Guideline topic:

General comments

Update of SIGN 93 Acute Coronary Syndromes 2007 (Refresh 2013)

Search coverage

Patient searches

The patient search was conducted for all CHD guidelines using the search strategy outlined below in conjunction with the new patient search filter.

Databases searched: ***Medline CINAHL, PsychINFO.***   *Date searched:* **10 Jan 2013**

Total Hits: 3239   *Sifted Results:110*

Systematic Reviews

Databases covered: **Medline + MIP, Cochrane, embase**   *Dates Covered: 2005 – Nov 2013*

Total Hits:7532   *Sifted Result: 120*   *Papers Requested: 72*

RCTs and Obs

Databases covered: **Medline + MIP, CENTRAL, embase**   *Dates covered: See individual questions below.*

Total Hits: 4329   *Sifted Result: 274*   *Papers requested: 48*

Economics

Databases covered: **Medline + MIP, NEED, HEED, embase + Internet**   *Dates covered: 2004 – August 2014*

Total Hits: 2855   *Sifted Result: 106*   *Papers requested: 44*

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.) Systematic review filter used is on the SIGN Web site. RCT filter used is the Cochrane Highly Sensitive Search Strategy: sensitivity and precision maximizing version 2008.

Patient & Generic Stem:

Patient search strategy

1. * Cardiovascular Diseases/
2. Exp * Heart Diseases/
3. 1 or 2

Generic stem

1   acute coronary syndrom$.tw.
2   ACS.tw.
3   exp Myocardial Infarction/
4   myocardial infarct$.tw.
5   exp Angina, Unstable/
6   unstable angina.tw.
7   (unstable adj2 coronary).tw.
8   non-ST-segment elevation.tw.
9   ST-segment elevation.tw.

```
10   (STEMI or non-STEMI or NSTEMI or nonSTEMI).tw.
11   heart attack.tw.
12   (heart adj2 infarct$).tw.
13   ST-elevation.tw.
14   exp Coronary Thrombosis/
15   (coronary adj2 thrombos$).tw.
16   or/1-15
```

Scope of searches for RCTs, observational studies (OBS) and no filter (NOF) searches

KQ	Type of studies	Date range	Initial recall	Sifted result
1	RCT and Obs	2013 – Feb 2015	556	78
2	RCT	2012 – Oct 2014	519	50
3	RCT	2009 – Aug 2014	361	11
4	SR	2005 – Nov 2013	12	12
5	SR	2005 – Nov 2013	8	8
6	SR	2005 – Nov 2013	5	5
7	NoF	2010 – Oct 2014	778	30
8	RCT	2004 – Aug 2014	2047	12
9	RCT	1860 - 2011	374	12
10	SR	2005 – Nov 2013	3	3
11	RCT	2012 - Nov 2014	68	6

Medline Search strategies used for specific key questions:

KQ1

```
17   exp Troponin/
18   troponin*.tw.
19   hs-ctn.tw.
20   or/17-19
```

KQ2 (and 9)

```
17   prasugrel.ti,ab.
18   effient.ti,ab.
19   efient.ti,ab.
20   ticagrelor.ti,ab.
21   brilinta.ti,ab.
22   possia.ti,ab.
23   brilique.ti,ab.
24   clopidogrel.ti,ab.
25   plavix.ti,ab.
26   or/17-25
27   16 and 26
```

KQ3

```
17   *Insulin/
18   (insulin adj focus).tw.
19   (insulin adj glucose).tw.
20   (insulin adj intens$).tw.
21   or/17-20
22   16 and 21
23   limit 22 to (comment or editorial or letter or news)
24   22 not 23
25   limit 24 to yr = "2009 -Current"
26   limit 25 to english language
```

KQ7

17   exp Thrombectomy/
18   thrombectomy.tw.
19   (thromb$ adj2 aspirat$).tw.
20   (thromb$ adj2 removal).tw.
21   (thromb$ adj2 burden).tw.
22   or/17-21
23   16 and 22
24   limit 23 to (english language and yr = "2010 -Current")

KQ8

17   percutaneous coronary intervention/
18   angioplasty, balloon, coronary/
19   percutaneous coronary intervention.tw.
20   PCI.tw.
21   PCTA.tw.
22   angioplasty.tw.
23   CABG.tw.
24   Coronary Artery Bypass/
25   coronary artery bypass graft$.tw.
26   or/17-22
27   or/23-25
28   16 and 26 and 27
29   limit 28 to (comment or editorial or letter or news)
30   28 not 29
31   limit 30 to english language
32   limit 31 to yr = "2004 -Current"

KQ9

Notes 2012-Oct 2014 covered by KQ2 search. So only prasugrel & ticagrelor up to 2011 done for this search to cover missing time period.

17   prasugrel.ti,ab.
18   effient.ti,ab.
19   efient.ti,ab.
20   ticagrelor.ti,ab.
21   brilinta.ti,ab.
22   possia.ti,ab.
23   brilique.ti,ab.
24   or/17-23
25   16 and 24
26   limit 25 to (english language and yr = "1860 - 2011")

KQ11

17   Intra-Aortic Balloon Pumping/
18   Counterpulsation/
19   intraaortic balloon counterpulsation.ti,ab.
20   intra-aortic balloon counterpulsation.ti,ab.
21   IABC.ti,ab.
22   IABP.ti,ab.
23   or/17-22

24   16 and 23
25   limit 35 to (english language and yr = "2012 -Current")