Table H-3. Strength of evidence for key outcomes in case management for patients with dementia

| **Outcome, Number of Studies** | **Quality**  **(Good, Fair or Poor)** | **Consistency**  **(Consistent or Inconsistent)** | **Directness**  **(Direct or Indirect)** | **Precision**  **(Precise or Imprecise)** | **Number of Subjects** | **Summary of Findings** | **Strength of Evidence** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Mortality**  10 trials  Callahan 200617  Chien 200818  Chu 200020  Eggert 199124  Eloniemi-Sulkava 200126  Eloniemi-Sulkava 200927  Jansen 201144  Miller 199976  Mittelman 200665  Vickrey 2006107  2 observational studies  Challis 2002117  Specht 2009151 | Good | Consistent | Direct | Precise | 12,852 | Patients with dementia who receive services from CM programs do not have lower mortality rates | High |
| **Nursing home placement rates**  8 trials  Callahan 200617  Chu 200020  Eggert 199124  Eloniemi-Sulkava 200126  Eloniemi-Sulkava 200927  Mittelman 200665  Mittelman 200869 Newcomer 1999a73  1 observational study  Challis 2002117 | Fair | Inconsistent | Direct | Precise | 9,534 | No delay in NH placement at 24 months | Moderate |
| **Caregiver burden**  8 trials  Callahan 200617  Chien 200818  Chu 200020  Jansen 201144  Lam 201049  Mittelman 200665  Newcomer 1999a73  Vickrey 2006107  2 observational studies  Challis 2002117  Specht 2009151 | Fair | Consistent | Direct | Precise | 9,421 | Reduction in CG burden at 12 months | Moderate |
| **Caregiver depression**  3 trials  Callahan 200617  Mittelman 200665 Mittelman 200869 | Good | Inconsistent | Direct | Precise | 3,321 | Reduction of CG depression at 2 years | Moderate |
| **Guideline adherence**  1 trial  Vickrey 2006107 | Fair | Consistent | Direct | Imprecise | 354 | Case management programs that focus on clinical guideline measures for care of dementia increase adherence to those measures | Low |
| **Hospitalizations/ ED visits**  2 trials  Callahan 200617  Chien 200818  Clark 200422  1 observational study  Challis 2002117 | Good | Inconsistent | Direct | Imprecise | 347 | No change in hospitalization rates at 12 mo. | Insufficient |
| **Health care expenditures**  5 trials  Eggert 199124  Eloniemi-Sulkava 200927  Mittelman 200665  Newcomer 1999a73  Vickrey 2006107  1 observational study  Challis 2002117 | Good | Consistent | Direct | Imprecise | 6,798 | Case management does not reduce health care expenditures for patients with dementia. | Moderate |
| **Intervention characteristics**  1 trial  Mittelman 200665 | Fair | Consistent | Direct | Imprecise | 406 | Case management programs that serve patients with dementia who have in-home spouse caregivers and continue services for longer than two years are more effective for delaying nursing home placement than programs providing services for 2 years or less. | Low |
| **Outpatient visits**  3 trials  Callahan 200617  Clark 200422  Jansen 201144  1 observational study  Challis 2002117 | Good | Inconsistent | Direct | Imprecise | 358 | CM does not change the use of physician visits for patients with dementia. | Insufficient |