**Supplemental Table 3** Sedentary behaviour questionnaires with psychometric testing

| **Questionnaire name** | **Age mean (SD) or range, % F** | **# of SB questions: mode/domain** | **Criterion measure** | **Validity** | **Reliability** |
| --- | --- | --- | --- | --- | --- |
| **Pediatric questionnaires (N = 14)** | | | | | |
| Activity Questionnaire for Adults and Adolescents (AQuAA), (Chinapaw et al., 2009 ) | 12-16 | 4: TV, reading, computer, other | ActiGraph (<699 cpm) | Sum of TV, reading, computer & other: r = 0.23, NS | ICC = 0.57, 95% CI: 0.34, 0.73 |
| Adolescents Sedentary Activities Questionnaire (ASAQ) (Hardy et al. 2007b) | 11-15, 46% | 23: TV, computer, transportation, education, socializing, cultural | N/A | NR | **TV & computer;** total week: ICCs ranged from 0.76, (grade 6 girls) to 0.90 (grade 8 boys and grade 10 girls); weekdays: ICCs ranged from 0.66 (grade 8 girls) to 0.89 (grade 8 boys); weekend days: ICCs ranged from 0.64 (grade 6 girls) to 0.90 (grade 10 girls) (all significant)  **Passive travel;** total week: ICCs ranged from 0.25 (grade 10 boys) to 0.93 (grade 10 girls); weekdays: ICCs ranged from 0.28 (grade 10 boys) to 0.95 (grade 10 girls); weekend days: ICCs ranged from 0.01 (grade 8 boys) to 0.69 (grade 10 girls)  **Educational**: total week: ICCs = 0.54(grade 6 boys) to 0.88 (grade 10 girls); weekdays: ICCs = 0.47 (grade 6 boys) to 0.83 (grade 10 girls); weekend days: ICCs = 0.64 (grade 8 boys) to 0.81 (grade 10 girls).  **Socializing**: Total week: ICCs = 0.42 (grade 8 girls) to 0.81 (grade 6 girls); weekdays: ICCs = 0.20 (grade 8 boys) to 0.74 (grade 6 girls); weekend days: ICCs = 0.34 (grade 10 boys) to 0.74 (grade 8 boys).  **Total of travel, screen, education, cultural, and social:** Total week: ICCs = 0.57 (grade 6 boys) to 0.86 (grade 6 girls); weekdays: ICCs = 0.58 (grade 6 boys) to 0.82 (grade 6 girls); weekend days: ICCs = 0.47 (grade 6 boys) to 0.83 (grade 10 girls). |
| Child Sedentary Activity Questionnaire (CSAQ) (He et al., 2009) | Grades 5-6, 51% | NR: TV, computer, video games | Activity diary | ICC = 0.5 to 0.8 | ICC = 0.98 |
| COMPASS(Leatherdale et al. 2014) | Grades 9-12 | 6: TV, video game, computer, homework, talking on the phone, texting | ActiGraph (<150 cpm) | **Total sum:** ICC = 0.15, r = 0.20, p<0.05 | **TV**: ICC = 0.56; Cronbach's α = 0.74.  **Video games/computer**: ICC = 0.65; Cronbach's α = 0.79.  **Internet**: ICC = 0.71; Cronbach's α = 0.84.  **Homework**: ICC = 0.54; Cronbach's α = 0.72.  **Talking on phone** = ICC 0.76; Cronbach's α = 0.86.  **Texting**: ICC = 0.86; Cronbach's α = 0.93. |
| GEMS Activity Questionnaire, (GAQ) (Treuth et al., 2003) | 9.0 ± 0.6, 100 % | 14: TV, computer/ video games, arts/crafts, board games, homework/ reading, socializing, music | MTI/CSA accelerometer | NR (did not validate against sedentary time from accelerometer) | **TV watching:** yesterday: r = 0.35, usual r = 0.38  **Other sedentary activities:** yesterday r = 0.47, usual r = 0.48 |
| Hardy et al. Sedentary Behavior Questionnaire (Hardy et al., 2007) | 12-15, 100% | 13 | MTI accelerometer | Mean weekly difference (h/wk) between self-report and accelerometer-based measures of SB = 3.2 h/wk ± 11.9 h/wk | NR |
| Health, Eating and Play Study (HEAPS) (Salmon et al., 2006) | 5-6 (parent proxy), 10-12, 50% | 2: TV | NR | NR | ICC = 0.78, 95% CI: 0.69, 0.84 |
| KidActive-Q (Bonn et al. 2012) | 4.2 (1.3), 50% | 1: TV | NR | NR | **Watching TV:** ICC = 0.85, 95% CI: 0.72, 0.97 |
| Netherlands Physical Activity Questionnaire (NPAQ) (Janz et al. 2005) | 4-7, 55% | 1: TV | MTI (for physical activity) | NR | r = 0.68, Kappa = 0.53, 95% CI: 0.33, 0.74 |
| Pre-School Aged Physical Activity Questionnaire (Pre-PAQ) (Dwyer et al. 2011) | 3.0-5.9, 48% | 3: TV, computer, video games, transportation | NR | NR | **TV/video**: ICC = 0.70-0.88  **Computer/electronic games**: ICC = 0.82-0.85  **Transportation**: ICC = 0.31-0.63 |
| Self-Assessed Physical Activity Checklist (SAPAC) (Brown & Holland 2004, Affuso et al. 2011) | **Study 1:** 11.7 (0.5), 50%  **Study 2:** 11- 15, 64% | 4: TV/video, video/ computer games | **Study 2:** ActiGraph  7164 (<100 cpm) | **Study 2:** overall SB [adjusted for total minutes of activity]: r = 0.18, 95% CI: 0.07, 0.28 [r = 0.23, 95% CI: 0.12, 0.33] | **Study 1:** Boys: TV/video ICC = 0.20, computer ICC = 0.40, total ICC = 0.36. Girls: TV/video ICC = 0.38, computer ICC = 0.35, total ICC = 0.34 |
| Taras et al. questionnaire (Taras et al. 1989) | 3-8 (parent proxy), % NR | 3: TV | NR | NR | r = 0.80, p<0.001 |
| Youth Activity Profile (YAP) from the Youth Physical Activity Measurement Study (Saint-Maurice & Welk 2015) | Grades 4-12 | 5: TV, video games, computer, phone, iPad, homework, music, resting | Sensewear Armband | Composite score sum of TV, computer and cell phone time: r = 0.75, p< .001 | NR |
| Youth Risk Behavior Survey (Schmitz et al. 2004, Brener et al. 2002) | **Study 1:**  13-18, 53%  **Study 2:** 11-15 | 1: TV viewing question  TV, computer | **Study 2:** TV & computer diary | **Study 1:** NR  **Study 2**  **TV:** r = 0.46, mean difference = -0.04 h | **Study 1:**  **TV**: Kappa = 0.47  **Study 2:**  T**V:** Kappa = 0.55, r = 0.68 |
| **Adult questionnaires (N = 34)** | | | | | |
| Active-Q (Bonn et al. 2015) | 33-86, 0% | 7: transport, leisure, occupational, TV, reading, computer | GENEA Accelerometer | r = 0.19, 95% CI: 0.04, 0.34 | ICC = 0.80, 95% CI: 0.74, 0.86 |
| Activity Questionnaire for Adults and Adolescents (AQuAA) (Chinapaw et al. 2009, Oostdam et al. 2013) | **Study 1:** 28.9 (3.5), 48%  **Study 2:** 31.4 (3.9), 100% | 4: TV, reading, computer, other sitting | **Study 1:** ActiGraph 7164 (<699 cpm)  **Study 2:** Actitrainer (<700 cpm) | **Summation of TV, reading, computer and other**  **Study 1**: r = 0.15, NS  **Study 2:** r = 0.12 to 0.23, NS, depending on time-point. | **Study 1:** ICC = 0.60, 95% CI: 0.40, 0.74  **Study 2**: NR |
| Australian Diabetes, Obesity and Lifestyle Study (AusDiab) sitting questions (Clark et al. 2015) | 36-89, 55% | 10: transport, occupation, TV, computer/ internet/ electronics, other | activPAL | **Total sum:** mean difference = 2.01 (SD=2.45) h/day, r = 0.46, 95% CI: 0.40, 0.52  **Occupation**: ρ = 0.25, 95% CI: 0.17, 0.31  **Transport**: ρ = 0.07, 95% CI: -0.01, 0.14  **TV**: ρ = 0.16, 95% CI: 0.09, 0.24  **Computer**: ρ = 0.14, 95% CI: 0.06, 0.21  **Other**: ρ = 0.06, 95% CI: -0.02, 0.13 | NR |
| Australian Women's Activity Survey (AWAS) (Fjeldsoe et al. 2009) | 32 (5), 100% | 15: transport, occupation, all-day sitting, domestic | ActiGraph (<100 cpm) | **Sitting**: r = 0.32, p = 0.006 | **Sitting**: ICC = 0.42, 95% CI: 0.13, 0.64 |
| Clemes et al, sitting questionnaire (Clemes et al. 2012) | 41.5 (12.8), 70% | 10: transport, occupation, TV, computer at home, leisure time (separate weekday and weekend day) | ActiGraph (<100 cpm) | **Weekday total:** mean difference = -13.7 mins/day, 95% CI: -69.2, -41.8, r = 0.54, p<.001, ICC = 0.64, p<.001  **Weekend day total:** mean difference = -4.2 mins/day, 95% CI: -91.7, -83.4, r = 0.13, p = 0.41, ICC = 0.20, p = 0.23 | NR |
| Community Health Activities Model Program for Seniors (CHAMPS) (Gennuso et al. 2015, Hekler et al. 2012) | **Study 1:** ≥65, 79%  **Study 2:** 75.3 (6.8), 56% | 9: socializing, church, computer, arts & crafts, entertainment, musical instrument, reading | ActiGraph (<100 cpm) | **Study 1:** Lin's accordance correlation coefficient = 0.005, 95% CI: -0.01, 0.02 (poor validity)  r = 0.14, p = 0.28  Mean difference = 5.21 h/day, 95% CI: 2.2, 8.3  **Study 2**: r = 0.12, p<0.001 | **Study 1:** ICC = 0.64, p<0.001  **Study 2:** ICC = 0.56, 95% CI: NR |
| Domain-Specific Last 7-d Sedentary Time Questionnaire (SIT-Q-7d) (Wijndaele et al. 2014) | 50.3 (7.4), English 54% | 20: TV, computer, screen, reading, transport, occupation, meals, hobbies, social, music, household, care providing | NR | NR | **English sample only:**  **TV**: ICC = 0.69, 95% CI: 0.62, 0.75  **Computer**: ICC = 0.57, 95% CI: 0.48, 0.64  **Total screen:** ICC = 0.61, 95% CI: 0.53, 0.67  **Reading**: ICC = 0.59, 95% CI: 0.51, 0.66  **Transport**: ICC = 0.50, 95% CI: 0.40, 0.58  **Occupation**: ICC = 0.74, 95% CI: 0.67, 0.80  **Meals**: ICC = 0.76; 95% CI: 0.71, 0.81  **Hobbies**: ICC = 0.28, 95% CI: 0.16, 0.38  **Socializing**: ICC = 0.39, 95% CI: 0.29, 0.49  **Listen to music**: ICC = 0.48, 95% CI: 0.38, 0.57  **Household**: ICC = 0.06, 95% CI: -0.06, 0.17  **Care providing**: ICC = 0.63, 95% CI: 0.55, 0.70  **Total**: ICC = 0.53, 95% CI: 0.44, 0.62 |
| Gennuso Sedentary Behaviour Questionnaire (Gennuso et al. 2016) | 70 (8), 64% | 7: TV, computer, reading, socializing, transportation, hobbies, other activities | activPAL | **Total**: r = 0.06, p=0.72  Mean difference = 0.31 hour/day, 95% CI: -6.74, 7.37 | **Total**: ICC = 0.48, p<0.001  **Transport**: ICC = 0.14, p=0.16  **Socializing**: ICC = 0.29, p=0.02  **TV**: ICC = 0.74, p<0001  **Computer**: ICC = 0.93, p<0.001 |
| Global Physical Activity Questionnaire (GPAQ) (Cleland et al. 2014, Herrmann et al. 2013) | **Study 1**: 44 (14), 46%  **Study 2:** 18-65, 50-83% | 1: occupation, socializing, TV, reading, transportation, playing cards | **Study 1:** ActiGraph GT3X (≤100 cpm)  **Study 2:** ActiGraph GT1M (<100 cpm) | **Study 1:** Overall r = 0.19, p = 0.135. Mean difference = 348.7 mins/day, p = 0.0001. LoA = -721.1 to +23.7 mins/day. Bias exists with those who were found to be more sedentary less likely to under-report their SB using the GPAQ.  **Study 2**: r = -0.12, NS | **Study 1:** NR  **Study 2:** Short-term (10 days, n = 16) ICC = 0.92, 95% CI: 0.78, 0.97. Long-term (3 months, n = 54); ICC = 0.83, 95% CI: 0.70, 0.90 |
| International Physical Activity Questionnaire (IPAQ) (Rosenberg et al. 2008, Craig et al. 2003, Kolbe-Alexander et al. 2006, Umstattd et al. 2013) | **Study 1:** 18-65, 35%-75%  **Study 2:** 68 (5), 57%  **Study 3:** 35.9 (11.3), 55%  **Study 4:** 44.6 (10.9), 78% | 4: transport, all-day weekday and weekend sitting | **Study 1:** CSA accelerometer (<100 cpm)  **Study 2:** NA  **Study 3:** CSA 7164 (<100 cpm)  **Study 4:** ActiGraph GT1M (<100 cpm) | **Study 1:** Sitting time completed by telephone: Australia r = 0.32; past 7-days completed by self: USA1 r = 0.45; USA2 r = 0.49; UK1 r = 0.25; usual week by telephone: USA2 r = 0.27; usual week self completed: USA1 r = 0.40  **Study 2:** NR  **Study 3\*:**  **Long form sitting:** UK r = 0.24; Netherlands r = 0.26; USA1 r = 0.30; USA2 r = 0.50; total r = 0.33  **Long form sitting + transportation:** UK r = 0.25; Netherlands r = 0.35; USA1 r = 0.26; USA2 r = 0.49; total r = 0.31  **Short form sitting:** UK r = 0.25; Netherlands r = 0.22; USA1 r = 0.45; USA2 r = 0.49; total r = 0.34  **Study 4:**  Significant difference between ActiGraph (667.4 mins/day) vs. IPAQ (502.1 mins/day), p<0.001 | **Study 1**: Sitting past 7 days by telephone: UK2 r = 0.50; completed by self: UK1: r = 0.73; USA1 r = 092; USA2 r = 0.85; USA2 r = 0.71; usual week telephone: USA2 r = 0.73-0.75; usual week self: USA1 r = 0.94  **Study 2**: Men r = 0.76, p = 0.0000; women r = 0.77, p = 0.0000  **Study 3\*:**  **Weekday sitting:** UK r = 0.72; Netherlands r = 0.96; USA1 r = 0.95; USA2 r = 0.82; total r = 0.81.  **Weekend sitting:** UK r = 0.64; Netherlands r = 0.96; USA1 r = 0.97; USA 2 r = 0.78; total r = 0.84  **Total sitting:** UK r = 0.75; Netherlands r = 0.96; USA1 r = 0.96; USA2 r = 0.87; total r = 0.82  **Transport:** UK r = 0.81; Netherlands r = 0.93; USA1 r = 0.84; USA2 r = 0.91; total r = 0.84  **Sitting + transport:** UK r = 0.74; Netherlands r = 0.87; USA1 r = 0.95; USA2 r = 0.85; total r = 0.81  **Study 4:** NR |
| Jefferis Sedentary Behaviour Questionnaire (Jefferis et al. 2016) | 71-93, 0% | 4: TV, reading, computer, transportation | ActiGraph GT3X (<100 cpm) | **Total**: r = 0.18, p<0.001, mean difference = 300 mins/day, 95% CI: 291, 309, LoA = -6 to 607  **TV:** r = 0.17, p>0.001, mean difference = 440 mins/day, 95% CI: 433, 447; LoA = 193 – 687 | NR |
| Longitudinal Aging Study Amsterdam (LASA) Questionnaire (Visser & Koster 2013) | 65-92, 49.4% | 20: TV, read, music, hobbies, occupation, socializing, resting, computer, transportation, church or movie theatre, administrative tasks | ActiGraph GT3X (<100 cpm) | **Napping:** r = 0.11, NS  **Reading:** r = 0.21, NS  **Listening to music:** r = 0.14, NS  **TV:** r = 0.22, NS  **Computer:** r = 0.04, NS  **Working:** r = 0.002, NS  **Hobby:** r = 0.20, NS  **Socializing:** r = 0.05, NS  **Transportation:** r = -0.06, NS  **Church/theatre:** r = -0.19, NS  **Total:** r = 0.35, p<0.05 | **Total**: ICC **=** 0.71, 95% CI: 0.57, 0.81 |
| Madras Diabetes Research Foundation - Physical Activity Questionnaire (MPAQ) (Anjana et al. 2015) | 32 (8.7) 48% | 16: TV, prayer, movies, yoga as relaxation, chatting, reading,  sitting, listening to  music etc., passive | ActiGraph GT3X (<100 cpm) | **Total:** r **=** 0.48, 95% CI: 0.32, 0.62  mean bias = 44.4 mins/week, ±2SD −1599 to 1688] mins/week | **Sitting:** ICC = 0.81, 95% CI: 0.78, 0.84  **TV:** ICC = 0.67, 95% CI: 0.61, 0.71 |
| Marshall Sitting Time Questionnaire (Marshall et al. 2010) | 45-63, 62% | 10: TV, computer, transportation, occupation, leisure | ActiGraph GT1M (<100 cpm) and log book | **Total sitting:** women: weekday: mean difference = -63.6, 95% CI: -115.1, -12.07; weekend-day sitting (mean difference = 10.8, 95%  CI: -52.6, 74.2. Not valid in men against accelerometer. | **TV:** Women: weekday: mean diff between T1 and T2 = -18.5, 95% CI: -28.1, -9.0, r = 0.79; weekend day: mean diff = -4.2, 95% CI: -20.9, 12.6, r = 0.57. Men: weekday: mean diff = -11.2, 95% CI: -26.0, 3.7, ICC = 0.65, r = 0.82, weekend day: mean diff = 3.4, 95% CI: -15.8, 22.5, ICC = 0.62, r = 0.66  **Computer**: Women: weekday: mean diff between T1 and T2 = -0.7, 95% CI: -0.91, 7.7, ICC = 0.63, r = 0.80; weekend day: mean diff = 6.3, 95% CI: -1.6, 14.2, ICC = 0.72, r = 0.74. Men: weekday: mean diff = -6.5, 95% CI: -19.0, 5.9, ICC = 0.62, r = 0.78, weekend day: mean diff = 11.7, 95% CI: -3.5, 26.8, ICC = 0.59, r = 0.68.  **Transportation**: Women: Weekday: mean diff between T1 and T2 = -16.7, 95% CI: -26.6, -6.8, r = 0.43; Weekend day: mean diff = -15.3, 95% CI: -26.6, -0.38, r = 0.31. Men: Weekday: mean diff = -13.0, 95% CI: -24.7, -1.2, r = 0.60, Weekend day: mean diff = -2.0, 95% CI: -16.4, 12.5, r = 0.40.  **Occupation**: Women: weekday: mean diff between T1 and T2 = -3.9, 95% CI: -22.6, 14.7, ICC = 0.79, r = 0.81; weekend day: mean diff = -5.6, 95% CI: -15.2, 14.0, r = 0.53. Men: weekday: mean diff = 4.3, 95% CI: -23.4, 14.9, ICC = 0.86, r = 0.84, weekend day: mean diff = -8.1, 95% CI: -27.4, 11.2, r = 0.23  **Leisure time:** Women: weekday: mean diff between T1 and T2 = -1.0, 95% CI: -17.3, 15.4, r = 0.34; weekend day: mean diff = 0.9, 95% CI: -19.2, 21.0, r = 0.31. Men: weekday: mean diff = 6.5, 95% CI: -5.6, 18.5, r = 0.38, weekend day: mean diff = -12.6, 95% CI: -37.0, 11.8, r = 0.32 |
| Measure of Older Adults' Sedentary Time (MOST). Adapted from Salmon Questionnaire (Gardiner et al. 2011) | 73 (8), 73% | 7: TV, computer, reading, hobbies, social | ActiGraph GT1M (<100cpm) | **Total sum:** r = 0.30, 95% CI: 0.02, 0.54. Mean difference = 3.60 h/day with wide LoA +/- 3.82 h/day | **TV**: r = 0.78, 95% CI: 0.63, 0.89; ICC = 0.76, 95% CI: 0.62, 0.86  **Computer**: r = 0.90, 95% CI: 0.83, 0.94; ICC = 0.79, 95% CI: 0.65, 0.88  **Reading**: r = 0.77, 95% CI: 0.62, 0.86; ICC = 0.74, 95% CI: 0.51, 0.86.  **Transport**: r = 0.45, 95% CI: 0.19, 0.65; ICC = 0.40, 95% CI: 0.14, 0.61  **Hobbies**: r = 0.61, 95% CI: 0.39, 0.76; ICC = 0.35, 95% CI: 0.07, 0.58.  **Socializing**: r = 0.38, 95% CI: 0.11, 0.60; ICC = 0.38, 95% CI: 0.11, 0.60 |
| Modified MONICA Optional Study on Physical Activity Questionnaire (MOSPA-Q) (Chau et al. 2012) | >18, 61% | 1: sitting | ActiGraph (<100 cpm) | r = 0.52, p<0.01 | ICC = 0.54, 95% CI: 0.36, 0.68 |
| Multimedia Activity Recall for Children and Adults (MARCA) (Gomersall et al. 2011, Gomersall et al. 2015) | **Study 1:** 31.7 (12.1), 63%  **Study 2:** 28 (7.4), 48% | Unclear (daily recall of all activities): screen time | **Study 1:** NA  **Study 2:** activPAL | **Study 1:** NR  **Study 2:** r = 0.77, 95% CI: 0.64, 0.86; *P* < .001. Bland-Altman analyses revealed a mean bias of +0.59 h/day, LoA: –2.35 hr to +3.53 h/day. | **Study 1:** ICC = 0.99, 95% CI: 0.98, 0.995  **Study 2:** NR |
| Occupational Sitting and Physical Activity Questionnaire (OSPAQ) (Chau et al. 2012, van Nassau et al. 2015, Wick et al. 2016) | **Study 1:** >18, 61%  **Study 2:** 38(11), 86%  **Study 3:** 40.8 (11.4), 79% | 3: occupational sitting | **Study 1:** ActiGraph (<100 cpm)  **Study 2:** activPAL  **Study 3:** ActiGraph (<100 cpm) | **Study 1**: r = 0.65, p<0.01  Mean difference = 22 mins, 95% CI: 3, 41 mins  **Study 2**: r = 0.35 to 0.48, p<0.05  **Study 3:** ICC = 0.51, 95% CI: 0.24, 0.71, mean difference = -3.9 % of day. | **Study 1:** ICC = 0.89, 95% CI: 0.83, 0.92  **Study 2:** NR  **Study 3:** NR |
| Past-day Adults' Sedentary Time (PAST) (Clark et al. 2013) | 33-75, 100% | 7: TV, computer, reading, transport, occupation, hobbies | activPAL | **Total sum:** r = 0.57, 95% CI: 0.39, 0.71. Mean difference = -0.15 hour, LoA: -4.90, 4.60, 95% CI: -0.72, 0.42 | **TV**: r = 0.38, 95% CI: 0.18, 0.55  **Computer**: r = 0.40, 95% CI: 0.21, 0.57  **Reading**: r = 0.37, 95% CI: 0.17, 0.54  **Transport**: r = 0.44, 95% CI: 0.25, 0.60  **Occupation**: r = 0.64, 95% CI: 0.49, 0.75  **Hobbies**: r = 0.36, 95% CI: 0.16, 0.53 |
| Past-day Adults' Sedentary Time-University (PAST-U) (Clark et al. 2016) | 18-55, 47% | 9: TV, computer, reading, transport, occupation, social | activPAL | **Total sum**: r = 0.63, 95% CI: 0.44, 0.76, mean difference = 0.08h, LoA = -3.92 to 4.07h. Lower mean difference among students: -0.02h | ICC = 0.64, 95% CI: 0.45, 0.77 |
| Past-Week Modifiable Activity Questionnaire (PWMAQ) (Pettee et al. 2011) | 52.6 (5.4), 100% | 1: TV | NR | NR | ICC = 0.77, 95% CI: 0.57, 0.82 |
| Past Year Physical Activity Questionnaire (Orsini et al. 2008) | 56-75, 100% | 1: leisure reading/TV | 7-day PA record | Concordance correlation = 0.47, 95% CI: 0.36, 0.69 | NR |
| Physical Activity and Transit (PAT) Survey (Yi et al. 2015) | ≥18, 59% | 2: sitting | ActiGraph GT3X (<100 cpm) | **Total**: r = 0.32, p< .001; **daytime**: r = 0.37, p< .001, **evening**: r = 0.23, p< .001. Mean difference = 49 mins/day. LoA = -441 to 343 mins/day. Linear regression showed at lower levels of ST, self-report < accelerometer-measured ST. At higher levels of ST, self-report > accelerometer-measured ST (β = 0.59; standard error = 0.02; p< .001; LoA = mean difference ± 200.34). | NR |
| Previous Day Recall (Matthews et al. 2013) | 41.3 (14.8), 54% F | Unclear: all domain | activPAL | Men: r = 0.67, p<0.05; mean difference = 0.72 h/day; LoA = -2.61 to 4.05  Women: r = 0.34, p<0.05; mean differences = 0.75 hrs/day; LoA = -2.21 to 3.74 | NR |
| Rapid Assessment Disuse Index (RADI) (Shuval et al. 2014) | 40-79, % NR | 3: sitting | ActiGraph GT3X (<100 cpm) | **Past week:** r = 0.291, p<0.01  **Past month:** r = 0.189, p<0.05  **Past year:** r = 0.245, p<0.01 | **Week:** ICC = 0.56, 95% CI: 0.44, 0.66  **Month:** ICC = 0.58, 95% CI: 0.46, 0.67  **Year:** ICC = 0.60, 95% CI: 0.49, 0.69 |
| Salmon Sedentary Behaviour Questionnaire (Salmon et al. 2003, Gardiner et al. 2011) | **Study 1:** reliability: 23% , 50.8 (13.5); validity: 51% , 38.8 (15.0)  **Study 2:** 73 (8), 73% | **Study 1:** unknown (~9)  **Study 2**: 7: TV, computer, reading, transportation, hobbies, socializing, telephone, listening to music | **Study 1:** 3-day log  **Study 2:** ActiGraph GT1M (<100 cpm) | **Study 1:**  **Computer**: r= 0.6, p<0.01  **Going for a drive, listening to music, hobbies, talking on the telephone, and reading**: r = 0.4, p<.01  **TV and sitting socializing:** r = 0.3, p<.01  **Reading:** r= 0.2, p<0.05  **Study 2:**  **Total**: r = 0.30, 95% CI: 0.02, 0.54; mean difference = 3.60 h/day, LoA = mean difference ± 3.82 h). | **Study 1:**  **TV**: ICC = 0.82, 95% CI: 0.75, 0.87  **Sitting socializing**: ICC = 0.76, 95% CI: 0.66, 0.82  **Reading**: ICC = 0.78, 95% CI: 0.69, 0.84  **Relaxing/resting**: ICC = 0.56, 95% CI: 0.39, 0.68  **Listening to music**: ICC = 0.37, 95% CI: 0.23, 0.50  **Hobby**: ICC = 0.23, 95% CI: 0.07, 0.44  **Going for a drive**: ICC = 0.85, 95% CI: 0.79, 0.89  **Computer**: ICC = 0.62, 95% CI: 0.48, 0.73  **Talking on telephone**: ICC = 0.06, 95% CI: 0.13, 0.19  **Total SB**: ICC = 0.79, 95% CI: 0.71, 0.85  **Study 2:**  **TV**: ICC = 0.76, 95% CI: 0.62, 0.86  **Computer**: ICC = 0.79, 95% CI: 0.65, 0.88  **Reading**: ICC = 0.74, 95% CI: 0.51, 0.86  **Socializing**: ICC = 0.38, 95% CI: 0.11, 0.60  **Transport**: ICC = 0.40, 95% CI: 0.14, 0.61  **Hobbies**: ICC = 0.35, 95% CI: 0.07, 0.58  **Other**: ICC = 0.04, 95% CI: 0.25, 0.32  **Total SB**: ICC = 0.52, 95% CI: 0.27, 0.70 |
| Sedentary Behavior Questionnaire (SBQ) (Rosenberg et al. 2010) | ≥18, 0 to 100% (3 samples) | 18: TV, video games, reading, transport, paperwork, listening to music, telephone, arts and crafts, musical instruments | ActiGraph 7164 (<100 cpm) | **TV**: women r = 0.12, p = 0.04; men r = -0.001,p = 0.99  **Video games**: women r = 0.04, p = 0.49, men r = 0.01, p = 0.84  **Reading**: women r = 0.04, p = 0.49, men r = 0.01, p = 0.84  **Transport**: women r = -0.04, p = 0.47; men r = 0.03, p = 0.60  **Paperwork**: women r = 0.17, p = 0.002, men r = 0.003, p = 0.95  **Total sum**: women r = 0.10, p = 0.07, men r = -0.01, p = 0.81. **Weekday**: women r = 0.06, p = 0.32, men: r = -0.02, p = 0.78. **Weekend day**: women r = 0.18, p = 0.002, men r = -0.005, p = 0.93 | **TV**: weekday: ICC = 0.86, 95% CI: 0.76, 0.92, r = 0.87; weekend: ICC = 0.83, 95% CI: 0.72, 0.90, r = 0.85  **Video games**: weekday: ICC = 0.83, 95% CI: 0.72, 0.90, r = 0.80; weekend: ICC = 0.830, 95% CI: 0.67, 0.88, r = 0.81  **Reading**: weekday: ICC = 0.64, 95% CI: 0.44, 0.78, r = 0.48; weekend: ICC = 0.64, 95% CI: 0.24, 0.67, r = 0.59  **Transport**: weekday: ICC = 0.76, 95% CI: 0.61, 0.86, r = 0.72; weekend: ICC = 0.76, 95% CI: 0.56, 0.83, r = 0.75  **Paperwork**: weekday: ICC = 0.77, 95% CI: 0.63, 0.87, r = 0.64; weekend: ICC = 0.67, 95% CI: 0.44, 0.61, r = 0.64  **Arts & crafts:** weekday: ICC = 0.70, 95% CI: 0.53, 0.82; weekend: ICC = 0.51, 95% CI: 0.27, 0.69  **Sitting musical instrument:** weekday: ICC = 0.90, 95% CI: 0.82, 0.94; weekend: ICC = 0.93, 95% CI: 0.87, 0.96  **Talking on phone:** weekday: ICC = 0.81, 95% CI: 0.68, 0.89; weekend: ICC = 0.73, 95% CI: 0.57, 0.84  **Listening to music:** weekday: ICC = 0.71, 95% CI: 0.54, 0.82; weekend: ICC = 0.67, 95% CI: 0.49, 0.80  **Total sum**: weekday: ICC = 0.85, 95% CI: 0.75, 0.91, r = 0.77; weekend: ICC = 0.79, 95% CI: 0.63, 0.86, r = 0.74 |
| Sedentary, Transportation and Activity Questionnaire (STAQ) (Mensah et al. 2016) | 20-65, 53% | 7: TV, computer, leisure, transport, sitting | ActiGraph GT3X (<150 cpm) | **Total sum**: r = 0.54, p<0.0001 | **TV**: ICC = 0.79, 95% CI: 0.61, 0.89  **Computer**: ICC = 0.64, 95% CI: 0.38, 0.80  **Leisure screen**: ICC = 0.26, 95% CI: -0.08, 0.55  **Transport**: ICC = 0.28, 95% CI: -0.06, 0.56  **Occupation**: ICC = 0.71, 95% CI: 0.49, 0.84  **Leisure sitting time**: ICC = 0.37, 95% CI: 0.03, 0.62;  **Leisure total**: ICC = 0.64, 95% CI: 0.38, 0.80  **Total screen time:** ICC = 0.70, 95% CI: 0.48, 0.84 |
| Aguilar-Farias Single question to assess sitting time (Aguilar-Farias et al. 2015) | 74.5 (7.6), 52% | 1: sitting (weekday, weekend day, previous day) | activPAL | r = 0.13-0.33 | ICC = 0.64-0.79, 95% CI: NR |
| SIT-Q (Lynch et al. 2014) | 34 males: 51.2 (6.7), 47 females: 45.9 (8.6) | 28: past-year sleeping and napping, meals, transportation, work/study/volunteering, childcare/eldercare, light leisure/relaxing | NR | NR | **Meals:** ICC = 0.60, 95% CI: 0.42, 0.74  weekday only ICC = 0.65, 95% CI: 0.48, 0.77  weekend only ICC = 0.41, 95% CI: 0.18, 0.59  **Transportation:** ICC = 0.59, 95% CI: 0.41, 0.73  weekday only ICC = 0.65, 95% CI: 0.48, 0.77  weekend only ICC = 0.51, 95% CI: 0.30, 0.67  **Work, study & volunteering:** ICC = 0.86, 95% CI: 0.78, 0.91  **Childcare/elder care:** ICC = 0.59, 95% CI: 0.40, 0.73  weekday only ICC = 0.60, 95% CI: 0.41, 0.73  weekend only ICC = 0.59, 95% CI: 0.40, 0.73  **Television viewing time:** ICC = 0.84, 95% CI: 0.75, 0.90  weekday only ICC = 0.82, 95% CI: 0.72, 0.89  weekend only ICC = 0.69, 95% CI: 0.53, 0.80  **Computer use at home:** ICC = 0.31, 95% CI: 0.07, 0.52  weekday only ICC = 0.25, 95% CI: 0, 0.47  weekend only ICC = 0.42, 95% CI: 0.19, 0.60  **Leisure time:** ICC = 0.61, 95% CI: 0.43, 0.74  weekday only ICC = 0.63, 95% CI: 0.45, 0.76  weekend only ICC = 0.51, 95% CI: 0.31, 0.68  **Total daily sitting:** ICC = 0.65, 95% CI: 0.49, 0.78 |
| Workforce Sitting Questionnaire (Chau et al. 2011) | 40-59, 63% | 11: occupation, transport, TV, computer, leisure | AcitGraph GT1M (<100 cpm) | **Occupational**: r = 0.45, p<0.01  **Total all domains workday**: r = 0.34, p<0.01  **Total all domains non-workday**: r = 0.23, p<0.05  **Average total work and non-workdays**: r = 0.40, p<0.01 | **Workday**  **Transport**: ICC = 0.67, 95% CI: 0.54, 0.77  **Occupational**: ICC = 0.63, 95% CI: 0.49, 0.74  **TV**: ICC = 0.91, 95% CI: 0.87, 0.94  **Computer at home**: ICC = 0.56, 95% CI: 0.40, 0.69  **Other leisure activities**: ICC = 0.68, 95% CI: 0.55, 0.78  **Total**: ICC = 0.65, 95% CI: 0.51, 0.75  **Non-workday**  **Transport**: ICC = 0.60, 95% CI: 0.45, 0.72  **Occupational**: ICC = 0.50, 95% CI: 0.33, 0.64  **TV**: ICC = 0.79, 95% CI: 0.69, 0.85  **Computer at home**: ICC = 0.81, 95% CI: 0.73, 0.87  **Other leisure activities**: ICC = 0.59, 95% CI: 0.44, 0.71  **Total**: ICC = 0.80, 95% CI: 0.72, 0.87  *Lower reliability among men.* |
| Workplace Computer Use Questionnaire (Douwes et al. 2007) | 25-55, 53% | 2: occupational computer use | Direct observation | r = 0.41; p = 0.001 | NR |
| Workplace sitting questionnaire (Stand Up Australia Study) (van Nassau et al. 2015, Clark et al. 2011) | **Study 1:** 18-65, 60%  **Study 2:** 38(11), 86% | 2: occupational sitting and breaks from sitting | **Study 1:** Accelerometer (brand not specified, <100 cpm)  **Study 2:** activPAL | **Study 1:**  **Sitting time:** r(pearson) = 0.39, 95% CI: 0.22, 0.53; r(spearman) = 0.29, 95% CI: 0.11, 0.44  Mean difference = -2.75 + (0.47 x average), LoA = mean difference ± 2.25 h  **Breaks in sitting time:** r = 0.26, 95% CI: 0.11, 0.44  **Study 2:** r = 0.25 to 0.30, NS | NR |
| Yale Physical Activity Survey for Older Adults (YPAS) (Gennuso et al. 2015) | 75.1 (6.5), 79% | 1: sitting | ActiGraph (<100 cpm) | 8.6% agreement | ICC = 0.59, p<0.001 |

\* - Total males and females, separate data not shown, %F - percentage of sample that is female, cpm - counts per minute, h – hour(s), ICC - intraclass correlation coefficient, LoA - limits of agreement, N/A - not applicable, NR - not reported, NS - not significant, r - correlation coefficient, SB - sedentary behaviour, SD - standard deviation, UK - United Kingdom, USA - United States of America

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