Guideline topic: Cardiac arrhythmias in coronary heart disease

General comments: Update of SIGN 94

Search coverage

**Systematic reviews**
Databases covered: Medline, Embase, Cochrane Library  
Dates covered: to August 2015 (see Scope of Searches table below)

**RCTs**
Databases covered: Medline, Embase, Cochrane Library  
Dates covered: (with variations depending on topic; see Scope of Searches below)

**Observational studies/ Searches without filter**
Databases covered: Medline, Embase  
Dates covered: (with variations depending on topic; see Scope of Searches below)

**Economic searches**
Databases covered: Medline, Embase, NHSEED  
Dates covered: (with variations depending on topic; see Scope of Searches below)

Search strategies
The following are listings of the main Medline strategies used for this guideline. All conventions and symbols are from the Ovid implementation of Medline. Strategies used in other databases were substantially the same, though different terminology may have been used to take account of different thesauri used in non-Medline databases.

Search filters were added to identify studies of a particular type (systematic review, RCT etc.) Listings of the search filters used by SIGN can be found on the SIGN Web site.

**Generic Stem (Medline):**
1. exp Arrhythmias, Cardiac/
2. exp Anti-Arrhythmia Agents/
3. exp Defibrillators/
4. arrhythm*i*.tw.
5. (antiarrhythm* or anti-arrhythm*i*).tw.
6. bradycard*.tw.
7. tachycard*.tw.
8. defibrill*.tw.
9. fibrillat*.tw.
Scope of searches for SR/MA, RCTs, observational studies (OBS), no filter (NOF) and economics searches

<table>
<thead>
<tr>
<th>KQ</th>
<th>Type of studies</th>
<th>Date range</th>
<th>Initial recall</th>
<th>Sifted result</th>
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Medline Search strategies used for specific key questions:

**KQ 1 (therapeutic hypothermia in cardiac arrest)**

1. heart arrest/ or out-of-hospital cardiac arrest/
2. heart arrest*.tw.
3. cardiac arrest*.tw.
4. cardiopulmonary arrest*.tw.
5. or/1-4
6. Hypothermia, Induced/
7. hypothermia*.tw.
8. or/6-7
9. 4 and 8

**KQ 2 (sustained VT with no cardiac arrest)**

Evidence based on guidelines (ILCOR).

**KQ 3 (dronedarone in AF)**

1. dronedarone.tw.
2. Atrial Fibrillation/
3. atrial fibrillation*.tw.
4. AF.tw.
5. or/2-4
6. exp Coronary Disease/
7. coronary heart disease*.tw.
8. CHD.tw.
9. or/6-8
10. 1 and 5 and 9

KQ 4 (strict versus lenient rate control for AF)
1. Atrial Fibrillation/
2. atrial fibrillation.tw.
3. AF.tw.
4. or/1-3
5. Heart Rate/
6. heart rate.tw.
7. rate control.tw.
8. or/5-7
9. strict*.tw.
10. lenient*.tw.
11. or/9-10
12. 4 and 8 and 11

KQ 5 (catheter ablation for AF)
1. Atrial Fibrillation/
2. atrial fibrillation.tw.
3. AF.tw.
4. or/1-3
5. Catheter Ablation/
6. ablation.tw.
7. Cryosurgery/
8. cryoablation.tw.
9. pulmonary vein isolation.tw.
10. PVI.tw.
11. or/5-10
12. 4 and 11

KQ 6 (catheter ablation for atrial flutter)
1. Atrial Flutter/
2. atrial flutter*.tw.
3. auricular flutter*.tw.
4. atrium flutter*.tw.
5. or/1-4
6. Catheter Ablation/
7. ablation.tw.
8. 6 or 7
9. 5 and 8

**KQ 7 (programming of ICD devices)**
1. Defibrillators, Implantable/
2. defibrillator*.tw.
3. ICD*.tw.
4. Electric Countershock/
5. or/1-4
6. programming.tw.
7. (appropriate adj3 shock*).tw.
8. (inappropriate adj3 shock*).tw.
9. (unnecessary adj3 shock*).tw.
10. (shock adj3 reduc*).tw.
11. (shock adj3 deliver*).tw.
12. or/6-11
13. 5 and 12

**KQ 8 (catheter ablation for electrical storm)**
1. electric storm.tw.
2. electrical storm.tw.
3. arrhythmi* storm.tw.
4. (incessant adj3 (ventricular tachycardia* or ventricular arrhythmia* or ventricular fibrillation)).tw.
5. (multiple adj3 (ventricular tachycardia* or ventricular arrhythmia* or ventricular fibrillation)).tw.
6. (recurrent adj3 (ventricular tachycardia* or ventricular arrhythmia* or ventricular fibrillation)).tw.
7. (cluster* adj3 (ventricular tachycardia* or ventricular arrhythmia* or ventricular fibrillation)).tw.
8. or/1-7
9. Catheter Ablation/
10. ablation.tw.
11. 9 or 10
12. 8 and 11

**KQ 9 (NOACs for AF after CABG)**
1. Atrial Fibrillation/
2. atrial fibrillation.tw.
3. AF.tw.
4. auricular fibrillation.tw.
5. or/1-4
6. exp Coronary Artery Bypass/
7. coronary artery bypass.tw.
8. bypass surgery.tw.
9. bypass graft*.tw.
10. CABG.tw.
11. or/6-10
12. Anticoagulants/
14. NOAC*.tw.
15. oral anticoagulant*.tw.
16. dabigatran.tw.
17. rivaroxaban.tw.
18. apixaban.tw.
19. edoxaban.tw.
20. or/12-19
21. or/13-19
22. 5 and 11 and 20
23. 5 and 11 and 21

KQ 10 (surgical ablation for AF)
1. Heart atrium Fibrillation/
2. atrial fibrillation.tw.
3. AF.tw.
4. auricular fibrillation.tw.
5. or/1-4
6. Catheter Ablation/
7. ablation.tw.
8. Cryosurgery/
9. Cryoablation/
10. cryoablation.tw.
11. MAZE.tw.
12. or/6-11
13. exp Heart Surgery/
14. Cardiovascular Surgery/
15. su.fs.
16. cardiac surgery.tw.
17. heart surgery.tw.
KQ 11 (psychosocial interventions)
1. exp Psychotherapy/
2. (cognitive adj3 therap*).tw.
3. (behavior adj3 therap*).tw.
4. Mindfulness/
5. mindfulness.tw.
6. (psychosocial adj3 (therap* or intervention* or treatment*)).tw.
7. or/1-6

KQ 12 (Prevalence of depression/anxiety with cardiac arrhythmias)
1. Depression/ep
2. exp Depressive Disorder/ep
3. exp Anxiety Disorders/ep
4. exp Cognition Disorders/ep
5. or/1-4
6. depression.tw.
7. anxiety.tw.
8. (cognitive adj5 impairment).tw.
10. (cognition adj5 impairment).tw.
11. (cognition adj5 decline).tw.
12. or/6-11
13. prevalence/
14. prevalence.tw.
15. 13 or 14
16. 12 and 15
17. 5 or 16