1 2	NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE
3	Guideline scope
4	Asthma: The management of asthma
5	Short title
6	Asthma management
7	Topic
8	The Department of Health in England has asked NICE to develop a clinical guideline on the management of asthma.
10	This guideline will be used to update the NICE quality standard for asthma.
11	Who the guideline is for
12	People using services, families and carers and the public.
13	Healthcare professionals in primary care.
14	 Healthcare professionals in secondary care.
15	Healthcare professionals in tertiary care.
16	Healthcare professionals in community care.
17	Local authorities.
18	Commissioners of asthma clinics.
19	Providers of asthma clinics.
20	It may also be relevant for:
21	Private sector or voluntary organisations commissioned to provide services for the
22	NHS or local authorities.
23	People working in related services.
24	NICE guidelines cover health and care in England. Decisions on how they apply in
25	other UK countries are made by ministers in the Welsh Government, Scottish
26	Government, and Northern Ireland Executive.

27 Equality considerations

- 28 NICE has carried out <u>an equality impact assessment</u> [add hyperlink in final version]
- during scoping. The assessment:
- lists equality issues identified, and how they have been addressed
- explains why any groups are excluded from the scope, if this was done.

32 1 What the guideline is about

1.1 Who is the focus?

34 Groups that will be covered

- Adults, children and young people with a diagnosis of asthma.
- Specific consideration will be given to subgroups based on age, with
- proposed banding of children under 5 years; children aged 5-16; and adults
- and young people over 16 years of age. However, the age division may be
- adjusted for specific reviews according to the most appropriate age
- 40 groupings to make different recommendations for the intervention in
- 41 question.

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42 **1.2 Settings**

43 Settings that will be covered

- All primary, secondary, tertiary and community care settings where NHS
- healthcare is provided or commissioned.

1.3 Activities, services or aspects of care

47 Key areas that will be covered

- 48 1 Pharmacological management of chronic asthma.
- 49 Note that guideline recommendations will normally fall within licensed
- indications; exceptionally, and only if clearly supported by evidence, use
- outside a licensed indication may be recommended. The guideline will assume
- 52 that prescribers will use a medicine's summary of product characteristics to
- inform decisions made with individual patients.
- 54 2 Stratification of asthma care according to exacerbation risk.

56	Are	eas that will not be covered
55	3	Self-management (personal asthma action plan).

- 57 1 Non-pharmacological management of chronic asthma
- 58 2 Biologics (for example Omalizumab)
- 59 3 Comparison of drug-delivery devices (inhalers)
- 60 4 Thermoplasty
- 61 5 Management of acute asthma attacks
- 62 6 Service delivery for acute asthma attacks

63 1.4 Economic aspects

- We will take economic aspects into account when making recommendations. We will
- develop an economic plan that states for each review question (or key area in the
- scope) whether economic considerations are relevant, and if so whether this is an
- area that should be prioritised for economic modelling and analysis. We will review
- the economic evidence and carry out economic analyses, using an NHS and PSS
- 69 perspective, as appropriate.

70 1.5 Key issues and questions

- 71 While writing this scope, we have identified the following key issues, and key
- 72 questions related to them:

73 Pharmacological management of chronic asthma

74 People with asthma who are treatment-naive

- 75 1 What is the most clinically and cost effective drug or combination of drugs for
- the management of people with asthma who are not currently taking regular
- 77 preventative treatment for asthma?

78 People with asthma currently on inhaled corticosteroids only (BTS/SIGN

- 79 **step 2)**
- 80 1 What is the most clinically and cost effective sequence in which to introduce
- additional drugs or combination of drugs for the management of people with
- 82 asthma who are currently taking inhaled corticosteroids only (BTS/SIGN step 2)
- when this fails to provide adequate control?

84	Aan	erence to pnarmacological therapy			
85	1	What are the most clinically and cost effective strategies to improve medicines			
86		adherence in people with asthma?			
87	[Note to stakeholders: Please provide suggestions of the interventions to include the				
88	are o	designed to improve adherence to asthma pharmacological therapy.]			
89	Rev	iew of pharmacological therapy			
90	1	What are the clinical features (symptoms and/or objective measurements)			
91		which indicate that an adjustment in treatment is appropriate?			
92	Indi	cations for referral to tertiary care for severe, difficult to treat asthma			
93	1	What are the indications for referral to tertiary care for severe, difficult to treat			
94		asthma?			
95	Stra	tification of asthma care according to exacerbation risk			
96	2	What is the clinical and cost effectiveness of delivering asthma care stratified			
97		according to risk of exacerbations to improve outcomes for people with			
98		asthma?			
99	Self	-management (personal asthma action plan)			
100	3	What is the clinical and cost effectiveness of self-management plans (personal			
101		asthma action plan) for improving outcomes for people with asthma?			
102	4	Using self-management plans what is the optimal increase in preventer therapy			
103		when control is lost?			
104	The key questions may be used to develop more detailed review questions, which				
105	guid	e the systematic review of the literature.			
106	1.6	Main outcomes			
107	The	main outcomes that will be considered when searching for and assessing the			
108	evid	ence are:			
109	1	Health-related quality of life			
110	2	Asthma control assessed by a validated questionnaire (for example the Asthma			
111		Control Questionnaire)			
112	3	Exacerbations			
113	4	Adverse events			

114	5	Hospital admissions
115	6	Unscheduled healthcare utilisation
116	7	Mortality
117	2	Links with other NICE guidance and NICE Pathways
118	2	.1 NICE guidance
119	N	ICE guidance that will be updated by this guideline
120	•	Quality standard for asthma (2013) NICE quality standard QS25
121	R	elated NICE guidance
122	•	Guidance on the use of inhaler systems (devices) in children under the age of 5
123		years with chronic asthma (2000) NICE technology appraisal guidance TA10
124	•	Inhaled corticosteroids for the treatment of chronic asthma in adults and in
125		children aged 12 years and over (2008) NICE technology appraisal guidance
126		TA138
127	•	Inhaled corticosteroids for the treatment of chronic asthma in children under the
128		age of 12 years (2007) NICE technology appraisal guidance TA131
129	•	Inhaler devices for routine treatment of chronic asthma in older children (aged 5-
130		15 years) (2002) NICE technology appraisal guidance TA38
131	•	Omalizumab for treating severe persistent allergic asthma (2013) NICE
132		technology appraisal guidance TA278
133	•	Bronchial thermoplasty for severe asthma (2012) NICE interventional procedure
134		guidance IPG419
135	•	Measuring fractional exhaled nitric oxide concentration in asthma: NIOX
136		MINO, NIOX VERO and NObreath (2014) NICE diagnostics guidance
137		DG12
138	R	elated NICE advice
139	•	Asthma in adults: beclometasone/formoterol dry powder inhaler (Fostair
140		NEXThaler) (2015) NICE advice ESNM53
141	•	Asthma: beclometasone/formoterol (Fostair) for maintenance and reliever
142		treatment (2013) NICE advice ESNM22
143	•	Asthma: fluticasone furoate/vilanterol (Relvar Ellipta) combination inhaler (2014)
144		NICE advice ESNM34

145	<u>Asthma: fluticasone/formoterol (Flutiform) combination inhaler</u> (2012) NICE advice
146	ESNM3
147	High-dose inhaled corticosteroids in asthma (2015) NICE advice KTT5
148	The Airsonett temperature-controlled laminar airflow device for persistent
149	allergic asthma (2014) NICE advice MIB8
150	NICE guidance about the experience of people using NHS services
151	NICE has produced the following guidance on the experience of people using the
152	NHS. This guideline will not include additional recommendations on these topics
153	unless there are specific issues related to asthma:
154	Patient experience in adult NHS services (2012) NICE guideline CG138
155	Service user experience in adult mental health (2011) NICE guideline CG136
156	Medicines adherence (2009) NICE guideline CG76
157	NICE guidance in development that is closely related to this guideline
158	NICE is currently developing the following guidance that is closely related to this
159	guideline:
160	Asthma diagnosis and monitoring NICE guideline. Publication expected July 2015
161	Acute medical emergencies NICE guideline. Publication expected
162	November 2016.
163	2.2 NICE Pathways
164	When this guideline is published, the recommendations will be added to NICE
165	Pathways. NICE Pathways bring together all related NICE guidance and associated
166	products on a topic in an interactive topic-based flow chart.
167	A draft pathway outline on asthma is included below – the recommendations from
168	this guideline will be added to the 'management' section of the pathway. It will be
169	adapted and more detail added as the recommendations are written during guideline
170	development.
171	The guideline will overlap with the existing NICE guideline on asthma diagnosis and
172	monitoring. The NICE Pathway will integrate the recommendations from both

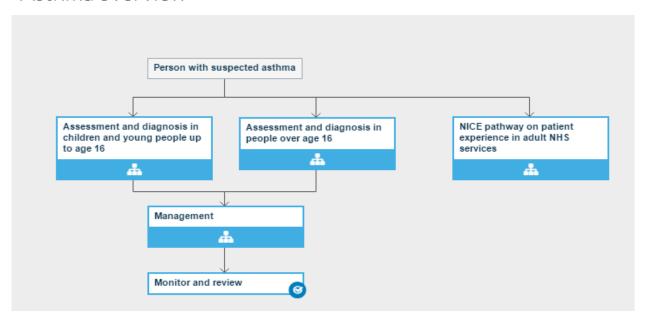
Other relevant NICE guidance included in the NICE pathway on asthma:

guidelines, showing clearly how they fit together.

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- Omalizumab for treating severe persistent allergic asthma. NICE technology
 appraisal guidance 278 (2013)
- Inhaled corticosteroids for the treatment of chronic asthma in adults and in
 children aged 12 years and over. NICE technology appraisal guidance 138 (2008)
- Inhaled corticosteroids for the treatment of chronic asthma in children under the
 age of 12 years. NICE technology appraisal guidance 131 (2008)
- Inhaler devices for routine treatment of chronic asthma in older children (aged 5–
 182 15 years). NICE technology appraisal guidance 38 (2002)
- Guidance on the use of inhaler systems (devices) in children under the age of 5
 years with chronic asthma. NICE technology appraisal guidance 10 (2000)
- Bronchial thermoplasty for severe asthma. NICE interventional procedure
 guidance 419 (2012)
- Measuring fractional exhaled nitric oxide concentration in asthma: NIOX MINO,
 NIOX VERO and Nobreath. NICE diagnostics guidance 12 (2014)
- Asthma quality standard. NICE quality standard 25 (2013)

Asthma overview



3 Context

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3.1 Key facts and figures

Asthma is a chronic disease of the lungs characterised by variable airflow limitation, inflammation and hyperactivity of the airways. It is estimated that between 3.1 million people (QOF 2011/2012) and 5.4 million (Asthma UK) people have asthma in the United Kingdom affecting in the region of 6% of the population.

197	The aims of asthma management are to optimise current control of symptoms and
198	daily activities and prevent future risk of exacerbations including hospital admission
199	and death.
200	Despite available effective treatment, there are data to show that asthma is still
201	poorly controlled. For example, 39% adult women and 30% men, 48% children had
202	experienced an asthma attack in the previous 12 months (Health Survey for England
203	2010) with around 1000 deaths from asthma occurring each year in the UK (RCP
204	NRAD 2014) and is a common cause for hospital admission (54,789 admissions in
205	the UK in 2011/12 Department of Health). There is also some evidence to show that
206	asthma control is worse in certain ethnic groups.
200	detima comi o ne recitam estante greape.
207	This guideline aims to give guidance on cost-effective management of asthma in
208	children and adults to improve control of asthma and minimising future risk of
209	exacerbations.
210	2.2 Current proctice
210	3.2 Current practice
211	Most adults and children with asthma are managed in primary care by general
212	practitioners and practice nurses with specific training. Management includes advice
213	about limiting exposure to known factors that trigger symptoms or asthma attacks,
214	treatment with preventive medicines tailored to the person's severity of illness and
215	regular review and monitoring of symptoms and exacerbations. Based on current
216	guidelines (BTS/SIGN 2014) preventive treatment is stepped up or stepped down to
217	ensure that the person experiences minimal symptoms with as low a level of
218	treatment as possible. There is considerable variation in the monitoring of people
219	with asthma and the effectiveness of titrating treatment to symptoms with the 2014
220	Royal College of Physicians' National Review of Asthma Deaths (RCP NRAD 2014)
221	finding that 46% of people who died of asthma had factors in the implementation of
222	guidelines that could have avoided death. There was excessive prescribing of
223	reliever treatment and under-prescribing of preventer treatment implying a failure to
224	step-up treatment when needed.
225	People in whom there is diagnostic uncertainty or who have poor control despite
226	apparent adequate treatment have their asthma managed in secondary care with
227	specialist investigation and treatment. A small proportion of people with difficult to
	-F

treat asthma have their asthma managed in tertiary centres with specialist

investigations and treatment modalities. Referral to specialist care is recommended

for people whose asthma is poorly controlled but the RCP NRAD 2014 findings that

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- more than half the people who died were not under specialist care in the preceding
- 232 12 months suggests that this does not always happen.
- 233 In summary, the implementation of current guidelines for the management of asthma
- in children and adults is variable with the result that there is high proportion of people
- with poorly controlled asthma and there is a high preventable mortality rate from this
- 236 condition.

4 Further information

This is the draft scope for consultation with registered stakeholders. The consultation dates are 15 April to 13 May 2015.

The guideline is expected to be published in 2017.

You can follow progress of the guideline.

Our website has information about how **NICE** guidelines are developed.

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