| **Author, Year** | **Randomization Adequate?** | **Allocation Concealment Adequate?** | **Groups**  **Similar at Baseline?** | **Eligibility Criteria Specified?** | **Outcome Assessors Masked?** | **Care Provider Masked?** | **Patient Masked?** | **Reporting of Attrition, Crossovers, Adherence, and Contamination** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Aloia et al, 2008174 | Yes | Yes | Unclear | Yes | Yes | Yes | Yes | Yes |
| Arvold et al, 2009170 | Unclear | Yes | Yes | Yes | Unclear | Yes | Yes | Yes |
| Berlin et al, 1986178 | No | No | Unclear | Yes | No | No | No | No |
| Bischoff et al, 2003165 | Unclear | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Brazier et al, 2005157 | Yes | Unclear | Yes | Yes | Unclear, described as double-blind | Unclear, described as double-blind | Unclear, described as double blind | Yes |
| Chapuy et al, 2002122 | Unclear | Unclear | Yes | Yes | Unclear | Yes | Yes | Yes |
| Gallagher et al, 2012156 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Gallagher et al, 2013160 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Gallagher et al, 2014159 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Grimnes et al, 2011158 | Unclear | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Harris et al, 1999176 | Unclear | Unclear | Yes | Yes | No | No | No | Yes |
| Honkanen et al, 1990128 | Unclear | Unclear | Yes | Yes | No | No | No | Yes |
| Janssen et al, 2010127 | Unclear | Yes | Yes (small difference in age) | Yes | Yes | Yes | Yes | Yes |
| Kärkkäinen et al, 2010153 Kärkkäinen et al, 2010166 | Unclear | Unclear | Yes | Yes | No | No | No | Yes |
| Kjaergaard et al, 2012171 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Krieg et al, 1999154 | Unclear | Unclear | Yes | Yes | No | No | No | Yes |
| Knutsen et al, 2014132 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Lehmann et al, 2013115 | Unclear | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Lips et al, 1996161 Ooms et al, 1995120 | Yes | Yes | Yes | Yes | Unclear | Yes | Yes | Yes |
| Lips et al, 2010155 | Unclear | Unclear | Yes | Yes | Yes | Yes | Unclear, described as double-blind | Yes |
| Martineau et al, 2007179 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Pfeifer et al, 2000162 | Unclear | Unclear | Yes | Yes | Unclear | Unclear | Unclear | Yes |
| Pfeifer et al, 2009163 | Unclear | Unclear | Yes | Yes | Unclear | Unclear | Unclear | Yes |
| Talwar et al, 2007177 Aloia et al, 2005175 | Yes | Unclear | Yes | Yes | Unclear | Yes | Yes | Yes |
| Wamberg et al, 2013125 Wamberg et al, 2013133 | Yes | Yes | yes | Yes | Yes | Yes | Yes | Yes |
| Womens’ Health Initiative Jackson et al, 2003146 Jackson et al, 2006164 Wactawski-Wende et al, 2006168 Chlebowski et al, 2008167 de Boer et al, 2008169 LaCroix et al, 2009152 | Yes | Yes | Yes | Yes | Yes | NR | Yes | Yes |
| Wood et al, 2012136 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| **Author, Year** | **Acceptable Attrition and Difference Between Groups?** | **People Analyzed in the Groups in Which They Were Randomized?** | **Post-Randomization Exclusions?** | **Outcomes Prespecified?** | **Fidelity to Intervention?** | **Quality Rating** | **External Validity\*** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Aloia et al, 2008174 | Yes | Yes | OK | Yes | Yes | Fair | 1. University hospital 2. None 3. 53% 4. Good |
| Arvold et al, 2009170 | No (differential) | Yes | OK | Yes | Yes | Fair | 1. Outpatient clinic 2. None 3. 16% 4. Fair, one clinic |
| Berlin et al, 1986178 | Unclear | Yes | Unclear | Yes | Yes: Levels | Poor | 1. University hospital 2. Unclear 3. NR 4. Unclear, not much reported about population |
| Bischoff et al, 2003165 | No (high) | Yes | OK | Yes | Yes: Levels | Fair | 1. Long-stay geriatric clinic 2. None 3. NR 4. Fair, elderly (age ≥60 years), institutionalized |
| Brazier et al, 2005157 | Yes | Yes | OK | Yes | Yes: Levels Compliance >90% | Fair | 1. 50 centers 2. None 3. Unclear 4. Fair, only women |
| Chapuy et al, 2002122 | Yes | Yes | OK | Yes | Yes: Levels Compliance 95% | Fair | 1. Homes for the elderly 2. None 3. NR 4. Fair, elderly (age ≥64 years), institutionalized |
| Gallagher et al, 2012156 | Yes | Yes | OK | Yes | Yes: Levels Compliance >90% | Good | 1. University medical center 2. None 3. 8% 4. Fair, only women |
| Gallagher et al, 2013160 | Yes | Yes | No | Yes | Yes | Fair\*\* | 1. University medical center 2. None 3. 36% 4. Fair, only women |
| Gallagher et al, 2014159 | No | Yes | No | Yes | Yes | Fair | 1. University medical center 2. None 3. 35%  4. Fair, only women |
| Grimnes et al, 2011158 | Yes | Yes | Yes | Unclear | Yes: Levels | Fair | 1. Community 2. None 3. 31% 4. Good |
| Harris et al, 1999176 | Yes | Yes | Some post-randomization exclusions | Unclear | Yes: Levels | Poor | 1. Tufts University 2. Unclear recruitment 3. NR 4. Unclear |
| Honkanen et al, 1990128 | Yes | Yes | Unclear | Yes | Yes: Levels | Fair | 1. City hospital 2. None 3. 62% 4. Fair, only women |
| Janssen et al, 2010127 | No | Yes | OK | Yes | Yes: Levels Compliance >90% | Fair | 1. Outpatient clinics 2. None 3. NR 4. Fair, elderly (age >65 years), institutionalized |
| Kärkkäinen et al, 2010153 Kärkkäinen et al, 2010166 | Yes | Yes | OK | Yes | Yes: Levels Compliance 79% | Fair | 1. Population-based 2. None 3. Unclear; reports numbers for subsample, not full screened group 4. Fair, only women |
| Kjaergaard et al, 2012171 | Yes | Yes | Yes (6 subjects) | Yes | Yes | Good | 1. Community 2. None 3. 18% 4. Good |
| Krieg et al, 1999154 | No (high) | Yes | OK | No | Yes: Levels | Fair | 1. Nursing homes 2. NR 3. NR 4. Fair, elderly (age ≥62 years), institutionalized |
| Knutsen et al, 2014132 | Yes | Yes | OK | Unclear; no specification whether AEs were prespecified outcome; no clear description of how outcome was collected | Yes: Pill count  Compliance 80% consumed ≥80% | Fair | 1. Immigrants’ activity centers  2. None  3. 83%  4. Fair, immigrants in Northern Europe |
| Lehmann et al, 2013115 | Yes | Yes | OK | Unclear | Yes: Levels | Fair | 1. Healthy community population 2. None 3. NR 4. Good |
| Lips et al, 1996161 Ooms et al, 1995120 | No (high) | Yes | Some post-randomization exclusions | Yes | Yes: Levels Compliance 85% | Fair | 1. Community 2. None 3. NR 4. Fair, elderly (age ≥70 years), institutionalized |
| Lips et al, 2010155 | Yes | Yes | Unclear | Yes | Yes: Levels Compliance 100% | Fair | 1. Medical centers and nursing homes 2. None 3. 38% 4. Fair, elderly (age ≥70 years) |
| Martineau et al, 2007179 | No (high) | Yes | Yes | Unclear (for AEs) | Yes: Levels | Fair | 1. TB contact clinics 2. Recruited from TB clinics 3. 53% 4. Poor, TB clinics |
| Pfeifer et al, 2000162 | Yes | Yes | OK | Yes | Yes: Levels | Fair | 1. Population-based 2. None 3. 90% 4. Fair, elderly (age ≥70 years) |
| Pfeifer et al, 2009163 | Yes | Yes | OK | Yes | Yes: Levels | Fair | 1. Population-based 2. None 3. NR 4. Fair, elderly (age ≥70 years) |
| Talwar et al, 2007177 Aloia et al, 2005175 | Yes | Yes | OK | Unclear (for AEs) | Yes: Levels Compliance ~87% | Fair | 1. Population-based 2. None 3. 54% 4. Fair, only women |
| Wamberg et al, 2013125 Wamberg et al, 2013133 | Yes | Yes | OK | Yes | Yes: Levels Compliance >90% | Fair | 1. University hospital 2. None 3. 59% 4. Good |
| Womens’ Health Initiative Jackson et al, 2003146 Jackson et al, 2006164 Wactawski-Wende et al, 2006168 Chlebowski et al, 2008167 de Boer et al, 2008169 LaCroix et al, 2009152 | Yes | Yes | OK | Yes | No | Fair | 1. Population-based 2. None 3. Case-control studies of subsamples of WHI trial 4. Fair, only women |
| Wood et al, 2012136 | Yes | Yes | OK | Unclear (for AEs) | Yes: Levels Compliance >90% | Fair | 1. Community 2. None 3. 72% 4. Good |

**\*** 1 = Setting; 2 = Unusual techniques used to recruit; 3 = Proportion of screened actually enrolled; 4 = Applicability to a screened population.

\*\* Protocol for recruitment into trial arms was changed post hoc during the study.

**Abbreviations:** AE = adverse event; NR = not reported; TB = tuberculosis.