**Supplementary Table 2.** The search strategy and number of records retrieved in selected databases.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Concept** | **Home-based** | **Rehabilitation Therapy** | **Supervision/Monitoring** | **IT/ Telecommunications** |
| ***Main terms*** | ***Searched term*** | ***Main terms*** | ***Searched terms*** | ***Main terms*** | ***Searched terms*** | ***Main terms*** | ***Searched terms*** |
| **Keywords** | * home-based; home based; home-base; home base; at home
* home care
* in-home
 | home | * rehabilitation
* physical therapy
* physiotherapy
* exercise therapy
* physical activity
* kinesiotherapy
* exercise training
 | rehabilitationphysiotherapyexercise therapyphysical therapykinesiotherapyphysical activit\*exercise train\* | * supervise; supervised; supervision; supervising;
* remote supervision; remote supervising; distance supervising; distance supervision
* telesupervision; tele-supervision; telesupervising; tele-supervising
* monitoring;
* remote monitoring; distance monitoring
* telemonitoring; tele-monitoring
* telerehab; tele-rehab; telerehabilitation; tele-rehabilitation
 | supervis\*telesupervis\*tele supervis\*monitoringtelemonitoringtele monitoringtelerehabilitationtele rehabilitation | * system
* software
* apps
* application
* online
* on-line
* web base
* Internet
* mobile
* phone
* telephone
* cellphone
* smartphone
* tablet
* Personal Digital Assistant
 | system softwareappsapplicationonlineon-lineweb base\*Internetmobilephonetelephonecellphonesmartphonetabletpersonal digital assistant |
| **MeSH (2018) Terms** | Home Health Aides; Home Care Services; | Physical Therapy Modalities; Exercise Therapy; Rehabilitation; | Telerehabilitation; | Computer Systems; Software; Mobile Applications; Cell Phones; Smartphone; Telephone; Computers, Handheld; |
| **Emtree Terms** | home care; | home physiotherapy; home based exercise; home rehabilitation; rehabilitation; physiotherapy; kinesiotherapy; physical activity; exercise | monitoring; telemonitoring; telerehabilitation; supervision; supervised exercise program; supervised exercise; supervised exercise therapy; home monitoring; | computer system; software; mobile application; tablet machine; personal digital assistant; |
| **Search syntax in** | **#1** | **#2** | **#3** | **#4** |
| **Scopus** | TITLE-ABS-KEY (home)  | TITLE-ABS-KEY ( rehabilitation ) OR TITLE-ABS-KEY ( physiotherapy ) OR TITLE-ABS-KEY ( "exercise therapy" ) OR TITLE-ABS-KEY ( "physical therapy" ) OR TITLE-ABS-KEY ( kinesiotherapy ) OR TITLE-ABS-KEY ( "physical activit\*" ) OR TITLE-ABS-KEY ( "exercise train\*" )  | TITLE-ABS-KEY ( supervis\* ) OR TITLE-ABS-KEY ( telesupervis\* ) OR TITLE-ABS-KEY ( "tele supervis\*" ) OR TITLE-ABS-KEY ( monitoring ) OR TITLE-ABS-KEY ( telemonitoring ) OR TITLE-ABS-KEY ( "tele monitoring" ) OR TITLE-ABS-KEY ( telerehabilitation ) OR TITLE-ABS-KEY ( "tele rehabilitation" ) | TITLE-ABS-KEY ( system ) OR TITLE-ABS-KEY ( software ) OR TITLE-ABS-KEY ( apps ) OR TITLE-ABS-KEY ( application ) OR TITLE-ABS-KEY ( online ) OR TITLE-ABS-KEY ( on-line ) OR TITLE-ABS-KEY ( "web base\*" ) OR TITLE-ABS-KEY ( internet ) OR TITLE-ABS-KEY ( mobile ) OR TITLE-ABS-KEY ( phone ) OR TITLE-ABS-KEY ( telephone ) OR TITLE-ABS-KEY ( cellphone ) OR TITLE-ABS-KEY ( smartphone ) OR TITLE-ABS-KEY ( tablet ) OR TITLE-ABS-KEY ( personal AND digital AND assistant ) |
| **RESULT** | (#1) AND (#2) AND (#3) AND (#4) AND ( LIMIT-TO ( PUBYEAR , 2018 ) OR LIMIT-TO ( PUBYEAR , 2017 ) OR LIMIT-TO ( PUBYEAR , 2016 ) OR LIMIT-TO ( PUBYEAR , 2015 ) OR LIMIT-TO ( PUBYEAR , 2014 ) OR LIMIT-TO ( PUBYEAR , 2013 ) OR LIMIT-TO ( PUBYEAR , 2012 ) OR LIMIT-TO ( PUBYEAR , 2011 ) OR LIMIT-TO ( PUBYEAR , 2010 ) OR LIMIT-TO ( PUBYEAR , 2009 ) OR LIMIT-TO ( PUBYEAR , 2008 ) ) AND ( LIMIT-TO ( LANGUAGE , "English" ) ) AND ( LIMIT-TO ( DOCTYPE , "ar" ) OR LIMIT-TO ( DOCTYPE , "cp" ) OR LIMIT-TO ( DOCTYPE , "ip" ) ) **1,102 records** |
| **PubMed** | (((home[Title/Abstract]) OR Home Health Aides[MeSH Terms]) OR Home Care Services[MeSH Terms]) | ((((((((((rehabilitation[Title/Abstract]) OR physiotherapy[Title/Abstract]) OR exercise therapy[Title/Abstract]) OR physical therapy[Title/Abstract]) OR kinesiotherapy[Title/Abstract]) OR physical activit\*[Title/Abstract]) OR exercise train\*[Title/Abstract]) OR physical therapy modalities[MeSH Terms]) OR exercise therapy[MeSH Terms]) OR Rehabilitation[MeSH Terms]) | (((((((((supervis\*[Title/Abstract]) OR telesupervis\*[Title/Abstract]) OR tele supervis\*[Title/Abstract]) OR monitoring[Title/Abstract]) OR telemonitoring[Title/Abstract]) OR tele monitoring[Title/Abstract]) OR telerehabilitation[Title/Abstract]) OR tele rehabilitation[Title/Abstract]) OR telerehabilitation[MeSH Terms]) | (((((((((((((((((((((system[Title/Abstract]) OR software[Title/Abstract]) OR apps[Title/Abstract]) OR application[Title/Abstract]) OR online[Title/Abstract]) OR on-line[Title/Abstract]) OR web base\*[Title/Abstract]) OR Internet[Title/Abstract]) OR mobile phone[Title/Abstract]) OR telephone[Title/Abstract]) OR cellphone[Title/Abstract]) OR smartphone[Title/Abstract]) OR tablet[Title/Abstract]) OR personal digital assistant[Title/Abstract]) OR computer systems[MeSH Terms]) OR software[MeSH Terms]) OR mobile applications[MeSH Terms]) OR cell phones[MeSH Terms]) OR smartphone[MeSH Terms]) OR telephone[MeSH Terms]) OR computers, handheld[MeSH Terms]) |
| **RESULT** | #1 AND #2 AND #3 **Filters: Publication date from 2008/01/01 to 2018/02/06; English**We didn’t filter out Publication type in PubMed, because of avoiding search only in Medline database.**668 records** |
| **Embase** | 'home':ti,ab,kw OR 'home care'/exp | 'rehabilitation':ti,ab,kw OR 'physiotherapy':ti,ab,kw OR 'exercise therapy':ti,ab,kw OR 'physical therapy':ti,ab,kw OR 'kinesiotherapy':ti,ab,kw OR 'physical activit\*':ti,ab,kw OR 'exercise train\*':ti,ab,kw OR 'home physiotherapy'/exp OR 'home based exercise'/exp OR 'home rehabilitation'/exp OR 'rehabilitation'/exp OR 'physiotherapy'/exp OR 'kinesiotherapy'/exp OR 'physical activity'/exp OR 'exercise'/exp | 'supervis\*':ti,ab,kw OR 'telesupervis\*':ti,ab,kw OR 'tele supervis\*':ti,ab,kw OR 'telemonitoring':ti,ab,kw OR 'tele monitoring':ti,ab,kw OR 'telerehabilitation':ti,ab,kw OR 'tele rehabilitation':ti,ab,kw OR 'monitoring'/exp OR 'telemonitoring'/exp OR 'telerehabilitation'/exp OR 'supervision'/exp OR 'supervised exercise program'/exp OR 'supervised exercise'/exp OR 'supervised exercise therapy'/exp | 'system':ti,ab,kw OR 'software':ti,ab,kw OR 'apps':ti,ab,kw OR 'application' OR 'online':ti,ab,kw OR 'on-line':ti,ab,kw OR 'web base\*':ti,ab,kw OR 'internet':ti,ab,kw OR 'mobile phone':ti,ab,kw OR 'telephone':ti,ab,kw OR 'cellphone':ti,ab,kw OR 'smartphone':ti,ab,kw OR 'tablet':ti,ab,kw OR 'personal digital assistant':ti,ab,kw OR 'computer system'/exp OR 'software'/exp OR 'mobile application'/exp OR 'tablet machine'/exp OR 'personal digital assistant'/exp |
| **RESULT** | #1 AND #2 AND #3 AND #4 AND ([article]/lim OR [article in press]/lim OR [conference paper]/lim) AND [english]/lim AND [1-1-2008]/sd NOT [6-2-2018]/sd **476 records** |
| **ISI Web of Science** | TS= (home) | TS= (rehabilitation) OR TS= (physiotherapy) OR TS= (exercise therapy) OR TS= (physical therapy) OR TS= (kinesiotherapy) OR TS= (physical activit\*) OR TS= (exercise train\*) | TS= (supervis\*) OR TS= (telesupervis\*) OR TS= (tele supervis\*) OR TS= (monitoring) OR TS= (telemonitoring) OR TS= (tele monitoring) OR TS= (telerehabilitation) OR TS= (tele rehabilitation) | TS= (system) OR TS= (software) OR TS= (apps) OR TS= (application) OR TS= (online) OR TS= (on-line) OR TS= (web base\*) OR TS= (Internet) OR TS= (mobile phone) OR TS= (telephone) OR TS= (cellphone) OR TS= (smartphone) OR TS= (tablet) OR TS= (personal digital assistant) |
| **RESULT** | (#4 AND #3 AND #2 AND #1) AND LANGUAGE: (English) AND DOCUMENT TYPES: (Article OR Data Paper OR Early Access OR Proceedings Paper OR Retracted Publication) Indexes=SCI-EXPANDED, SSCI, CPCI-S, CPCI-SSH, ESCI **Timespan=2008-2018****1,019 records** |
| **Cochrane Library** | #1 | home:ti,ab,kw **Limited in Trials, Methods Studies and Technology Assessments** | #5 | rehabilitation:ti,ab,kw or physiotherapy:ti,ab,kw or exercise therapy:ti,ab,kw or physical therapy:ti,ab,kw or kinesiotherapy:ti,ab,kw physical activit\*:ti,ab,kw exercise train\*:ti,ab,kw **Limited in Trials, Methods Studies and Technology Assessments** | #9 | supervis\*:ti,ab,kw or telesupervis\*:ti,ab,kw or tele supervis\*:ti,ab,kw or monitoring:ti,ab,kw or telemonitoring:ti,ab,kw or tele monitoring:ti,ab,kw or telerehabilitation:ti,ab,kw or tele rehabilitation:ti,ab,kw**in Trials, Methods Studies and Technology Assessments** | #12 | system:ti,ab,kw or software:ti,ab,kw or apps:ti,ab,kw or application:ti,ab,kw or online:ti,ab,kw or on-line:ti,ab,kw or web base\*:ti,ab,kw or Internet:ti,ab,kw or mobile:ti,ab,kw or phone:ti,ab,kw or telephone:ti,ab,kw or cellphone:ti,ab,kw or smartphone:ti,ab,kw or tablet:ti,ab,kw or personal digital assistant:ti,ab,kw**in Trials, Methods Studies and Technology Assessments** |
| #2 | MeSH descriptor: [Home Health Aides] explode all trees | #6 | MeSH descriptor: [Physical Therapy Modalities] explode all trees | #10 | MeSH descriptor: [Telerehabilitation] explode all trees | #13 | MeSH descriptor: [Computer Systems] explode all trees |
| #14 | MeSH descriptor: [Software] explode all trees |
| #3 | MeSH descriptor: [Home Care Services] explode all trees | #7 | MeSH descriptor: [Exercise Therapy] explode all trees | #11 | #9 or #10**in Trials, Methods Studies and Technology Assessments** | #15 | MeSH descriptor: [Mobile Applications] explode all trees |
| #16 | MeSH descriptor: [Cell Phone] explode all trees |
| #8 | #5 or #6 or #7**in Trials, Methods Studies and Technology Assessments** | #17 | MeSH descriptor: [Smartphone] explode all trees |
| #18 | MeSH descriptor: [Telephone] explode all trees |
| #19 | MeSH descriptor: [Computers, Handheld] explode all trees |
| #4 | #1 or #2 or #3**in Trials, Methods Studies and Technology Assessments** | #20 | #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19**in Trials, Methods Studies and Technology Assessments** |
| **RESULT** | #4 and #8 and #11 and #20 (Word variations have been searched) Publication Year from 2008 to 2018, in Trials(282 records), Methods Studies (no record) and Technology Assessments (no record)**282 records** |
| **IEEE Xplore Digital Library** | home | rehabilitation OR physiotherapy OR exercise therapy OR physical therapy OR kinesiotherapy OR physical activit\* OR exercise training | supervis\* OR monitoring OR telerehabilitation | system OR software OR apps OR application OR online OR on-line OR web base\* OR Internet OR mobile OR phone OR telephone OR cellphone OR smartphone OR tablet OR "personal digital assistant" |
| **RESULT** | **422 records** | (#1) AND (#2) AND (system OR software OR apps OR application) and refined by Content Type: Journals & Magazines Conferences Early Access Articles Year: 2008-2018 |
| **75 records** | (#1) AND (#2) AND (online OR on-line OR web base\* OR Internet) and refined by Content Type: Journals & Magazines Conferences Early Access Articles Year: 2008-2018 |
| **94 records** | (#1) AND (#2) AND (mobile OR phone OR telephone OR cellphone) and refined by Content Type: Journals & Magazines Conferences Early Access Articles Year: 2008-2018 |
| **28 records** | (#1) AND (#2) AND (smartphone OR tablet OR "personal digital assistant") and refined by Content Type: Journals & Magazines Conferences Early Access Articles Year: 2008-2018 |
| **Total (duplicates removed)** | **434 records** |  |
| **ProQuest** (**Searched Databases:** Health & Medical Collection; Nursing & Allied Health Database; Psychology Database) | AB,TI(home) OR MESH(Home Health Aides OR Home Care Services) | **AB,TI(rehabilitation OR physiotherapy OR "exercise therapy" OR "physical therapy" OR kinesiotherapy OR physical activit\* OR exercise train\*) OR MESH(Physical Therapy Modalities OR Exercise Therapy)** | AB,TI(supervis\* OR telesupervis\* OR tele supervis\* OR monitoring OR telemonitoring OR tele monitoring OR telerehabilitation OR tele rehabilitation) OR MESH(Telerehabilitation) | AB,TI(system OR software OR apps OR application OR online OR on-line OR web base\* OR Internet OR mobile OR phone OR telephone OR cellphone OR smartphone OR tablet OR “personal digital assistant”) OR MESH(Computer Systems OR Software OR Mobile Applications OR Cell Phones OR Smartphone OR Telephone OR Computers, Handheld) |
| **RESULT** | (#1) AND (#2) AND (#3) AND (#4) **Applied filters: Date: From January 01 2008 to February 06 2018; Article OR Feature OR Undefined OR Case Study; English****191 records** |
| **Total** | **1,102 + 668 + 476 + 1,019 + 282 + 434 + 191 = 4,172 records** |