

Asthma Living Guideline Search Narrative - Diagnosis

13 March 2003

Searches were carried out by the HTBS. The strategies are included below.

Searches were carried out on the key questions.

1. How do we diagnose asthma in pre-school children? What are the key features? What alternatives need to be considered?
2. How do we diagnose asthma in school children? What are the key features? What alternatives need to be considered?
3. How do we diagnose asthma in adults? What objective tests are most useful?
4. How important is it to differentiate asthma from other causes of cough, wheeze or breathlessness.
5. What is the natural history of asthma, with and without treatment?
6. What are the effects of puberty (development of sexual maturity) on the expression of asthma in the population and in the affected individual?

Ovid multibase search: - Diagnosis by age groups

MEDLINE: 1966 to March Week 1 2003

EMBASE: 1980 to 2003 Week 10

Database: EMBASE, MEDLINE

Search Strategy:

-
- 1 exp asthma/di use mesz (7817)
 - 2 asthma.tw. use mesz (51659)
 - 3 diagnos\$.tw. use mesz (756609)
 - 4 2 and 3 (5831)
 - 5 1 or 4 (11717)
 - 6 preschool.tw. use mesz (7366)
 - 7 pre school.tw. use mesz (1695)
 - 8 infant\$3.tw. use mesz (164840)
 - 9 or/6-8 (172983)
 - 10 paediatric\$.tw. use mesz (14226)
 - 11 pediatric\$.tw. use mesz (71337)
 - 12 or/10-11 (84972)
 - 13 9 or 12 (249005)
 - 14 13 and 5 (840)
 - 15 limit 5 to (all infant <birth to 23 months> or infant <1 to 23 months> or newborn infant <birth to 1 month> or preschool child <2 to 5 years>) [Limit not valid in: EMBASE; records were retained] (2154)
 - 16 14 or 15 (2400)
 - 17 child\$.tw. use mesz (482535)
 - 18 adolesc\$.tw. use mesz (65434)
 - 19 12 or 17 or 18 (563163)
 - 20 19 and 5 (3194)
 - 21 limit 5 to (adolescent <13 to 18 years> or child <6 to 12 years>) [Limit not valid in: EMBASE; records were retained] (4899)
 - 22 20 or 21 (5370)
 - 23 5 not (16 or 22) (6194)
 - 24 exp asthma/di use emez (5786)
 - 25 asthma.tw. use emez (43435)

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26 diagnos\$.tw. use emez (565193)
 27 25 and 26 (5200)
 28 24 or 27 (9450)
 29 preschool.tw. use emez (3846)
 30 pre school.tw. use emez (959)
 31 infant\$3.tw. use emez (112341)
 32 or/29-31 (116509)
 33 paediatric\$.tw. use emez (12519)
 34 pediatric\$.tw. use emez (52706)
 35 or/33-34 (64861)
 36 32 or 35 (174021)
 37 limit 28 to (infant <to one year> or preschool child <1 to 6 years>) [Limit not valid in:
 MEDLINE; records were retained] (603)
 38 28 and 36 (706)
 39 37 or 38 (1057)
 40 child\$.tw. use emez (318159)
 41 adolesc\$.tw. use emez (47076)
 42 35 or 40 or 41 (372944)
 43 42 and 28 (2541)
 44 limit 28 to (adolescent <13 to 17 years> or child <unspecified age> or school child <7 to 12
 years>) [Limit not valid in: MEDLINE; records were retained] (2651)
 45 43 or 44 (3317)
 46 28 not (39 or 45) (6060)
 47 Clinical Trial/ use emez (255479)
 48 Randomized Controlled Trial/ use emez (72444)
 49 exp RANDOMIZATION/ use emez (5681)
 50 Single Blind Procedure/ use emez (4062)
 51 Double Blind Procedure/ use emez (46918)
 52 Crossover Procedure/ use emez (13344)
 53 PLACEBO/ use emez (62038)
 54 randomi?ed controlled trial\$.tw. use emez (11250)
 55 rct.tw. use emez (734)
 56 random allocation.tw. use emez (440)
 57 randomly allocated.tw. use emez (6551)
 58 allocated randomly.tw. use emez (1068)
 59 (allocated adj2 random).tw. use emez (542)
 60 single blind\$.tw. use emez (4978)
 61 double blind\$.tw. use emez (60184)
 62 ((treble or triple) adj blind\$.tw. use emez (81)
 63 placebo\$.tw. use emez (73177)
 64 Prospective Study/ use emez (28011)
 65 or/47-64 (365149)
 66 Case Study/ use emez (3014)
 67 case report.tw. use emez (75123)
 68 abstract report/ use emez or letter/ use emez (320342)
 69 or/66-68 (397432)
 70 65 not 69 (352621)
 71 Randomized Controlled Trials/ use mesz (26970)
 72 randomized controlled trial.pt. use mesz (170624)
 73 Random Allocation/ use mesz (47427)
 74 Double-Blind Method/ use mesz (72143)
 75 Single-Blind Method/ use mesz (7012)
 76 clinical trial.pt. use mesz (349653)
 77 exp Clinical Trials/ use mesz (141365)
 78 or/71-77 (442100)
 79 (clinic\$ adj trial\$1).tw. use mesz (68283)
 80 ((singl\$ or doubl\$ or treb\$ or tripl\$) adj (blind\$3 or mask\$3)).tw. use mesz (68850)

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81 PLACEBOS/ use mesz (22306)
82 placebo\$.tw. use mesz (76365)
83 randomly allocated.tw. use mesz (6972)
84 (allocated adj2 random).tw. use mesz (598)
85 or/79-84 (177369)
86 78 or 85 (486233)
87 case report.tw. use mesz (91412)
88 letter.pt. use mesz (493714)
89 historical article.pt. use mesz (200869)
90 review of reported cases.pt. use mesz (46451)
91 review, multicase.pt. use mesz (7250)
92 or/87-91 (824087)
93 86 not 92 (469872)
94 Clinical study/ use emez (8650)
95 Case control study/ use emez (7852)
96 Family study/ use emez (5258)
97 Longitudinal study/ use emez (6761)
98 Retrospective study/ use emez (33623)
99 Prospective study/ use emez (28011)
100 Randomized controlled trials/ use emez (72444)
101 99 not 100 (24720)
102 Cohort analysis/ use emez (13698)
103 (Cohort adj (study or studies)).tw. use emez (14249)
104 (Case control adj (study or studies)).tw. use emez (18067)
105 (follow up adj (study or studies)).tw. use emez (16266)
106 (observational adj (study or studies)).tw. use emez (6072)
107 (epidemiologic\$ adj (study or studies)).tw. use emez (21568)
108 (cross sectional adj (study or studies)).tw. use emez (10501)
109 or/94-98,101-108 (161920)
110 Epidemiologic studies/ use mesz (1581)
111 exp case control studies/ use mesz (223559)
112 exp cohort studies/ use mesz (449551)
113 Case control.tw. use mesz (23479)
114 (cohort adj (study or studies)).tw. use mesz (15361)
115 Cohort analy\$.tw. use mesz (1102)
116 (Follow up adj (study or studies)).tw. use mesz (20657)
117 (observational adj (study or studies)).tw. use mesz (6426)
118 Longitudinal.tw. use mesz (50484)
119 Retrospective.tw. use mesz (85938)
120 Cross sectional.tw. use mesz (40103)
121 Cross-sectional studies/ use mesz (45488)
122 or/110-121 (742955)
123 16 or 22 (5523)
124 123 and 93 (504)
125 123 and 122 (1248)
126 23 and 93 (451)
127 23 and 122 (689)
128 39 or 45 (3390)
129 128 and 70 (404)
130 128 and 109 (456)
131 46 and 70 (575)
132 46 and 109 (328)
133 or/124-125,129-130 (2402)
134 limit 133 to yr= 2001-2004 (625)
135 remove duplicates from 134 (533)
136 or/126-127,131-132 (1912)
137 limit 136 to yr= 2001-2004 (434)

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138 remove duplicates from 137 (382)

Ovid multifile search: Natural history
MEDLINE: 1966 to March Week 1 2003
EMBASE: 1980 to 2003 Week 10

Database: EMBASE, MEDLINE
Search Strategy:

-
- 1 exp asthma/ (117502)
 - 2 asthma\$.tw. (108232)
 - 3 1 or 2 (135620)
 - 4 natural history.tw. (32510)
 - 5 3 and 4 (574)
 - 6 Clinical Trial/ use emez (255479)
 - 7 Randomized Controlled Trial/ use emez (72444)
 - 8 exp RANDOMIZATION/ use emez (5681)
 - 9 Single Blind Procedure/ use emez (4062)
 - 10 Double Blind Procedure/ use emez (46918)
 - 11 Crossover Procedure/ use emez (13344)
 - 12 PLACEBO/ use emez (62038)
 - 13 randomi?ed controlled trial\$.tw. use emez (11250)
 - 14 rct.tw. use emez (734)
 - 15 random allocation.tw. use emez (440)
 - 16 randomly allocated.tw. use emez (6551)
 - 17 allocated randomly.tw. use emez (1068)
 - 18 (allocated adj2 random).tw. use emez (542)
 - 19 single blind\$.tw. use emez (4978)
 - 20 double blind\$.tw. use emez (60184)
 - 21 ((treble or triple) adj blind\$).tw. use emez (81)
 - 22 placebo\$.tw. use emez (73177)
 - 23 Prospective Study/ use emez (28011)
 - 24 or/6-23 (365149)
 - 25 Case Study/ use emez (3014)
 - 26 case report.tw. use emez (75123)
 - 27 abstract report/ use emez or letter/ use emez (320342)
 - 28 or/25-27 (397432)
 - 29 24 not 28 (352621)
 - 30 Randomized Controlled Trials/ use mesz (26970)
 - 31 randomized controlled trial.pt. use mesz (170624)
 - 32 Random Allocation/ use mesz (47427)
 - 33 Double-Blind Method/ use mesz (72143)
 - 34 Single-Blind Method/ use mesz (7012)
 - 35 clinical trial.pt. use mesz (349653)
 - 36 exp Clinical Trials/ use mesz (141365)
 - 37 or/30-36 (442100)
 - 38 (clinic\$ adj trial\$1).tw. use mesz (68283)
 - 39 ((singl\$ or doubl\$ or treb\$ or tripl\$) adj (blind\$3 or mask\$3)).tw. use mesz (68850)
 - 40 PLACEBOS/ use mesz (22306)
 - 41 placebo\$.tw. use mesz (76365)
 - 42 randomly allocated.tw. use mesz (6972)
 - 43 (allocated adj2 random).tw. use mesz (598)
 - 44 or/38-43 (177369)
 - 45 37 or 44 (486233)
 - 46 case report.tw. use mesz (91412)
 - 47 letter.pt. use mesz (493714)

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48 historical article.pt. use mesz (200869)
 49 review of reported cases.pt. use mesz (46451)
 50 review, multicase.pt. use mesz (7250)
 51 or/46-50 (824087)
 52 45 not 51 (469872)
 53 Clinical study/ use emez (8650)
 54 Case control study/ use emez (7852)
 55 Family study/ use emez (5258)
 56 Longitudinal study/ use emez (6761)
 57 Retrospective study/ use emez (33623)
 58 Prospective study/ use emez (28011)
 59 Randomized controlled trials/ use emez (72444)
 60 58 not 59 (24720)
 61 Cohort analysis/ use emez (13698)
 62 (Cohort adj (study or studies)).tw. use emez (14249)
 63 (Case control adj (study or studies)).tw. use emez (18067)
 64 (follow up adj (study or studies)).tw. use emez (16266)
 65 (observational adj (study or studies)).tw. use emez (6072)
 66 (epidemiologic\$ adj (study or studies)).tw. use emez (21568)
 67 (cross sectional adj (study or studies)).tw. use emez (10501)
 68 or/53-57,60-67 (161920)
 69 Epidemiologic studies/ use mesz (1581)
 70 exp case control studies/ use mesz (223559)
 71 exp cohort studies/ use mesz (449551)
 72 Case control.tw. use mesz (23479)
 73 (cohort adj (study or studies)).tw. use mesz (15361)
 74 Cohort analy\$.tw. use mesz (1102)
 75 (Follow up adj (study or studies)).tw. use mesz (20657)
 76 (observational adj (study or studies)).tw. use mesz (6426)
 77 Longitudinal.tw. use mesz (50484)
 78 Retrospective.tw. use mesz (85938)
 79 Cross sectional.tw. use mesz (40103)
 80 Cross-sectional studies/ use mesz (45488)
 81 or/69-80 (742955)
 82 5 and 52 (22)
 83 5 and 29 (37)
 84 5 and 81 (106)
 85 5 and 68 (59)
 86 or/82-85 (199)
 87 limit 86 to yr=2001-2004 (58)
 88 remove duplicates from 87 (42)

Ovid multifile search: Puberty
MEDLINE: 1966 to March Week 1 2003
 EMBASE: 1980 to 2003 Week 10

Database: EMBASE, MEDLINE
 Search Strategy:

1 exp asthma/ use mesz (61041)
 2 asthma\$.tw. (108232)
 3 1 or 2 (121460)
 4 exp puberty/ use mesz (9969)
 5 sexual maturity.tw. (1792)
 6 exp estrogens/ use mesz (88896)
 7 female sex hormone\$.tw. (964)
 8 or/4-7 (100222)

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9 3 and 8 (106)
 10 exp asthma/ use emez (56461)
 11 asthma\$.tw. (108232)
 12 10 or 11 (122392)
 13 exp puberty/ use emez (8488)
 14 sexual maturity.tw. (1792)
 15 exp estrogens/ use emez (83294)
 16 female sex hormone\$.tw. (964)
 17 or/13-16 (92851)
 18 12 and 17 (268)
 19 Clinical Trial/ use emez (255479)
 20 Randomized Controlled Trial/ use emez (72444)
 21 exp RANDOMIZATION/ use emez (5681)
 22 Single Blind Procedure/ use emez (4062)
 23 Double Blind Procedure/ use emez (46918)
 24 Crossover Procedure/ use emez (13344)
 25 PLACEBO/ use emez (62038)
 26 randomi?ed controlled trial\$.tw. use emez (11250)
 27 rct.tw. use emez (734)
 28 random allocation.tw. use emez (440)
 29 randomly allocated.tw. use emez (6551)
 30 allocated randomly.tw. use emez (1068)
 31 (allocated adj2 random).tw. use emez (542)
 32 single blind\$.tw. use emez (4978)
 33 double blind\$.tw. use emez (60184)
 34 ((treble or triple) adj blind\$.tw. use emez (81)
 35 placebo\$.tw. use emez (73177)
 36 Prospective Study/ use emez (28011)
 37 or/19-36 (365149)
 38 Case Study/ use emez (3014)
 39 case report.tw. use emez (75123)
 40 abstract report/ use emez or letter/ use emez (320342)
 41 or/38-40 (397432)
 42 37 not 41 (352621)
 43 Randomized Controlled Trials/ use mesz (26970)
 44 randomized controlled trial.pt. use mesz (170624)
 45 Random Allocation/ use mesz (47427)
 46 Double-Blind Method/ use mesz (72143)
 47 Single-Blind Method/ use mesz (7012)
 48 clinical trial.pt. use mesz (349653)
 49 exp Clinical Trials/ use mesz (141365)
 50 or/43-49 (442100)
 51 (clinic\$ adj trial\$1).tw. use mesz (68283)
 52 ((singl\$ or doubl\$ or treb\$ or tripl\$) adj (blind\$3 or mask\$3)).tw. use mesz (68850)
 53 PLACEBOS/ use mesz (22306)
 54 placebo\$.tw. use mesz (76365)
 55 randomly allocated.tw. use mesz (6972)
 56 (allocated adj2 random).tw. use mesz (598)
 57 or/51-56 (177369)
 58 50 or 57 (486233)
 59 case report.tw. use mesz (91412)
 60 letter.pt. use mesz (493714)
 61 historical article.pt. use mesz (200869)
 62 review of reported cases.pt. use mesz (46451)
 63 review, multicase.pt. use mesz (7250)
 64 or/59-63 (824087)
 65 58 not 64 (469872)

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66 Clinical study/ use emez (8650)
67 Case control study/ use emez (7852)
68 Family study/ use emez (5258)
69 Longitudinal study/ use emez (6761)
70 Retrospective study/ use emez (33623)
71 Prospective study/ use emez (28011)
72 Randomized controlled trials/ use emez (72444)
73 71 not 72 (24720)
74 Cohort analysis/ use emez (13698)
75 (Cohort adj (study or studies)).tw. use emez (14249)
76 (Case control adj (study or studies)).tw. use emez (18067)
77 (follow up adj (study or studies)).tw. use emez (16266)
78 (observational adj (study or studies)).tw. use emez (6072)
79 (epidemiologic\$ adj (study or studies)).tw. use emez (21568)
80 (cross sectional adj (study or studies)).tw. use emez (10501)
81 or/66-70,73-80 (161920)
82 Epidemiologic studies/ use mesz (1581)
83 exp case control studies/ use mesz (223559)
84 exp cohort studies/ use mesz (449551)
85 Case control.tw. use mesz (23479)
86 (cohort adj (study or studies)).tw. use mesz (15361)
87 Cohort analy\$.tw. use mesz (1102)
88 (Follow up adj (study or studies)).tw. use mesz (20657)
89 (observational adj (study or studies)).tw. use mesz (6426)
90 Longitudinal.tw. use mesz (50484)
91 Retrospective.tw. use mesz (85938)
92 Cross sectional.tw. use mesz (40103)
93 Cross-sectional studies/ use mesz (45488)
94 or/82-93 (742955)
95 9 and 65 (9)
96 9 and 94 (22)
97 18 and 42 (54)
98 18 and 81 (28)
99 or/95-98 (102)
100 limit 99 to yr=2001-2004 (30)
101 remove duplicates from 100 (27)

Ovid multifile search: Puberty
MEDLINE: 1966 to March Week 1 2003
EMBASE: 1980 to 2003 Week 10

Database: EMBASE, MEDLINE
Search Strategy:

1 exp asthma/ use mesz (61041)
2 asthma\$.tw. (108232)
3 1 or 2 (121460)
4 exp puberty/ use mesz (9969)
5 sex\$ matur\$.tw. (7307)
6 exp sex maturation/ use mesz (6900)
7 or/4-6 (21685)
8 3 and 7 (47)
9 exp asthma/ use emez (56461)
10 asthma.tw. (95094)
11 1 or 2 (121460)

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- 12 exp puberty/ use emez (8488)
- 13 sex\$ matur\$.tw. (7307)
- 14 exp sexual maturation/ use emez (1253)
- 15 or/12-14 (15636)
- 16 11 and 15 (71)
- 17 8 or 16 (105)
- 18 limit 17 to yr=2001-2004 (22)
- 19 remove duplicates from 18 (20)
- 20 from 19 keep 1-20 (20)

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