Managing Common Infections

Acute cough (including acute bronchitis): antimicrobial prescribing

Stakeholder comments table

23/08/2018 - 20/09/2018

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National Minor Illness Centre	Guideline	16-18	general	was an underlying reason for this change in practice, please could this be made explicit? This issue aside, it will not be possible to give evidence-based recommendations for the OTC products because the dosages used in the trials are much higher than those which are available OTC: dextromethorphan 30mg/dose (15 mg in Benylin Dry Cough) and guaifenesin 1200 mg/24hr (800mg /24hr in Benylin Mucous Cough). We wondered why you did not consider the evidence for vapour rub (camphor, menthol and eucalyptus), which would give an OTC option for coughing children whose parents cannot sleep: Paul IM, Beiler JS, King TS, Clapp ER, Vallati J, Berlin CM. Vapor rub, petrolatum, and no treatment for children with nocturnal cough and cold symptoms. Pediatrics. 2010 Nov 2:peds-2010.	evidence. The committee considered the high doses of over the counter medicines used in some of the trials. However agreed, based on their experience that some people may wish to try guaifenesin or antitussives (apart from codeine) for the relief of cough symptoms. Considering the limited evidence for dextromethorphan (which is for a single high dose) and an association with adverse effects, the committee agreed to amend the recommendations to remove specific reference to dextromethorphan. For non-antimicrobial and non-pharmacological interventions, preparations were grouped into classes based on the Cochrane review of over-the-counter preparations (Smith et al. 2014) and other

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					on this. These classes were then used by the committee to make decisions on whether to progress down the hierarchy of evidence (from systematic reviews, to RCTs, or further) if there was insufficient evidence; and to limit interventions only to those commonly in use in the UK.
					For over-the-counter (OTC) preparations, classes were OTC expectorants, OTC antitussives, OTC antihistamines and decongestants, and OTC mucolytics. The committee agreed that for these interventions, the systematic review by Smith et al. 2014 provided sufficient evidence, and progressing to RCT evidence was not required. The committee also agreed that the systematic review included all commonly used OTC preparations and there was no requirement to look further than this for evidence on OTC preparations not included in this review (such as vapour rub). The reference provided (Paul et al. 2010) was therefore not included.
National Minor Illness Centre	Evidence review	32	36 and 44	Given the lack of any RCT comparing the effectiveness of different antibiotics, the rationale for changing the first line antibiotic in adults from amoxicillin to doxycycline does not seem compelling. The subgroup analyses show (for three old trials of doxycycline vs placebo): no significant difference in clinical improvement; a reduction of 0.6 illness days; and a reduction of cough at follow-	Thank you for your comment. This was discussed by the committee, however the recommended antibiotic choices have not been amended. The committee were aware of the limited evidence to indicate the benefit of doxycycline over amoxicillin. However, they agreed that amoxicillin should be reserved, when possible, for use in more serious infections where bacterial infection is more common, for example pneumonia. This is

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				up visit (NNT of 6). Similar analyses for amoxicillin were not available. Doxycycline carries the hazard of inadvertent prescription to a woman who does not realise that she is pregnant. It also, in our experience, has a worse side effect profile than amoxicillin. The concern about amoxicillin-resistant E. Coli is, in our opinion, misplaced; given that the resistance rate is already above 50%, it is not good practice to use amoxicillin for the blind treatment of a UTI.	because of concerns that amoxicillin drives resistance not just in pneumococci but also in gram negative organisms. The committee was aware of evidence that the risk of resistance to amoxicillin is significantly increased in urinary isolates of <i>Escherichia coli</i> following a course of amoxicillin. A systematic review and meta-analysis of observational studies and randomised controlled trials (Costelloe et al. 2010) found that people prescribed an antibiotic, including amoxicillin, for a respiratory tract infection (not just a urinary tract infection) are more likely to develop resistance to that antibiotic in respiratory and urinary tract bacteria. These effects are greatest in the first month after use, but are detectable for up to 12 months. There is a concern that using amoxicillin in conditions such as acute cough or sore throat, where the benefits of antibiotics are marginal, drives resistance without adding benefit. The committee did agree that as the evidence of benefit of doxycycline over amoxicillin, clarithromycin or erythromycin is limited, these antibiotics should be offered as alternative first choices, rather than secondline. This also reflects safety issues regarding use of doxycycline in women who are not aware they are pregnant. The footnote to explain the safety warning on doxycycline has been amended to include women of child bearing age.
Royal College of Physicians and Surgeons of Glasgow	guideline	gener al		The Royal College of Physicians and Surgeons of Glasgow although based in Glasgow represents Fellows and Members throughout the United Kingdom who practice in the field of	Thank you for your comment.

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				Bronchiectasis. While NICE has a remit	
				for England, many of the	
				recommendations are applicable to all	
				devolved nations including Scotland.	
				They should be considered by the	
				relevant Ministers of the devolved	
				governments.	
				The College welcomes this review of	
				acute cough including acute bronchitis by	
				NICE. It is keenly interested in reducing	
				the prescriptions for antibiotics. This	
				should promote reduction in antibiotic	
				resistance as well as reduction in costs. It	
				recognises the importance of working	
				with patients to manage their own	
				disease.	
	guideline	gener		Our expert reviewer felt this is an	Thank you for your comments. The
Physicians and		al		important and timely guideline. Although	population covered in this guideline includes
Surgeons of				the evidence does suggest some possible benefits of treatment of acute	people with acute cough (commonly defined
Glasgow				cough with antibiotics and inhaled	as a cough that lasts less than 3 weeks). The
				corticosteroids, these are minor at best	committee was unable to make recommendations on people who should be
				and, as highlighted in the report, it would	referred for investigation who have a cough
				send the wrong message that prescribed	which lasts longer than 3 weeks. However,
				treatment is needed for a largely self-	the recommendation to refer people with an
				limiting condition. Situations where	acute cough to hospital, or seek specialist
				antibiotics might be considered in higher	advice on further investigation and
				risk individuals are clearly set out.	management, if they have any symptoms or
				M/bile the guidelines set out where	signs suggesting a more serious illness or
				While the guidelines set out when patients with cough and other (such as	condition (for example sepsis, a pulmonary
				systemic) symptoms should be referred	embolism or lung cancer), would cover this.
				on for investigation, this needs further	
				explanation and amplification in the	
				guideline given the public campaign to	
				seek help if a cough lasts longer than	

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				three weeks This guideline deals with cough up to three weeks. There will inevitably be an overlap.	
British Society for Antimicrobial Chemotherapy (BSAC)	Guideline	3	18	1.1.7 Do not offer an antibiotic to people for an acute cough associated with an upper respiratory tract infection who are not systemically very unwell or at higher risk of complications This is difficult to apply without some standardisation of 'very unwell'. The 'higher risk of complications' clause could be hyperlinked to 1.1.14 Some people regard bronchitis as URTI: they are wrong, but to those people this will read confusingly when they reach the next section which is about acute bronchitis. It might help to clarify the meaning of URTI, eg 'Do not offer an antibiotic to people for an acute cough associated with a predominantly upper respiratory tract infection (eg laryngitis or tracheitis) who are not systemically very unwell or at higher risk of complications'	Thank you for your comments. Based on the evidence identified, the committee were unable to provide a definitive list of people in whom it may be appropriate to prescribe an antibiotic. Therefore, the term 'systemically very unwell' was used, to allow clinical judgement to be used in individual circumstances when deciding if an antibiotic may be appropriate. 'Systemically very unwell' is a term used in the NICE guideline on respiratory tract infections (self-limiting): prescribing antibiotics, and it is assumed that clinicians will use clinical judgement when applying this. Under the section, identifying those patients with respiratory tract infections who are likely to be at risk of developing complications, there is a recommendation to offer an immediate antibiotic and/or further appropriate investigation and management if the patient is systemically very unwell. A link has been added to the term 'higher risk of complications' to link to the recommendation describing those at higher risk of complications. The definition of acute bronchitis in the terms used in the guideline has been amended to state that this is a lower respiratory tract infection. The recommendation has not been amended to clarify the meaning of upper respiratory tract infection, as this is believed to be clear from the definitions included.

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British Society for Antimicrobial Chemotherapy (BSAC)	Guideline	4	1	1.1.10 For adults with an acute cough associated with acute bronchitis who have had a point of care C-reactive protein test, follow the NICE guideline on pneumonia in adults: diagnosis and management. This will confuse people. The NICE guideline on pneumonia does include a section about CRP testing in patients who don't have pneumonia, but arguably it's in the wrong place. Might be better just to replicate that section in the acute cough guideline rather than refer the reader to somewhere else that on the face of it doesn't look relevant.	Thank you for your comments. The committee understood the limitations with redirecting to the NICE guideline on pneumonia. However, they agreed it was important to have the recommendations on Creactive protein accessible from the antimicrobial prescribing guideline on acute cough. For editorial reasons, recommendations cannot be replicated in the NICE guideline on pneumonia and the antimicrobial prescribing guideline on acute cough, therefore the link to the NICE guideline on pneumonia has been retained. However, this will be clearer in the NICE pathway.
British Society for Antimicrobial Chemotherapy (BSAC)	Guideline	gener	general	and management) gives advice on the management of infective exacerbations of COPD, which in pathological terms must be assumed to be bronchitis. In this	Thank you for your comments. This guideline does not cover treating cough associated with acute exacerbations of chronic obstructive pulmonary disease (COPD). In the overview section of the guideline, readers are directed to the NICE antimicrobial prescribing guideline on 'acute exacerbation of COPD' for treating cough associated with acute exacerbations of COPD, as well to the NICE guideline on 'COPD in over 16s: diagnosis and management'.

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				that interposes the 'more purulent	
				sputum' threshold.	
				I think this should be clarified, either by	
				excluding exacerbation COPD from the	
				acute cough guideline or (better) by	
				including the 'more purulent sputum'	
				requirement in the acute bronchitis	
				section of the cough guideline.	
British Society for	Guideline	gener	general	I cannot see anything that suggests	Thank you for your comments. This was
Antimicrobial		al		reviewing previous, recent sputum	discussed further by the committee, however
Chemotherapy				microbiology before prescribing (e.g.	no amendments were made to include
(BSAC)				within last 12 months) when available.	reviewing previous sputum microbiology as
				This is likely to be more important in	the committee agreed that it would be unlikely
				higher risk patients who are more likely to have had sputum sent previously. If for	that most people with acute cough would have recent sputum samples available, and
				example a patient had Haemophilus in	testing should not be encouraged.
				their sputum 4 months prior, resistant to	testing should not be encouraged.
				doxycycline, but sensitive to amoxicillin,	
				then one should account for that when	
				that information is available. Not to do so	
				will potentially lead to two or more	
				courses of antibiotics rather than just	
				one.	
Royal College of	Guideline	Gener	General	Question 1: The newly recommended	Thank you for your comment. NICE is aware
General		al		choice and length of antibiotics will have	of the important role played by Public Health
Practitioners				the biggest impact on practice. It should	England guidance on the treatment of acute
				not be too challenging to implement	cough. We have worked closely with Public
				provided the information is disseminated	Health England to produce this guideline, and
				to primary care effectively. Doxycycline is	
				usually given as a 7 day course.	England antibiotic choice recommendations
				Mill those quidelines had in line with	for acute cough.
				Will these guidelines be in line with	A cummary table of all NICE and Dublic
				Public Health England guidelines for antibiotics? Can NICE and PHE publish	A <u>summary table</u> of all NICE and Public Health England guidance has also recently
				joint guidelines regularly to avoid any	been published, which will be updated
				confusion in primary care.	regularly. The BNF receive all NICE
				contactor in primary care.	antimicrobial prescribing guidelines once they
					anuminosonai presenting guidelines once they

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				Will the BNF app be adjusted?	are published and processes are in place to ensure appropriate amendments are made.
Royal College of General Practitioners	Guideline	Gener al	General	Question 2: Implementation of the draft guidelines should not lead to any significant increase in costs, if anything there is a potential for resource savings with a reduction in prescriptions issued.	Thank you for your comment.
Royal College of General Practitioners	Guideline	Gener al	General	Question 3: All users would be helped by clear and consistent national guidance for the public, pharmacists and general practitioners regarding self-care of acute coughs and the treatments that have and do not have any evidence to support their use in the management of acute coughs.	Thank you for your comment.
Royal College of General Practitioners	Guideline	Gener	General	Question 4: The changes in antibiotic type and length of treatment is a significant change to practice but it is possible to achieve if the information is disseminated effectively. A wide variety of other treatments and self-care options have been reviewed and had their evidence assessed by this guideline. The quality of the evidence and the wide number of options reviewed may have a negative impact on the uptake of this part of the guidelines and to help prevent this it is important that clear, consistent and concise guidance is disseminated. The key issues and learning points for professional groups is the new guidance on antibiotic prescribing and the evidence for other treatment options and self-care advice.	
Royal College of General Practitioners	Draft guideline	gener al		There is no cross reference to NG 12 suspected cancer concerning lung cancer in those aged over 40 years e.g.	Thank you for your comment. The recommendations suggest that specialist advice or referral should be sought when

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				cough and smoking suggest the need for an urgent CXR according to the guideline.	there are symptoms or signs suggesting a more serious illness or condition, including lung cancer. However, there are a large number of conditions which may be suspected, and links cannot practically be included for them all.
Royal College of General Practitioners	Draft guideline	3	15	There is no definition of "systemically very unwell" Much clearer guidance is needed on clinical features that define the patient group who need an immediate antibiotic. Currently all the guideline says is people who are identified as systemically very unwell or in groups at high risk of complications which is not at all clear enough. It can frustrating and demoralising to hear constant criticism that GPs overprescribe and prescribe inappropriately when actually no guidance can give any clear answer on which signs/symptoms predict that an immediate antibiotic is needed. Whilst it is challenging to clarify which signs/symptoms are useful in defining patient groups who need immediate antibiotics, Clinicians need a clear analysis of the evidence of the combination of clinical signs of symptoms that predict that someone needs an immediate antibiotic e.g. fever lasting more than 5 days, pulse / BP, crackles in the chest, loss of appetite, severe lethargy, NEWS2 Score etc.	Thank you for your comment. Based on the evidence identified, the committee were unable to provide a definitive list of people in whom it may be appropriate to prescribe an antibiotic. Therefore, the term 'systemically very unwell' was used, to allow clinical judgement to be used in individual circumstances when deciding if an antibiotic may be appropriate. 'Systemically very unwell' is a term used in the NICE guideline on respiratory tract infections (self-limiting): prescribing antibiotics, and it is assumed that clinicians will use clinical judgement when applying this. Under the section, identifying those patients with respiratory tract infections who are likely to be at risk of developing complications, there is a recommendation to offer an immediate antibiotic and/or further appropriate investigation and management if the patient: - is systemically very unwell - has symptoms and signs suggestive of serious illness and/or complications - is at high risk of serious complications because of pre-existing comorbidity

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				The guideline must very clearly state that there is a lack of good evidence on clinical features of cough to help clinicians target appropriate antibiotic usage, and that more research is urgently needed on this. All studies are at risk of suffering from	likely to be at risk of developing complications. Such prognostic studies were outside the scope of this antimicrobial prescribing guideline, and no evidence was identified from the included RCTs and systematic reviews to suggest who will benefit most from antibiotics. The committee were aware of the limitations of the evidence available, including recruitment bias, and considered these limitations when making the recommendations. The committee agreed with your valuable comment that more research is needed to
					identify the clinical features of cough that would help clinicians target antibiotics appropriately.
Royal College of General Practitioners	Draft Guideline	Page 5	Lines 24 to 27	There are concerns that there are lot of over the counter medications here that are given some credence on the basis of "limited evidence suggests that the	Thank you for your comment. The recommendations on over the counter medicines are included within the section on self-care. The wording of this
		Page 6	Lines 1 -6	following have some benefit for the relief of cough symptoms:" and recommend four types of preparation. These are in the self care category - but of course	recommendation has been amended to make it clearer that over the counter medicines are for self-care.

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		Page 8 to 12	on page 8	there would be (under duties of a doctor) a duty to prescribe medications that would be beneficial to ease our patients symptoms or cure there problem. Please can NICE clarify they are suggesting self care - and by the nature of a doctors recommendation and the BNF prescribed care involving honey / pelargonium and cough mixtures containing two defined preparations. If these are prescribed it is likely to significantly add to the NHS drug costs	
Royal College of General Practitioners				Consideration of cough caused by ACE inhibitors in prolonged cough Whilst stopping ACE inhibitors should not be initially considered, prolonged coughs in patients on ACE inhibitors may be benefit for withdrawal of the medication	Thank you for your comment. The consideration of non-infective causes of cough, including due to ACE inhibitor use is out of scope for this guideline.
Royal College of General Practitioners		18		Consideration of combination cough suppressant medication A review in BMJ open also considered the use of combination cough suppressant medication https://bmjopenrespres.bmj.com/content/3/1/e000137. The review was funded by Proctor and Gamble This included a study by Mizoguchi <i>et al</i> who studied 432 participants in a placebo-controlled study of a syrup containing 15 mg dextromethorphan hydrobromide, 7.5 mg doxylamine succinate, 600 mg paracetamol and 8 mg ephedrine sulfate. The primary end point	Thank you for your comment. The study highlighted by Mizoguchi et al. (2007) was included in the systematic review (Smith et al. 2014), which was included in the evidence review. However, the results from Mizoguchi et al. 2007 were not summarised as not all components of this specific combination cough medicine are available in the UK (doxylamine succinate).

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			(composite of nasal congestion/runny	
			nose/cough/pain relief scores 3 hours	
			postdosing) showed a highly significant	
			beneficial effect in the group given active	
			treatment (p=0.0002). Each individual	
			symptom score also showed statistically significant improvement 3 hours	
			postdosing (p≤0.017). The next morning	
			active treatment continued to show	
			clinically and statistically significant	
			benefits (p≤0.003). Evidence of benefit	
			with the test syrup was also seen in the	
			higher score for overall night-time relief	
			(p<0.0001) and greater satisfaction on	
			sleep (p=0.002). Adverse events were	
			reported at half the frequency in the	
			active treatment group compared with the	
			placebo and there were no reported	
			events >1% in the population.	
			Mizoguchi H, Wilson A, Jerdack GR, et	
			al	
			. Efficacy of a single evening dose of	
			syrup containing paracetamol,	
			dextromethorphan hydrobromide,	
			doxylamine succinate and ephedrine	
			sulfate in subjects with multiple common	
			cold symptoms. Int J Clin Pharmacol	
			Ther 2007;45:230– 6. doi:10.5414/CPP45230	
Royal College of	18		Identification of the effective over the	Thank you for your comment. Over the
General	10		counter cough suppressant products	counter cough suppressant products
Practitioners			actives cough supplessant products	(antitussives) were named in the NICE search
1 Idoditionors			It would be useful to identify which of the	strategy. Using the evidence identified and
			current over the counter products may be	
			effective so patents, carers, pharmacists,	recommendation that some people may wish
			nurses and GP know which to use. As	to try cough medicines containing

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				well as a list, these products could have	antitussives, apart from codeine, which did
				a NICE logo on the box similar to	not show evidence of benefit.
				WHICH. Can ineffective over the counter	It is not within NICE's remit to endorse
				medication be withdrawn?	products or suggest over the counter
					medicines are withdrawn.
Self Care Forum	Guideline	Gener	General	The Self Care Forum welcomes the draft	Thank you for your comments.
		al		NICE Guideline on acute cough:	
				antimicrobial prescribing. We further	
				welcome recommendations on when to	
				provide self care advice and agree, in	
				most cases, acute cough is self-limiting	
				and normally lasts around three weeks	
				and does not require antibiotic treatment.	
				The Self Care Forum agrees with the	
				recommendation that people with acute	
				cough and who are not at risk of	
				complications, should be supported to	
				self care and use over-the-counter cough	
				treatments to help with symptom relief.	
Self Care Forum	Guideline	2/3	27 - 5	The Self Care Forum is keen for the NHS	Thank you for your comment. We have
				to provide information about the normal	passed this information to our resource
				duration of symptoms and red flags as	endorsement team. More information on
				part of its self care advice to patients and	endorsement can be found here: NICE
				the public and so welcomes this	Endorsement Programme.
				guidance. This information is crucial	<u> </u>
				particularly since many people	
				underestimate the duration of symptoms	
				and seek medical attention too soon as a	
				result. IMS commissioned research from	
				2009 highlights this and led to the Self	
				Care Forum producing a series of fact	
				sheets with this crucial information	
				pertaining to 14 minor conditions.	
				We suggest the factsheet on cough,	
				which provides advice on normal duration	
	1	1	J	I willon provides advice on normal duration	

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				and treatment for acute cough and red flags is included as a resource by NICE for healthcare professionals to use in giving self care advice to people, replacing the FP10.	
Self Care Forum	Guideline	5	9-12	Based on the "Home care is best" study in Kingston led by the Self Care Forum's co-chair Dr Pete Smith at his practice and using the NICE guidance for upper respiratory tract infection, delayed antibiotic prescribing as an approach worked very well. Churchill Medical Centre found that delayed prescribing can be a useful tool for GPs particularly if confronted with a sceptical patient who is not happy to leave the surgery without a prescription. In its experience around 70% of these prescriptions are never dispensed.	Thank you for your comment. The committee recognised the usefulness of back-up antibiotic prescriptions in managing self-limiting illness. However, from the evidence, back-up antibiotics were not significantly different to immediate antibiotics or no antibiotics for how long a cough lasts. Therefore, based on evidence, experience and the principles of antimicrobial stewardship, the committee recommended a no antibiotic prescribing strategy (routinely). For most people with an acute cough they felt a back-up antibiotic prescribing strategy sent the wrong message that antibiotics may be needed at some point. This is described in the rationale section of the guideline on back-up antibiotics. The committee agreed, based on experience, that back-up antibiotics could be a useful strategy in such patients on an individualised basis, but on the whole, a recommendation for no antibiotic prescribing was preferred.
Self Care Forum	Guideline	5-6	24-6	The Self Care Forum welcomes the acknowledgement that honey and cough medicines containing pelargonium, guaifenesin or dextromethorphan are effective at treating the symptoms of acute cough and agrees it should be part of self care advice and recommended as a first-line treatment.	Thank you for your comment. The recommendation on self-care using over the counter medicines refers to benefit for the relief of cough symptoms. Therefore, it is believed it is clear that these medicines target the symptoms of an acute cough.

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				It is important to advise people that cough medicines will not 'cure' a cough. If used in accordance with the instructions on the packaging and in the patient information leaflet, then over-the-counter cough medicines are an appropriately safe and effective way to help relieve the disruptive symptoms of a cough so people can get on with their day.	
Self Care Forum	Guideline	6	11-2	The Self Care Forum understands that there is evidence for the effectiveness of pholocodine as a treatment for acute cough.	include details on this. These classes were then used by the committee to make decisions on whether to progress down the hierarchy of evidence (from systematic

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					EMA review) as one particular medicine within this class was not included. The included systematic review (Smith et al. 2014) did not include evidence specifically on pholcodine because no placebo-controlled trials were identified which met their inclusion criteria. However, the committee recognised that randomised control trial evidence on pholcodine is available, and the recommendations have been amended to remove reference to specific, named antitussives (apart from codeine), and rather name the class of OTC antitussives (also called cough suppressants).
Self Care Forum	Guideline	36	1-6	The Self Care Forum's aim is to further the reach of self care and embed it in everyone's everyday life so that it becomes an everyday habit and culture. Providing people presenting with symptoms of self-liming conditions with information that they need to become empowered to practice self care is imperative for the individual and to help reduce unnecessary pressure on overstretched NHS services. PAGB research shows that an estimated £810 million a year is spent on unnecessary GP appointments for self-treatable conditions for which self care would have been appropriate and any advice needed could have been provided by a pharmacist. The Self Care Forum is grateful for tools aimed at healthcare professionals, such as this NICE	

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				guidance, to enable them to support people to look after their self-treatable conditions and understand how and when to self care in future.	
				Savings can be made in reducing GP appointments for self-treatable conditions not only because of fewer consultations but also through prescription costs for unnecessary or inappropriate prescribing.	
				The Self Care Forum would like to see more effort in supporting people to understand how to look after their own	
				health better for individuals and to ensure	
				NHS resources are used in the most efficient and effective manner.	
Self Care Forum	General	Gener al	General		Thank you for your comment. Unfortunately, this guideline will publish after self-care week and will not be timely for communications on this.
				The Self Care Forum also suggests details of Self Care Week (12 – 18 Nov) are included in NICE communications in relation to the guidance. The Self Care Forum organises the awareness week which is aimed at people-facing organisations, such as	
				surgeries, to use as a tool to promote self care messages to their audiences. Self Care Week can be used as a vehicle by health professionals to proactively communicate how people can look after their acute cough and to underline the	

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				message about antibiotics not being necessary for acute cough. Further details are available on the website.	
British Infection Association	Guideline			In general we support this document	Thank you for your comment.
British Infection Association	General			Whooping cough is mentioned only in children, when it is clear that many cases are being seen in adults. Whether it is worthy of mention is another matter, as we would not advocate diagnostic tests or treatment - by the time it's spotted, it's too late to help the individual or to halt transmission.	Thank you for your comment. We have amended the definition of 'acute cough' in terms used in the guideline to remove the specificity of the population who may experience whooping cough.
British Infection Association	Guideline	4	26	Please add corticosteroids <u>or other</u> <u>immunosuppressants</u> (I remember a disaster in a young woman on methotrexate)	Thank you for your comment. The people who are at higher risk of complications is taken from the NICE guideline on respiratory tract infections (self-limiting): prescribing antibiotics, which does not specify use of other immunosuppressants as a risk factor. Therefore, this recommendation will not be amended.
Proprietary Association of Great Britain	Guideline	Gener al	General	PAGB broadly welcomes the draft NICE Guideline on acute cough. We agree that in the majority of cases acute cough is a self-limiting condition which will last around three weeks and does not require treatment with antibiotics. PAGB fully supports the recommendation that people with acute cough (who are not at high risk of complications) should be advised to self care and use over-the-counter cough treatments to manage	Thank you for your comment.
Proprietary Association of Great Britain	Guideline	2-3	27-5	their symptoms. PAGB fully supports the need to give people with an acute cough self care advice in the first instance.	Thank you for your comment. We have passed this information to our resource endorsement team. More information on

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					endorsement can be found here: NICE
				Many people are not aware of the normal	Endorsement Programme.
				duration for common minor ailments and	
				underestimate how quickly they will feel	The committee were not able to make a
				better. PAGB research has found that	recommendation on the most appropriate
				the majority of people (68%) think an	health professional to manage people with
				acute cough will last between three and	acute cough, however over the counter
				six days ¹ when it is more likely to last for	medicines available in pharmacies have been
				three to four weeks.	recommended as self-care.
				The Self Care Forum, a charity supported	
				by PAGB, offers a range of factsheets on	
				self-treatable conditions. The factsheet	
				on cough provides advice on normal	
				duration and treatment for acute cough	
				and red flags which indicate medical	
				advice should be sought. It is available	
				online and could be recommended by	
				NICE as a resource for healthcare	
				professionals to use in giving general self	
				care advice to people ² .	
				The key to effective management of a	
				cough is to identify the most troublesome	
				symptom and to choose an appropriate	
				product to treat it. The pharmacy should	
				be the first port of call for people who are	
				looking for advice on how to manage	
				their cough symptoms. Pharmacists are	
				expert healthcare professionals who can	
				give advice on the most suitable	
				medicine to take if people are unsure, or	
				signpost people if they need further	
				guidance.	

PAGB data on file. Survey conducted among 2,000 UK adults in September 2015 by Redshift Research.
 Self Care Forum http://www.selfcareforum.org/wp-content/uploads/2013/04/7-Cough.pdf, accessed September 2018.
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Proprietary	Guideline	5-6	24-6	new row PAGB welcomes the acknowledgement	Thank you for your comment. The
Association of Great Britain	Guideilile	5-0	24-0	in the draft NICE Guidance that cough medicines containing pelargonium, guaifenesin or dextromethorphan are effective at treating the symptoms of acute cough and should be recommended as a first-line treatment. It is important to advise people that cough medicines will not 'cure' a cough. If used in accordance with the instructions on the packaging and in the patient information leaflet, then over-the-counter cough medicines are an appropriately safe and effective way to help relieve the disruptive symptoms of a cough so people can get on with their day.	recommendation on self-care using over the counter medicines refers to benefit for the relief of cough symptoms. Therefore, it is believed it is clear that these medicines target the symptoms of an acute cough.
Proprietary Association of Great Britain	Guideline	6	11-2	PAGB disagrees that there is a lack of evidence for the effectiveness of pholcodine as a treatment for acute cough. Pholcodine has been used to treat cough since the 1950s and has a long history of well-established use for this indication. In 2012, a review by the European Medicines Agency (EMA) found that "the existing data is consistent and supportive of the efficacy of pholcodine in the treatment of acute non-productive cough". This report cites five studies in adults where pholcodine was seen to	Thank you for your comment. For non-antimicrobial and non-pharmacological interventions, preparations were grouped into classes based on the Cochrane review of over-the-counter preparations (Smith et al. 2014) and other included systematic reviews. The review protocol has been updated to include details on this. These classes were then used by the committee to make decisions on whether to progress down the hierarchy of evidence (from systematic reviews, to RCTs, or further) if there was insufficient evidence; and to limit interventions only to those commonly in use in the UK. For over-the-counter (OTC) preparations, classes were OTC expectorants, OTC antitussives, OTC antihistamines and decongestants, and OTC mucolytics.

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				new row	
				have a positive effect in acute non-	Pholocodine was considered as part of the
				productive cough ³ .	class, OTC antitussives. The committee agreed that for these interventions (including
				PAGB would urge NICE to reconsider the	OTC antitussives as a class) the systematic
				evidence for pholoodine as an effective	review by Smith et al. 2014 provided sufficient
				treatment for acute cough in the final	evidence, and progressing to RCT evidence
				guidance.	was not required. Therefore further evidence
					on pholcodine (including that provided in the
					EMA review) as one particular medicine within this class was not included.
					within this class was not included.
					The included systematic review (Smith et al.
					2014) did not include evidence specifically on
					pholcodine because no placebo-controlled
					trials were identified which met their inclusion
					criteria. However, the committee recognised that randomised control trial evidence on
					pholocodine is available, and the
					recommendations have been amended to
					remove reference to specific, named
					antitussives (apart from codeine), and rather
					name the class of OTC antitussives (also
Proprietary	Guideline	36	1-6	PAGB believes it is important to	called cough suppressants). Thank you for your comment. The guideline
Association of	Guidellile	30	1-0	empower people to self care for self-	includes a section on self-care. The
Great Britain				treatable conditions, like acute cough, to	committee agreed that the inclusion of this
				help to reduce unnecessary pressure on	section is aligned with the views of the
				overstretched NHS services, ensuring	Proprietary Association of Great Britain.
				people are seen by the right healthcare	
				professional at the right time.	
				An estimated £810 million a year is spent	
				on unnecessary GP appointments for	
				self-treatable conditions for which self	

³ European Medicines Agency (2012) http://www.ema.europa.eu/docs/en_GB/document_library/Referrals_document/Pholcodine_31/WC500124716.pdf, accessed September 2018.

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				care would have been appropriate and any advice needed could have been provided by a pharmacist ⁴ . A reduction in GP appointments for self-treatable conditions will also release savings in prescription costs for unnecessary or inappropriate prescribing.	
				PAGB is calling for a national strategy for self care to ensure appropriate policies are put in place to support people to self care when it is appropriate to ensure NHS resources are used in the most efficient and effective manner.	
British Thoracic Society	General			Overall the guideline provides sensible advice and fairly represents existing evidence in this area.	Thank you for your comment. A respiratory specialist (Dr Tim Felton, Consultant in Intensive Care and Respiratory Medicine at Manchester University NHS Foundation Trust) has been recruited to the committee for
				The British Thoracic Society (BTS) had no prior knowledge of the preparation of this guideline and we note that the guideline development group did not include respiratory expertise.	this guideline to provide expertise and experience. Their views have been sought on a post-consultation version of the guideline and they will continue to contribute as appropriate in the development and finalisation of this guideline.
British Thoracic Society	General			We are concerned that there is little mention of acute cough representing an exacerbation of pulmonary diseases such as asthma, where antibiotics may well still be inappropriate but the exacerbation does need treating. Is there a risk that those reading this guidance may misinterpret the sections on bronchodilators and corticosteroids which	acute cough and in the absence of asthma. Readers are directed to relevant NICE guidelines on exacerbations of other

⁴ PAGB (2018) A long-term vision for self care: interim White Paper https://www.pagb.co.uk/content/uploads/2018/07/A-long-term-vision-for-self-care-interim-white-paper.pdf, accessed September 2018.

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				aren't effective for acute cough in	obstructive pulmonary disease and
				otherwise healthy individuals but may be	bronchiectasis in the overview section, and
				needed in those with underlying airways	these conditions are not covered in this
				disease and an exacerbation?	guideline.
British Thoracic	Question 1			1. Which areas will have the biggest	Thank you for your comment.
Society				impact on practice and be	
				challenging to implement? Please	
				say for whom and why.	
				The guidelines do not contain any new or	
				surprising recommendations; overall they	
				reinforce current thinking on the	
				management of acute cough. It has long	
				been recognised that the majority of	
				acute cough is viral and therefore the role	
				for antibiotics is limited. Equally the	
				evidence that any antitussive treatments	
				are effective is weak/lacking. However	
				cough is a very unpleasant symptom	
				which significantly impacts upon patients'	
				quality of life, so healthcare professionals	
				inevitably feel a pressure to prescribe	
				something and this has always been the	
				challenge, especially for primary care	
				physicians.	
				Phasing out antibiotic prescription for	
				most-will have significant impact in	
				general practice and requires significant	
Duitiala Thanasia	Overtion 0			public education (honey, not antibiotics.)	The arter of the control of the cont
British Thoracic	Question 2			2. Would implementation of any of the	Thank you for your comment.
Society				draft recommendations have	
				significant cost implications?	

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				No, these should save money as	
				hopefully they will reduce further	
				inappropriate prescribing of antibiotics.	
British Thoracic Society Question 3	Question 3			3. What would help users overcome any challenges? (For example, existing practical resources or national initiatives, or examples of good practice.) Initiatives to improve public awareness of the lack of effect/ risks associated with the use of antibiotics for acute cough.	Thank you for your comment. This guideline will be reviewed to ensure it remains up to date, in line with the methods in the Interim process guideline (section 14) and Developing NICE guidelines the manual (section 13). Any new treatments for acute cough will be considered during the review of the guideline.
				The recent increased efforts in the development of new cough treatments may in future help to alleviate the challenge faced by physicians pressured to provide a treatment for acute cough. Currently new treatments are in development for chronic cough but should they prove to also be effective in acute cough, then alternatives to antibiotics and poorly effective OTC antitussives may become an option.	
British Thoracic Society	Question 4			4. For the guideline: • Are there any recommendations that will be	Thank you for your comment.
				a significant change to practice or will be difficult to implement? If so, please give reasons why.	
				Unlikely to be a significant change to practice, main difficulty in implementation	

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				is the lack of availability of effective treatment options.	
				 What are the key issues or learning points for professional groups? 	
				The key issues are the lack of effectiveness of antibiotics/ antitussives in acute cough and the risks associated with inappropriate use. However this knowledge is well-established and so the guideline mainly serves to firm up existing knowledge.	
British Thoracic Society	Guideline	Page 2	1.1	Worth mentioning that the cough reflex is more sensitive during an acute URT infection and then normalises on recovery ¹ . This is conceptually important when dealing with acute cough and can be helpful information for patients trying to understand what is going on.	Thank you for your comment. The committee considered the mechanism of acute cough during an upper respiratory tract infection, however agreed not to include this detail within the recommendations. The reference provided (Dicpinigatis, Tibb et al. 2014) will not be included in the evidence review as it is not a study evaluating the effectiveness of an intervention.
British Thoracic Society	Guideline	Page 3	1.1.6	Add montelukast to the list of drugs not worth prescribing ² .	Thank you for your comment. For non-antimicrobial and non-pharmacological interventions, preparations were grouped into classes based on included systematic reviews. The review protocol has been updated to include details on this. These classes were then used by the committee to make decisions on whether to progress down the hierarchy of evidence (from systematic reviews, to RCTs, or further) if there was insufficient evidence; and to limit interventions only to those commonly in use in the UK.

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					For montelukast, this was included within the class leukotriene receptor antagonists. No systematic reviews on leukotriene receptor antagonists were included as they did not meet the review protocol. And the committee agreed that there was no requirement to look further than this for evidence on leukotriene receptor antagonists because this class of medicine is not commonly in use for acute cough. Montelukast is licensed for prophylaxis of asthma and symptomatic relief of seasonal allergic rhinitis in patients with asthma. The reference provided (Wang et al. 2014)
British Thoracic Society	Guideiine	Page 5	1.2	It would be worth mentioning at this point the general principle underlying cough remedies, i.e. the complex mechanisms in addition to the pharmacological effect of the active drug. The placebo effect is often marked (and treatment with something is often better than no treatment at all) and other poorly understood actions such as a 'physiological effect' (and voluntary control, natural resolution and regression to the mean) may be important ³ . Cough medicines often have sapid, glycerine like consistency that may be important and sweet taste has been shown to supress the cough reflex ⁴ (possibly why honey has an effect). This point is important when thinking about what is being prescribing and what these medicines are actually doing, particularly given the very weak and conflicting	Thank you for your comment. The committee considered this and has added further detail to the rationale around the placebo effect and the possibility that the sweetness and consistency of cough medicines could be important. The committee were aware of the possible mechanism of action of simple linctus, and appreciated that there is limited evidence on all over the counter medicines. Therefore, the reference to simple linctus was removed from the recommendations. The references provided (Eccles et al. 2010 and Wise et al. 2014) have not been included in the evidence review as they are narrative reviews.

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				evidence for the use of these medicines.	
				On this basis is it wise to dismiss the use	
				of simple linctus? We appreciate the	
				evidence base here is lacking but that	
		_		applies to all the medicines listed here.	
British Thoracic	Guideline	Page	1.2.1	This is a difficult area as the evidence	Thank you for your comment. The
Society		5		base is sparse and therefore the process	recommendations on over the counter
				of guideline production tricky as the	medicines for acute cough have been
				committee noted. The recommendation	amended to reflect the strength of evidence.
				for honey is reasonable. The wording	
				here possibly overstates the potential	The committee recognised that
				effectiveness of other medications	dextromethorphan may increase adverse
				(particularly pelargonium and to a slightly	effects, as described in the rationale section
				lesser extent guaifenesin	of the guideline. The committee also
				dextromethorphan). To our knowledge	recognised limitations with the evidence on
				there are no trials of acceptable standard	dextromethorphan (which is for a single high
				looking at these medications and results	dose) and agreed that it should not be
				from what studies there have been have	specifically named as an antitussive which
				been contradictory ⁵ . The best that can be	
				said is that they <i>may</i> have some effect. It	recommendation has been amended to
				is important not to dismiss all these	reflect this.
				medications outright given the lack of	
				definitive evidence, although we note the	For non-antimicrobial and non-
				ACCP takes a contrary view on the area	pharmacological interventions, preparations
				their use altogether ⁶ . The effects of	Cochrane review of over-the-counter
				these medicines should be seen in the	preparations (Smith et al. 2014) and other
				context of a complex action-placebo,	included systematic reviews. The review
				physiological effect, natural	protocol has been updated to include details
				resolution/regression to the mean,	on this. These classes were then used by the
				voluntary control etc.	committee to make decisions on whether to
				Should the potential adverse effects of	progress down the hierarchy of evidence
				dextromethorphan be mentioned?	(from systematic reviews, to RCTs, or further)
				There is absolutely no mention of	if there was insufficient evidence; and to limit
				menthol, a common component in cough	interventions only to those commonly in use
				remedies. We appreciate there is very	in the UK.
				little evidence here ⁵ but there should be	

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NAME		NO.	NO.	Please insert each new comment in a	Please respond to each comment
				new row	(0.70)
				some discussion even just to state that there is no evidence?	For over-the-counter (OTC) preparations, classes were OTC expectorants, OTC
				there is no evidence?	antitussives, OTC antihistamines and
				References for above:	decongestants, and OTC mucolytics. The
				Dicpinigaitis PV, Tibb AS, Ramsey	committee agreed that for these interventions,
				DL, Carr AN, Poore CL. Stability of	the systematic review by Smith et al. 2014
				cough reflex sensitivity during viral	provided sufficient evidence, and progressing
				upper respiratory tract infection	to RCT evidence was not required. The
				(common cold). Pulm Pharmacol Ther. 2014 Aug;28(2):154-7. doi:	committee also agreed that the systematic review included all commonly used OTC
				10.1016/j.pupt.2014.05.004. Epub	preparations and there was no requirement to
				2014 May 28. PubMed PMID:	look further than this for evidence on OTC
				24878421.	preparations not included in this review (such
				2. Wang K, Birring SS, Taylor K, Fry	as menthol).
				NK, Hay AD, Moore M, Jin J, Perera	
				R, Farmer A, Little P, Harrison TG,	The references provided here have not been
				Mant D, Harnden A. Montelukast for postinfectious cough in adults: a	included in the evidence review as they do not meet the review protocol: Dicpinigaitis et
				double-blind randomised placebo-	al. 2014 is a narrative review and Malesker et
				controlled trial. Lancet Respir Med.	al. 2017 is other guidance (other references
				2014 Jan;2(1):35-43. doi:	included here have been addressed in
				10.1016/S2213-2600(13)70245-5.	relevant comment responses).
				Epub 2013 Dec 2. PubMed PMID: 24461900.	
				3. Eccles R. Importance of placebo	
				effect in cough clinical trials. Lung.	
				2010 Jan;188 Suppl 1:S53-61. doi:	
				10.1007/s00408-009-9173-3. Epub	
				2009 Sep 16. PubMed PMID:	
				19760296.	
				 Wise PM, Breslin PA, Dalton P. Effect of taste sensation on cough reflex 	
				sensitivity. Lung. 2014 Feb;192(1):9-	
				13. doi: 10.1007/s00408-013-9515-z.	
				Epub2013 Oct 31. Review. PubMed	
				PMID: 24173385.	

new row 5. Dicpinigaitis PV, Morice AH, Birring SS, McGarvey L, Smith JA, Canning BJ, Page CP, Antitussive drugs—past, present, and future. Pharmacol Rev. 2014 Mar 26;68(2):488-512. doi: 10.1124/pr.111.005116. Print 2014. Review. PubMed PMID: 24671376. 6. Malesker MA, Callahan-Lyon P, Ireland B, Irwin RS; CHEST Expert Cough Panel. Pharmacologic and Nonpharmacologic Treatment for Acute Cough Associated With the Common Cold: CHEST Expert Panel Report. Chest. 2017 Nov;152(5):1021-1037. doi: 10.1016/j.chest.2017.08.009. Epub 2017 Aug 22. Review. PubMed PMID: 28837801; PubMed Central PMCID: PMC6026258. Advised that they have no comments to submit on this occasion Care GlaxoSmithKline General GSK would like to thank NICE for its work on the development of the guideline on Cough (acute): antimicrobial prescribing and for the opportunity to comment on the draft clinical guideline. GSK supports the NICE position on the expectorant gualfenesin. Guarfenesin is an expectorant indicated to help loosen phlegm (mucus) and thin bronchial secretions to promote expectoration and make cough more productive. GSK is aligned with the NICE position on Thank you for your comment. The committee reproductive.	ORGANISATION	DOCUMENT	PAGE	LINE	COMMENTS	DEVELOPER'S RESPONSE
5. Dicpinigaitis PV, Morice AH, Birring SS, McGarvey L, Smith JA, Canning BJ, Page CP, Antitussive drugspast, present, and future. Pharmacol Rev. 2014 Mar 26,66(2):468-512. doi: 10.1124/pr.111.005116. Print 2014. Review. PubMed PMID: 24671376. 6. Malesker MA, Callahan-Lyon P, Ireland B, Irwin RS; CHEST Expert Cough Panel Pharmacologic and Nonpharmacologic Treatment for Acute Cough Associated With the Common Cold: CHEST Expert Panel Report. Chest. 2017 Nov;152(5):1021-1037. doi: 10.1016/j.chest.2017.08.009. Epub 2017 Aug 22. Review. PubMed PMID: 28837801; PubMed Central PMCID: PMC8026258. Advised that they have no comments to submit on this occasion Care GlaxoSmithKline General GSK would like to thank NICE for its work on the development of the guideline on Cough (acute): antimicrobial prescribing and for the opportunity to comment on the draft clinical guideline. GalxoSmithKline GlaxoSmithKline	NAME		NO.	NO.		Please respond to each comment
SS, McGarvey L, Smith JA, Canning BJ, Page CP. Antitussive drugspast, present, and future. Pharmacol Rev. 2014 Mar 26;66(2):468-512. doi: 10.1124/pr.111.005116. Print 2014. Review. PubMed PMID: 24671376. 6. Malesker MA, Callahan-Lyon P, Ireland B, Irwin RS; CHEST Expert Cough Panel. Pharmacologic and Nonpharmacologic Treatment for Acute Cough Associated With the Common Cold: CHEST Expert Panel Report. Chest. 2017 Nov;152(5):1021-1037. doi: 10.1016/j.chest.2017.08.009. Epub 2017 Aug 22. Review. PubMed PMID: 28837801; PubMed Central PMCID: PMC6026258. Advised that they have no comments to submit on this occasion Care GlaxoSmithKline General GSK would like to thank NICE for its work on the development of the guideline on Cough (acute): antimicrobial prescribing and for the opportunity to comment on the draft clinical guideline. GSK supports the NICE position on the expectorant qualifenesin. Guaifenesin is an expectorant indicated to help loosen phlegm (mucus) and thin bronchial secretions to promote expectoration and make cough more productive. GIaxoSmithKline Guideline 6 3 GSK is aligned with the NICE position on Thank you for your comment. The committee' recognised limitations with the evidence on						
BJ, Page CP. Antitussive drugs—past. present, and future. Pharmacol Rev. 2014 Mar 26;66(2):468-512. doi: 10.1124/pr.111.005116. Print 2014. Review. PubMed PMID: 24671376. 6. Malesker MA, Callahan-Lyon P, Ireland B, Inwin RS; CHEST Expert Cough Panel. Pharmacologic and Nonpharmacologic Treatment for Acute Cough Associated With the Common Cold: CHEST Expert Panel Report. Chest: 2017 Nov:152(5):1021-1037. doi: 10.1016/j. chest. 2017. 08.009. Epub 2017 Aug 22. Review. PubMed PMID: 28837801; PubMed Central PMCID: PMC6026258. Department of Health and Social Care GlaxoSmithKline Guideline General and General and France of Cough (acute): antimicrobial prescribing and for the opportunity to comment on the draft clinical guideline. On Cough (acute): antimicrobial prescribing and for the opportunity to comment on the draft clinical guideline. Guideline on Cough (acute): antimicrobial prescribing and for the opportunity to comment on the draft clinical guideline. Guideline. Guideline on Cough (acute): antimicrobial prescribing and for the opportunity to comment on the draft clinical guideline. Guideline. Guideline on Cough (acute): antimicrobial prescribing and for the opportunity to comment on the draft clinical guideline.						
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2014 Mar 26;66(2):468-512, doi: 10.1124/pr.111.005116, Print 2014, Review. PubMed PMID: 24671376.						
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6. Malesker MA, Callahan-Lyon P, Ireland B, Irwin RS; CHEST Expert Cough Panel. Pharmacologic and Nonpharmacologic Treatment for Acute Cough Associated With the Common Cold: CHEST Expert Panel Report. Chest. 2017 Nov;152(5):1021-1037. doi: 10.1016/j.chest.2017.08.009. Epub 2017 Aug 22. Review. PubMed PMID: 28837801; PubMed Central PMCID: PMC6026258. Department of Health and Social Care GlaxoSmithKline General GSK would like to thank NICE for its work on the development of the guideline on Cough (acute): antimicrobial prescribing and for the opportunity to comment on the draft clinical guideline. GlaxoSmithKline Guideline G 1 GSK supports the NICE position on the expectorant guaifenesin. Guaifenesin is an expectorant indicated to help loosen phlegm (mucus) and thin bronchial secretions to promote expectoration and make cough more productive. GSK is aligned with the NICE position on Thank you for your comment. The committee recognised limitations with the evidence on the antitussive dextromethorphan.						
Ireland B, Invin RS; CHEST Expert Cough Panel. Pharmacologic and Nonpharmacologic Treatment for Acute Cough Associated With the Common Cold: CHEST Expert Panel Report. Chest. 2017 Nov;152(5):1021-1037. doi: 10.1016/j.chest.2017.08.009. Epub 2017 Aug 22. Review. PubMed PMID: 28837801; PubMed Central PMCID: PMC6026258. Advised that they have no comments to submit on this occasion Care General al GSK would like to thank NICE for its work on the development of the guideline on Cough (acute): antimicrobial prescribing and for the opportunity to comment on the draft clinical guideline. Guideline GSK supports the NICE position on the expectorant guaifenesin. Guaifenesin is an expectorant indicated to help loosen phlegm (mucus) and thin bronchial secretions to promote expectoration and make cough more productive. GSK is aligned with the NICE position on Thank you for your comment. The committee recognised limitations with the evidence on the antitussive dextromethorphan.					Review. PubMed PMID: 24671376.	
Cough Panel. Pharmacologic and Nonpharmacologic Treatment for Acute Cough Associated With the Common Cold: CHEST Expert Panel Report. Chest. 2017 Nov;152(5):1021-1037. doi: 10.1016/j.chest.2017.08.009. Epub 2017 Aug 22. Review. PubMed PMID: 28837801; PubMed Central PMCID: PMC6026258. Department of Health and Social Care GlaxoSmithKline GlaxoSmithK						
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TOCAROLICATION DIGITIS INDICATED AS ALL TREATIONED INTERPRETABLES IN TRANSPORTED IN THE PROPERTY IS IN A SHORE HIGH.					Dextromethorphan is indicated as an	dextromethorphan (which is for a single high

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				antitussive, for the relief of an unproductive cough.	dose) as well as an association with adverse events and agreed that it should not be specifically named as an antitussive which may have benefit. The recommendations have been amended to remove the specific reference to dextromethorphan, and now say cough medicines containing antitussives (apart from codeine) may wish to be tried. This change also reflects consultation comments regarding pholcodine (see other responses).
GlaxoSmithKline	Guideline	6	11	The draft guideline currently states: "no evidence for cough medicine containing pholcodine or simple linctus was found." GSK notes that the use of pholcodine for the treatment of acute cough was assessed by the European Medical Agency (EMA), (Procedure number: EMEA/H/A-31/1292, dated 17 th of February 2012) "Assessment report for Pholcodine containing medicinal products", (http://www.ema.europa.eu/docs/en_GB/document_library/Referrals_document/Pholcodine_31/WC500124716.pdf) EMA reviewed the clinical efficacy and safety of pholcodine for the treatment of unproductive cough and in the Overall Conclusion session stated that: "The Committee also shows that data from clinical trials and extensive post marketing use has demonstrated the efficacy of pholcodine in the treatment of non-productive cough. The Committee concluded that the benefit-risk balance of pholcodine-containing products in the treatment of	Thank you for your comment. This wording has been removed. For non-antimicrobial and non-pharmacological interventions, preparations were grouped into classes based on the Cochrane review of over-the-counter preparations (Smith et al. 2014) and other included systematic reviews. The review protocol has been updated to include details on this. These classes were then used by the committee to make decisions on whether to progress down the hierarchy of evidence (from systematic reviews, to RCTs, or further) if there was insufficient evidence; and to limit interventions only to those commonly in use in the UK. For over-the-counter (OTC) preparations, classes were OTC expectorants, OTC antitussives, OTC antihistamines and decongestants, and OTC mucolytics. Pholcodine was considered as part of the class, OTC antitussives. The committee agreed that for these interventions (including OTC antitussives as a class) the systematic

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				non-productive cough is positive under	review by Smith et al. 2014 provided sufficient
				normal conditions of use."	evidence, and progressing to RCT evidence
				The following six publications were	was not required. Therefore further evidence
				included in the clinical data section of the	on pholcodine (including that provided in the
				EMA's Assessment:	EMA review) as one particular medicine within this class was not included.
				Comparative efficacy and tolerability of pholoodine and dextromethorphan	within this class was not included.
				in the management of patients with	The included systematic review (Smith et al.
				acute, non-productive cough: a	2014) did not include evidence specifically on
					pholcodine because no placebo-controlled
				study. Equinozzi R, Robuschi M;	trials were identified which met their inclusion
				Italian Investigational Study Group on	criteria. However, the committee recognised
				Pholcodine in Acute Cough. Treat	that randomised control trial evidence on
				Respir Med. 2006;5(6):509-13	pholcodine is available, and the
				2) Randomized single-blind trial in	recommendations have been amended to
				general practice comparing the	remove reference to specific, named
				efficacy and palatability of two cough	antitussives (apart from codeine), and rather
				linctus preparations, 'Pholcolix' and	name the class of OTC antitussives (also
				'Actifed' Compound, in children with	called cough suppressants).
				acute cough. Jaffé G, Grimshaw JJ.	
				Curr Med Res Opin. 1983;8(8):594-9. 3) Pholcodine plus pseudoephedrine in	
				the treatment of cough. A controlled	
				trial. Rose JR. Practitioner. 1967	
				May;198(187):704-7.	
				4) A comparative clinical test of	
				pholcodine with codeine as control.	
				Kelly DF. Northwest Med. 1963 Nov;	
				62:871-4.	
				5) Clinical investigation of antitussive	
				properties of pholcodine. Mulinos	
				MG, Nair KG, Epstein IG. N Y State J	
				Med. 1962 Jul 15;62:2373-7.	
				6) Preliminary evaluation of pholcodine,	
				a new antitussive agent. Heffron CE.	
				J New Drugs. 1961 Sep-Oct; 1:217-	
		<u> </u>		22.	

ORGANISATION	DOCUMENT	PAGE	LINE	COMMENTS	DEVELOPER'S RESPONSE
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				Based on the above, GSK would propose this evidence is considered in NICE's "Evidence Summary" under section 3.2.3 Antitussives, as well as a recommendation to use pholocodine in acute cough as an additional self-care medicine option under section 1.2.1 (page 6) and OTC antitussives section (pages 14 and 19) of the Guideline.	
GlaxoSmithKline	Guideline	6	8	The draft guideline currently states: "limited evidence suggests that antihistamines, decongestants and cough medicines containing the antitussive codeine do not help cough symptoms."	Thank you for your comment. For non-antimicrobial and non-pharmacological interventions, preparations were grouped into classes based on the Cochrane review of over-the-counter preparations (Smith et al. 2014) and other included systematic reviews. The review protocol has been updated to include details on this. These classes were then used by the committee to make decisions on whether to progress down the hierarchy of evidence (from systematic reviews, to RCTs, or further) if there was insufficient evidence; and to limit interventions only to those commonly in use in the UK. For over-the-counter (OTC) preparations, classes were OTC expectorants, OTC antitussives, OTC antihistamines, OTC decongestants, and OTC mucolytics. The committee agreed that OTC antihistamines could be presented as a class, as in the systematic review by Smith et al. 2014, and not separated into first- and second-generation. They also agreed that Smith et al. 2014 provided sufficient evidence on classes of

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				However, the authors of this systematic	OTC medicines, and progressing to RCT
				review were unable to carry out meta-	evidence was not required. Therefore further
				analyses because the studies were too	evidence on antihistamines was not included.
				heterogeneous and provided insufficient	
				data.	The references provided were therefore not
				GSK would like to draw NICE attention	included, and in addition:
					Morice and Kardos 2016 – would have been
				of the use of first-generation	excluded on study type (narrative review)
				antihistamines containing medicinal	
				products for the treatment of cough	Irwin et al. 2006 – executive summary of
				associated with cold and flu and in	other guidance
				particular on diphenhydramine.	
				Morice and Kardos in 2016 have	Packman et al. 1991 – would have been
				published a review titled:	excluded on population (participants do not
				"Comprehensive evidence-based review	have acute cough)
				on European antitussives" including	
				diphenhydramine providing the following	Dicpinigaitis et al. 2015 – would have been
				evidence: "Diphenhydramine is a first-	excluded on population (unclear if participants
				generation H1 antihistamine approved as	have acute cough)
				an OTC antitussive in the USA and the	
				UK. First-generation antitussives in	Howard et al. 1979 – would have been
				combination with oral decongestants are	excluded based on date (pre-2005; unable to
				recommended by the American College	identify from detail provided)
				of Chest Physicians Evidence Based	
				Guidelines for the treatment of cough in	Crutcher et al. 1981 – would have been
				common cold and in the so-called upper	excluded based on date (pre-2005; unable to
				airway cough syndrome.	identify from detail provided)
				GSK acknowledges that this	
				recommendation is based on expert	
				opinion. In cough challenge studies in	
				healthy participants and patients with	
				acute viral respiratory infection	
				(diphenhydramine combination syrup	
				with decongestant) in adults, efficacy	
				could have been established. However,	
				no symptom or objective cough	
				monitoring-based studies are available	

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				for acute cough. There is a clear-cut	
				discrepancy between evidence of efficacy and broad clinical use of	
				diphenhydramine/decongestant	
				combinations for acute cough, despite a	
				sedative effect (dizziness), especially in	
				the USA."	
				The review from Morice and Kardos	
				included the following publications, none	
				of which were included in the Cochrane	
				Systematic Review:	
				1) Diagnosis and management of cough	
				executive summary: ACCP evidence-	
				based clinical practice guidelines. Irwin RS, Baumann MH, Bolser DC,	
				et al. (ACCP) ACoCP. Chest	
				2006;129:1S–23S.	
				2) Chronic cough. Lancet 1981;2:907–8.	
				3) Antitussive effects of	
				diphenhydramine on the citric acid	
				aerosol-induced cough response in	
				humans Packman EW, Ciccone PE,	
				Wilson J, et al. Int J Clin Pharmacol	
				Ther Toxicol.1991;29:218–22.	
				4) Inhibition of cough reflex sensitivity	
				by diphenhydramine during acute viral respiratory tract infection.	
				Dicpinigaitis PV, Dhar S, Johnson A,	
				et al. Int J Clin Pharm 2015;37:471–	
				4.	
				Two studies from Howard et al. (1979)	
				and Crutcher (1981), showed that	
				another first-generation antihistamine,	
				chlorpheramine, used in patients	
				suffering from the common cold, was	
				able to significantly reduce the total	

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				subjective score, including cough, up to seven days. Additionally, there is some clinical evidence that first generation antihistamines have a limited short-term beneficial effect on the severity of overall cold symptoms (days one and two of treatment). Based on the above, GSK would propose this evidence is considered in NICE's "Evidence Summary" under section 3.2.4 Antihistamine and decongestants, as well	
				as a recommendation to use diphenhydramine in acute cough as an additional self-care medicine option under section 1.2.2 (page 6) and OTC Antihistamine and decongestants section (pages 15 and 19) of the Guideline.	
Royal College of Nursing				Advised that they have no comments to submit on this occasion	Thank you for your comment.
Royal College of Paediatrics and Child Health				 This represents an important and worthwhile topic to provide guidance on. Would it be easier to follow if the guideline had a discrete paediatric section? The guideline covers the paediatric age group but disappointing to see lack of obvious representation from those with specific paediatric expertise on the panel 	Thank you for your comments. Based on the evidence identified and their experience, the committee agreed that the recommendations were applicable across all ages, unless an age restriction was included in an individual recommendation (for example for some over the counter medicines). Therefore, a discrete paediatric section would lead to repetition of recommendations. However, an antibiotic choice table specifically for children and young people under 18 years is included in the guideline. The standing committee for this suite of antimicrobial prescribing guidelines were formed in line with the Interim process and

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					guidelines: the manual, and the committee includes a paediatric microbiologist.
Royal College of Paediatrics and Child Health		3	6	In children cough associated with fever >48 hours and shortness of breath is still a good candidate for amoxicillin treatment [expert opinion]	Thank you for your comments. Based on the evidence available, the committee were unable to provide a definitive list of people in whom it may be appropriate to prescribe an antibiotic, including in children. An immediate antibiotic is recommended for people (including children) who are 'systemically very unwell', and either an immediate or back-up antibiotic is recommended for people (including children) who are at a higher risk of complications (which includes young children born prematurely). It is also recommended that for children under 5 with an acute cough and fever, the NICE guideline on fever in under 5s is followed. Amoxicillin is recommended as the first choice antibiotic in children for acute cough, if an antibiotic is appropriate.
Royal College of Paediatrics and Child Health		5	24	Acute cough in the absence of fever and SOB in another wise healthy child should not be routinely treated with anything other than honey (contraindicated in infants). The evidence for this is summarised 2 Cochrane reviews (Oduwole et al 2014 and Smith et al 2014 - see full references below. It is largely covered in the more detailed discussion of the evidence in the document (pages 8-19) although the way they have presented it is a mixture of adult and paediatric information.) Oduwole O, Meremikwu MM, Oyo-Ita A, Udoh EE. Honey for acute cough in	the committee when making the

ORGANISATION	DOCUMENT	PAGE	LINE	COMMENTS	DEVELOPER'S RESPONSE
NAME		NO.	NO.	Please insert each new comment in a	Please respond to each comment
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				children. Cochrane Database of	
				Systematic Reviews 2014, Issue 12. Art.	
				No.: CD007094. DOI:	
				10.1002/14651858.CD007094.pub4.	
				Smith SM, Schroeder K, Fahey T.	
				Over-the-counter (OTC) medications for	
				acute cough in children and adults in	
				community settings. Cochrane Database	
				of Systematic Reviews 2014, Issue 11.	
				Art. No.: CD001831. DOI:	
				10.1002/14651858.CD001831.pub5.	