Multimedia Appendix 1: Formula for calculating energy expenditure

The following is the formula for calculating energy expenditure (EE) for each activity.

The totals of all values comprise the Physical Activity Index Score (PAI).

 $EE = (N \times D \times MET \text{ value})/91$, where:

N = number of times the individual participated in the activity in the past 3

months

D = average duration of each activity session in hours

MET = metabolic equivalent value or the energy cost of the activity expressed

in kcal/kg/hr.

MET reflects intensity of an activity and is expressed as multiples of

the resting metabolic rate (RMR), which is approximated as 1

kcal/kg/hr: 1 MET = RMR.

91 = number of days in 3 months that is included to convert activity in the

past 3 months to an average daily value in kcal/kg/d

These totals are used to categorize individuals as inactive (PAI <1.5 kcal/kg/d),

moderately active (PAI 1.5 to \leq 3 kcal/kg/d), and active (PAI \geq 3 kcal/kg/d).

Source:

Taylor HL, Jacobs DR, Schucker B, Knudsen J, Leon AS, Debacker G. A questionnaire for leisure time physical activities. J Chronic Dis 1978;31:741-55. PMID: 748370