**Supplementary Table 2 - Article Quality Assessment**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Study Number** | **Project name & author**  **[First author, publication year; name of study, if applicable]** | **Study design [cross-sectional = 0 points; longitudinal = 1 point; quasi-experimental = 2 points]** | **Recruitment stratified by key environmental attributes**  **[weight 1]** | **Response rate ≥60% or sample shown to be representative of the population**  **[weight 1]** | **Outcome measures shown to be valid or commonly-used**  **[weight 1]** | **Adjustment for socio-demographic covariates (at least age, gender, education or similar)**  **[weight 1]** | **Adjustment for residential self-selection**  **[weight 1]** | **Appropriate analytical approach – accounting for clustering (if needed)**  **[weight 1/3]** | **Appropriate analytical approach – accounting for distributional assumptions**  **[weight 1/3]** | **Appropriate analytical approach –analyses conducted and presented correctly (e.g., formal testing of moderators; presentation of point estimates and p-values, 95% CIs)**  **[weight 1/3]** | **Did not (inappropriately) categorise continuous environmental exposure**  **[weight 1]** | **Total quality score (out of 9)** |
| 1 | Adult Changes in Thought (ACT) ;  Berke et al., 2007 | 0 | N | N | Y | Y | Y | Y | Y | Y | Y | 5 |
| 2 | Aging, Stress and Health (ASH) ;  Bierman, 2009 | 1 | Y | N | N | Y | Y | N | N | N | Y | 5 |
| 3 | Aichi Gerontological Evaulation Study (AGES); Murata et al., 2008 | 0 | Y | N | Y | Y | N | N | Y | Y | Y | 4.67 |
| 4 | AGES;  Takagi et al., 2013 | 0 | Y | N | Y | Y | N | Y | Y | Y | Y | 5 |
| 5 | Alameda County Study (ACS);  Roberts et al., 1997 | 0 | N | Y | N | N | N | Y | Y | N | Y | 2.67 |
| 6 | Assets and Health Dynamics Among the Oldest Old (AHEAD) ;  Aneshensel et al., 2007 | 0 | N | Y | Y | Y | N | Y | Y | Y | Y | 5 |
| 7 | AHEAD;  Muramatsu, 2003 | 0 | N | N | Y | Y | N | Y | N | Y | Y | 3.67 |
| 8a | ¡Caminemos!;  Hernandez et al., 2015  (A) (cross-sectional) | 0 | N | N | Y | Y | N | N | Y | Y | Y | 3.67 |
| 8b | ¡Caminemos!;  Hernandez et al., 2015  (B) (longitudinal) | 1 | N | N | Y | Y | N | N | Y | Y | Y | 4.67 |
| 9 | Chicago Health and Aging Project (CHAP);  Everson-Rose et al., 2011 | 0 | N | Y | Y | Y | N | Y | Y | Y | Y | 5 |
| 10 | CHAP;  Kelley-Moore et al., 2016 | 0 | N | N | Y | Y | N | Y | Y | Y | Y | 4 |
| 11 | China Health and Retirement Longitudinal Study (CHARLS);  Li et al., 2015 | 0 | Y | Y | Y | Y | N | Y | Y | Y | Y | 6 |
| 12 | CHARLS ;  Li et al., 2016 | 0 | Y | Y | Y | Y | Y | Y | N | Y | Y | 6.67 |
| 13 | CHARLS;  Tian et al., 2015 | 0 | Y | N | Y | Y | Y | N | Y | N | Y | 5.33 |
| 14 | Dynamics Among the Oldest Old (AHEAD);  Wight et al., 2009 | 1 | N | Y | Y | Y | N | Y | Y | Y | Y | 6 |
| 15 | English Longitudinal Study of Ageing (ELSA) – Wave 1;  Marshall et al., 2014 | 0 | Y | Y | Y | Y | N | Y | Y | Y | Y | 6 |
| 16 | ELSA;  Stafford et al., 2011 | 1 | Y | Y | Y | Y | N | N | N | Y | Y | 6.33 |
| 17 | Epidemiological Study of the Elderly (EPESE) – Duke;  Hybels et al., 2006 | 0 | N | N | Y | Y | N | Y | N | Y | Y | 3.67 |
| 18 | EPESE – Hispanic Established Population;  Gerst et al., 2011 | 0 | N | Y | Y | Y | N | Y | Y | Y | Y | 5 |
| 19 | EPESE – Hispanic;  Ostir et al., 2003 | 0 | N | Y | Y | Y | N | Y | Y | Y | Y | 5 |
| 20 | EPSE – New Haven; Kubansky et al., 2005 | 0 | Y | Y | Y | Y | N | Y | N | Y | N | 4.67 |
| 21 | Étude sur la Santé des Ainés (ESA);  Mechakra-Tahiri et al., 2009 | 0 | Y | Y | Y | Y | N | N | Y | Y | Y | 5.67 |
| 22 | Health and Retirement Study (HRS);  Choi et al., 2015 | 0 | Y | Y | Y | Y | N | Y | Y | Y | Y | 6 |
| 23 | Georgia Centenarian Study;  Clayton et al., 1994 | 0 | Y | N | Y | N | N | Y | Y | Y | Y | 4 |
| 24 | Gerontological Regional Database and Resource Centre (GERDA) project; Forsman et al., 2012 | 0 | Y (rural/urban: can impact on social capital) | Y | Y | Y | N | Y | Y | Y | Y | 6 |
| 25 | Hatoyama Cohort Study; Murayama et al., 2013 | 1 | Y | N | Y | Y | N | N | Y | Y | Y | 5.67 |
| 26 | Hatoyama Cohort Study; Murayama, Nishi et al., 2015 | 1 | Y | N | Y | Y | N | Y | Y | Y | Y | 6 |
| 27 | Health in Men Study (HIMS);  Saarloos et al., 2011 | 0 | N (not stratified by walkability, only by postcode of residence) | N | Y | Y | Y | N | Y | Y | N | 3.67 |
| 28 | Healthy Aging Research Network walking study (HAN);  Ivey et al., 2015 | 0 | Y | N | Y | Y | N | Y | Y | Y | Y | 5 |
| 29 | Hispanic Elders’ Behavioral Health Study; Brown et al., 2009 | 1 | N | N | Y | Y | N | N | Y | Y | Y | 4.67 |
| 30 | Korean Community Health Survey (KCHS);  Lee & Park, 2015 | 0 | N | N | Y | Y | N | Y | Y | N | Y | 3.67 |
| 32 | Kwangju (study 1);  Kim et al., 2002 | 0 | Y | Y | Y | N | N | Y | Y | Y | Y | 5 |
| 32 | Kwangju (study2);  Kim et al., 2004 | 0 | Y | Y | Y | Y | N | Y | Y | Y | Y | 6 |
| 33 | Longitudinal Aging Study Amsterdam (LASA);  Knipscheer et al., 2000 | 0 | Y | Y | Y | Y | Y | N | N | N | Y | 6 |
| 34 | Long-Term Care and Social Support: American Indian Aged Project; Curyto et al., 1998 | 0 | Y | Y | Y | Y/N (depending on the outcome; report as 0.5) | N | N | N | Y | Y | 4.83 |
| 35 | Manitoba Study on Health and Aging (MSHA);  St John et al., 2006 | 0 | N | N | Y | Y | Y | Y | Y | Y | Y | 5 |
| 36 | MSHA;  St John et al., 2009; | 0 | Y | N | Y | Y | Y | N | Y | Y | Y | 5.67 |
| 37 | Medical Research Council Trial;  Walters et al., 2004 | 0 | Y | N | Y | Y/N (depending on the exposure; report as 0.5) | N | Y | Y | Y | N | 3.5 |
| 38a | Medical Research Council Ageing in Liverpool – Health Aspects (MRC-ALPHA);  Wilson et al., 1999  (A) (cross-sectional) | 0 | N | Y | Y | Y | N | Y | Y | N | Y | 4.67 |
| 38b | Medical Research Council Ageing in Liverpool – Health Aspects (MRC-ALPHA);  Wilson et al., 1999  (B) (longitudinal) | 1 | N | Y | Y | Y | N | Y | Y | Y | Y | 6 |
| 39 | Mobilize Boston Study; Wang et al., 2014 | 1 | N | N | Y | Y | N | Y | Y/N (continuous outcome positively skewed; report as 0.5) | Y | N | 3.83 |
| 40a | Multi-Ethnic Study of Atherosclerosis (MESA); Moore et al., 2016  (A) (cross-sectional) | 0 | Y | N | Y | Y | N | N | N | Y | Y | 4.33 |
| 40b | Multi-Ethnic Study of Atherosclerosis (MESA); Moore et al., 2016  (B) (longitudinal) | 1 | Y | N | Y | Y | N | N | Y | Y | Y | 5.67 |
| 41 | National Social Life Health and Aging Project (NSHAP);  Upenieks et al 2016 | 0 | N | Y | Y | Y | N | Y | N | Y | Y | 4.67 |
| 42 | Nationwide Survey on Dementia in Korea (NaSDeK);  Park et al., 2012 | 0 | Y | Y | Y | Y | N | Y | Y | Y | Y | 6 |
| 43 | New York Social Environment Study  Ahern et al., 2011; | 0 | N | N | Y | Y | N | Y | Y | Y | N | 3 |
| 44 | Sacramento Area Latino Study on Aging (SALSA); Kwag et al., 2012 | 0 | N | Y | Y | Y | N | N | N | N | Y | 4 |
| 45 | Shimane CoHRE Study; Hamano et al., 2016 | 0 | N | N | Y | N | N | Y | Y | Y | N | 2 |
| 46 | Taiwan Old Age Depression Study (TOADS);  Chong et al., 2001 | 0 | Y | Y | Y | N | N | N | Y | N | Y | 4.33 |
| 47 | None;  Abe et al., 2012 | 0 | Y | Y | Y | N | N | N | N | N | Y | 4 |
| 48 | None;  Bastos et al., 2015 | 0 | N | N | Y | Y | N | N | Y | N | Y | 3.33 |
| 49 | None;  Carpiniello et al., 1989 | 0 | Y | Y | N | N | N | Y | Y | N | Y | 3.67 |
| 50 | None;  Chiu et al., 2005 | 0 | Y | Y | Y | N | N | N | Y | Y | Y | 4.67 |
| 51 | None;  Evans, 2009 | 0 | Y | N | Y | N | N | N | N | Y | Y | 3.33 |
| 52 | None;  Goins et al., 1999 | 0 | Y | Y | Y | Y | N | N | N | Y | Y | 5.33 |
| 53 | None;  Kim et al., 2013 | 0 | N | Y | Y | Y | Y | N | Y | N | Y | 5.33 |
| 54 | None;  Kim & Lee, 2015 | 0 | N | N | Y | Y | Y | Y | Y | Y | Y | 5 |
| 55 | None;  Kwag et al., 2011 | 0 | N | N | Y | Y | N | Y | N | Y | Y | 3.67 |
| 56 | La Gory et al., 1992 | 0 | N | N | Y | Y | N | N | N | N | Y | 3 |
| 57 | None;  Leggett et al., 2012 | 0 | Y | N | N (omission of 1 item from the scale) | Y | N | N | Y | Y | Y | 3.67 |
| 58 | None;  Li et al., 2011 | 0 | Y | N | Y | Y | Y | Y | Y | Y | Y | 6 |
| 59 | None;  Lim et al., 2012 | 1 | N | N | Y | Y | Y | Y/N (may not be as critical as investigating associations across time; report as 0.5) | Y | Y | Y | 5.83 |
| 60 | None;  Mamplekou et al., 2010 | 0 | N | Y | Y | Y | Y | N | Y | Y | Y | 5.67 |
| 61 | None;  Menec et al., 2010 | 0 | N | Y | Y | Y | N | Y | Y | N | Y | 4.67 |
| 62 | None;  Murayama, Nofuji et al., 2015 | 0 | N | Y | Y | Y | Y | Y | Y | Y | Y | 6 |
| 63 | None;  Norstrand et al., 2012  From the Public Health Management Corporation’s Community Health Data Base | 0 | N | N | Y | Y | Y | Y | Y | Y | Y | 5 |
| 64 | None;  Okwumabua et al., 1997 | 0 | Y | Y | Y | N | N | Y | Y | N | Y | 4.67 |
| 65 | None;  Roh et al., 2011 | 0 | N | N | Y | Y | N | Y | Y | Y | Y | 4 |
| 66 | None;  Schieman & Meersman, 2004 | 0 | Y | Y | N | Y | N | N | N | Y | Y | 4.33 |
| 67 | None;  Schulman et al., 2002 | 0 | Y | N (data from clinical records; no participant recruitment) | Y | Y | N | Y | Y | Y | Y | 5 |
| 68 | None;  Sengupta & Benjamin, 2015 | 0 | N | N | Y | Y | N | Y | Y | Y | Y | 4 |
| 69 | None;  Su et al., 2012 | 0 | Y | Y | Y | N | N | N | Y | N | Y | 4.33 |
| 70 | None;  Tanaka et al., 2016 | 0 | N | N | Y | N | Y | N | Y | Y | Y | 3.67 |
| 71 | None;  Wee et al., 2014 | 0 | Y | N | Y | Y | N | Y | Y | Y | Y | 5 |
| 72 | None;  Wilcox et al., 2003 | 0 | N | N | Y | N | N | Y | Y | Y | Y | 3 |
| 73 | None;  Yen et al., 2008  check sample with other Taiwan papers | 0 | Y | Y | Y | Y | N | Y | Y | N | Y | 5.67 |