Data Extraction Framework

Study Characteristics:

- Study [first author (last name), year (month), country, publication type (article, short

  report, letter to editor)].

- Participants [sample size (#), age (years), gender (# M/F), health / functional status

  (healthy, disease(s), functional / mobility limitation(s))].

Accuracy Comparison(s) Within Each Study:

- Setting(s) [controlled, free-living].

- FitBit device characteristics [model(s), body placement(s)].

- Outcome measure(s) examined [steps, energy expenditure (EE), time in activity, distance,

  sleep].

- Acceptable gold standard (i.e., controlled setting) criterion (type, details) [Steps: visual

  observation / count; *EE:* indirect / direct calorimetry; Sleep: polysomnography; Distance:

  measurement].

- Acceptable research standard (i.e., free living setting) criterion (type, details) [Steps:

  accelerometer / pedometer; EE: doubly labelled water / accelerometer; Sleep: portable

  monitor / accelerometer; Distance: GPS; Time in Activity: accelerometer].

- Acceptable accuracy analyses (Fitbit vs criterion): [Group mean or percent difference

  (values or %), Median / Mean Absolute Percent Error – MAPE (%), Level of Agreement

  (values / direction)]

NOTE: Data must be reported in / extractable from the published article.