Primary Care Respiratory Journal (2010); 19(1): 84-86

Primary Care RESPIRATORY JOURNAL www.thepcrj.org

SHORT REPORT

Follow-up survey of general practitioners' perceptions of UK allergy services

Michael Hazeldine^a, Allison Worth^b, Mark L Levy^c, *Aziz Sheikh^d

- ^a Research Student, Allergy & Respiratory Research Group, Centre for Population Health Sciences, The University of Edinburgh, Edinburgh, Scotland, UK
- ^b Senior Research Fellow, Allergy and Respiratory Research Group, Centre for Population Health Sciences, The University of Edinburgh, Edinburgh, Scotland, UK
- ^c Senior Clinical Research Fellow, Allergy and Respiratory Research Group, Centre for Population Health Sciences, The University of Edinburgh, Edinburgh, Scotland, UK
- ^d Professor of Primary Care Research & Development, Allergy and Respiratory Research Group, Centre for Population Health Sciences, The University of Edinburgh, Edinburgh, Scotland, UK

Received 11th November 2009; revised version received 6th January 2010; accepted 8th January 2010; online 21st January 2010

Abstract

Background: A UK survey of general practitioners (GPs) in 2002 found that they perceived allergy care throughout the UK National Health Service (NHS) to be poor. We conducted a follow-up survey in 2009 to see if GPs' perceptions had changed.

Objectives: To determine GP perceptions of allergy care in the NHS in the wake of recent Government reports into allergy care, and to compare the findings of this survey to a similar survey conducted in 2002.

Methods: A cross-sectional postal survey of 500 UK GPs was conducted, using an adapted version of the 2002 questionnaire, modified to reflect recent developments in primary care.

Results: We obtained valid responses from 149 GPs, 87% of whom were based in England. 74% were GP principals and 63% worked in training practices. Most GPs (71%; 95%CI 63-79) rated overall NHS allergy care as poor, expressing concern about both primary care and access to allergy specialists. There were no significant differences in GPs' perceptions of the quality of allergy care provided in primary (p=0.33) and secondary care (p=0.97) or access to specialists (p=0.37), between 2002 and 2009.

Conclusion: This survey suggests that recent professional and parliamentary reviews have not led to any notable improvements in GP perceptions of UK NHS allergy services between 2002 and 2009.

© 2010 Primary Care Respiratory Society UK. All rights reserved.

M Hazeldine et al. Prim Care Resp J 2010; **19**(1): 84-86.

doi:10.4104/pcrj.2010.00002

Keywords allergy, primary care, service provision, questionnaire survey, GPs

The full version of this paper, with online Appendix, is available at www.thepcrj.org

Introduction

Allergic disorders are now extremely common in the UK, with recent data indicating that approximately one-third of the general population has been diagnosed with an allergic condition at some point in their lives.^{1,2} The proportion of children experiencing allergic problems is significantly higher than this (approximately 50%).³

The vast majority of patients suffering from allergic disorders are treated in the community, and care for the majority of these

patients will be provided almost exclusively by their general practitioner (GP) and/or practice nurse.⁴ However, concern has been expressed repeatedly about the lack of allergy knowledge amongst, and the training of, many primary healthcare professionals, thus resulting in poor quality of care.⁵ The shortage in specialist allergy service provision has also been highlighted repeatedly as a contributory factor to the poor outcomes experienced by patients with allergic problems.⁶ Consequently, the majority of patients will have no local access to allergy specialists; some will be referred to organ-based specialists whilst those with multiple allergic problems may end up seeing a number of consultants.⁷

^{*}Corresponding author: Professor Aziz Sheikh, Allergy & Respiratory Research Group, Centre for Population Health Sciences, The University of Edinburgh, Doorway 3, Medical School, Teviot Place, Edinburgh EH8 9AG. Tel: +44 (0)131 664 8730 Fax: +44 (0)131 650 9119 Email: aziz.sheikh@ed.ac.uk

In 2002, the British Society of Allergy & Clinical Immunology commissioned a UK survey of GPs which contributed to the Royal College of Physicians' (RCP) report, *Allergy: the unmet need.*⁸ A summary of the main findings from this work was reported in the peer-reviewed literature.⁹ The survey found that the majority of GPs perceived the provision of National Health Service (NHS) allergy care in both primary and secondary care sectors to be poor. Based on this survey (and other related work), the RCP called for an urgent review of allergy services.⁸ Since then, a number of UK Government reports have highlighted the need for improvements in allergy services, particularly in allergy training for primary healthcare professionals and access to specialist care.^{46,10}

At the request of the House of Lords Allergy Implementation Working Party, we conducted a follow-up survey of GPs' perceptions of UK allergy care. We also compared the findings of this present survey with those from the original study conducted seven years earlier.

Methods

We conducted a cross-sectional descriptive postal survey employing similar methods to those used in our earlier survey.9 To construct our sampling frame, we obtained a database of all members of the Royal College of General Practitioners (RCGP) and from this we randomly selected 500 GPs. This was achieved by obtaining a list of RCGP members, shuffling this list to ensure that it was randomly ordered, and then selecting every 16th member. These selected GPs were sent an anonymous confidential questionnaire with an accompanying letter from the Chairman of the RCGP and a stamped addressed envelope. To optimise response rates, non-respondents were followed up with two additional mailings over a three-week period. A demographic profile of UK GPs¹¹ indicates that 19% are members of the RCGP and that RCGP members are significantly younger and more likely to be female than the full UK GP population.

The survey did not involve any potentially invasive procedures on individuals and therefore ethical permission was not required. The GPs were fully informed and participated voluntarily with their responses kept confidential and anonymous so that they are not individually identifiable in any report or publication.

The questionnaire (see Appendix 1, available online at www.thepcrj.org) was essentially the same as that used in the

2002 survey, which had been developed in consultation with an extensive range of healthcare specialists including GPs and allergy specialists. The main modifications made were to add a question about whether GPs thought that bringing anaphylaxis within the ambit of the Quality and Outcomes Framework (QOF) would help improve anaphylaxis care, and to reduce the overall length of the questionnaire.

Descriptive statistics were used to summarise the main findings; the Chi-square test was used to compare findings with the earlier survey.

Results

Out of the 500 questionnaires distributed, 158 (32%) were returned. Nine GPs did not complete the questionnaire due to illhealth or retirement. Therefore, from the 491 GPs who were potentially eligible, we obtained completed questionnaires from 149 (30%). Of these, 74% were GP principals, 19% were salaried, 5% were locums, 1% were assistants and 1% were retainees. The mean practice size was 16,654 patients. 87% of the GPs practised in England, 7% in Wales, 5% in Scotland and 1% in Northern Ireland. 63% of responding GPs worked in training practices and 5% had access to a primary care-based expert in allergy (a GP or nurse with a special interest).

There was no significant difference between responding and non-responding GPs with respect to either age (p=0.16) or sex (p=0.11). Respondents were also comparable to the full RCGP member population with respect to age (p=0.06) and sex (p=0.11).

Most GPs (71%; 95%CI 63-79) rated the overall provision of allergy care by the NHS as poor (Table 1); more than half of GPs rated allergy care as poor in primary care (54%; 95%CI 45-62) and in secondary care (56%; 95%CI 48-64) (see Table 1).

Only a small minority of GPs offered skin prick testing (3%; 95%CI 0-6), whilst 64% (95%CI 56-72) reported availability of specific-lgE testing.

Over half (52%; 95%CI 44-60) thought that QOF incentives for anaphylaxis care would not translate into improvements in care provision.

Respondents reported that only 29% (95%CI 22-36) of GPs or their partners, and 9% (95%CI 4-13) of nurses, had received allergy training. Only 27% (95%CI 20-35) of GPs expressed interest in undergoing further allergy training, but almost half

Table 1. Comparison of GPs 10-point Likert scale.	opinions on th	e overall quality of I	NHS allergy care in 2002 a	nd 2009, measured on a

Care setting	2002 Mean (sd)	2009 Mean (sd)	2002 Rated Poor (scores 1-5) n (%; 95%CI)	2009 Rated Poor (scores 1-5) n (%; 95%CI)	P-value
Primary care	5 (1.8)	5.2 (2.0)	135 (59%; 52-64)	76 (54%; 45-62)	p=0.33
Secondary care	5 (2.1)	5.0 (2.1)	143 (62%; 56-68)	81 (56%; 48-64)	p=0.93
Access to specialist care	4 (2.1)	3.8 (2.1)	186 (80%; 75-85)	115 (79%; 73-86)	p=0.37
Care throughout the NHS	4 (1.9)	4.5 (1.8)	180 (82%; 76-86)	94 (71%; 63-79)	p=0.11

(40%; 95%CI 33-48) thought they would benefit from such education.

The results showed no significant differences between the 2002 and 2009 surveys in terms of GPs' perceptions of the quality of allergy care provided in primary and secondary care, access to specialists, or overall provision of allergy care by the NHS (see Table 1).

Discussion

The results of this survey suggest that recent professional and parliamentary reviews (including the House of Lords) have not led to any notable improvements in GPs' perceptions of NHS allergy services. 4,6,8,10 Concerns are still being expressed by a clear majority of GPs about the quality of primary and secondary care, access to allergists, and NHS allergy care overall.

The main strengths of this survey are the random sampling of GPs from throughout the UK, the multi-disciplinary input into the questionnaire design, and the updated information it provides on GPs' views of allergy care.

Limitations of this study include the lower response rate than in 2002. This is possibly due to a combination of recent changes in UK General Medical Services contracts for GPs, which financially rewards certain tasks (with the possible neglect of other non-incentivised tasks), and GPs' current burden of clinical and administrative work, including work relating to the recent swine flu epidemic. Nevertheless, the characteristics of responding and non-responding GPs were similar with respect to both age and sex, suggesting that the results are likely to be generalisable to the wider 8,000 GPs who are members of the RCGP. But it is also possible that GPs who had taken the trouble to complete the questionnaire had a particular reason for doing so – either because they have a special interest in allergy care or because they look after patients who have had particularly bad experiences of NHS allergy care; in which case, generalising from these results is more difficult. However, given the very low numbers of GPs registered as having a special interest in allergy on the RCGP database (n=5), the former reason seems unlikely.

Other limitations include the nature of the RCGP membership database used in this study, which comprises 19% of the total number of UK GPs.¹¹ This was different from the commercial database used in the 2002 survey (which was also not directly comparable to the UK GP population). This does therefore limit the potential to compare findings between the two time periods. However, although the results from both surveys cannot necessarily be extrapolated to the UK GP population as a whole, the remarkably similar results suggest that the nature of the databases is unlikely to have had a major impact on our findings. Finally, the questionnaire (see Appendix 1) used visual Likert scales ranging from poor at one end to excellent at the opposite end, which may in some cases have influenced the scoring of the respondents' opinions.

Conclusion

This study suggests that GPs believe that the current provision of allergy services is very similar to that in 2002 and that problems still persist throughout the NHS. The House of Lords Allergy Implementation Working Group needs to ensure that the previous recommendations — which still stand — are now implemented. However, this is likely to prove even more difficult to achieve than previously because of the economic squeeze on the NHS. Nevertheless, until these recommendations are implemented, it is likely that many patients with allergic problems will continue to receive sub-optimal care.

Funding None

Acknowledgements

Our thanks to the RCGP CIRC team and in particular Richard Neave who kindly supported this work. Our thanks are also due to Dr Colin Simpson, Ms X Zheng, Professor David Price and Professor Phil Hannaford who contributed to the earlier survey. Finally, we wish to express our thanks to the GPs who kindly responded to our survey.

Potential conflict of interests

AS is a member of the House of Lords Allergy Implementation Working Group and is the RCGP's Allergy Clinical Champion. MLL is the Editor-in-Chief of, and AS is an Assistant Editor of, the *PCRJ*; neither were involved in the editorial review of, nor the decision to publish, this article.

References

- Gupta R, Sheikh A, Strachan DP, Anderson HR. Burden of allergic disease in the UK: secondary analyses of national databases. Clin Exp Allergy 2004;34:520-6. http://dx.doi.org/10.1111/j.1365-2222.2004.1935.x
- Anandan C, Gupta R, Simpson CR, Fischbacher C, Sheikh A. Epidemiology and disease burden from allergic disease in Scotland: analyses of national databases. J R Soc Med 2009;102:431-42. http://dx.doi.org/10.1258/ irsm.2009.090027
- Punekar YS, Sheikh A. Establishing the incidence and prevalence of cliniciandiagnosed allergic conditions in children and adolescents using routinely collected data from general practices. Clin Exp Allergy 2009;39:1209-16. http://dx.doi.org/10.1111/j.1365-2222.2009.03248.x
- Department of Health. A review of services for allergy. London: Department of Health, 2006.
- Covey D, McManus L, Mills C, Scadding G. Written evidence from Allergy UK. In: House of Lords Science and Technology Committee. Allergy Volume 2: Evidence. 6th Report of Session 2006-07. London: The Stationery Office, 2007.
- House of Lords Science and Technology Committee. Allergy. 6th report of session 2006-2007. London: The Stationery Office, 2007.
- Punekar YS, Sheikh A. Establishing the sequential progression of multiple allergic diagnoses in a UK birth cohort using the General Practice Research Database. Clin Exp Allergy 2009;39:1889-95. http://dx.doi.org/10.1111/ j.1365-2222.2009.03366.x
- Royal College of Physicians. Allergy: the unmet need. A blueprint for better patient care. London: Royal College of Physicians, 2003.
- Levy ML, Price D, Zheng X, Simpson C, Hannaford P, Sheikh A. Inadequacies in UK primary care allergy services: national survey of current provisions and perceptions of need. Clin Exp Allergy 2004;34:518-19. http://dx.doi.org/ 10.1111/j.1365-2222.2004.1945.x
- Scottish Medical and Scientific Advisory Committee. Review of Allergy Services in Scotland. Edinburgh: Scottish Government Directorates, 2009.
- RCGP. Key Demographic Statistics From UK General Practice. Royal College of General Practitioners. 2006. [cited 2009 August 30]. Available from: URL: http://www.rcgp.org.uk/pdf/ISS_FACT_06_KeyStats.pdf

Appendix 1: Study questionnaire



ALLERGIC DISEASES

SURVEY QUESTIONNAIRE

Professor Aziz Sheikh, Michael Hazeldine

Allergy & Respiratory Research Group, Centre for Population Health Sciences: General Practice Section, University of Edinburgh

CONFIDENTIAL

Office Use

Follow-up survey of general practitioners' perceptions of UK allergy services

SECTION A – AL	LERGY CA	RE				
•	think of the elers? (1 = terrible	_	•	f NHS c	are for	people with
Primary Care	1 2 3	4 5	6	7 8	9 1	0
Secondary Care	1 2 3	4 5	6	78	9 1	10
Access to Specialists	1 2 3	4 5	6	7 8	9 1	10
Throughout the NHS	1 2 3	4 5	6 ′	7 8	9 1	0
FOR ALL PARTS TO ADULTS AND CHIL	DREN			1500		
provides a con	ractice have ac nprehensive ser na, rhinitis, ec phylaxis?	rvice for p	eople su	ıffering f	rom alle	ergic diseases
Children: Yes		100	9	Don't	Know	
Adults: Yes		40 Cijo [Don't	Know	
2b How far is this	s hospital/clinic	from you	? (miles)		
Children:	Vil So.					
Adults: 2c What is the cu	rrent waiting t	ima far a s	voutina	annaintn		
Children:	Days	inie ioi a i	outine	Don't		
Adults:	Days			Don't		
	rrent waiting t	ima for an	omorg			<u> </u>
Children:	Days	mic ivi ali	emer ge	Don't		
Adults:	Days			Don't		

M Hazeldine et al.

3	Does your allergy?	practice of	ffer skin p	orick tests f	for investigation	n of possible
	Yes		No		Don't Know	
4	• •	oractice hav possible alle		ess to serun	ı-specific IgE te	sts (RAST) to
	Yes		No		Don't Know	
	If yes, do yo	ou use these?	•			
	Yes		No		Don't Know	
5	Do you hav	e a special ii	nterest in a	ny allergic di	isorder(s)?	
	Yes		No		Don't Know	
	If yes, which	h in particul	ar?		,50	
				(30)	0	
6		_	-	e-based exp se specialist)	ertise in allergy ?	(e.g. GP with
	Yes		No		Don't Know	
7	Have you o		r partners	received any	training in the	management
	Yes	ON	No		Don't Know	
Under	If yes, at wh	٦	nte Dip	loma D	egree Short	course
	Who provid	led the cour	se and wha	t did it entai	1?	
8	-	be intereste special inte	-		r training to tak	e on a post as
	Yes		No		Don't Know	

Follow-up survey of general practitioners' perceptions of UK allergy services

9	Would you, a partner or another member of the practice team benefit from training in allergy?
You [Another Doctor Your nurse (please specify)
	If yes, please describe the training you think is needed
	How could this be delivered?
	Nt.
10	Have any of your practice nurses undergone any training in allergy?
	Yes No Don't Know
	If yes, at which level
	Undergraduate Postgraduate Short course
	Who provided the training and what did it entail?
	ald glight.
11	On a scale of 1 to 10, how would you rate your own confidence in providing care to your patients with the following problem? (1 = no confidence at all 10 = extremely confident)
a	ASTHMA
Diagn	osis 1 2 3 4 5 6 7 8 9 10
Treatr	ment 1 2 3 4 5 6 7 8 9 10
b	ALLERGIC RHINITIS
Diagn	osis 1 2 3 4 5 6 7 8 9 10
Treatr	ment 1 2 3 4 5 6 7 8 9 10
c	ANAPHYLAXIS

Diagnosis	1 2 3 4 5 6 7 8 9 10						
Treatment	1 2 3 4 5 6 7 8 9 10						
d URTIC	CARIA						
Diagnosis	1 2 3 4 5 6 7 8 9 10						
Treatment	1 2 3 4 5 6 7 8 9 10						
e ANGIO	OEDEMA						
Diagnosis	1 2 3 4 5 6 7 8 9 10						
Treatment	1 2 3 4 5 6 7 8 9 10						
f FOOD	ALLERGY						
Diagnosis	1 2 3 4 5 6 7 8 9 10						
Treatment	1 2 3 4 5 6 7 8 9 10						
g DRUG	ALLERGY						
Diagnosis	1 2 3 4 5 6 7 8 9 10						
Treatment	1 2 3 4 5 6 7 8 9 10						
h VENO	M ALLERGY						
Diagnosis	1 2 3 4 5 6 7 8 9 10						
Treatment	1 2 3 4 5 6 7 8 9 10						
Co	5,						
	cale of 1 to 10, how would you rate your own confidence in providing o young children who react to foods and have special dietary						
	ements? (1 = no confidence at all $10 = \text{extremely confident}$)						
Diagnosis	1 2 3 4 5 6 7 8 9 10						
Treatment	1 2 3 4 5 6 7 8 9 10						
12b Do have any children in your practice diagnosed with multiple food allergies?							
anci gi							
	Yes No Don't Know						

Follow-up survey of general practitioners' perceptions of UK allergy services

	If yes	, approx	imatel	y how n	nany o	f them o	do you i	manage	them y	ourself?	
All		Most		Some		Few		None			
	If app	olicable,	where	do you	refer t	hese chi	ildren?	(delete	as appro	priate)	
Dis	If applicable, where do you refer these children? (delete as appropriate) Discipline/Hospital										
		Yes			No			Don't l	Know		_
	If yes, approximately how many of them do you manage yourself?										
All		Most		Some		Few		None			
	If app	olicable,	where	do you	refer t	hese chi	ildren?	(delete	as appro	priate)	_
Dis	scipline/I	Hospital						. 01	70,		
								~ OC/			_
12d		ou have a ou belie						dietary	or grow	th proble	ems
		Yes			No	Soll	Silvito	Don't l	Know		
	If yes	, approx	imatel	y how n	nany of	f them o	do you	manage	yoursel	f?	
All		Most		Some		Few		None			
	If app	olicable,	where	do you	refer t	hese chi	ildren?	(delete	as appro	priate)	_
Dis	scipline/I	Hospital	Priv	Joseph Joseph							
13	point				_	- •				work (QC n history	
		Yes			No			Don't l	Know		
14		ou curr				enaline	auto-	injector	es (e.g.	Epi-pen)	to
		Yes			No			Don't l	Know		
15	•	ou confi aline au			sing pa	itients/c	arers l	now and	d when	to use th	eir
		Yes			No			Don't I	Know		

SECT	TION B – YOU A	ND YOUR	PRACTION	CE	
1	Sex	Male	F	emale	
2	Age	Year	rs .		
3	Do you suffer from	any allergic c	onditions?		
	Yes	No	D	on't Know	
4	In which year did yo	ou obtain you	r primary	medical qual	lification?
5	What is your ethnic	origin?			1
White	Black Caril	obean	Black Af	rican .	Asian
If other	r please state;			- cocile	
6	Are you a member o	of any of the f	ollowing?	.75	
The Ro	oyal College of GPs		., </th <th>The GPIAC</th> <th>G</th>	The GPIAC	G
The Ro	oyal College of Physic	ians	26501	The BSAC	I
7	Please select from th	ne following v	which best o	describes you	1
GP Pri	ncipal		GP Retai	ner	
Assista	nnt	(C) (O)	Locum		
Salarie	ed GP	S. S	If other p	lease state _	
8	What is the patient	size of your p	ractice?		
9	What is the name of	your PCT?			
10	How many whole tin	ne equivalen	doctors w	ork in the pr	actice?
	J	•		1	
11	What is the practice	post-code?			
12	Do you work in 'tra	ining' practio	ee? Y	es	No
Please	feel free to make an	y further com	ments abo	ut allergy pr	ovision in the UK