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

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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.

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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

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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 Gi 10-point Likert scale.	Ps' opinions o	n the overall qua	ality of NHS allergy care i	n 2002 and 2009, measure	d on a
	2002	2009	2002	2009	

Care setting	2002 Mean (sd)	2009 Mean (sd)	2002 Rated Poor (scores 1-5) n (%; 95%Cl)	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.

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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

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SECTION A – AL	LERGY CARE		
•	think of the overall ers? (1 = terrible 10 = ex		for people with
Primary Care	1 2 3 4 5	6 7 8 9	10
Secondary Care	1 2 3 4 5	6 7 8 9	10
Access to Specialists	1 2 3 4 5	6 7 8 9	10
Throughout the NHS	1 2 3 4 5	6 7 8 9	10
FOR ALL PARTS TO ADULTS AND CHILL	QUESTION 2 PLEAS DREN	E ANSWER IN RELA	TION TO BOTH
provides a com	actice have access to prehensive service for na, rhinitis, eczema, vohylaxis?	people suffering from	allergic diseases
Children: Yes	No	Don't Kno	w
Adults: Yes	No No	Don't Kno	w
2b How far is this	hospital/clinic from yo	ou? (miles)	
Children: Adults:	11. 50.		
2c What is the cu	rrent waiting time for a	a routine appointment	?
Children:	Days	Don't Kno	w
Adults:	Days	Don't Kno	w
2d What is the cu	rrent waiting time for a	an emergency appoint	ment?
Children:	Days	Don't Kno	w
Adults:	Days	Don't Kno	w

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3	Does your allergy?	practice of	ffer skin p	rick tests f	for investigation	of possible
	Yes		No		Don't Know	
4		oractice hav possible alle		ess to serun	n-specific IgE tes	ts (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 ir	nterest in ar	ny allergic di	isorder(s)?	
	Yes		No		Don't Know	
	If yes, which	h in particul	ar?		150	
				130	200	
6	-	_	-	e-based exp se specialist)	ertise in allergy ?	(e.g. GP with
	Yes		No		Don't Know	
7	Have you o of allergic d		r partners No	received any	y training in the Don't Know	management
Under	If yes, at wh	٦	nte Dipl	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 take	e on a post as
	Yes		No		Don't Know	

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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?
	- St
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 = 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 ha	eve any children in your practice diagnosed with multiple food
0	Yes No Don't Know
	Don't know

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	If yes,	, approx	imatel	y how r	nany o	f them o	do you	manage	them y	ourself?	
All		Most		Some		Few		None			
	If ann	olicable.	where	do vou	refer 1	these ch	ildren?	(delete	as appro	opriate)	
Dis	If applicable, where do you refer these children? (delete as appropriate) Discipline/Hospital										
	•	1									
		Yes			No			Don't I	Know		
	If yes,	, approx	imatel	y how r	nany o	f them o	do you	manage	yoursel	lf?	
All		Most		Some		Few		None			
	If app	olicable,	where	do you	refer	these ch	ildren?	(delete	as appro	opriate)	_
Dis	cipline/F	Hospital						. 01	7,		
								~ OC/			_
12d								dietary	or grow	th proble	ms
	that y	ou belie	ve may	y be rela	ated to	allergie	es?	7			
		Yes			No		Se il	Don't I	Know		
	If yes	, approx	imatel	y how r	nany o	f them (do you	manage	yoursel	lf?	
All		Most		Some		Few		None			
	If app	olicable,	where	do you	refer 1	these ch	ildren?	(delete	as appro	priate)	_
Dis	cipline/F	Hospital	Pil	No of	00						
13	points				_	- •				work (QC a history	
	апарі	Yes			No			Don't I	Know		
14		ou curr				renaline	auto-	injector	s (e.g.	Epi-pen)	to
		Yes			No			Don't I	Know		
15	-	ou confi aline au			sing p	atients/c	arers l	how and	dwhen	to use th	eir
		Yes			No			Don't I	Know		

SECT	ΓΙΟΝ Β – YOU AN	ND YOUR	PRACTIO	CE	
1	Sex	Male	Fe	emale	
2	Age	Yea	ars		
3	Do you suffer from a	any allergic	conditions?		
	Yes	No	De	on't Know	
4	In which year did yo	ou obtain yo	ur primary 1	medical qualif	ïcation?
5	What is your ethnic	origin?			.1
White	Black Carib	bean	Black Afr	rican 🗌	Asian
If othe	er please state;			cocie	*
6	Are you a member o	f any of the	following?	4	
The Ro	oyal College of GPs		.,o	The GPIAG	
The Ro	oyal College of Physic	ians	262,0	The BSACI	
7	Please select from th	e following	which best d	lescribes you	
GP Pri	incipal		GP Retain	ner	
Assista	ant		Locum		
Salarie	ed GP	Sex	If other pl	lease state	
8	What is the patient s	size of your	practice?		
0	Cox	рста			
9	What is the name of	your PC1?			
10	How many whole tin	ne equivaler	nt doctors wo	ork in the prac	ctice?
11	What is the practice	post-code?			
12	Do you work in 'trai	ning' practi	ice? Yo	es	No
Please	feel free to make any	further cor	nments abou	ıt allergy prov	vision in the UK