**Supplementary Table 2: Quality assessment of included studies.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **First Author**  **Year** | **Model No.**  **(Results No)** | **Sample Size** | **Age** | **Reserve Factor** | **Cognitive Tests** | **Statistical Analysis** | **Overall Quality Rating trends to:** |
| Alexander et al.  1997 | 5  8 | L  L | M  M | L  L | L  L | H  H | L(8)  L(8) |
| Borroni et al.  2009 | 1  2  3  4 | M  M  M  M | M  M  M  M | M  M  M  M | L  L  L  L | M  M  M  M | M (9)  M (9)  M (9)  M (9) |
| Christensen et al.  2007 | 1   * Res1 * Res2   2   * Res1 * Res2 | H  H  H  H | L  L  L  L | M  M  M  M | M  M  M  M | H  M  H  H | M(11)  M(10)  M(11)  M(11) |
| Dumurgier et al.  2010 | 1  2  3  4  5  6  7   * Res1 * Res2 * Res3   8  9 | M  M  M  M  M  M  L  L  L  L  L | M  M  M  M  M  M  M  M  M  M  M | M  M  M  M  M  M  M  M  M  M  M | L  L  L  L  L  L  L  L  L  L  L | H  H  H  H  H  H  H  H  H  M  M | M(10)  M(10)  M(10)  M(10)  M(10)  M(10)  M(9)  M(9)  M(9)  L(8)  L(8) |
| Murray et al.  2011 | 1   * Res1 * Res2   2   * Res1 * Res2 | H  H  H  H | H  H  H  H | M  M  M  M | H  H  H  H | H  H  H  H | H(14)  H(14)  H(14)  H(14) |
| Garibotto et al.  2012 | 1  2 | M  M | M  M | M  M | L  L | L  L | L(8)  L(8) |
| Garibotto et al.  2008 | 1  2  3  4  5  6  7  8  9 | H  H  H  H  H  H  H  H  H | L  L  L  L  L  L  L  L  L | M  M  M  M  M  M  M  M  M | L  L  L  H  H  H  H  H  H | H  H  H  H  H  H  M  M  M | M(10)  M(10)  M(10)  H(12)  H(12)  H(12)  M(11)  M(11)  M(11) |
| Staff et al.  2004 | 1  2  3  4  5  6  7  8 | M  M  M  M  M  M  M  M | H  H  H  H  H  H  H  H | M  M  M  M  M  M  M  M | H  H  H  H  H  H  H  H | H  H  H  H  H  H  H  H | H(13)  H(13)  H(13)  H(13)  H(13)  H(13)  H(13)  H(13) |
| Ewers et al.  2013 | 1  2  3  4 | M  M  M  M | M  M  M  M | L  L  L  L | L  L  L  L | H  H  H  M | M(9)  M(9)  M(9)  L(8) |
| Scarmeas et al.  2003 | 1  3  4 | L  L  L | M  M  M | L  H  H | L  L  L | M  M  M | L(7)  M(9)  M(9) |
| Kemppainen et al.  2008 | 1  2  3  4 | L  L  L  L | M  M  M  M | L  L  L  L | L  L  L  L | M  M  H  H | L(7)  L(7)  L(8)  L(8) |
| Perneczky et al.  2007 | 1 | L | M | M | L | H | M(9) |
| Perneczky et al.  2007 | 1 | L | M | M | L | H | M(9) |
| Perneczky et al.  2006 | 1 | M | M | M | L | H | M (10) |
| Reed et al.  2011 | 1   * Res1 * Res2 * Res3 * Res4 | H  H  H  H | M  M  M  M | H  L  M  M | L  L  L  L | H  H  H  H | H (12)  M (10)  M (11)  M (11) |
| Roe et al.  2008 | 1  2  3  4  5  6  7  8  9 | H  H  H  H  H  H  H  H  H | M  M  M  M  M  M  M  M  M | L  L  L  L  L  L  L  L  L | L  L  L  L  L  L  L  L  L | M  M  M  H  H  M  H  H  H | M (9)  M (9)  M (9)  M (10)  M (10)  M (9)  M (10)  M (10)  M (10) |
| Schweizer et al.  2012 | 1  2  3  4  5 | L  L  L  L  L | M  M  M  M  M | M  M  M  M  M | L  L  L  L  L | H  H  H  H  H | M (9)  M (9)  M (9)  M (9)  M (9) |
| Spreng et al.  2011 | 1  2  3 | L  L  L | L  L  L | M  M  M | L  L  L | M  M  M | L (7)  L (7)  L (7) |
| Teipela et al.  2009 | 1  2  3 | L  L  L | M  M  M | M  M  M | L  L  L | M  M  M | L (8)  L (8)  L (8) |
| Stern et al.  1995 | 1   * Sig. * N.Sig   2   * N.Sig   3   * Sig * N.Sig   4   * Sig * N.Sig   5   * Sig. * N.Sig   6  7 | M  M  M  M  M  M  M  M  M  M  M | M  M  M  M  M  M  M  M  M  M  M | H  H  H  H  H  H  H  H  H  H  H | L  L  L  L  L  L  L  L  L  L  L | H  L  L  H  L  H  L  H  M  M  M | M (11)  M (9)  M (9)  M (11)  M (9)  M (11)  M (9)  M (11)  M (10)  M (10)  M (10) |
| Christensen et al.  2009 | 1  2  3  4  5  6 | H  H  H  H  H  H | L  L  L  L  L  L | M  M  M  M  M  M | H  H  H  H  H  H | H  H  H  H  H  H | H (12)  H (12)  H (12)  H (12)  H (12)  H (12) |
| Lane et al.  2011 | 1 | L | H | L | L | H | M (9) |
| Negash et al.  2013 | 1  2 | M  M | M  M | L  L | L  L | H  M | M (9)  L (8) |
| Terracciano et al.  2013 | 1  2 | M  M | M  M | M  M | L  L | H  H | M (10)  M (10) |
| Roe et al.  2007 | 1  2  3 | H  H  H | H  H  H | L  L  L | L  L  L | H  H  H | M (11)  M (11)  M (11) |
| Dufouil et al.  2003 | 1  2  3  4  5  6  7  8  9  10  11  12 | H  H  H  H  H  H  H  H  H  H  H  H | M  M  M  M  M  M  M  M  M  M  M  M | L  L  L  L  L  L  L  L  L  L  L  L | L  L  L  L  L  L  L  L  L  L  L  L | H  M  H  H  H  H  H  H  H  H  H  H | M (10)  M (9)  M (10)  M (10)  M (10)  M (10)  M (10)  M (10)  M (10)  M (10)  M (10)  M (10) |
| Bennett et al.  2003 | 1  2  3  4  5  6  7  8  9  10  11  12  13  14 | H  H  H  H  H  H  H  H  H  H  H  H  H  H | M  M  M  M  M  M  M  M  M  M  M  M  M  M | L  L  L  L  L  L  L  L  L  L  L  L  L  L | L  L  L  L  L  L  L  L  L  L  L  L  L  L | H  H  H  H  H  H  H  H  H  M  M  L  L  M | M (10)  M (10)  M (10)  M (10)  M (10)  M (10)  M (10)  M (10)  M (10)  M (9)  M (9)  L (8)  L (8)  M (9) |
| Bennett et al.  2005 | 1  2 | H  H | M  M | L  L | L  L | H  H | M (10)  M (10) |
| Koepsell et al.  2008 | 1  2 | H  H | M  M | M  M | L  L | H  H | M (11)  M (11) |
| Brayne et al.  2010 | 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17 | H  H  H  H  H  H  H  H  H  H  H  H  H  H  H  H  H | H  H  H  H  H  H  H  H  H  H  H  H  H  H  H  H  H | L  L  L  L  L  L  L  L  L  L  L  L  L  L  L  L  L | L  L  L  L  L  L  L  L  L  L  L  L  L  L  L  L  L | H  H  H  H  H  H  H  H  H  H  H  H  H  H  H  H  H | M (11)  M (11)  M (11)  M (11)  M (11)  M (11)  M (11)  M (11)  M (11)  M (11)  M (11)  M (11)  M (11)  M (11)  M (11)  M (11)  M (11) |
| Roe et al.  2008 | 1  2  3  4  5  6  7  8 | H  H  H  H  H  H  H  H | H  H  H  H  H  H  H  H | M  M  M  M  M  M  M  M | L  L  L  L  L  L  L  L | H  H  M  H  H  H  H  H | H (12)  H (12)  M (11)  H (12)  H (12)  H (12)  H (12)  H (12) |
| Roe et al.  2011 | 1  2  3  4  5 | H  H  H  H  H | M  M  M  M  M | L  L  L  L  L | H  H  H  H  H | H  H  M  H  H | H (12)  H (12)  M (11)  H (12)  H (12) |
| Yaffe et al.  2011 | 1  2  3  4 | H  H  H  H | H  H  H  H | M  M  M  M | H  H  H  H | H  M  M  H | H (14)  H (13)  H (13)  H (14) |
| Stern et al.  1992 | 1  2 | M  M | M  M | M  M | L  L | H  H | M (10)  M (10) |

H = “High”: 12-15 points overall across the five domains; M = “Moderate”: 9-11 points overall across the five domains; L = “Low": 5-8 points overall across the five domains. In brackets overall points for a model.