

Supplementary file 1. Search terms.

Database: Medline <1946 - March 15, 2019>

Search Strategy:

- 1 palliative care/ or terminal care/ or hospice care/ or terminally ill/ (76338)
- 2 ("terminal care" or "terminal* ill*").ti,ab,kw. (8600)
- 3 ("palliative care" or "end of life").ti,ab,kw. (39953)
- 4 1 or 2 or 3 (92782)
- 5 General practitioners/ or Physicians, Family/ (22639)
- 6 ((general or family) adj1 (practice* or practitioner*)).tw. (85006)
- 7 ("family physician*" or "primary care physician*").tw. (31251)
- 8 Physicians, Primary Care/ (2857)
- 9 exp General practice/ (72893)
- 10 Primary Health Care/ (71108)
- 11 ("primary care" or "primary medical care" or "primary health care" or "primary healthcare" or "primary health service*").tw. (122242)
- 12 (generalist adj5 provider*).tw. (68)
- 13 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 (254893)
- 14 "Attitude of health personnel"/ (114607)
- 15 (barrier* or obstacle* or challenge* or perspective* or perception* or facilitat* or enable*).tw. (1967849)
- 16 Practice patterns, Physicians'/ (54536)
- 17 Health knowledge, attitudes, practice/ (101523)
- 18 Clinical competence/ (86503)
- 19 "Delivery of health care"/ (83248)
- 20 14 or 15 or 16 or 17 or 18 or 19 (2277943)
- 21 4 and 13 and 20 (1416)
- 22 limit 21 to english language (1307)

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4 23 limit 22 to (case reports or comment or editorial or letter or news) (67)
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6 24 22 not 23 (1240)
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8 25 limit 24 to yr="2007 -Current" (816)
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10 26 (201712* or 2018* or 2019*).dt,ez,ed. (2459545)
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12 27 24 and 26 (175)
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Supplementary file 2. Summary of risk bias for individual studies.

Author, year	Sampling frame	Recruitment	Sample size	Adequate description of subjects	Data analysis conducted with sufficient sample coverage	Measures development	Data collection standardized	Appropriate statistical analysis and reporting	Response rate
Plat et al 2018	Low	Low	Low	Low	Low	Low	Low	Low	High
Malik et al 2017	Low	Low	Low	Low	Unclear	Low	Low	Low	High
Brazil et al 2017	Low	Low	Low	Low	High	Low	Low	Low	Low
Low et al 2017	Low	Low	High	High	High	High	Low	Unclear	High
Le et al 2017	High	High	High	High	Unclear	High	Low	High	Unclear
To et al 2017	Low	Low	Low	Low	Unclear	High	Low	Unclear	High
Giezendanner et al 2017	Low	Low	Low	Low	Low	Low	Low	Low	High
Winthereik et al 2016	Low	Low	Low	Low	High	Low	Low	Low	Low
Magee et al 2016	Low	Low	Low	Low	High	Low	Low	Unclear	High
Dunlay et al 2015	High	Low	High	Unclear	High	Low	Low	Unclear	Low
De Korte-Verhoet et al 2014	Low	Low	Low	Low	Unclear	Low	Low	Unclear	High
Hirooka et al 2014	Low	Low	Low	Low	High	Low	Low	Low	High
Hong et al 2013	Low	Low	Low	Unclear	Unclear	Low	Low	Unclear	High
Keily et al 2013	Low	Low	Low	Low	Low	Low	Low	Unclear	Low
Silvonieminen et al 2012	Low	Low	Low	Low	High	Low	Low	Unclear	High
de Graaff et al 2009	Low	Low	Low	Low	High	Low	Low	Unclear	Low

Tan et al 2009	Low	Low	Low	Low	High	Low	Low	Unclear	High
Rhee et al 2008	Low	Low	Low	Low	Low	Low	Low	Unclear	Low
Becker et al 2007	Low	Low	Low	Low	High	Low	Low	High	Low
Groot et al 2007	Low	Low	Low	Low	Low	Low	Low	Unclear	Low

Low: low risk of bias; High: high risk of bias; Unclear: unclear risk of bias; NA: not applicable

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