

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. arrhythmi*.tw.
5. (antiarrhythmi* or anti-arrhythmi*).tw.
6. bradycard*.tw.
7. tachycard*.tw.
8. defibrill*.tw.
9. fibrillat*.tw.

10. or/1-9

Scope of searches for SR/MA, RCTs, observational studies (OBS), no filter (NOF) and economics searches

KQ	Type of studies	Date range	Initial recall	Sifted result
1	SR/MA	To 19/06/15	137	19
1	RCT	2014-23/12/15	225	14
3	SR/MA	To 03/08/15	34	13
3	Economics	To 03/08/15	47	12
4	NOF	To 26/06/15	81	11
5	SR/MA	2011- 02/07/15	276	20
5	RCT	2014-05/01/16	205	4
5	Economics	To 04/08/15	326	26
6	SR/MA	2006-06/07/15	32	8
6	RCT	2007-16/09/2015	488	0
6	Economics	To 06/07/15	69	8
7	SR/MA	To 08/07/15	41	7
7	RCT	2013-21/10/15	334	19
8	SR/MA	To 08/07/15	1	1
8	NOF	2012-27/10/15	162	9
9	NOF	To 14/07/15	98	3
10	SR/MA	To 09/07/15	150	17
10	RCT	2013-13/11/15	506	10
10	Economics	To 05/08/15	163	4
11	SR/MA	To 12/08/15	325	6
11	NOF	2006-29/10/15	1333	19
12	NOF	2006-10/02/16	965	39

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 (dronedaronone in AF)

1. dronedaronone.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/
13. new oral anticoagulant*.tw.
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.

18. or/13-17

19. 5 and 12 and 18

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.

9. (cognitive adj5 decline).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