**Supplemental Appendix S1 – PRISMA Checklist**

|  |  |  |  |
| --- | --- | --- | --- |
| **Section/topic**  | **#** | **Checklist item**  | **Reported on page #**  |
| **TITLE**  |  |
| Title  | 1 | Identify the report as a systematic review, meta-analysis, or both.  | 1 |
| **ABSTRACT**  |  |
| Structured summary  | 2 | Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number.  | 5 |
| **INTRODUCTION**  |  |
| Rationale  | 3 | Describe the rationale for the review in the context of what is already known.  | 7-8 |
| Objectives  | 4 | Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).  | 7-8 |
| **METHODS**  |  |
| Protocol and registration  | 5 | Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number.  | n/a |
| Eligibility criteria  | 6 | Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.  | 9-10 |
| Information sources  | 7 | Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.  | 9 |
| Search  | 8 | Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.  | Appendix 1 |
| Study selection  | 9 | State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).  | 10 |
| Data collection process  | 10 | Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.  | 10-11 |
| Data items  | 11 | List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.  | 10-11 |
| Risk of bias in individual studies  | 12 | Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.  | 11 |
| Summary measures  | 13 | State the principal summary measures (e.g., risk ratio, difference in means).  | n/a |
| Synthesis of results  | 14 | Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., I2) for each meta-analysis.  | n/a |

|  |  |  |  |
| --- | --- | --- | --- |
| **Section/topic**  | **#** | **Checklist item**  | **Reported on page #**  |
| Risk of bias across studies  | 15 | Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies).  | 11 |
| Additional analyses  | 16 | Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified.  | n/a |
| **RESULTS**  |  |
| Study selection  | 17 | Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram.  | Figure 113 |
| Study characteristics  | 18 | For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.  | Table 2 |
| Risk of bias within studies  | 19 | Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12).  | Table 113 |
| Results of individual studies  | 20 | For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot.  | 14-15 |
| Synthesis of results  | 21 | Present results of each meta-analysis done, including confidence intervals and measures of consistency.  | n/a |
| Risk of bias across studies  | 22 | Present results of any assessment of risk of bias across studies (see Item 15).  | Table 1 |
| Additional analysis  | 23 | Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]).  | n/a |
| **DISCUSSION**  |  |
| Summary of evidence  | 24 | Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy makers).  | 16 |
| Limitations  | 25 | Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of identified research, reporting bias).  | 18 |
| Conclusions  | 26 | Provide a general interpretation of the results in the context of other evidence, and implications for future research.  | 19-20 |
| **FUNDING**  |  |
| Funding  | 27 | Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review.  | 2 |

**Supplemental Appendix 2: Search Strategy**

**MEDLINE (PubMed)**

July 3, 2018

|  |  |  |
| --- | --- | --- |
| Search | Query | Items found |
| [#7](https://www-ncbi-nlm-nih-gov.dartmouth.idm.oclc.org/pubmed/advanced) | Search (#3 OR #4) Filters: Publication date from 2012/01/01; English | [2679](https://www-ncbi-nlm-nih-gov.dartmouth.idm.oclc.org/pubmed/?cmd=HistorySearch&querykey=7) |
| [#6](https://www-ncbi-nlm-nih-gov.dartmouth.idm.oclc.org/pubmed/advanced) | Search (#3 OR #4) Filters: Publication date from 2012/01/01 | [2764](https://www-ncbi-nlm-nih-gov.dartmouth.idm.oclc.org/pubmed/?cmd=HistorySearch&querykey=6) |
| [#5](https://www-ncbi-nlm-nih-gov.dartmouth.idm.oclc.org/pubmed/advanced) | Search (#3 OR #4) | [4878](https://www-ncbi-nlm-nih-gov.dartmouth.idm.oclc.org/pubmed/?cmd=HistorySearch&querykey=5) |
| [#4](https://www-ncbi-nlm-nih-gov.dartmouth.idm.oclc.org/pubmed/advanced) | Search Telegeriatric\*[tiab] | [13](https://www-ncbi-nlm-nih-gov.dartmouth.idm.oclc.org/pubmed/?cmd=HistorySearch&querykey=4) |
| [#3](https://www-ncbi-nlm-nih-gov.dartmouth.idm.oclc.org/pubmed/advanced) | Search (#1 AND #2) | [4873](https://www-ncbi-nlm-nih-gov.dartmouth.idm.oclc.org/pubmed/?cmd=HistorySearch&querykey=3) |
| [#2](https://www-ncbi-nlm-nih-gov.dartmouth.idm.oclc.org/pubmed/advanced) | Search (((Aged[Mesh] OR Health Services for the Aged[Mesh] OR Geriatrics[Mesh] OR Medicare[Mesh] OR Geriatric Psychiatry[Mesh] OR Geriatric Nursing[Mesh])) OR (elder\* [tiab] OR geriatric\*[tiab] OR medicare[tiab] OR advanced age[tiab] OR advancing age[tiab] OR 65 year[tiab] OR 65 years[tiab] OR seniors[tiab] OR senior citizen\*[tiab] OR aged 65[tiab] OR age 65[tiab] OR ages 65[tiab] OR 65 and over[tiab] OR older[tiab] OR old age[tiab])) | [3149060](https://www-ncbi-nlm-nih-gov.dartmouth.idm.oclc.org/pubmed/?cmd=HistorySearch&querykey=2) |
| [#1](https://www-ncbi-nlm-nih-gov.dartmouth.idm.oclc.org/pubmed/advanced) | Search (("telemedicine"[MeSH Terms] OR Telemedicine[tiab] OR Remote video\*[tiab] OR Video conferenc\*[tiab] OR Videoconferenc\*[tiab] OR Video chat[tiab] OR Video visit\*[tiab] OR Video telephon\*[tiab] OR videotelephon\*[tiab] OR Video phon\*[tiab] OR videophon\*[tiab] OR Video consultation[tiab] OR Videoconsultation[tiab] OR Telepsychiatr\*[tiab] OR Telepsycholog\*[tiab] OR Telebehavioural[tiab] OR Telebehavioral[tiab] OR Tele-behavioural[tiab] OR Tele-behavioral[tiab] OR Teleconsultation\*[tiab] OR telenurs\*[tiab] OR Telerehabilitation[tiab] OR Telerehab[tiab] OR Telestroke[tiab] OR Remote consultation\*[tiab] OR Distance counseling[tiab] OR telecoach\*[tiab] OR tele-coach\*[tiab] OR Virtual provider\*[tiab] OR Virtual appointment\*[tiab] OR Virtual consult\*[tiab] OR Virtual visit\*[tiab] OR Skype[tiab] OR Facetime[tiab] OR ((Telecare[tiab] OR Telehealthcare[tiab] OR Telehealth[tiab] OR Tele-health[tiab] OR Mobile health[tiab] OR mHealth[tiab] OR eHealth[tiab] OR E-health[tiab] OR Econsult\*[tiab] OR e-consult\*[tiab]) AND video[tiab]))) | [28327](https://www-ncbi-nlm-nih-gov.dartmouth.idm.oclc.org/pubmed/?cmd=HistorySearch&querykey=1) |

**Web of Science**

July 3, 2018

|  |  |  |
| --- | --- | --- |
| **Set** | **Results** |  |
| # 6 | [**1,027**](http://apps.webofknowledge.com.dartmouth.idm.oclc.org/summary.do?product=WOS&doc=1&qid=16&SID=7F9eY1uNi3NV2ngsAse&search_mode=AdvancedSearch&update_back2search_link_param=yes) | (#4 OR #3) *AND* **LANGUAGE:** (English)*Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=2012-2018* |
| # 5 | [**1,778**](http://apps.webofknowledge.com.dartmouth.idm.oclc.org/summary.do?product=WOS&doc=1&qid=12&SID=7F9eY1uNi3NV2ngsAse&search_mode=AdvancedSearch&update_back2search_link_param=yes) | #4 OR #3*Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years* |
| # 4 | [**19**](http://apps.webofknowledge.com.dartmouth.idm.oclc.org/summary.do?product=WOS&doc=1&qid=6&SID=7F9eY1uNi3NV2ngsAse&search_mode=GeneralSearch&update_back2search_link_param=yes) | **TOPIC:** (Telegeriatric\*)*Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years* |
| # 3 | [**1,770**](http://apps.webofknowledge.com.dartmouth.idm.oclc.org/summary.do?product=WOS&doc=1&qid=5&SID=7F9eY1uNi3NV2ngsAse&search_mode=CombineSearches&update_back2search_link_param=yes) | #2 AND #1*Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years* |
| # 2 | [**1,629,411**](http://apps.webofknowledge.com.dartmouth.idm.oclc.org/summary.do?product=WOS&doc=1&qid=4&SID=7F9eY1uNi3NV2ngsAse&search_mode=GeneralSearch&update_back2search_link_param=yes) | **TOPIC:** (elder\* OR geriatric\* OR medicare OR “advanced age” OR “advancing age” OR “65 year” OR “65 years” OR seniors OR “senior citizen\*” OR “aged 65” OR “age 65” OR “ages 65” OR “65 and over” OR older OR “old age”)*Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years* |
| # 1 | [**26,267**](http://apps.webofknowledge.com.dartmouth.idm.oclc.org/summary.do?product=WOS&doc=1&qid=1&SID=7F9eY1uNi3NV2ngsAse&search_mode=GeneralSearch&update_back2search_link_param=yes) | **TOPIC:** (Telemedicine OR “Remote video\*” OR “Video chat” OR “Video conferenc\*” OR Videoconferenc\* OR “Video visit\*” OR “Video telephon\*” OR videotelephon\* OR “Video phon\*” OR Videophon\* OR “Video consultation” OR Videoconsultation OR Telepsychiatr\* OR Telepsycholog\* OR Telebehavioural OR Telebehavioral OR Tele-behavioural OR Tele-behavioral OR Teleconsultation\* OR Telenurs\* OR Telerehabilitation OR Telerehab OR Telestroke OR “Remote consultation\*” OR “Distance counseling” OR Telecoach\* OR Tele-coach\* OR “Virtual provider\*” OR “Virtual appointment\*” OR “Virtual consult\*” OR “Virtual visit\*” OR Facetime OR Skype OR ((Telecare OR Telehealthcare OR Telehealth OR Tele-health OR “Mobile health” OR mHealth OR eHealth OR E-health OR Econsult\* OR e-consult\*) AND video\*))*Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI Timespan=All years* |

**Cochrane (Wiley)**

July 3, 2018

|  |  |  |
| --- | --- | --- |
| ID | Search | Hits |
| #1 | Telemedicine or "Remote video\*" or "Video chat" or "Video conferenc\*" or Videoconferenc\* or "Video visit\*" or "Video telephon\*" or videotelephon\* or "Video phon\*" or Videophon\* or "Video consultation" or Videoconsultation or Telepsychiatr\* or Telepsycholog\* or Telebehavioural or Telebehavioral or Tele-behavioural or Tele-behavioral or Teleconsultation\* or Telenurs\* or Telerehabilitation or Telerehab or Telestroke or "Remote consultation\*" or "Distance counseling" or Telecoach\* or Tele-coach\* or "Virtual provider\*" or "Virtual appointment\*" or "Virtual consult\*" or "Virtual visit\*" or Facetime or Skype or ((Telecare or Telehealthcare or Telehealth or Tele-health or "Mobile health" or mHealth or eHealth or E-health or Econsult\* or e-consult\*) and video\*):ti,ab,kw  (Word variations have been searched) | 4321 |
| #2 | elder\* or geriatric\* or medicare or "advanced age" or "advancing age" or "65 year" or "65 years" or seniors or "senior citizen\*" or "aged 65" or "age 65" or "ages 65" or "65 and over" or older or "old age":ti,ab,kw  (Word variations have been searched) | 92638 |
| #3 | #1 and #2 | 481 |
| #4 | Telegeriatric\*:ti,ab,kw  (Word variations have been searched) | 2 |
| #5 | #3 or #4 Publication Year from 2012 to 2018 |   |

**PsycINFO (Ebsco)**

July 3, 2018

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Query** | **Limiters/Expanders** | **Results** |
| S6 | S3 OR S4 | Limiters - Publication Year: 2012-; EnglishSearch modes - Find all my search terms | 960 |
| S5 | S3 OR S4 | Search modes - Find all my search terms | 1,571 |
| S4 | TI Telegeriatric\* OR AB Telegeriatric\* | Search modes - Find all my search terms | 1 |
| S3 | S1 AND S2 | Search modes - Find all my search terms | 1,571 |
| S2 | ( DE "Aging" OR AG aged OR AG very old DE "Medicare" OR DE "Geriatrics" OR DE "Geriatric Patients" OR DE "Geropsychology" OR DE "Gerontological Counseling" OR DE "Geriatric Psychotherapy" ) OR TI ( elder\* OR geriatric\* OR medicare OR "advanced age" OR "advancing age" OR "65 year" OR "65 years" OR seniors OR "senior citizen\*" OR "aged 65" OR "age 65" OR "ages 65" OR "65 and over" OR older OR "old age" ) OR AB ( elder\* OR geriatric\* OR medicare OR "advanced age" OR "advancing age" OR "65 year" OR "65 years" OR seniors OR "senior citizen\*" OR "aged 65" OR "age 65" OR "ages 65" OR "65 and over" OR older OR "old age" ) | Search modes - Find all my search terms | 427,696 |
| S1 | ( DE "Telemedicine" OR DE "Online Therapy" ) OR TI ( Telemedicine OR “Remote video\*” OR “Video chat” OR “Video conferenc\*” OR Videoconferenc\* OR “Video visit\*” OR “Virtual visit\*” OR “Video telephon\*” OR videotelephon\* OR “Video phon\*” OR Videophon\* OR “Video consultation” OR Videoconsultation OR Telepsychiatr\* OR Telepsycholog\* OR Telebehavioural OR Telebehavioral OR Tele-behavioural OR Tele-behavioral OR Teleconsultation\* OR Telenurs\* OR Telerehabilitation OR Telerehab OR Telestroke OR “Remote consultation\*” OR “Distance counseling” OR Telecoach\* OR Tele-coach\* OR “Virtual provider\*” OR “Virtual appointment\*” OR “Virtual consult\*” OR Facetime OR Skype OR ((Telecare OR Telehealthcare OR Telehealth OR Tele-health OR “Mobile health” OR mHealth OR eHealth OR E-health OR Econsult\* OR e-consult\*) AND video\*)) ) OR AB ( Telemedicine OR “Remote video\*” OR “Video chat” OR “Video conferenc\*” OR Videoconferenc\* OR “Video visit\*” OR “Virtual visit\*” OR “Video telephon\*” OR videotelephon\* OR “Video phon\*” OR Videophon\* OR “Video consultation” OR Videoconsultation OR Telepsychiatr\* OR Telepsycholog\* OR Telebehavioural OR Telebehavioral OR Tele-behavioural OR Tele-behavioral OR Teleconsultation\* OR Telenurs\* OR Telerehabilitation OR Telerehab OR Telestroke OR “Remote consultation\*” OR “Distance counseling” OR Telecoach\* OR Tele-coach\* OR “Virtual provider\*” OR “Virtual appointment\*” OR “Virtual consult\*” OR Facetime OR Skype OR ((Telecare OR Telehealthcare OR Telehealth OR Tele-health OR “Mobile health” OR mHealth OR eHealth OR E-health OR Econsult\* OR e-consult\*) AND video\*)) ) | Search modes - Find all my search terms |  |

**CINAHL (EBSCO)**

July 3, 2018

|  |  |  |  |
| --- | --- | --- | --- |
| # | Query | Limiters/Expanders | Results |
| S6 | S3 OR S4 | Limiters - Published Date: 20120101-; English Language Search modes - Find all my search terms | 615 |
| S5 | S3 OR S4 | Search modes - Find all my search terms | 1,329 |
| S4 | Telegeriatric\* | Search modes - Find all my search terms | 4 |
| S3 | S1 AND S2 | Search modes - Find all my search terms | 1,327 |
| S2 | ( MH "Aged+" OR MH "Health Services for the Aged" OR MH "Geriatrics" OR MH "Medicare" OR MH "Geriatric Psychiatry" OR MH "Gerontologic Nursing+" ) OR TI ( elder\* OR geriatric\* OR medicare OR “advanced age” OR “advancing age” OR “65 year” OR “65 years” OR seniors OR “senior citizen\*” OR “aged 65” OR “age 65” OR “ages 65” OR “65 and over” OR older OR “old age” ) OR AB ( elder\* OR geriatric\* OR medicare OR “advanced age” OR “advancing age” OR “65 year” OR “65 years” OR seniors OR “senior citizen\*” OR “aged 65” OR “age 65” OR “ages 65” OR “65 and over” OR older OR “old age” ) | Search modes - Find all my search terms | 523,976 |
| S1 | ( MH "Telemedicine+" OR MH "Telenursing" OR MH "Telepsychiatry" ) OR TI ( Telemedicine OR “Remote video\*” OR “Video chat” OR “Video conferenc\*” OR Videoconferenc\* OR “Video visit\*” OR “Video telephon\*” OR videotelephon\* OR “Video phon\*” OR Videophon\* OR “Video consultation” OR Videoconsultation OR Telepsychiatr\* OR Telepsycholog\* OR Telebehavioural OR Telebehavioral OR Tele-behavioural OR Tele-behavioral OR Teleconsultation\* OR Telenurs\* OR Telerehabilitation OR Telerehab OR Telestroke OR “Remote consultation\*” OR “Distance counseling” OR Telecoach\* OR Tele-coach\* OR “Virtual provider\*” OR “Virtual appointment\*” OR “Virtual consult\*” OR “Virtual visit\*” OR Facetime OR Skype OR ((Telecare OR Telehealthcare OR Telehealth OR Tele-health OR “Mobile health” OR mHealth OR eHealth OR E-health OR Econsult\* OR e-consult\*) AND video\*) ) OR AB ( Telemedicine OR “Remote video\*” OR “Video chat” OR “Video conferenc\*” OR Videoconferenc\* OR “Video visit\*” OR “Video telephon\*” OR videotelephon\* OR “Video phon\*” OR Videophon\* OR “Video consultation” OR Videoconsultation OR Telepsychiatr\* OR Telepsycholog\* OR Telebehavioural OR Telebehavioral OR Tele-behavioural OR Tele-behavioral OR Teleconsultation\* OR Telenurs\* OR Telerehabilitation OR Telerehab OR Telestroke OR “Remote consultation\*” OR “Distance counseling” OR Telecoach\* OR Tele-coach\* OR “Virtual provider\*” OR “Virtual appointment\*” OR “Virtual consult\*” OR “Virtual visit\*” OR Facetime OR Skype OR ((Telecare OR Telehealthcare OR Telehealth OR Tele-health OR “Mobile health” OR mHealth OR eHealth OR E-health OR Econsult\* OR e-consult\*) AND video\*) ) | Search modes - Find all my search terms | 8,521 |

**Embase (Ovid)**

July 3, 2018

Embase <1988 to 2018 Week 27>

|  |  |  |
| --- | --- | --- |
| # | Searches | Results |
| 1 | exp telemedicine/ | 31466 |
| 2 | telegeriatric\*.mp. | 16 |
| 3 | (tele adj geriatric\*).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word] | 2 |
| 4 | 2 or 3 | 17 |
| 5 | limit 1 to aged <65+ years> | 3999 |
| 6 | (Telemedicine or Remote video\* or Video conferenc\* or Videoconferenc\* or Video visit\* or Virtual visit\* or Video telephon\*OR videotelephon\* or Video phon\* or videophon\* or Video consultation or Videoconsult\* or telepsychiatr\* or telepsycholog\* or telebehavioural or telebehavioral or tele-behavioural or tele-behavioral).mp. | 26516 |
| 7 | (Teleconsultation\* or telenurs\* or Telerehabilitation or Remote consultation\* or Distance counseling or telecoach or tele-coach or Virtual provider or Virtual appointment or ((Telecare or Telehealthcare or Telehealth or Tele-health or Mobile health or mHealth or eHealth or E-health or Econsult\* or e-consult\*) and video\*)).mp. | 11206 |
| 8 | (tele adj (rehab\* or stroke\*)).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word] | 214 |
| 9 | telestroke\*.mp. | 700 |
| 10 | or/6-9 | 34177 |
| 11 | ((skype or virtual) and (consult\* or appointment\* or conversation\*)).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word] | 1551 |
| 12 | 10 or 11 | 35311 |
| 13 | aged/ or exp elderly care/ or exp geriatrics/ or medicare/ or exp geriatric nursing/ | 2546101 |
| 14 | (elder\* or geriatric\* or medicare or advanced age or advancing age or 65 year or 65 years or seniors or senior citizen\* or aged 65 or age 65 or ages 65 or "65 and over" or older or old age).mp. | 1022968 |
| 15 | limit 12 to aged <65+ years> | 4308 |
| 16 | 12 and (13 or 14) | 5821 |
| 17 | 5 or 15 or 16 | 6274 |
| 18 | limit 17 to yr="2012 -Current" | 3861 |
| 19 | limit 18 to english language | 3772 |
| 20 | 19 not case report/ | 3677 |

Note: after removing duplicate records the total results = 3549

**Supplemental Appendix 3**

|  |  |  |  |
| --- | --- | --- | --- |
| **Study****Year** | **Country** | **Funding** | **Study Limitations** |
| Burns502017 | Australia | Asset Strategic Plan – Central Integrated Regional Cancer Services  | Varying levels of experience and expertise among regional speech pathologists may have affected service outcomes |
| Burton752018 | Canada | Alzheimer Society of Canada | Small sample size; high dropout and low completion rates in intervention group  |
| Comin-Colet512016 | USA | Telefonica Soluciones S.A. and IMIM | Possibly limited study duration, staff bias due to open-label intervention style  |
| De Luca712015 | Italy | Not specified | Unspecified study duration  |
| Dichmann Sorknaes452013 | Denmark  | European Commission, Danish Health Foundation, Danish Nurses’ Organization, University of Southern Denmark, OUH-Odense University Hospital, Svendborg Hospital  | Low intervention duration and generalizability  |
| Dy462013 | USA | NY State Dep of Health, Home & Rehabilitation Center, SUNY Upstate Medical University, Govsphere Inc, Learning Paradigm, LifeScan | Small sample size, low participant compliance  |
| Gandolfi762017 | Italy  | Grant of Ricerca Sanitaria Finalizzata Regionale 2010 | Lack of instrumental evaluations to assess balance, postural reactions, and muscle strength; findings cannot be generalized to PD patients with significant cognitive decline |
| Homma522016 | Japan | Ministry of Education, Culture, Sports, Science and Technology of Japan | Could not ensure comparability of groups’ IT literacy and serum cholesterol concentration |
| Hong772017 | South Korea | National Research Foundation of Korea  | Low sample size and intervention duration  |
| Hong622018 | South Korea | National Research Foundation of Korea | Significant drop-out rate (>20%), small sample size, limited follow-up duration  |
| Ishani642016 | USA | Center for Innovative Kidney Care | Both samples predominantly male; potentially underpowered sample sizes/large confidence intervals |
| Jelcic782014 | Italy | NR | Patient-limitations, staff issues and logistics of system are barriers |
| Orlandoni792016 | Italy | Not specified  | Limited sample size  |
| aTakahashi2012 | USA | Mayo Foundation Institutional Funds  | Possible confounding by unmeasured effects such as socioeconomic status, education, transportation, caregiver and/or social support; limited generalizability  |
| bTrief472013 | USA | Resource Center for Minority Aging Research, NIA/NIH, Northern Manhattan Center of Excellence in Minority Health& Health Disparities at Columbia University  | Primary outcome relies on a self-reported measure; racial/ethnic differences are confounded by urban/rural differences  |
| Tsai632017 | Australia | NSW Agency for Clinical Innovation (ACI), NSW, Australia, & South Eastern Local Health District Chronic Care Service Redesign Grant, NSW  | Low sample size and generalizability  |
| Vahia482015 | USA | John A. Hartford Foundation, UCSD Stein Institute for Research on Aging,NIH/NIMH  | Low sample size and generalizability  |

NIA – National Institute on Aging; NH – nursing home; NIH – National Institute of Health; NIMH – National Institute of Mental Health; NSW – New South Wales; SUNY – State University of New York;

aThis paper is a secondary analysis of a randomized controlled trial80

bThis paper is a secondary analysis of a previously published randomized controlled trial81

cTwo intervention groups participated in this trial