Medline search strategies for the inpatient setting

Search strategies

Scoping searches

Scoping searches were undertaken on the following websites and databases (listed in alphabetical order) in August 2011 to provide information for scope development and project planning. Browsing or simple search strategies were employed.

Guidelines/websites	Systematic reviews/economic evaluations
• Canadian Medical Association Infobase • Department of Health • Guidelines International Network (GIN) • Healthcare Improvement Scotland • National Health and Medical Research Council (Australia) • National Institute for Health and Clinical Excellence (NICE) - published & in development guidelines • National Institute for Health and Clinical Excellence (NICE) - Topic Selection • National Institute for Innovation and Improvement • National Patient Safety Agency • NHS Evidence • New Zealand Guidelines Group • Royal Colleges • Scottish Intercollegiate Guidelines Network (SIGN) • Social Care Institute for Excellence (SCIE) • US National Guideline Clearinghouse	• BMJ Clinical Evidence • Cochrane Database of Systematic Reviews (CDSR) • Database of Abstracts of Reviews of Effects (DARE) • Health Economic Evaluations Database (HEED) • Health Technology Assessment (HTA) Database • NHS Economic Evaluation Database (NHS EED) • NHS R&D Service Delivery and Organisation (NHS SDO) Programme • National Institute for Health Research (NIHR) Health Technology Assessment Programme • TRIP Database

Main searches

Sources searched for the guideline

- Cochrane Database of Systematic Reviews – CDSR (Wiley)
- Cochrane Central Register of Controlled Trials – CENTRAL (Wiley)
- Database of Abstracts of Reviews of Effects – DARE (Wiley and CRD website)
- Health Technology Assessment Database – HTA (Wiley and CRD website)
- EMBASE (Ovid)
- MEDLINE (Ovid)
- MEDLINE In-Process (Ovid)

Identification of evidence for the clinical questions

The searches were conducted between November 2011 and July 2012, and re-run in September 2012.The aim of the searches were to identify evidence for each of the clinical questions being asked.

The MEDLINE search strategies are presented below. These were translated for use in all of the other databases.

Review Question 1:

What assessment tool or process should be used to identify modifiable risk factors for falling while in hospital? Does this method vary by underlying pathology?

Database: Ovid MEDLINE(R)
Search Strategy:
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1 Accidental Falls/
2 (Fall* or slip* or trip* or collapse*).tw.
3 or/1-2
4 exp Aged/
5 Aging/
6 Middle Aged/
7 Geriatrics/
8 (Old* or senior* or elder* or age* or geriatric* or senescence* or middleage* or middle-age* or middle age*).tw.
9 or/4-8
10 exp Hospitals/
11 Inpatients/
12 (Hospital* or hospice* or inpatient*).tw.
13 or/10-12
14 risk assessment/
15 mass screening/
16 (risk* adj3 (assess* or test* or tool* or scale* or process* or procedure* or protocol* or guide*)).tw.
17 ((screen* or assess*) adj3 (test* or tool* or scale* or process* or procedure* or protocol* or guide*)).tw
18 or/14-17

19 3 and 9 and 13 and 18
20 Animals/ not Humans/
21 19 not 20
22 limit 21 to english language

Review Question 2:

What interventions reduce older patients' risk and/or the severity of a fall in hospital, compared with usual care? Which interventions are the most effective? Does the intervention vary by underlying pathology?

Database: Ovid MEDLINE(R)
Search Strategy:
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1 Accidental Falls/
2 (Fall* or slip* or trip* or collapse*).tw.
3 or/1-2
4 exp Aged/
5 Aging/
6 Middle Aged/
7 Geriatrics/
8 (Old* or senior* or elder* or age* or geriatric* or senescence* or middleage* or middle-age* or middle age*).tw.
9 or/4-8
10 exp Hospitals/
11 Inpatients/
12 (Hospital* or hospice* or inpatient* or ward*).tw.
13 or/10-12
14 risk assessment/
15 risk management/
16 risk factors/
17 safety management/
18 Accident Prevention/
19 Accidental Falls/pc [Prevention & Control]
20 ((Fall* or slip* or trip* or collapse*) adj3 (prevent* or reduc* or assess* or intervent* or manage* or factor* or low* or few* or less*)).tw.
21 or/14-20
22 3 and 9 and 13 and 21
23 Animals/ not Humans/
24 22 not 23
25 limit 24 to english language

Review Question 3:

What are the education and information needs of patients and their carers after a hospital-based falls risk assessment, or a fall in hospital?

Database: Ovid MEDLINE(R)
Search Strategy:
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1 Accidental Falls/
2 (Fall* or slip* or trip* or collapse*).tw.
3 or/1-2
4 exp Aged/

5 Aging/
6 Middle Aged/
7 Geriatrics/
8 (Old* or senior* or elder* or age* or geriatric* or senescence* or middleage* or middle-age* or middle age*).tw.
9 or/4-8
10 exp Hospitals/
11 Inpatients/
12 (Hospital* or hospice* or inpatient*).tw.
13 or/10-12
14 3 and 9 and 13
15 Qualitative Research/
16 Nursing Methodology Research/
17 exp Interviews as topic/
18 Questionnaires/
19 Narration/
20 Health Care Surveys/
21 (qualitative$ or interview$ or focus group$ or questionnaire$ or narrative$ or narration$ or survey$).tw.
22 (ethno$ or emic or etic or phenomenolog$ or grounded theory or constant compar$ or (thematic$ adj3 analys$) or theoretical sampl$ or purposive sampl$).tw.
23 (hermeneutic$ or heidegger$ or husserl$ or colaizzi$ or van kaam$ or van manen$ or giorgi$ or glaser$ or strauss$ or ricoeur$ or spiegelberg$ or merleau$).tw.
24 (metasynthes$ or meta-synthes$ or metasummar$ or meta-summar$ or metastud$ or meta-stud$ or metathem$ or meta-them$).tw.
25 or/15-24
26 exp Patients/px
27 exp Family/px
28 Caregivers/px
29 ((patient$ or parent$ or famil$ or relative$ or carer$ or caregiver$ or care-giver$ or spous$ or husband$ or wife$ or wive$ or partner$ or mother$ or father$ or sibling$ or sister$ or brother$) adj5 (experience$ or belief$ or stress$ or emotion$ or anx$ or fear$ or concern$ or uncertain$ or unsure or thought$ or feeling$ or felt$ or view$ or opinion$ or perception$ or perspective$ or attitud$ or satisfact$ or know$ or understand$ or aware$)).ti.
30 Stress, Psychological/
31 Adaptation, psychological/
32 Emotions/
33 Anxiety/
34 Fear/
35 exp Consumer Satisfaction/
36 or/26-35
37 exp Patients/
38 exp Family/
39 Caregivers/
40 (patient$ or parent$ or famil$ or relative$ or carer$ or caregiver$ or care-giver$ or spous$ or husband$ or wife$ or wive$ or partner$ or mother$ or father$ or sibling$ or sister$ or brother$).ti.
41 or/37-40
42 Pamphlets/
43 Needs Assessment/
44 Information Centers/
45 Information Services/
46 Health Education/
47 Information Dissemination/
48 Counseling/
49 Social Support/
50 Self-Help Groups/
51 Self Care/

52 ((patient$ or parent$ or famil$ or relative$ or carer$ or caregiver$ or care-giver$ or spous$ or husband$ or wife$ or wive$ or partner$) adj5 (educat$ or informat$ or communicat$ or pamphlet$ or handout$ or hand-out$ or hand out$ or booklet$ or leaflet$ or support$ or need$ or advice$ or advis$)).ti.
53 ((patient$ or parent$ or famil$ or relative$ or carer$ or caregiver$ or care-giver$ or spous$ or husband$ or wife$ or wive$ or partner$) adj5 (counsel$ or selfhelp$ or self-help$ or self help$ or selfcar$ or self-car$ or self car$)).ti.
54 Patient Education as Topic/
55 Patient Education Handout/
56 Consumer Health Information/
57 patient* diar*.tw.
58 or/42-57
59 41 and 58
60 25 or 36 or 59
61 Animals/ not Humans/
62 60 not 61
63 14 and 62
64 limit 63 to english language

Economic evaluations and quality of life data

Sources searched to identify economic evaluations

- NHS Economic Evaluation Database – NHS EED (Wiley and CRD website
- Health Economic Evaluations Database – HEED (Wiley)
- Embase (Ovid)
- MEDLINE (Ovid)
- MEDLINE In-Process (Ovid)

The searches were undertaken in January 2012. Search filters to retrieve economic evaluations and quality of life papers were appended to the following search strategy to identify relevant evidence.

Search Strategy:
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1 Accidental Falls/
2 (Fall* or slip* or trip* or collapse*).tw.
3 or/1-2
4 exp Aged/
5 Aging/
6 Middle Aged/
7 Geriatrics/
8 (Old* or senior* or elder* or age* or geriatric* or senescence* or middleage* or middle-age* or middle age*).tw.
9 or/4-8
10 exp Hospitals/
11 Inpatients/
12 (Hospital* or hospice* or inpatient*).tw.
13 or/10-12
14 3 and 9 and 13

The MEDLINE economic evaluations and quality of life search filters are presented below. They were translated for use in the MEDLINE In-Process and Embase databases.

Economic evaluations

1 Economics/
2 exp "Costs and Cost Analysis"/
3 Economics, Dental/
4 exp Economics, Hospital/
5 exp Economics, Medical/
6 Economics, Nursing/
7 Economics, Pharmaceutical/
8 Budgets/
9 exp Models, Economic/
10 Markov Chains/
11 Monte Carlo Method/
12 Decision Trees/
13 econom$.tw.
14 cba.tw.
15 cea.tw.
16 cua.tw.
17 markov$.tw.
18 (monte adj carlo).tw.
19 (decision adj2 (tree$ or analys$)).tw.
20 (cost or costs or costing$ or costly or costed).tw.
21 (price$ or pricing$).tw.
22 budget$.tw.
23 expenditure$.tw.
24 (value adj2 (money or monetary)).tw.
25 (pharmacoeconomic$ or (pharmaco adj economic$)).tw.
26 or/1-25

Quality of life

1. "Value of Life"/
2. Quality-Adjusted Life Years/
3. quality adjusted life.tw.
4. (qaly$ or qald$ or qale$ or qtime$).tw.
5. disability adjusted life.tw.
6. daly$.tw.
7. Health Status Indicators/
8. (sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).tw.
9. (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).tw.
10. (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).tw.
11. (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).tw.
12. (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).tw.
13. (euroqol or euro qol or eq5d or eq 5d).tw.
14. (hye or hyes).tw.
15. health$ year$ equivalent$.tw.
16. (health adj3 state adj3 utilit$).tw.
17. (utilit$ adj3 (health$ or valu$ or weight$ or scor$ or measure$)).tw.

18. (hui or hui1 or hui2 or hui3).tw.
19. disutili$.tw.
20. rosser.tw.
21. quality of wellbeing.tw.
22. quality of well-being.tw.
23. qwb.tw.
24. willingness to pay.tw.
25. standard gamble$.tw.
26. time trade off.tw.
27. time tradeoff.tw.
28. tto.tw.
29. (preferen$ weight$ or health state preferen$).tw.
30. or/1-30