**Supporting table 5 – Risk of bias**

|  |  |  |  |
| --- | --- | --- | --- |
| **Questionnaire** | Statistical Methods | | Overall Rating\* |
| 1. Continuous scores: Correlations, or the area under the receiver operating curve calculated? | 2.Dichotomous scores: Sensitivity and specificity determined? |
| **Physical Activity** | | | |
| Nord-Trøndelag Health Study PA Questionnaire (HUNT 1)30 | 1 | NA | 1 |
| Past Year Total Physical Activity Questionnaire (PYTPAQ)31 | 1 | NA | 1 |
| Physical Activity Assessment Tool (PAAT)32 | 1 | 1 | 1 |
| Minnesota Leisure Time Physical Activity Questionnaire (Minnesota LTPA Q)33 | 1 | NA | 1 |
| Single Item Physical Activity Measure (SI PA M)34 | NA | NA | NA |
| Godin Questionnaire (Godin Q)33 | 1 | NA | 1 |
| CARDIA Physical Activity History (CARDIA)33 | 1 | NA | 1 |
| College Alumnus Questionnaire (College Alumnus Q)33 | 1 | NA | 1 |
| Minnesota Heart Health Program Questionnaire (MHHP Q)33 | 1 | NA | 1 |
| Modified Historical Leisure Activity Questionnaire (MHLAQ)35 | NA | NA | NA |
| Modified version Active Australia Survey 1(MV – AAS1)36 | 1 | 4 | 4 |
| Modified version Active Australia Survey (MV – AAS2)37 | 1 | 4 | 4 |
| Adapted from Active Australia Survey (Adapt AAS)38 | 1 | 4 | 4 |
| International Physical Activity Questionnaire – Walking Section (IPAQ-WS)39 | 1 | NA | 1 |
| Short Questionnaire to Assess Health-enhancing physical activity (SQUASH)40 | 1 | NA | 1 |
| European Prospective Investigation into Cancer and Nutrition Physical Activity Questionnaire (EPIC PAQ)41 | 1 | 4 | 4 |
| 13-Item Physical Activity Questionnaire (13I-PAQ)42 | NA | NA | NA |
| Questionnaire d’Activité Physique pour les Personnes Âgées (QAPPA)43 | NA | NA | NA |
| Incidental and Planned Exercise Questionnaire (IPEQ)44 | NA | NA | NA |
| Physical Activity Questionnaire for Elderly Japanese (PAQ-EJ)45 | 1 | 4 | 4 |
| The Longitudinal Ageing Study Amsterdam Physical Activity Questionnaire (LAPAQ)46 | 1 | NA | 1 |
| Nordic Physical Activity Questionnaire (NPAQ-short)47 | 1 | 1 | 1 |
| Self-report physical activity questionnaire (SPAQ)48 | 1 | NA | 1 |
| Transport and Physical Activity Questionnaire (TPAQ)49 | 1 | NA | 1 |
| General Practice Physical Activity Questionnaire (GPPAQ)50 | 4 | 1 | 4 |
| **Sedentary Behaviour** | | | |
| International Physical Activity Questionnaire - Sedentary Behaviour (IPAQ-SB)51 | 1 | NA | 1 |
| Australian Longitudinal Study on Women’s Health - Sedentary Behaviour Questions (ALSWH - SB Q)52 | NA | NA | NA |
| Self-reported sitting and breaks from sitting in the workplace (SBSW)53 | 1 | NA | 1 |
| Workplace Sitting Breaks Questionnaire (SITBRQ)54 | 1 | NA | 1 |
| Sedentary Behavior Questionnaire (SBQ)55 | 1 | NA | 1 |
| SED-GIH56 | 1 | NA | 1 |
| Workforce Sitting Questionnaire (WSQ)57 | 1 | NA | 1 |
| Japanese-Language Self-reported Measures for Assessing Adults Domain-Specific Sedentary Time (JSRM - SB)58 | 1 | NA | 1 |
| Longitudinal Aging Study Amsterdam questionnaire (LASA)59 | 1 | NA | 1 |
| SB question of the Yale Physical Activity Survey (YPAS - SB)60 | 1 | NA | 1 |
| Community Health Activities Model Program for Seniors SB questions (CHAMPS - SB)60 | 1 | NA | 1 |
| Cancer Prevention Study-3 Sedentary Time Survey (CPS-3 ST)61 | 1 | NA | 1 |
| **Sleep** | | | |
| BRFSS sleep questions (BRFSS Sleep)62 | 4 | NA | 4 |
| **Physical Activity + Sedentary Behaviour** | | | |
| Kaiser Physical Activity Survey (KPAS)63 | 1 | NA | 1 |
| Sedentary, Transportation and Activity Questionnaire (STAQ)64 | 1 | NA | 1 |
| International Physical Activity Questionnaire (IPAQ)65 | 1 | 1 | 1 |
| Australian Women’s Activity Survey (AWAS)66 | 1 | NA | 1 |
| Workers’ sitting- and walking-time questionnaire Time Method (WSWQ- t-method)67 | 1 | NA | 1 |
| The Physical Activity Scale for the Elderly (PASE)68 | NA | NA | NA |
| Community Health Activities Model Program for Seniors physical activity self-report questionnaire + transport items (CHAMPS+transport)69 | 1 | NA | 1 |
| Community Healthy Activities Model Program for Seniors (CHAMPS)70 | NA | NA | NA |
| Modified Version of the MONICA Optional Study on Physical Activity Questionnaire (Modified MOSPA-Q)71 | 1 | NA | 1 |
| Occupational Sitting and Physical Activity Questionnaire (OSPAQ)71,72 | 1 | NA | 1 |
| Rapid Assessment Disuse Index (RADI)73 | 1 | NA | 1 |
| Global Physical Activity Questionnaire (GPAQ)74 | 1 | 1 | 1 |
| **Sedentary Behaviour + Sleep** | | | |
| SIT-Q75 | NA | NA | NA |
| **Physical Activity + Sedentary Behaviour + Sleep** | | | |
| Physical Activity Questionnaire (PAQ)76 | NA | NA | NA |
| Athens Physical Activity Questionnaire (APAQ)77 | 1 | NA | 1 |
| Sedentary Time and Activity Reporting Questionnaire (STAR-Q)78 | NA | NA | NA |
| Question 8 of the Paffenbarger Physical Activity Questionnaire (Q 8 PPAQ)79 | 1 | NA | 1 |
| EPIC-Norfolk Physical Activity Questionnaire (EPAQ2)80 | 1 | NA | 1 |
| Workers’ sitting- and walking-time questionnaire Percentage Method (WSWQ - p-method)67 | 1 | NA | 1 |
| New Questionnaire on Physical Activity (NQPA)81 | NA | NA | NA |
| Web-Based Physical Activity Questionnaire (Active-Q)81 | 1 | NA | 1 |
| Flemish Physical Activity Computerized Questionnaire (FPACQ)83 | 1 | NA | 1 |

Ratings: 1= Very low Risk of Bias; 2= Low Risk of Bias; 3= Medium Risk of Bias; 4= High Risk of Bias; Abbreviations: NA= Not Applicable.

\* According to COSMIN guidelines, overall quality rating is based on ‘worst counts method’.

**Reliability and Measurement error**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Questionnaire** | Design Requirements (for reliability and measurement error) | | | Reliability Statistical Methods | | | | Measurement Error Statistical Methods | | Overall Rating Reliability/Measurement Error\* |
| 1.Participants stable during measurement period? | 2.Time interval appropriate? | 3.Similar test conditions in both measurements? | 4.Continuous scores: ICC calculated? | 5.Dichotomous/nominal/ ordinal scores: Kappa calculated? | 6.Ordinal scores: weighted kappa calculated? | 7. Ordinal scores: Weighting scheme described? | 4.Continuous scores: SEM, SDC or LoA calculated? | 5.Dichotomous/nominal/ordinal scores: Percentage (positive and negative) agreement calculated? |
| **Physical Activity** | | | | | | | | | | |
| Nord-Trøndelag Health Study PA Questionnaire (HUNT 1)30 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | N.R. | N.R. | 3/N.R. |
| Past Year Total Physical Activity Questionnaire (PYTPAQ)31 | 1 | 1 | 1 | 1 | NA | NA | NA | N.R. | NA | 1/N.R. |
| Physical Activity Assessment Tool (PAAT)32 | 1 | 1 | 1 | 3 | 1 | NA | NA | N.R. | N.R. | 3/N.R. |
| Minnesota Leisure Time Physical Activity Questionnaire (Minnesota LTPA Q)33 | 1 | 1 | 1 | 3 | NA | NA | NA | N.R. | NA | 3/N.R. |
| Single Item Physical Activity Measure (SI PA M)34 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | N.R. | N.R. | 3/N.R. |
| Godin Questionnaire (Godin Q)33 | 1 | 1 | 1 | 3 | NA | NA | NA | N.R. | NA | 4/N.R. |
| CARDIA Physical Activity History (CARDIA)33 | 1 | 1 | 1 | 3 | NA | NA | NA | N.R. | NA | 3/N.R. |
| College Alumnus Questionnaire (College Alumnus Q)33 | 1 | 1 | 1 | 3 | NA | NA | NA | N.R. | NA | 3/N.R. |
| Minnesota Heart Health Program Questionnaire (MHHP Q)33 | 1 | 1 | 1 | 3 | NA | NA | NA | N.R. | NA | 3/N.R. |
| Modified Historical Leisure Activity Questionnaire (MHLAQ)35 | 2 | 1 | 2 | 1 | NA | NA | NA | N.R. | NA | 2/N.R. |
| Modified version Active Australia Survey 1(MV – AAS1)36 | 1 | 1 | 1 | 3 | 4 | NA | NA | 2 | 2 | 4/2 |
| Modified version Active Australia Survey (MV – AAS2)37 | 1 | 4 | 2 | 4 | 1 | NA | NA | 1 | N.R. | 4/4 |
| Adapted from Active Australia Survey (Adapt AAS)38 | 1 | 1 | 2 | 1 | 1 | NA | NA | N.R. | 1 | 2/2 |
| International Physical Activity Questionnaire – Walking Section (IPAQ-WS)39 | 1 | 1 | 2 | 4 | NA | NA | NA | N.R. | NA | 4/N.R. |
| Short Questionnaire to Assess Health-enhancing physical activity (SQUASH)40 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | N.R. | NA | 3/N.R. |
| European Prospective Investigation into Cancer and Nutrition Physical Activity Questionnaire (EPIC PAQ)41 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | N.R. | 3/1 |
| 13-Item Physical Activity Questionnaire (13I-PAQ)42 | 1 | 1 | 2 | 1 | NA | NA | NA | N.R. | NA | 2/N.R. |
| Questionnaire d’Activité Physique pour les Personnes Âgées (QAPPA)43 | 1 | 4 | 2 | 1 | 1 | NA | NA | 1 | 2 | 4/4 |
| Incidental and Planned Exercise Questionnaire (IPEQ)44 | 1 | 1 | 2 | 1 | NA | NA | NA | N.R. | NA | 2/N.R. |
| Physical Activity Questionnaire for Elderly Japanese (PAQ-EJ)45 | 1 | 1 | 3 | 3 | NA | NA | NA | N.R. | NA | 3/N.R. |
| The Longitudinal Ageing Study Amsterdam Physical Activity Questionnaire (LAPAQ)46 | 1 | 1 | 1 | 3 | NA | NA | NA | 1 | NA | 3/1 |
| Nordic Physical Activity Questionnaire (NPAQ-short)47 | 1 | 1 | 1 | 3 | 1 | NA | NA | N.R. | N.R. | 3/N.R. |
| Self-report physical activity questionnaire (SPAQ)48 | 1 | 1 | 1 | 3 | NA | NA | NA | N.R. | NA | 3/N.R. |
| Transport and Physical Activity Questionnaire (TPAQ)49 | 1 | 1 | 2 | 1 | 1 | NA | NA | 2 | N.R. | 2/2 |
| General Practice Physical Activity Questionnaire (GPPAQ)50 | 1 | 4 | 1 | NA | 1 | 1 | 1 | N.R. | 2 | 4/4 |
| **Sedentary Behaviour** | | | | | | | | | | |
| International Physical Activity Questionnaire - Sedentary Behaviour (IPAQ-SB)51 | 1 | 1 | 1 | 3 | 1 | NA | NA | N.R. | N.R. | 3/N.R. |
| Australian Longitudinal Study on Women’s Health - Sedentary Behaviour Questions (ALSWH - SB Q)52 | 1 | 1 | 1 | 1 | NA | NA | NA | 2 | NA | 1/2 |
| Self-reported sitting and breaks from sitting in the workplace (SBSW)53 | 1 | 1 | 2 | 1 | NA | NA | NA | N.R. | NA | 2/N.R. |
| Workplace Sitting Breaks Questionnaire (SITBRQ)54 | **1** | 1 | 2 | 3 | 1 | 1 | 1 | N.R. | 2 | 3/2 |
| Sedentary Behavior Questionnaire (SBQ)55 | 1 | 1 | 2 | 1 | NA | NA | NA | N.R. | NA | 2/N.R. |
| SED-GIH56 | 4 | 1 | 4 | 1 | 1 | 1 | 1 | N.R. | N.R. | 4/N.R. |
| Workforce Sitting Questionnaire (WSQ)57 | 1 | 1 | 1 | 1 | NA | NA | NA | N.R. | NA | 1/N.R. |
| Japanese-Language Self-reported Measures for Assessing Adults Domain-Specific Sedentary Time (JSRM - SB)58 | 1 | 1 | 1 | 1 | NA | NA | NA | N.R. | NA | 1/N.R. |
| Longitudinal Aging Study Amsterdam questionnaire (LASA)59 | 1 | 1 | 1 | 1 | NA | NA | NA | N.R. | NA | 1/N.R. |
| SB question of the Yale Physical Activity Survey (YPAS - SB)60 | 1 | 1 | 1 | 1 | 1 | NA | NA | N.R. | NA | 1/N.R. |
| Community Health Activities Model Program for Seniors SB questions (CHAMPS - SB)60 | 1 | 1 | 1 | 1 | NA | NA | NA | N.R. | NA | 1/N.R. |
| Cancer Prevention Study-3 Sedentary Time Survey (CPS-3 ST)61 | 1 | 1 | 1 | 3 | NA | NA | NA | N.R. | NA | 3/N.R. |
| **Sleep** | | | | | | | | | | |
| BRFSS sleep questions (BRFSS Sleep)62 | 1 | 1 | 3 | 4 | NA | NA | NA | N.R. | NA | 4/N.R. |
| **Physical Activity + Sedentary Behaviour** | | | | | | | | | | |
| Kaiser Physical Activity Survey (KPAS)63 | 1 | 1 | 1 | 1 | NA | NA | NA | N.R. | NA | 1/N.R. |
| Sedentary, Transportation and Activity Questionnaire (STAQ)64 | 1 | 1 | 1 | 1 | NA | NA | NA | 2 | NA | 1/2 |
| International Physical Activity Questionnaire (IPAQ)65 | 1 | 1 | 2 | 3 | 4 | NA | NA | N.R. | 2 | 4/2 |
| Australian Women’s Activity Survey (AWAS)66 | 1 | 1 | 1 | 1 | NA | NA | NA | 2 | NA | 1/2 |
| Workers’ sitting- and walking-time questionnaire Time Method (WSWQ- t-method)67 | 1 | 1 | 1 | 1 | 1 | NA | NA | N.R. | N.R. | 1/N.R. |
| The Physical Activity Scale for the Elderly (PASE)68 | 1 | 4 | 2 | 3 | NA | NA | NA | N.R. | NA | 4/N.R. |
| Community Health Activities Model Program for Seniors physical activity self-report questionnaire + transport items (CHAMPS+transport)69 | 1 | 4 | 1 | 1 | NA | NA | NA | N.R. | NA | 4/N.R. |
| Community Healthy Activities Model Program for Seniors (CHAMPS)70 | 1 | 4 | 1 | 1 | NA | NA | NA | N.R. | NA | 4/N.R. |
| Modified Version of the MONICA Optional Study on Physical Activity Questionnaire (Modified MOSPA-Q)71 | 1 | 1 | 4 | 1 | NA | NA | NA | N.R. | NA | 4/N.R. |
| Occupational Sitting and Physical Activity Questionnaire (OSPAQ)71,72 | 1 | 1 | 4 | 1 | NA | NA | NA | N.R. | NA | 4/N.R. |
| Rapid Assessment Disuse Index (RADI)73 | 1 | 1 | 2 | 1 | NA | NA | NA | N.R. | NA | 2/N.R. |
| Global Physical Activity Questionnaire (GPAQ)74 | 1 | 3 | 1 | 1 | NA | NA | NA | N.R. | NA | 3/N.R. |
| **Sedentary Behaviour + Sleep** | | | | | | | | | | |
| SIT-Q75 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1/1 |
| **Physical Activity + Sedentary Behaviour + Sleep** | | | | | | | | | | |
| Physical Activity Questionnaire (PAQ)76 | 2 | 1 | 2 | 3 | NA | NA | NA | N.R. | NA | 3/N.R. |
| Athens Physical Activity Questionnaire (APAQ)77 | 1 | 1 | 2 | 1 | NA | NA | NA | 2 | NA | 2/2 |
| Sedentary Time and Activity Reporting Questionnaire (STAR-Q)78 | 1 | 1 | 1 | 1 | NA | NA | NA | N.R. | NA | 1/N.R. |
| Question 8 of the Paffenbarger Physical Activity Questionnaire (Q 8 PPAQ)79 | 1 | 1 | 1 | 1 | NA | NA | NA | 1 | NA | 1/1 |
| EPIC-Norfolk Physical Activity Questionnaire (EPAQ2)80 | 1 | 1 | 1 | 3 | 1 | 1 | NA | N.R. | 4 | 3/4 |
| Workers’ sitting- and walking-time questionnaire Percentage Method (WSWQ - p-method)67 | 1 | 1 | 1 | 1 | 1 | NA | NA | N.R. | N.R. | 1/N.R. |
| New Questionnaire on Physical Activity (NQPA)81 | 1 | 1 | 2 | 3 | NA | NA | NA | 2 | NA | 3/2 |
| Web-Based Physical Activity Questionnaire (Active-Q)81 | 1 | 1 | 1 | 1 | NA | NA | NA | N.R. | NA | 1/N.R. |
| Flemish Physical Activity Computerized Questionnaire (FPACQ)83 | 1 | 1 | 1 | 1 | NA | NA | NA | 2 | NA | 1/2 |

Ratings: 1= Very low Risk of Bias; 2= Low Risk of Bias; 3= Medium Risk of Bias; 4= High Risk of Bias. Abbreviations: NA = Not Applicable; N.R.= Not Reported

\* According to COSMIN guidelines, overall quality rating is based on “worst counts method”.

**Convergent Validity**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Questionnaire (Convergent measure)** | Design Requirements | | Statistical Methods | Overall Rating\* |
| Clarity on the comparator instrument(s) measure(s)? | Measurement properties of the comparator instrument(s) are sufficient? | Were design and statistical methods adequate for the hypotheses to be tested? |
|  |
|  |
|  |
|  |
| **Physical Activity** | | | | |  |
| Nord-Trøndelag Health Study PA Questionnaire (HUNT 1)30 (IPAQ) | 1 | 1 | 1 | 1 |  |
| Nord-Trøndelag Health Study PA Questionnaire (HUNT 1)30 (VO2max) | 1 | 1 | 1 | 1 |  |
| Past Year Total Physical Activity Questionnaire (PYTPAQ)31 (7-day PA log) | 1 | 1 | 1 | 1 |  |
| Physical Activity Assessment Tool (PAAT)32 (IPAQ) | 1 | 1 | 1 | 1 |  |
| Minnesota Leisure Time Physical Activity Questionnaire (Minnesota LTPA Q)33 (4 wk history) | 1 | 1 | 1 | 1 |  |
| Minnesota Leisure Time Physical Activity Questionnaire (Minnesota LTPA Q)33 (VO2max) | 1 | 1 | 1 | 1 |  |
| Single Item Physical Activity Measure (SI PA M)34 (GPAQ) | 1 | 1 | 2 | 2 |  |
| Single Item Physical Activity Measure (SI PA M)34 (APS) | 1 | 1 | 2 | 2 |  |
| Godin Questionnaire (Godin Q)33 (4 wk history) | 1 | 1 | 1 | 1 |  |
| Godin Questionnaire (Godin Q)33 (VO2max) | 1 | 1 | 1 | 1 |  |
| CARDIA Physical Activity History (CARDIA)33 (4 wk history) | 1 | 1 | 1 | 1 |  |
| CARDIA Physical Activity History (CARDIA)33 (VO2max) | 1 | 1 | 1 | 1 |  |
| Minnesota Heart Health Program Questionnaire (MHHP Q)33 (4 wk history) | 1 | 1 | 1 | 1 |  |
| Minnesota Heart Health Program Questionnaire (MHHP Q)33 (VO2max) | 1 | 1 | 1 | 1 |  |
| Modified Historical Leisure Activity Questionnaire (MHLAQ)35 (PA LOG) | 1 | 1 | 1 | 1 |  |
| Modified version Active Australia Survey 1(MV – AAS1)36 | NA | NA | NA | NA |  |
| (MV – AAS2)8 | NA | NA | NA | NA |  |
| Adapt AAS9 | NA | NA | NA | NA |  |
| IPAQ-WS10 | NA | NA | NA | NA |  |
| SQUASH11 | NA | NA | NA | NA |  |
| European Prospective Investigation into Cancer and Nutrition Physical Activity Questionnaire (EPIC PAQ)41 (FriedeN.R.eich LTPAQ) | 1 | 1 | 1 | 1 |  |
| 13-Item Physical Activity Questionnaire (13I-PAQ)42 (Body fat) | 1 | 1 | 2 | 2 |  |
| 13-Item Physical Activity Questionnaire (13I-PAQ)42 (VO2max) | 1 | 1 | 2 | 2 |  |
| 13-Item Physical Activity Questionnaire (13I-PAQ)42 (Flexibility) | 1 | 1 | 2 | 2 |  |
| Questionnaire d’Activité Physique pour les Personnes Âgées (QAPPA)43 (Satisfaction with body functioning) | 1 | 4 | 2 | 4 |  |
| Questionnaire d’Activité Physique pour les Personnes Âgées (QAPPA)43 (Decline in physical function) | 1 | 4 | 2 | 4 |  |
| Questionnaire d’Activité Physique pour les Personnes Âgées (QAPPA)43 (Age) | 1 | 4 | 2 | 4 |  |
| Incidental and Planned Exercise Questionnaire (IPEQ)44 (IPEQ-3 months v IPEQ-Week) | 1 | 4 | 2 | 4 |  |
| Incidental and Planned Exercise Questionnaire (IPEQ)44 (WHODAS) | 1 | 4 | 2 | 4 |  |
| Incidental and Planned Exercise Questionnaire (IPEQ)44 (Time up-and-go) | 1 | 4 | 2 | 4 |  |
| Incidental and Planned Exercise Questionnaire (IPEQ)44 (Age) | 1 | 4 | 2 | 4 |  |
| Physical Activity Questionnaire for Elderly Japanese (PAQ-EJ)45 | NA | NA | NA | NA |  |
| The Longitudinal Ageing Study Amsterdam Physical Activity Questionnaire (LAPAQ)46 | NA | NA | NA | NA |  |
| Nordic Physical Activity Questionnaire (NPAQ-short)47 | NA | NA | NA | NA |  |
| Self-report physical activity questionnaire (SPAQ)48 | NA | NA | NA | NA |  |
| Transport and Physical Activity Questionnaire (TPAQ)49 | NA | NA | NA | NA |  |
| General Practice Physical Activity Questionnaire (GPPAQ)50 | NA | NA | NA | NA |  |
| **Sedentary Behaviour** | | | | |  |
| International Physical Activity Questionnaire - Sedentary Behavior (IPAQ-SB)51 | NA | NA | NA | NA |  |
| Australian Longitudinal Study on Women’s Health - Sedentary Behavior Questions (ALSWH - SB Q)52 (7-d behavior log) | 1 | 1 | 1 | 1 |  |
| Self-reported sitting and breaks from sitting in the workplace (SBSW) 53 | NA | NA | NA | NA |  |
| Workplace Sitting Breaks Questionnaire (SITBRQ)54 | NA | NA | NA | NA |  |
| Sedentary Behavior Questionnaire (SBQ)55 | 1 | 1 | 1 | 1 |  |
| SED-GIH56 | NA | NA | NA | NA |  |
| Workforce Sitting Questionnaire (WSQ)57 | NA | NA | NA | NA |  |
| Japanese-Language Self-reported Measures for Assessing Adults Domain-Specific Sedentary Time (JSRM - SB)58 | NA | NA | NA | NA |  |
| Longitudinal Aging Study Amsterdam questionnaire (LASA) 59 | NA | NA | NA | NA |  |
| SB question of the Yale Physical Activity Survey (YPAS - SB)60 | NA | NA | NA | NA |  |
| Community Health Activities Model Program for Seniors SB questions (CHAMPS-SB) 60 | NA | NA | NA | NA |  |
| Cancer Prevention Study-3 Sedentary Time Survey (CPS-3 sitting time)61 | NA | NA | NA | NA |  |
| **Sleep** | | | | |  |
| BRFSS sleep questions (BRFSS Sleep)62 (Theorized question) | 1 | 4 | 4 | 4 |  |
| **Physical Activity + Sedentary Behaviour** | | | | |  |
| Kaiser Physical Activity Survey (KPAS)63 (PA record) | 1 | 1 | 1 | 1 |  |
| Sedentary, Transportation and Activity Questionnaire (STAQ)64 (Contextualized logbook) | 1 | 1 | 1 | 1 |  |
| International Physical Activity Questionnaire (IPAQ)65 (IPAQ Short forms) | 1 | 1 | 1 | 1 |  |
| Australian Women’s Activity Survey (AWAS)66 | NA | NA | NA | NA |  |
| Workers’ sitting- and walking-time questionnaire Time Method (WSWQ- t-method)67 | NA | NA | NA | NA |  |
| The Physical Activity Scale for the Elderly (PASE)68 (Perceived health) | 1 | 1 | 1 | 1 |  |
| The Physical Activity Scale for the Elderly (PASE)68 (Sick Impact Profile) | 1 | 1 | 1 | 1 |  |
| The Physical Activity Scale for the Elderly (PASE)68 (Grip Strength) | 1 | 1 | 1 | 1 |  |
| The Physical Activity Scale for the Elderly (PASE)68 (Balance) | 1 | 1 | 1 | 1 |  |
| Community Health Activities Model Program for Seniors physical activity self-report questionnaire + transport items (CHAMPS+transport)69 | NA | NA | NA | NA |  |
| Community Healthy Activities Model Program for Seniors (CHAMPS)70 (6-Min Walk) | 1 | 1 | 1 | 1 |  |
| Community Healthy Activities Model Program for Seniors (CHAMPS)70 (Self-Reported Physical Functioning) | 1 | 1 | 1 | 1 |  |
| Modified Version of the MONICA Optional Study on Physical Activity Questionnaire (Modified MOSPA-Q)71 | NA | NA | NA | NA |  |
| Occupational Sitting and Physical Activity Questionnaire (OSPAQ)71,72 | NA | NA | NA | NA |  |
| Occupational Sitting and Physical Activity Questionnaire (OSPAQ)71,72 | 1 | 1 | 1 | 1 |  |
| Rapid Assessment Disuse Index (RADI)73 | NA | NA | NA | NA |  |
| Global Physical Activity Questionnaire (GPAQ)74 (IPAQ) | 1 | 1 | 1 | 1 |  |
| **Sedentary Behaviour + Sleep** | | | | |  |
| SIT-Q75 | 1 | 1 | 1 | 1 |  |
| **Physical Activity + Sedentary Behaviour + Sleep** | | | | |  |
| Physical Activity Questionnaire (PAQ)76 (Self-administered structured 7-day PA diary) | 1 | 1 | 1 | 1 |  |
| Athens Physical Activity Questionnaire (APAQ)77 | NA | NA | NA | NA |  |
| Sedentary Time and Activity Reporting Questionnaire (STAR-Q)78 | 1 | 1 | 1 | 1 |  |
| Question 8 of the Paffenbarger Physical Activity Questionnaire (Q 8 PPAQ)79 | NA | NA | NA | NA |  |
| EPIC-Norfolk Physical Activity Questionnaire (EPAQ2)80 (VO2max) | 1 | 1 | 1 | 1 |  |
| Workers’ sitting- and walking-time questionnaire Percentage Method (WSWQ - p-method)67 | NA | NA | NA | NA |  |
| New Questionnaire on Physical Activity (NQPA)81 (PA Diary) | 1 | 1 | 1 | 1 |  |
| Web-Based Physical Activity Questionnaire (Active-Q)82 | NA | NA | NA | NA |  |
| Flemish Physical Activity Computerized Questionnaire (FPACQ) 83 | NA | NA | NA | NA |  |

Ratings: 1= Very low Risk of Bias; 2= Low Risk of Bias; 3= Medium Risk of Bias; 4= High Risk of Bias. Abbreviations: NA = Not Applicable.

\* According to Cosmin, overall quality rating is based on “worst counts method”.

**Responsiveness**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Questionnaire** | Design Requirements | Statistical Methods | Other | Overall Rating |
| Adequate description of important characteristics of the subgroups provided? | Were design and statistical methods adequate for the hypotheses to be tested? | Any other important flaws? |
|
|
|
|
| Community Healthy Activities Model Program for Seniors (CHAMPS)70 | 3 | 1 |  | 3 |  |

Ratings: 1= Very low Risk of Bias; 2= Low Risk of Bias; 3= Medium Risk of Bias; 4= High Risk of Bias

\* According to Cosmin, overall quality rating is based on “worst counts method”.

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