

- 1 **Additional file 2. Search strategy used for MEDLINE database (search interface: Ovid; Host: Wolters**
- 2 **Kluwer)**
- 3 **MEDLINE** 1946 to the third week of April, 2018,
- 4 **MEDLINE Daily Update** April 26, 2018,
- 5 **MEDLINE In-Process & Other Non-Indexed Citations** April 26, 2018,
- 6 **MEDLINE Epub Ahead of Print** April 26, 2018
- 7 Search date (yyyy-mm-dd): 2018-04-27

| #  | Searches   | Results | Annotations                          |
|----|--|---------|--------------------------------------|
| 1  | exp aged/  | 2800655 | #1 to #8:<br>Aspect Aged             |
| 2  | Geriatrics/  | 28648   |                                      |
| 3  | (old*3 adj2 (adult*2 or people or person* or patient* or age*2 or man or men or wom#n or client* or residen*)).ti,ab,kf.             | 551680  |                                      |
| 4  | (elder* or geriat* or geronto* or frail* or senior? or agedly).ti,ab,kf.   | 314577  |                                      |
| 5  | (high*3 age*2 or late* life* or late* live*).ti,ab,kf.   | 21918   |                                      |
| 6  | ((liv* or life*) adj2 long*3 adj2 (adult* or people or person* or patient* or man or men or wom?n or client* or residen*)).ti,ab,kf. | 2540    |                                      |
| 7  | advanced in years.ti,ab,kf. or betagt*.ot.   | 162     |                                      |
| 8  | or/1-7   | 3248520 |                                      |
| 9  | comorbidity/   | 92917   | #9 to #21:<br>Aspect Multi-morbidity |
| 10 | Multiple Chronic Conditions/   | 178     |                                      |

|    |  |        |                          |
|----|--|--------|--------------------------|
| 11 | exp chronic disease/ and (multi or multiple or concurren* or complex*).ti,ab,kf.                               | 20443  |                          |
| 12 | (comorbid* or co-morbid*).ti,ab,kf,ot. or (komorbid* or ko-morbid*).ot.  | 140228 |                          |
| 13 | (multimorbid* or multi*-morbid*).ti,ab,kf,ot.  | 4057   |                          |
| 14 | (polymorbid* or poly morbid*).ti,ab,kf,ot.   | 292    |                          |
| 15 | multidisease*.ti,ab,kf.  | 39     |                          |
| 16 | ((multi or multiple) adj2 (ill or illness* or condition* or disorder* or syndrom* or disease*)).ti,ab,kf.      | 30204  |                          |
| 17 | (complex* adj2 (patient* or disease* or ill or illness* or condition* or disorder*)).ti,ab,kf.                 | 42426  |                          |
| 18 | (concurrer* adj2 (disease* or ill or illness* or condition* or disorder*)).ti,ab,kf.                           | 4305   |                          |
| 19 | (multimedicat* or multi*-medicat* or polymedicat* or poly-medicat* or polypharmac* or poly-pharmac*).ti,ab,kf. | 8133   |                          |
| 20 | Polypharmacy/  | 3790   |                          |
| 21 | or/9-20  | 297020 |                          |
| 22 | 8 and 21   | 110795 | Aged AND Multi-morbidity |
| 23 | exp patient centered care/   | 16400  | #23 to #49:              |
| 24 | exp patient satisfaction/  | 78556  | Aspect patient-centered  |
| 25 | decision making/   | 83248  | care                     |
| 26 | choice behaviour/  | 28960  |                          |

|    |  |       |
|----|--|-------|
| 27 | Health Priorities/   | 10119 |
| 28 | ((patient? or client? or person*2) adj2 prefer*).ti,ab,kf.                             | 18606 |
| 29 | ((patient? or client? or person*2) adj2 priorit*).ti,ab,kf.                            | 2490  |
| 30 | (treatment adj2 (goal? or preference? or priorit*).ti,ab,kf.                           | 11750 |
| 31 | goal attainment.ti,ab,kf.  | 1550  |
| 32 | (goal oriented* or goaloriented*).ti,ab,kf.  | 1425  |
| 33 | goals/   | 14804 |
| 34 | (patient cent* adj2 (care or approach* or therap* or treatment or medic*).ti,ab,kf.    | 9128  |
| 35 | (person cent* adj2 (care or approach* or therap* or treatment or medic*).ti,ab,kf.     | 2349  |
| 36 | (client cent* adj2 (care or approach* or therap* or treatment or medic*).ti,ab,kf.     | 556   |
| 37 | (patient oriented adj2 (care or approach* or therap* or treatment or medic*).ti,ab,kf. | 375   |
| 38 | (person oriented adj2 (care or approach* or therap* or treatment or medic*).ti,ab,kf.  | 114   |
| 39 | (client oriented adj2 (care or approach* or therap* or treatment or medic*).ti,ab,kf.  | 19    |
| 40 | (patient cent?redness or client cent?redness or person cent?redness).ti,ab,kf.         | 1408  |
| 41 | (patientcent* or clientcent* or personcent*).ti,ab,kf.                                 | 24    |

|    |   |        |   |
|----|---|--------|---|
| 42 | (patientoriented* or clientoriented* or personoriented*).ti,ab,kf.  | 4      |   |
| 43 | (patient*orientier* or klient*orientier* or patient*zentrier* or klient*zentrier* or person*orientier* or person*zentrier*).ot. | 179    |   |
| 44 | ((patient* or klient* or person*) adj (zentrier* or orientier*)).ot.  | 24     |   |
| 45 | ((goal* or priorit* or target* or value* or preference*) adj2 (patient* or individual* or person* or client*)).ti,ab,kf.        | 63093  |   |
| 46 | ((goal* or priorit* or target* or preference*) adj2 treatment*).ti,ab,kf.   | 32182  |   |
| 47 | ((patient* or client* or person*) adj2 choice*).ti,ab,kf.   | 9970   |   |
| 48 | shared decision making.ti,ab,kf.  | 5495   |   |
| 49 | or/23-48  | 326625 |   |
| 50 | 22 and 49   | 4208   | Aged AND Multi-morbidity AND patient-centered care              |
| 51 | protocol.ti.  | 35122  | Textword protocol in title                                      |
| 52 | 21 and 49 and 51  | 89     | Multi-morbidity AND patient-centered care AND protocol in title |

|    |                           |         |   |
|----|---------------------------|---------|---|
| 53 | 50 or 52                  | 4259    | (Aged AND Multi-morbidity AND patient-centred care)<br>OR<br>(Multi-morbidity AND patient-centred care AND protocol in title) |
| 54 | exp animals/ not humans/  | 4450254 | Exclusion of animals  |
| 55 | 53 not 54                 | 4258    |   |
| 56 | case reports.pt.          | 1875801 | Exclusion of editorials<br>and case reports   |
| 57 | (case? adj3 report).ti.   | 302363  |   |
| 58 | editorial.pt.             | 456208  |   |
| 59 | editorial.ti.             | 34313   |   |
| 60 | or/56-59                  | 2443711 |   |
| 61 | 55 not 60                 | 4111    |   |
| 62 | remove duplicates from 61 | 4080    | Exclusion of duplicates.<br><b>Final result</b>   |

8

9 / = Medical Subject Heading (MeSH)

10 Exp = exploded Mesh term

11 \* = truncation, any number of characters

12 \*2, \*3 = truncation: from 0 to 2, 0 to 3 characters

13 ? = 0 or 1 character

14 # = 1 character

15 .ti,ab,kf. = title, abstract, keyword heading word

5

- 16 .ti. = title
- 17 .ot. = original title
- 18 .mp. = title, abstract, original title, name of substance word, subject heading word, keyword heading  
19 word, protocol supplementary concept word, rare disease supplementary concept word, unique  
20 identifier
- 21 .pt. = publication type
- 22 adjn = Search terms within *n* words in any order
- 23
- 24
- 25