

## Guideline topic: Asthma

### Search coverage

#### Guidelines

##### Websites searched:

NICE: 2 results

GIN: 3 results

Clearinghouse: 1 result

Total hits: 6

#### Systematic reviews

KQ	Databases searched	Search dates
All	Cochrane SR, DARE, HTA, Medline, Medline in Process, Embase, Cinahl	28/01/2015
123	Medline, Medline in process, Cochrane SR, DARE, HTA, Cinahl	07/05/2015

#### RCTs

KQ	Databases searched	Search dates
All	Cochrane SR, DARE, HTA, Medline, Medline in Process, Embase, Cinahl	28/01/2015

#### Observational studies/ Searches without filter

KQ	Databases searched	Search dates
115-119	Medline, Medline in Process, HMIC	23/04/2015
79	Medline, Medline in Process	19/05/2015
132	Medline, Medline in Process, Embase	27/05/2015
80&81	Medline, Medline in Process, Embase	10/06/2015
89&93	Medline, Medline in Process	26/06/2015
131	Medline, Medline in process, Embase	10/06/2015
135&135a	Medline, Medline in process, Cochrane library, Cinahl	25/06/2015
128	Medline, Medline in process Cochrane library, Cinahl, Embase	28/01/2015
24	Medline, Medline in process, Cinahl	05/10/2015

### 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:

Asthma/  
Asthma\*.tw  
1 or 2

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

KQ	Date of search	Type of studies	Date range	Initial recall	Sifted result
All	28/01/15	Systematic reviews & all study designs for diagnosis	2011-15	14,919	1,254
115-9	23/04/15	OBS	2011-15	211	66
123	23/04/15 & 24/04/15	Systematic reviews	2005-15	739	30
79	19/05/15	NoF	2008-15	1391	7
132	27/05/15	NoF	Inception-2015	372	32
80	10/06/15	OBS	2011-2015	11	0
81	10/06/15	OBS	2011-2015	151	13
131	10/06/15	NoF	2011-2015	1070	26
135&135A	25/06/15	NoF	2011-2015	1303	74
89&93	26/06/15	OBS	2011-15	1060	42

#### Medline Search strategies used for specific key questions:

##### KQ24 (bariatric weight loss)

- 1 exp Asthma/
- 2 asthma\*.tw.
- 3 1 or 2
- 4 bariatric surgery/ or gastric bypass/ or gastroplasty/ or jejunioileal bypass/

- 5 stomach stapling.tw.
- 6 bariatric\*.tw.
- 7 metabolic surger\*.tw.
- 8 "roux en y".tw.
- 9 (gastroileal bypass\* or gastro-ileal bypass\* or gastroileac bypass\*).tw.
- 10 (gastrojejunostom\* or gastro jejunostom\*).tw.
- 11 intestinal bypass\*.tw.
- 12 (ileojejunal bypass\* or ileo jejunal bypass\*).tw.
- 13 or/4-12
- 14 3 and 13

### **KQ79 (intensive care, paediatrics)**

- 15 exp Acute Disease/
- 16 exp asthma/
- 17 1 and 2
- 18 status asthmaticus/
- 19 ((acute or crisis or critical or emergency or shock or life threat\$ or near fatal or fatal\$ or uncontrolled or brittle) adj3 asthma\$).tw.
- 20 status asthmaticus.tw.
- 21 or/3-6
- 22 critical illness/
- 23 hospitalisation/ or patient admission/
- 24 exp emergency service, hospital/
- 25 emergency medicine/
- 26 exp emergency medical services/
- 27 critical care/ or intensive care/
- 28 (critical\$ or acute or crisis or emergency or life threat\$ or near fatal or fatal\$ or intensive or uncontrolled).ti.
- 29 or/8-14
- 30 asthma.tw.
- 31 exp asthma/
- 32 16 or 17
- 33 15 and 18
- 34 7 or 19
- 35 limit 20 to ("all infant (birth to 23 months)" or "all child (0 to 18 years)" or "newborn infant (birth to 1 month)" or "infant (1 to 23 months)" or "preschool child (2 to 5 years)" or "child (6 to 12 years)" or "adolescent (13 to 18 years)") (5802)

### **KQ80 (IPPV)**

1. exp Asthma/
2. asthma\*.tw.
3. 1 or 2
4. Intermittent Positive-Pressure Ventilation/
5. ippv.tw.
6. ((intermittent or inspiratory or biphasic or bi-phasic) adj3 positive pressure ventilation).tw.
7. or/4-6

8. 3 and 7

### **KQ81 (NPPV)**

1. exp Asthma/
2. asthma\*.tw.
3. 1 or 2
4. exp Positive-Pressure Respiration/
5. Noninvasive Ventilation/
6. nppv.tw.
7. (non-invasive positive pressure ventilation or noninvasive positive pressure ventilation).tw.
8. (non-invasive ventilation or noninvasive ventilation).tw.
9. positive pressure ventilation.tw.
10. positive pressure respiration.tw.
11. or/4-10
12. 3 and 11

### **KQ89&93 (difficult asthma)**

1. ((difficult or severe or uncontrolled or persistent or poor\* control\*) adj3 asthma\*).tw.
2. therapy resistant asthma.tw.
3. treatment resistant asthma.tw.
4. (hard to control adj2 asthma\*).tw.
5. or/1-4

### **KQ115-119 (occupational asthma)**

- 1 Asthma, occupational
- 2 ((occupation\* or work\* or employ\* or job\* or industr\*) adj5 asthma\*).tw
- 3 1 or 2

### **KQ123 (telemedicine)**

- 1 exp Telemedicine/
- 2 (telehealth\* or tele-health\* or telemedicine\* or tele-medicine\*).ti,ab.
- 3 (telepharmac\* or tele-pharmac\*).ti,ab.
- 4 Telenursing/
- 5 (telenurs\* or tele-nurs\*).ti,ab.
- 6 Remote Consultation/
- 7 (teleconsultation\* or tele-consultation\* or telecare\* or tele-care\*).ti,ab.
- 8 ("remote consult\*" or "remote care").ti,ab.
- 9 (telemanagement or tele-management).ti,ab.
- 10 (tele-homecare or telehomecare).ti,ab.
- 11 (tele-monitor\* or telemonitor\* or tele-support or telesupport).ti,ab.
- 12 telematic\*.ti,ab.
- 13 exp Telecommunications/
- 14 telecommunication\*.ti,ab.

- 15 exp Internet/
- 16 (internet\* or computer\* or web\* or interactive\*).ti,ab.
- 17 (telephon\* or phon\* or SMS or wireless or bluetooth or messag\* or text\*).ti,ab.
- 18 ((app\* or mobile applications) adj2 (phone\* or mobile\* or device\*)).ti,ab.
- 19 (mobile communication or mobile technolog\* or mobile devic\*).ti,ab.
- 20 (cell\* phone or mobile phone or iphone or smartphone or smart-phone).ti,ab.
- 21 (videoconferenc\* or teleconferenc\*).ti,ab.
- 22 video.ti,ab.
- 23 electronic mail/ or text messaging/
- 24 (email\* or e-mail\*).ti,ab.
- 25 (ehealth or e-health or mhealth or m-health or "mobile health\*" or mcare or m-care).ti,ab.
- 26 (computer mediated therapy or computer assisted therapy).ti,ab.
- 27 or/1-26

### **KQ128 (diagnosis)**

- 1 \*Asthma/
- 2 asthma.ti,ab.
- 3 1 or 2
- 4 exp \*Diagnosis/
- 5 Critical Pathways/
- 6 algorithms/
- 7 exp Primary Health Care/
- 8 (diagnosis or diagnostic).tw.
- 9 ((clinical or critical or care) adj2 path\*).tw.
- 10 algorithm\*.tw.
- 11 (clinical adj2 (approach\* or strateg\* or process\* or procedur\*)).tw.
- 12 or/4-11
- 13 3 and 12

### **KQ131 (second-line therapy)**

1. status asthmaticus.tw.
2. acute asthma\*.tw.
3. asthma\* crisis.tw.
4. asthma\* crises.tw.
5. (acute exacerbation adj3 asthma\*).tw.
6. life threatening asthma\*.tw.
7. or/1-6

### **KQ132 (IV bronchodilators in children)**

- 1 exp Asthma/
- 2 asthma.tw.
- 3 1 or 2
- 4 (magnesium adj (sulphate or sulfate)).tw.
- 5 MgSO4.tw.
- 6 (salbutamol or albuterol or ventolin).tw.
- 7 adrenergic beta-2 receptor agonists/
- 8 (terbutaline or brethine or bricanyl or brethaire or terbulin).tw.

- 9 (aminophylline or phyllocontin or truphylline or minomal).tw.
- 10 (epinephrine or adrenalin\$).tw.
- 11 or/4-10
- 12 administration, intravenous/ or infusions, intravenous/ or injections, intravenous/
- 13 (intra-venous or intravenous).tw.
- 14 12 or 13
- 15 3 and 11 and 14
- 16 limit 15 to ("all infant (birth to 23 months)" or "all child (0 to 18 years)" or "newborn infant (birth to 1 month)" or "infant (1 to 23 months)" or "preschool child (2 to 5 years)" or "child (6 to 12 years)" or "adolescent (13 to 18 years)")

### **135&135A (adherence)**

1. exp Patient Compliance/
2. Treatment Refusal/
3. (patient\* adj2 (adherence or "non adherence" or compliance or "non compliance" or "co-operation" or cooperation or concordance)).tw.
4. (medication adj (adherence or "non adherence" or compliance or "non compliance" or concordance or persistence)).tw.
5. (medicine\* adj (adherence or "non adherence" or compliance or "non compliance" or concordance or persistence)).tw.
6. (drug adj (adherence or "non adherence" or compliance or "non compliance" or concordance or persistence)).tw.
7. (regimen adj (adherence or "non adherence" or compliance or "non compliance" or concordance or persistence)).tw.
8. (treatment adj (adherence or "non adherence" or compliance or "non compliance" or concordance or persistence)).tw.
9. (therap\* adj (adherence or "non adherence" or compliance or "non compliance" or concordance or persistence)).tw.
10. ((medication or medicine\* or drug or regimen or treatment or therap\*) adj refus\*).tw.
11. or/1-10
12. exp Asthma/
13. asthma\*.tw.
14. 12 or 13
15. 11 and 14