-axial accelerometer with skin temperature, heat flux & galvanic skin response sensors  
**Output/units:**  
energy expenditure – yes (Kcal/min; METs)  
step counts – yes  
time spent in different intensities – yes (physical activity levels and duration)  
sedentary – yes  
other – yes (sleep duration and efficiency; lying down time; on/off body time)  
**Data storage:** 28 days |
| Burtin 2013       |                 |
| Savi 2013         |                 |
| Ward 2013         |                 |
| Wieboldt 2012     |                 |
| Garcia 2011       |                 |
| Dwyer 2009        |                 |
| Troosters 2009    |                 |
| [A:1-7]            |                 |
| ActiGraph*        | **Device type:** tri-axial  
**Output/units:**  
energy expenditure – yes (Kcal; METs);  
step counts – yes  
time spent in different intensities – yes (amount (mins or hrs) and intensity of activity levels)  
sedentary – yes  
other – yes (vector magnitude units, inclinometer, light)  
**Data storage:** 40 days (raw data at 30 Hz) |
| GT3X+              |                 |
| Groeneveld 2012   |                 |
| Ruf 2012          |                 |
| Hebestreit 2010   |                 |
| Wells 2008        |                 |
| Hebestreit 2006   |                 |
| Selvadurai 2004   |                 |
| [A:8-13]          |                 |
| RT3*              | **Device type:** tri-axial  
**Output/units:**  
energy expenditure – yes (Kcal; METs)  
step counts – n/a  
time spent in different intensities – yes:  
other – yes (activity counts (vector data, arbitrary units of measurement))  
**Data storage** 21 days |
<p>| Kilbride 2012     |                 |
| Beghin 2009       |                 |
| Beghin 2005       |                 |
| [A:14-16]         |                 |</p>
<table>
<thead>
<tr>
<th>Device</th>
<th>Device type:</th>
<th>Output/units:</th>
<th>Energy expenditure</th>
<th>Step counts</th>
<th>Time spent in different intensities</th>
<th>Sedentary</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caltrac Orenstein 1993 [A:17]</td>
<td>uniaxial</td>
<td>energy expenditure – yes (Kcal)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>step counts – n/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>time spent in different intensities – n/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>sedentary – n/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>other – yes (activity counts)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data storage:</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large Scale Integrated (LSI) motor activity monitor Orenstein 1993 [A:17]</td>
<td>uniaxial</td>
<td>energy expenditure – yes (Kcal)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>step counts – n/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>time spent in different intensities – n/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>sedentary – n/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>other – yes (activity counts)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data storage:</td>
<td>n/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>step counts – n/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>time spent in different intensities – n/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>sedentary – n/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>other – yes (activity counts, activity index)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data storage:</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pedometers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DigiWalker SW 401 Quon 2012</td>
<td></td>
<td>tracks steps and multiplies them by your stride length to calculate the number of miles you travelled</td>
<td>yes</td>
<td>yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output/units:</td>
<td></td>
<td>energy expenditure – no</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>step counts – yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[A:18]</td>
<td>time spent in different intensities – no sedentary – no other – distance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Data storage:** 7 days

Abbreviations: hr=hours; Kcal=kilocalories MET=metabolic equivalent; min=minute; n/a=information not available

*Note 1: In some studies, the monitor details were not accessible or were out of date so only the more up-to-date version and up-to-date output is summarised. In some studies, the monitor details were not accessible.

Note 2: All references are listed in the online supplementary material reference list