Supplement 5 | Study Selection Flow Diagrams

Key question 1.1.

- Searching from existing guidelines (n = 13, 2010–2018)
- Records identified through databases searching (n = 356, 2017–2020)
  - Ovid-MEDLINE (n = 356)
  - KoreaMed (n = 0)
  - EMBASE (n = 0)
  - KBASE (n = 0)
- Cochrane Library (n = 0)
- Hand searching (n = 0)

Records after duplicates removed (n = 369)

Records screened (n = 369)

Records excluded by title and abstract screening (n = 350)

Records excluded according to selection criteria (n = 5)
1. Not targeting the patient of interest specified in the key question (n = 1)
2. Intervention related to the key question has not been implemented (n = 2)
3. Comparative arbitration related to key questions has not been conducted (n = 1)
4. Appropriate outcomes has not been reported (n = 0)
5. Not English or Korean (n = 1)
6. Duplicated (n = 0)
7. Impossible to obtain the original text (n = 0)
8. Not a human subject (n = 0)

Studies included for synthesis (n = 14)
- All-cause mortality (12), cost-effectiveness (2), adverse events (2), echocardiographic endpoint (1)
Key question 1.2.

- Records identified through databases searching (n = 260, 2010–2020)
  - Ovid-MEDLINE (n = 260)
  - EMBASE (n = 0)
  - Cochrane Library (n = 0)
- Hand searching (n = 0)

- Records after duplicates removed (n = 260)

- Records screened (n = 260)

- Full-text articles assessed for eligibility (n = 13)

- Studies included for synthesis (n = 6)

Records excluded by title and abstract screening (n = 247)

Records excluded according to selection criteria (n = 7)
1. F: not targeting the patient of interest specified in the key question (n = 4)
2. I: intervention related to the key question has not been implemented (n = 0)
3. C: comparative or intervention related to key questions has not been conducted (n = 2)
4. O: appropriate outcomes has not been reported (n = 1)
5. L: not English or Korean (n = 0)
6. D: duplicated (n = 0)
7. I: impossible to obtain the original text (n = 0)
8. H: not a human subject (n = 0)
Key question 2.1.

Identification
- Searching from existing guidelines (n = 9)
- Records identified through databases searching (n = 157)
  - Ovid-MEDLINE (n = 157)
  - KoreaMed (n = 0)
  - EMBASE (n = 0)
  - KMBASE (n = 0)
- Hand searching (n = 0)

Screening
- Records after duplicates removed (n = 166)

Eligibility
- Records screened (n = 166)

Included
- Full-text articles assessed for eligibility (n = 21)
- Studies included for synthesis (n = 9)

Records excluded by title and abstract screening (n = 145)
- Records excluded according to selection criteria (n = 12)
  1. P: not targeting the patient of interest specified in the key question (n = 0)
  2. I: Intervention related to the key question has not been implemented (n = 5)
  3. O: comparative or quantitative related to key question has not been conducted (n = 6)
  4. O: appropriate outcomes has not been reported (n = 1)
  5. not English or Korean (n = 0)
  6. duplicated (n = 0)
  7. Impossible to obtain the original text (n = 0)
  8. not a human subject (n = 0)

Key question 2.2.

Identification
- Records from existing guidelines (n = 17)
- Records identified through databases searching (n = 53)
  - Ovid-MEDLINE (n = 53)
  - KoreaMed (n = 0)
  - EMBASE (n = 0)
  - KMBASE (n = 0)
- Hand searching (n = 0)

Screening
- Records after duplicates removed (n = 69)

Eligibility
- Records screened (n = 69)

Included
- Full-text articles assessed for eligibility (n = 23)
- Studies included for synthesis (n = 12)

Records excluded by title and abstract screening (n = 46)
- Records excluded according to selection criteria (n = 11)
  1. P: not targeting the patient of interest specified in the key question (n = 1)
  2. I: Intervention related to the key question has not been implemented (n = 4)
  3. O: comparative or quantitative related to key question has not been conducted (n = 0)
  4. O: appropriate outcomes has not been reported (n = 2)
  5. not English or Korean (n = 0)
  6. duplicated (n = 0)
  7. Impossible to obtain the original text (n = 4)
  8. not a human subject (n = 0)
Key question 3.1.

Identification
- Searching from existing guidelines (n = 17)
- Records identified through databases searching (n = 176, 2012–2020)
  - Ovid-MEDLINE (n = 176)
  - KoreaMed (n = 0)
  - EMBASE (n = 0)
  - KMBASE (n = 0)
- Hand searching (n = 0)

Screening
- Records after duplicates removed (n = 193)

Records screened (n = 29)

Records excluded by title and abstract screening (n = 1)

Records excluded according to selection criteria (n = 16)
1. P: not targeting the patient of interest specified in the key question (n = 0)
2. I: intervention related to the key question has not been implemented (n = 2)
3. C: comparative arbitration related to key questions has not been conducted (n = 1)
4. O: appropriate outcomes has not been reported (n = 6)
5. not English or Korean (n = 0)
6. duplicated (n = 0)
7. Impossible to obtain the original text (n = 1)
8. not a human subject (n = 0)

Eligibility
- Full-text articles assessed for eligibility (n = 28)

Studies included for synthesis (n = 12)
- All cause mortality (10), CV mortality (5), Hospitalization (2), Pre-dialysis b2-MG (9), eKt/V (4)

Key question 3.2.

Identification
- Records identified through databases searching (n = 128, 2010–2020)
  - Ovid-MEDLINE (n = 128)
  - KoreaMed (n = 0)
  - EMBASE (n = 0)
  - KMBASE (n = 0)
- Hand searching (n = 0)

Screening
- Records after duplicates removed (n = 132)

Records screened (n = 132)

Records excluded by title and abstract screening (n = 114)

Records excluded according to selection criteria (n = 14)
1. P: not targeting the patient of interest specified in the key question (n = 0)
2. I: intervention related to the key question has not been implemented (n = 6)
3. C: comparative arbitration related to key questions has not been conducted (n = 1)
4. O: appropriate outcomes has not been reported (n = 2)
5. not English or Korean (n = 0)
6. duplicated (n = 1)
7. Impossible to obtain the original text (n = 1)
8. not a human subject (n = 0)

Eligibility
- Full-text articles assessed for eligibility (n = 18)

Studies included for synthesis (n = 4)
- All-cause mortality (3), CV-related mortality (3), Hospitalization rate (3), Quality of life (1)
Key question 4.1.

Identification
- Records identified through databases searching (n = 162)
  - Ovid-MEDLINE (n = 162)
  - EMBASE (n = 0)
  - KoreaMed (n = 0)
  - KMBASE (n = 0)
- Hand searching (n = 12)

Screening
- Records after duplicates removed (n = 168)
- Records screened (n = 168)
- Records excluded by title and abstract screening (n = 150)

Eligibility
- Full-text articles assessed for eligibility (n = 18)

Included
- Studies included for synthesis (n = 6)

Records excluded according to selection criteria (n = 12)
1. If: not targeting the patient of interest specified in the key question (n = 2)
2. If: intervention related to the key question has not been implemented (n = 1)
3. C: comparative arbitration related to key questions has not been conducted (n = 4)
4. O: appropriate outcomes has not been reported (n = 2)
5. not English or Korean (n = 0)
6. duplicated (n = 0)
7. Impossible to obtain the original text (n = 1)
8. not a human subject (n = 0)

Key question 4.2.
Key question 5.1.

- Searching for existing guidelines (n = 6, 1998 – 2014)
  - Ovid-MEDLINE (n = 359)
  - EMBASE (n = 0)
  - Cochrane Library (n = 0)
- Records identified through databases searching (n = 31, 1991 – 2016)
  - Ovid-MEDLINE (n = 31)
  - EMBASE (n = 0)
  - Cochrane Library (n = 0)
  - KoreaMed (n = 0)
  - KMBASE (n = 0)
- Hand searching (n = 0)

Records identified (n = 365)

Records after duplicates removed (n = 365)

Records screened (n = 365)

Records excluded by title and abstract screening (n = 257)

Records excluded according to selection criteria (n = 96)
1. PI: not targeting the patient of interest specified in the key question (n = 96)
2. PI: intervention related to the key question has not been implemented (n = 25)
3. PI: comparative intervention related to key questions has not been conducted (n = 3)
4. PI: appropriate outcomes have not been reported (n = 12)
5. not English or Korean (n = 3)
6. duplicated (n = 0)
7. impossible to obtain the original text (n = 0)
8. not a human subject (n = 0)
9. Reviews or editorial comments (n = 0)

Studies included for synthesis (n = 12)

Studies included for synthesis (n = 2)

Adverse events (2)
Key question 5.2.

- Searching from existing guidelines (n = 6)
- Records identified through databases searching (n = 145)
  - Ovid-MEDLINE (n = 145)
  - KoreaMed (n = 0)
  - EMBASE (n = 0)
  - KMBASE (n = 0)
  - Cochrane Library (n = 0)
- Hand searching (n = 0)

Records after duplicates removed (n = 151)

Records screened (n = 151)

Records excluded by title and abstract screening (n = 130)

Records excluded according to selection criteria (n = 13)
1. Not targeting the patient of interest specified in the key question (n = 0)
2. Intervention related to the key question has not been implemented (n = 5)
3. Comparative arbitration related to key questions has not been conducted (n = 0)
4. Appropriate outcomes has not been reported (n = 2)
5. Not English or Korean (n = 0)
6. Duplicated (n = 0)
7. Impossible to obtain the original text (n = 0)
8. Not a human subject (n = 0)

Full-text articles assessed for eligibility (n = 21)

Studies included for synthesis (n = 8)

Key question 6.1.

- Records identified through databases searching (n = 132, 2010–2020)
  - Ovid-MEDLINE (n = 131)
  - KoreaMed (n = 0)
  - EMBASE (n = 0)
  - KMBASE (n = 0)
  - Cochrane Library (n = 0)
- Hand searching (n = 1)

Records after duplicates removed (n = 132)

Records screened (n = 132)

Records excluded by title and abstract screening (n = 129)

Records excluded according to selection criteria (n = 3)
1. Not targeting the patient of interest specified in the key question (n = 0)
2. Intervention related to the key question has not been implemented (n = 0)
3. Comparative arbitration related to key questions has not been conducted (n = 2)
4. Appropriate outcomes has not been reported (n = 0)
5. Not English or Korean (n = 0)
6. Duplicated (n = 0)
7. Impossible to obtain the original text (n = 0)
8. Not a human subject (n = 0)

Full-text articles assessed for eligibility (n = 3)

Studies included for synthesis (n = 0)
Key question 6.2.

- Searching from existing guidelines (n = 5)
- Records identified through databases searching (n = 45, 1984–2020)
  - Ovid-MEDLINE (n = 45)
  - KoreaMed (n = 0)
- EMBASE (n = 0)
- Cochrane Library (n = 0)
- Hand searching (n = 0)

Identification

Records after duplicates removed (n = 48)

Screening

Records screened (n = 48)

Records excluded by title and abstract screening (n = 25)

Eligibility

Full-text articles assessed for eligibility (n = 23)

Included

Studies included for synthesis (n = 10)

Key question 7.1.

- Searching for existing guideline (n = 6)
- Records identified through databases searching (n = 74, 2010–2020)
  - Ovid-MEDLINE (n = 74)
  - KoreaMed (n = 0)
- EMBASE (n = 0)
- Cochrane Library (n = 0)
- Hand searching (n = 1)

Identification

Records after duplicates removed (n = 81)

Screening

Records screened (n = 81)

Records excluded according to selection criteria (n = 70)

Eligibility

Full-text articles assessed for eligibility (n = 11)

Included

Studies included for synthesis (n = 2)
  - RCT (1), Retrospective study (1)
Key question 8.1.

**Identification**
- Searching for existing guidelines (n=4, 2000–2014)
  - Ovid-MEDLINE (n = 69)
  - EMBASE (n = 0)
  - Cochrane Library (n = 0)
- Records identified through databases searching (n = 69)
  - Ovid-MEDLINE (n = 69)
  - KoreaMed (n = 0)
  - EMBASE (n = 0)
  - KMBASE (n = 0)
- Hand searching (n = 5)

-> Records after duplicates removed (n=78)

-> Records screened (n = 78)

**Eligibility**
- Full-text articles assessed for eligibility (n = 21)

-> Studies included for synthesis (n = 12)

**Records excluded by title and abstract screening (n = 57)**
- Records excluded according to selection criteria (n = 9)
  1. P: not targeting the patient of interest specified in the key question (n = 0)
  2. I: intervention related to the key question has not been implemented (n = 2)
  3. C: comparative arbitration related to key questions has not been conducted (n = 0)
  4. O: appropriate outcomes has not been reported (n = 6)
  5. not English or Korean (n = 1)
  6. duplicated (n = 0)
  7. impossible to obtain the original text (n = 0)
  8. not a human subject (n = 0)

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Key question 8.2.

**Identification**
- Records identified through databases searching (n = 191)
  - Ovid-MEDLINE (n = 14)
  - KoreaMed (n = 0)
  - EMBASE (n = 30)
  - KMBASE (n = 54)
  - Cochrane Library (n = 12)
  - PubMed (n = 77)
- Hand searching (n = 4)

-> Records after duplicates removed (n=189)

-> Records screened (n = 189)

**Eligibility**
- Full-text articles assessed for eligibility (n = 16)

-> Studies included for synthesis (n = 5)

**Records excluded by title and abstract screening (n = 173)**
- Records excluded according to selection criteria (n = 11)
  1. P: not targeting the patient of interest specified in the key question (n = 0)
  2. I: intervention related to the key question has not been implemented (n = 8)
  3. C: comparative arbitration related to key questions has not been conducted (n = 0)
  4. O: appropriate outcomes has not been reported (n = 0)
  5. not English or Korean (n = 1)
  6. duplicated (n = 0)
  7. impossible to obtain the original text (n = 3)
  8. not a human subject (n = 0)