Practitioners' views on primary care evidence in clinical guidelines: mixed methods study
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29 Abstract:

Background: Clinical practice guidelines are widely used in primary care, yet are not always based on
 applicable research.

32 Aim: To explore primary care practitioners' views on the applicability to primary care patients of

- 33 evidence underpinning National Institute for Health and Care Excellence (NICE) guideline
- 34 recommendations.
- 35 **Design:** Delphi survey and focus groups.
- 36 Method: Delphi survey of the perceived applicability of 14 guideline recommendations rated before
 37 and after a description of their evidence base, followed by two focus groups.
- 38 Results: General practitioners (GPs) significantly reduced scores for their perceived likelihood of
- 39 pursuing recommendations after finding these were based on studies with low applicability to
- 40 primary care, but maintained their scores for recommendations based on highly applicable research.
- 41 GPs reported they were more likely to use guidelines where evidence was applicable to primary care,
- 42 and less likely if the evidence base came from a secondary care population. Practitioners in the focus
- 43 groups accepted that guideline developers would use the most relevant evidence available, but
- 44 wanted clearer signposting of those recommendations particularly relevant for primary care patients.
- 45 Their main need was for brief, clear, and accessible guidelines.
- 46 **Conclusion:** Guidelines should specify the extent to which the research evidence underpinning each
- 47 recommendation is applicable to primary care. The relevance of guideline recommendations to
- 48 primary care populations could be more explicitly considered at all three stages of guideline
- 49 development: scoping and evidence synthesis, recommendation development, and publication. The
- relevant evidence base needs to be presented clearly and concisely and easy to identify way.
- 51

52 How this fits in:

- 53 Clinical practice guidelines are intended to improve the quality of patient care, but general
- 54 practitioners do not always follow guidelines. The evidence base for most guidelines is derived from
- research conducted on secondary care populations in secondary care settings. This study shows that
- 56 GPs regard the setting of evidence for guidelines as relevant to their use, and are more likely to use
- 57 guideline recommendations where the evidence is applicable to their population. Clearer description
- of the applicability of research to primary care patients in a brief accessible guideline format may
- result in improved implementation in primary care, and help to maintain the currently high levels of
- 60 trust in NICE guidance.

61

62 Introduction

63 Clinical practice guidelines are recommendations intended to improve the quality of patient care

64 and should be based on a systematic review of the current relevant available evidence and an

assessment of the benefits and harms of alternative care options (1). Guidelines are seen as one of

the key foundations for quality improvement in England and internationally (2), but their impact on

67 clinical practice has been variable (3, 4).

68 GPs do not always follow guidelines (5-8), attributing their decisions to concerns about relevance 69 and feasibility, and that strict exclusion criteria in clinical trials may reduce generalizability to the 70 broader primary care patient population (9-12). Some guidelines have been found to have limited 71 applicability to general practice settings (10, 11, 13, 14). Other identified barriers to guidelines 72 adherence by primary care practitioners include lack of awareness, unfamiliarity, and disagreement 73 with recommendations (13-16), and concern that the increasing use of guidelines as performance 74 measures can distort patient centred clinical practice(17). General practitioners were more likely to 75 follow evidence based guideline recommendations rather than those not based on research 76 evidence, and wanted more transparency about the research base (9, 15, 18). However, barriers and 77 consequent efforts to improve uptake of guidelines may be different in different settings (19).

78 The National Institute for Health and Care Excellence (NICE) is the chief national source of clinical 79 guidance for England and Wales (20). NICE makes considerable efforts to assist primary care 80 practitioners to use relevant evidence for their patients, including web-based guidance for general 81 practice and primary care professionals about keeping abreast of new NICE guidelines, and monthly 82 summaries of guidelines which are particularly relevant for primary care. NICE provides different 83 versions of their guidelines, with the full detailed guideline being clearly differentiated from briefer 84 versions for clinicians, the public and commissioners. More recently, NICE has been responsible for 85 managing the Quality and Outcomes Framework (QOF), a pay for performance scheme for British 86 general practice which takes clinical guidelines as the starting point for the development of clinical 87 indicators (21).

88 We have previously reported that NICE guideline recommendations for primary care were not

always based on research conducted on, or generalisable to, primary care populations (22, 23), and

90 in this study we aimed to find out whether that mattered to primary care practitioners. We

therefore aimed to explore primary care practitioners' views of the applicability of primary care
 evidence in NICE guidelines.

92 evidence in Nic

93

94 Methods

95 There were two main stages, a two-round online Delphi survey of general practitioners (GPs) to test

the impact of additional information on practitioner views(24), followed by two focus groups with

97 GPs and nurses, to explore the findings from the Delphi survey in more detail.

98 Recruitment

99 For the online Delphi we aimed to recruit 30 GPs nationally through adverts placed in the Society for

100 Academic Primary Care (SAPC) and Royal College of General Practitioners (RCGP) newsletters, and

101 regionally through the Primary Care Research Network in the East of England. This population was

102 targeted for their likely interest and expertise in the study topic.

103 For the two focus groups we aimed to recruit 8-10 participants for each focus group, and excluded

104 those who had already responded to the Delphi. A total of 115 practices in Norfolk and Waveney

105 were invited by the Primary Care Research Network (PCRN). Participants were purposively sampled

106 for their professional background and expertise (25, 26), and then all consenting respondents were 107 utilised in the study.

108 Online Delphi survey

109 Delphi techniques allow experts to express individual views on complex material in a structured and 110 systematic way, and test the extent of change of view (or not) as a consequence of additional

111 feedback; this can be used to develop consensus but can also be used to test the stability and range

of expert views(27). The survey was piloted on a small group of general practitioners. Two rounds of

the final survey were administered online using *SurveyMonkey* (28) between November 2012-

114 January 2013. The survey (Appendix 1) included demographic questions including involvement with

guidelines and then two main sections, first about the applicability of primary care evidence, and

116 then about attributes that might affect guideline use.

117 All recommendations used had been previously assessed as clinically relevant to primary care by at 118 least two GP reviewers, as described elsewhere (23). First, participants were presented with the full 119 text of 14 primary care relevant recommendations from NICE guidelines and asked to rate each 120 recommendation on a scale of 1-9 for applicability to their primary care patients, with 1 being not 121 likely to use with their patients) and 9 being highly likely to use. An electronic link to each full NICE 122 guideline was given for reference. After participants had rated each recommendation, they were 123 given a brief summary of the applicability to primary care of the supporting evidence, and then 124 asked to rate the recommendation again. 125

The recommendations were purposively selected to include a range of high, medium and low applicability of the evidence base to primary care patients. The applicability of evidence for each recommendation was rated as low if evidence for the recommendation was supported by no studies conducted on primary care or community populations, medium if supported by up to half of the studies, and high if the majority of the studies cited as evidence had their participants selected from primary care or the community, as described elsewhere (23).Recommendations were presented in the survey in a random order (Appendix 1).

132 In the second component of the Delphi, participants were asked to rate on a scale of 1-5 (with 1

being "strongly disagree that this attribute is most likely to encourage use of clinical guideline" and 5

being "strongly agree") a list of 16 attributes affecting guideline use, collated from the literature and
 arranged under four categories. The participants were also asked to provide free text comments,

- 136 which were analysed thematically.
- 137 After the first round, each participant was sent the mean scores, as well as their own scores, and

then asked to re-rate both the recommendations and the attributes in a second round. The

- 139 difference in mean scores before and after reading the evidence summary was tested using a paired
- 140 t-test, after tests for normality in Stata/SE (29).

141 Focus groups

142 Results from the Delphi panel were used to develop a focus group topic guide (SEE APPENDIX 2).

143 Guideline attributes identified as important for the implementation and applicability of primary care

144 recommendations, including the importance of primary care research, were explored with two focus

145 groups, one with GPs and the other with primary care nurses. The focus groups were held separately

to allow free expression of views, particularly from practice nurses who are usually employees of

147 GPs, but the data from both groups were analysed together.

148 The focus groups were conducted during January and February 2013 and were facilitated by an

149 independent researcher to ensure impartiality, assisted by a member of the research team (AA).

- 150 They were taped and transcribed, and then analysed thematically using NVivo software (30) by two
- 151 of the researchers (AA, AH) using the framework approach (31, 32).

152 Results

153 Online Delphi survey

Twenty-eight GPs agreed to take part in the Delphi panel, of whom ten were recruited through
national, and 18 through regional approaches. 25/28 (89%) completed the first round and 21/25
completed the second round. The participants represented a broad range of experience in general
practice, with most being service GPs (80%) with no experience of guideline development (88%)
(Table1).

159 Insert table 1

160 Recommendation ratings for applicability to primary care patients

161 Mean ratings for the recommendations' applicability to primary care patients were lower after

162 presentation of evidence for those recommendations where the summary disclosed that less than

163 half of the studies were applicable to primary care populations. Mean ratings remained the same or

164 increased for recommendations where the majority of cited publications were applicable to primary

165 care populations (Table 2). While the majority of respondents altered their ratings modestly (raising

166 or lowering by 1-2 points) after reading the evidence summary, few respondents didn't change their

167 initial ratings. Ratings did not change substantially in the second round, and are not given here.

168 Participants' free text comments included that the wording of some recommendations was complex

169 or not clearly defined, and that a GP 'user' perspective should be included at all stages of guideline

170 development. Some were concerned about the UK applicability of the studies, and not just primary

171 care applicability. Many respondents considered having some evidence is better than having no

evidence, and others commented on the importance of clinical experience when implementingguidelines.

"Overall it appears that I am less critical [than other respondents to the Delphi] of guidelines that do
not originate specifically from primary care – but my reasons for this are 'laissez-faire" rather than
believing other sources are more important. Overall I considered whether the guideline was in
keeping with what, for other reasons, I believe to be good practice, and/or whether it complies with
the old adage "first, do no harm". Most of the recommendations considered met these criteria (e.g.
prescription of thiamine): if the guidelines were suggesting radical change to practice or invasive
treatments I would be much less likely to give them credence without rigorous evidence." GP (Delphi)

181 Insert table 2

182 Attributes affecting guideline use

183 GPs rated nearly all 16 factors as likely to encourage guideline use, including 'Study outcomes used

are relevant and important to primary care population' (Table 3). The notable exception was

185 'Evidence underpinning recommendation comes from secondary care population', which was the

- 186 only attribute with a mean score of less than 3/5. Attributes relating to guideline accessibility such as
- 187 clarity, brevity and accessible format scored highly. Scores did not change in the second round.
- 188 Insert table 3

189 Focus groups

- 190 Ten GPs and ten primary care practice nurses agreed to take part, and six GPs (three men and three
- 191 women) and ten nurses (all women), all from different practices, attended. Four themes were
- identified: 'guideline use', 'evidence base', 'barriers to use', and 'pay for performance'.
- 193 1. Guideline use
- 194 Primary care practitioners in general and nurses in particular were positive about guidelines and
- used them where there was clinical uncertainty, often in short formats.
- 196 Insert quotes
- 197 2. Evidence base

198 Primary care practitioners rarely looked at the evidence behind recommendations unless the 199 recommendation seemed very different from their normal practice.

200 Insert quotes

Few had detailed understanding of guidelines formulation with regard to wording and how it's usedto reflect strength of evidence.

203 Insert quotes

204 Participants were aware of the need to interpret research findings for primary care and were

205 pragmatic about this, and hopeful that future guidelines would have more primary care evidence

- and greater clarity about inevitable gaps in evidence. There was support for clearer labelling ofprimary care based evidence.
- 208 Insert quotes
- 209 Applicability of evidence

Some participants argued that good evidence from secondary care could not be realisticallyimplemented in a primary care population.

- 212 Insert quotes
- 213 3. Barriers to use

214 Participants saw the number of guidelines, time available, and limits of evidence as constraints on

their practical use and appraisal of guidelines. They highlighted that guidelines mostly addressed the

- 216 management of specific conditions post-diagnosis, while primary care practitioners predominantly
- 217 deal with comorbidities and symptoms pre-diagnosis. They wanted guidelines to be short and clear.
- 218 Insert quotes
- 219 4. Pay for performance

220 The UK's national primary care pay for performance scheme or 'quality and outcomes framework'

- 221 (QoF) was identified as a key driver for compliance with guideline recommendations, though some
- 222 concerns were expressed about the impacts of this on professional practice and the associated
- 223 opportunity cost. Limited resources may impede on primary care practitioners' ability to explore
- aspects of clinical care beyond QoF incentivised practice and this could be a hindrance to
- 225 implementation of non- QoF guidelines.
- 226 Insert quotes

227

228 Overall, NICE guidelines were viewed favourably as a major source of practice guidance. Participants 229 commented on the large numbers of guidelines, their need for concise summaries, the advantages 230 of user-friendly web based versions, and the need to identify relevant guidelines quickly when 231 uncertainty drove usage. The groups felt they had to trust the process of derivation and the 232 comprehensive uploading of relevant guidelines, as they had little time to check either background 233 or the availability of guidance. There was considerable evidence of individuals and practice teams 234 trying to be systematic about updating local protocols and templates in line with new guidance, but 235 with concern about the time and feasibility of this given the pressures of work and numbers of 236 guidelines. Streamlining of local protocols across the team, between practices, and with secondary 237 care, and the requirement to meet multiple guidelines as well as QoF indicators all presented 238 additional challenges.

239

240 Discussion

241 Delphi participants considered that recommendations based on evidence from primary care

242 populations were more applicable to their patients than those with no or little primary care evidence.

243 Focus groups wanted clearer signposting of how applicable guideline evidence was for primary care,

and expected significant involvement of primary care practitioners in scoping and developing

245 guidelines. Primary care practitioners were constructively critical of the lack of evidence and lack of

explicit declaration of this, and took a pragmatic view of implementing guidance. Brevity, clarity and
 accessibility were important guideline attributes.

248 Strengths and limitations

This study is the first systematic interrogation of primary care practitioner views on the applicability of primary care evidence in NICE guidelines for primary care. The study demonstrates that there are ways in which primary care practitioners perceive that these guidelines could be made more relevant and thus have more impact upon clinical practice. The participants were likely to be interested in guideline work or they would not have volunteered to take part in the study, and so the results of this study are likely to represent a relatively well informed and 'guideline positive' set of respondents.

256 Comparison with existing literature and implications for research and practice

257 Our findings about attributes that influence the use of guidelines in primary care agree with previous 258 research, which highlighted clarity and clinical applicability of a guideline as important (9, 18, 33, 34). 259 NICE recommends exploring and assessing the applicability to primary care patients under the 260 "indirectness domain" of the modified GRADE criteria, "assessing the degree of differences between 261 the population, intervention, comparator for the intervention and outcome of interest" (35). This 262 exploration of generalisability to the target population is also described in the AGREE II tool criteria 263 (36) which national clinical guideline developers are expected to use, and the NICE guidelines 264 manual (37). Despite these intentions and efforts to make guideline evidence applicable to primary 265 care, this study has shown that primary care practitioners would like clearer descriptions of the 266 applicability of evidence to primary care patients. 267 Other countries have used different approaches to developing guidelines for primary care, some of 268 which may have potential benefit internationally. The New Zealand hand book for primary care

269 compiles relevant recommendations from several guidelines (38) producing a type of "umbrella

270 guideline" that has been recommended to NICE by the WHO review programme (39). The Dutch

271 College of General Practitioners also produces national clinical guidelines that are dedicated to

primary care (40). These models have potential to improve the accessibility of relevant guidance forprimary care.

274 We suggest that primary care relevance should be more explicitly considered at all three main stages 275 of guideline development: scope & evidence synthesis, recommendation development, and 276 publication. This builds on the guidance NICE issues its guideline developers as part of their quality 277 assurance process (37). At the stage of scoping the content of the guideline and evidence synthesis, 278 primary care relevance should be considered from the outset of the initial scoping exercise and be 279 clearly reported to the guideline development group. Ideally there would be input from primary care 280 professionals with relevant content expertise and contextual understanding to interpret the existing 281 evidence and its applicability to their patients. If the scope identified that the guideline had primary 282 care relevance, then the initial review questions for the evidence search and the early findings 283 should be specifically considered for applicability to primary care, with primary care routinely 284 considered as a sub-group in the search. When an initial review question is relevant to primary care, 285 the relevant population should be defined by primary care setting, severity of illness, or risk group in 286 the search strategy and data extraction, and findings reported if evidence is not located.

At the stage of recommendation development, any limitations or lack of evidence in relevant populations (e.g. defined by primary care setting, severity of illness, or risk group) should be specified in the summary of evidence tables. The 'evidence to recommendations' statement should be specific about where primary care research has or has not been reported, and recommendations where applicable primary care evidence was lacking should be clearly badged. Recommendations should be concise, with a clear pathway back from recommendations to research evidence, to allow users to "drill down" into the detail more easily.

294 In the final published guideline, the target population should be clearly stated (e.g. defined by 295 primary care setting, severity of illness, or risk group), and the relevance to that population of all 296 recommendations and intended users clearly described. The published guideline should show which 297 recommendations are supported by consensus, and which by research. It should specify the extent 298 to which the research is applicable to specific populations including primary care, and openly 299 acknowledging uncertainty where present in the guideline development group or the available 300 evidence. All guidelines should be peer reviewed with respect to the clarity with which the relevance 301 of recommendations to primary care is described. We acknowledge primary care evidence is often 302 limited and that evidence from other settings should then be used but, if this is the case, this should 303 be highlighted as a research recommendation in the final guideline.

Primary care practitioners have a high level of trust for NICE guidelines, but were less likely to trust
 and want to use those recommendations with low applicability of evidence to primary care. Clearer
 description of the applicability of research to primary care patients, ideally within a brief accessible
 guideline format, may result in improved guideline implementation in primary care, and help to
 maintain the currently high levels of trust in NICE guidance.

309

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321 Ethical approval

322 The study was approved by Cambridge Central Research Ethics Committee Ref 11-EE-0213.

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418 Box 1: Focus group quotes

Guideline use:

"When you want to find something out or you're unsure of something, you might go in retrospect and then look at the guidelines and see what you perhaps should have done but to learn from the guideline" (GP).

"I actually no longer read what NICE has got to say about it, I go to one of those ...digest websites which condenses it into one screen and I can read it off of there and if I detect anything that I would do differently, then I go back and I will expose myself to the whole guideline which is otherwise too hard work to read" (GP).

"... just use the quick reference. And we get email alerts with the new guidance that's come out or been updated and we usually see if there's anything relevant.....if there's anything I need to use, I go and have a look at it then" (Nurse).

Evidence base (a): "So where there is evidence, I'm sure they do a fab job and I don't need to read the evidence myself to believe them" (GP).

"I've looked once at the ... behind the guidance, I think it was for cardiovascular risk screening and I have to say I really wouldn't look forward to doing it again because there were 382 pages to trawl through and it pulled every aspect of each screening tool to bits" (GP).

"Well you might do, that's a point ... if it was something completely different, you might just want to look at the evidence base I think. If it was quite a different way of treating somebody I think I would have a look at the evidence base then" (Nurse).

Evidence base (b):

"I think as time goes on and more research is done in primary care that that evidence needs to contribute towards the guidelines so it's not just secondary care" (Nurse).

"I've been happy to rely on the NICE guidelines for the evidence that they've reviewed. And I'm sure they did a great job of reviewing that with the best-available methods to rate evidence but what you can't see is the gap, which bit is the bit that they just picked out of thin air because they have to cover that area because there is no evidence? And if there is no evidence, then they can say whatever they think is necessary, which is no better than what I can say on the subject" (GP).

Evidence base (c) "Certainly where you're using NICE guidance, it would be nice to know that they've been done with the thought of general practice in mind" (GP).

Applicability of evidence:

"think if you're doing it, again depending on the subject area, if you did look at all the evidence you'd not find much ... it's so skewed towards what's being done in secondary and tertiary centres and not again what's happening in the real world with GP patients and what's ... like say the number of patients that are not taking their Adacal, I mean how many people have probably done little audits on that? But there's probably not a research paper out there that NICE would be able to get their hands on to say 'Well look, the evidence there' but people don't take ... if they haven't got the evidence, they can't do ..." GP

"I was the only GP on that guideline. And the problem that we'd got, we had with the guideline, was that NICE were brilliant at looking at all of the evidence but a lot of the evidence was from America, a lot of the evidence was from various European countries. There was very, very little research from the UK and even less of any research from Primary Care populations. So there was no evidence to base a Primary Care guideline on. So we had to go with what was available and had to keep adapting. But you were only there as the one GP trying to bring it back to the real world, well actually you know, what's realistic and what sounds realistic and what they think is an ideal and what is actually realistic is very different". GP

Barriers to use

"I think there's just too many for us to follow any more than just 1% if you like" (GP).

"So you wouldn't ever go to the guideline unless you'd had that diagnosis in your head" (GP).

"I think the problem is if you've got somebody who's got several comorbidities and you're trying to do one but it doesn't sit well with another one maybe" (Nurse).

"And also keeping it to sort of one sheet of A4 format or a flow chart, a flow chart with a patient pathway" (GP).

"I don't think it's dealt with by NICE particularly. I don't think it's dealt with by NICE, comorbidity" Nurse

Pay for performance

"with the diabetes you know, the NICE recommendations on ACE inhibitors and statins and things like this, GPs have tended to go to do because they have their QOF box to tick that they've done these things" (GP).

"I think to be fair, a lot of it's targeted towards QOF when you're writing a template" (Nurse).

Table 1: Delphi survey participants' characteristics

Gender: Male	12 (48%)
Female	12 (48%)
Prefer not to say	1 (4%)
Years as a GP: <5 yrs	5 (20%)
5-15	5 (20%)
15-25	8 (32%)
25-35	7 (28%)
Primary role: Service GP	20 (80%)
Academic GP	1 (4%)
Other	4 (16%)
Practice host research Yes	18 (72%)
No	6 (24%)
Don't know	1 (4%)
Postgraduate degree Yes	5 (20%)
No	20 (80%)
Guideline development involvement Yes	3 (12%)
No	22 (88%)

Table 2: Delphi ratings for the recommendations' applicability to primary care patients, before and after
reading a summary of relevance of the evidence base to primary care (PC) patients.

NICE guideline & recommendation number	PC relevant /total studies (n)	Mean rating before evidence (range)*	Mean rating after evidence (range)*	Difference after seeing evidence (95%CI)
Low PC relevance of studies ¹		(101180)	(101180)	(55/661)
CG100/R17(Alcohol &	0/2	7.2 (4-9)	5.6 (2-9)	-1.6**(1.14-
thiamine)				2.22)
CG101/U4(Long acting muscarinic antagonist in COP	0/1 D)	7.7 (5-9)	6.0 (2-9)	-1.7**(1-2.44)
CG101/U1(Post bronchodilate	or 0/2	7.5 (5-9)	6.0 (2-9)	-1.5** (0.86-
spirometry in COPD)	·	, ,	. ,	2.18)
CG108/R27(Offer ACE	0/7	7.8 (3-9)	6.9 (1-9)	-0.9** (0.35-
inhibitors & β blockers for heart failure)	·	. ,		1.49)
CG116/R11(Trial elimination	of 0/10	6.2 (3-9)	4.6 (2-9)	-1.6** (1.08-
the suspected food allergen)				2.17)
CG122/R 1.1.2.1(Serum CA12	5 0/6	7.9 (5-9)	5.8 (2-9)	-2.1** (1.34-
in PC in ovarian cancer)				2.90)
Medium PC relevance of stud	dies ²			
CG127/R15(Ambulatory BPM	20/50	7.5 (2-9)	6.5 (2-9)	-1.0** (0.24-
to confirm hypertension)				1.76)
CG127/R16(Home BPM to	3/8	7.4 (4-9)	6.4 (2-9)	-1.0** (0.56-
confirm hypertension)				1.52)
CG122/R 1.1.1.2(Test women	9/16	7.7 (5-9)	7.1 (3-9)	0.6** (0.05-1.23
with persistent symptoms for				
ovarian cancer)				
CG123/R1.3.1.1(Ask people	11/20	6.6 (1-9)	6.6 (1-9)	0 (-0.38-0.46)
who may have depression 2				
questions)				
High PC relevance of studies	3			
CG108/R3(Measure serum	2/3	8.2 (6-9)	8.3 (6-9)	+0.1 (-0.27-0.27)
natriuretic peptides in heart				
failure)				
CG95/R1.2.1.3(Acute	3/4	7.8 (5-9)	7.8 (4-9)	0 (-0.18-0.26)
coronary syndrome)				
CG102/R 1.2.2(Children &	4/5	7.1 (2-9)	7.4 (2-9)	+0.3 (-1.02-0.54)
meningitis without rash &				
antibiotics				
CG101/U2(Consider alternative diagnosis if FEV1/FVC is <0.7	4/4	7.2 (4-9)	7.6 (3-9)	+0.4 (-1.1-0.28)

FEV1/FVC is <0.7

*Scores were on a scale from 1-9. ** Statistically significant using paired t-test

1 = completely irrelevant recommendation, not be likely to implement

9 = trusted recommendation, are likely to use, highly relevant to patients

1. Low PC relevance of studies= none of the studies cited as evidence for the recommendation had population selected from primary care or the community.

2. Medium PC relevance = Up to half of the studies cited as evidence had their participants selected from PC or the community.

3. High PC relevance = Majority of the studies cited as evidence had their participants selected from PC or the community.

Table 3: Scores for attributes affecting guideline use

Factors related to the guideline topic	Mean rating (range)
Primary care setting indicated in guideline title	4.2 (2-5)
Priority in a primary care setting	4.3 (2-5)
Focus of guideline recommendations on clinical presentation and diagnosis	3.8 (2-5)
Perceived need for change in clinical practice in a certain area	4.2 (3-5)
Factors related to guideline characteristics:	
Produced by a reputable body or authority	4.5 (3-5)
General practitioners involved in development of guideline	4.4 (3-5)
An organisation of which I am a member was involved in the guideline production	3.5 (2-5)
Guidance consistent with other available sources or my previous practice	3.9 (2-5)
Factors related to the accessibility of the Guideline:	
Easy to access or in a format I recognise so I can find key information quickly	4.7 (4-5)
Recommendations are written in a clear, logical, and well organised manner	4.7 (4-5)
Executive summary or clear algorithm showing clinical recommendations	4.6 (4-5)
Not too long	4.4 (3-5)
Factors related to the evidence on which the recommendations a	are based
Study outcomes used are relevant and important to primary care population	4.5 (2-5)
Evidence underpinning recommendation comes from secondary care population	2.8 (1-5)
Link from evidence to recommendation is clear and logical and easy to find	4 (2-5)
Applicability to primary care population e.g. severity of disease and comorbidity is taken into consideration and discussed	4.5 (2-5)

Appendix 1 Online Delphi Survey

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If you require more details, the full guidance can be viewed here

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* Guideline topic:						
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Primary care setting indicated in guideline title	-	-	-	-	-	-
Priority in a primary care setting	-	-		-	-	-
Focus of guideline recommendations on clinical presentation and diagnosis	-	-			-	-
Perceived need for change in clinical practice in a certain area	-	-	-	-	-	-
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238 Edit Question ▼ Move Copy Delete ★ Guideline characteristics:	Strongly agree	Agree	agree nor disagree	-	disagree	don't know
238 Edit Question ▼ Move Copy Delete ★ Guideline characteristics: Produced by a reputable body or authority	Strongly agree	Agree	agree nor disagree	-	disagree	don't know
Q38 Edit Question ▼ Move Copy Delete ★ Guideline characteristics: Produced by a reputable body or authority General practitioners involved in development guideline An organisation of which I am a member was involved in the guideline	Strongly agree	Agree	agree nor disagree	0	disagree	don't know

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* Accessibility of the guideline			Neither			
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Recommendations are written in a clear, logical, and well organised manner		\bigcirc	0		0	
Executive summary or clear algorithm showing clinical recommendations	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
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A40 Edit Question ▼ Move Copy Delete ★The evidence on which the recommendations are based:	.		Neither		0.	
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* The evidence on which the recommendations are based: Study outcomes used are relevant and important to primary care population Evidence underpinning recommendation comes from secondary care population	agree		agree nor disagree	0	disagree	don't know
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Appendix 2

NICE guidelines- Focus group topic guide

Welcome & introduction of researchers

Purpose of focus group

Telling participants the general purpose of the focus group and the time estimate will be 1 hour Reminding participants that their answers will be used for research remain confidential, and that their names will remain anonymous. Get them to sign consent form

Starting (warm up) questions

Do you ever read a guideline? Do you use guidelines? How many times you think you referred to guidelines in the last month? What do you think of NICE guidelines? Can you think of any recent examples where you referred to NICE to guidelines for consultation? And how did you find that?

Main discussion topic

What is you first reaction when you receive a new NICE guideline?

How do you identify recommendations that relevant to you?

What do you consider when you decide to adopt or use a certain guideline or recommendation? (Prompts here will be the list of factors identified from the literature and rated by the Delphi panel; characteristics, accessibility, evidence base) How do you access guidelines and which version do you read (if you do)? do you ever check the GP representation on the development group, do you ever read the evidence to recommendation section?

If the evidence for a recommendation for use in primary care comes from studies done on secondary care, does this change your mind?

Going back to the earlier examples of good or bad recommendations encountered recently, why you think these particular recommendations were good/ bad?

If you were to change something about current guidelines, what would you change? What would make NICE guidelines more usable in general practice?