EVA analysis by Acti4

The standard analysis performed by Acti4 determines the total duration of the basic activity modes: lie, sit, stand (still), move, walk, run, stair walking, cycle and row. As an option selected in the 'Analysis setup', Acti4 (from ver. 1801) can determine the duration of the activity modes according to a time classification scheme (activity duration analysis). The output from the analysis are not included in the standard output by Acti4, but saved in a separate file selected by the user.

Duration classification

T1	<5	seconds
T2	5-10	11
T3	10-15	ш
T4	15-30	ш
T5	30-60	ш
T6	1-2	minutes
T7	2-5	п
T8	5-10	ш
T9	10-20	ш
T10	20-30	ш
T11	30-60	11
T12	1-2	hours
T13	2-4	ш
T14	4-8	11
T15	>=8	II

The activities include the basic nine modes and some combined modes:

Activity modes

Lie

Sit

Stand (still)

Move

Walk

WalkSlow

WalkFast

Run

Stairs

Cycle

Row

LieSit lie + sit

StandMove stand + move

OnFeet stand + move + walk + run + stairs

LPA stand + move + walk slow

MVPA run + stairs + cycle + row + walk fast

The activity duration analysis can be performed alone or in the same run as the standard analysis. The output of the activity duration analysis is saved separately in a user selected csv-file including 503 columns (variables). The first 7 columns are identical with the output from the standard analysis:

LbNr Subject running number

Type Type of interval (A1/B1: before work, A2/B2: work, etc.)

Start Start of interval (dd/mm/yyyy/HH:MM:SS)
Stop End od interval (dd/mm/yyyy/HH:MM:SS)

Time Duration of interval (number of hours including non valid periods)
OffThigh Duration with invalid thigh data, i.e. no activity classification possible

OffHipTrunk Duration without data from hip or trunk, i.e. distinction between lying and sitting not possible

Then for each of the activity modes there are 31 columns, where the first ('H_mode') tells the total duration (hours) of the activity 'mode' (similar to the standard output for the basic activity modes) and the next 2x15 columns specify number of periods with duration Tn ('N_mode_Tn') and summarized duration of periods (hours) with duration Tn (n=1,2,...15).