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The benefits of providing GPs with the results of a Confidentia Enquiry into asthma death

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Abstrac

Aims

Psinted materials are used to change behaviour yet evidence suggest they generally have little effect. This survey investigated the impac on GPs of reports from a Confidential Enquiry into Asthma Deaths.

Methods

Aarandom sample of 1 in 4 general practitioners from East Angli were sent a questionnaire, total = 306. 71% (218) completed th questionnaire

Results

80% (117) of those who read reports could identify risk factors for

asthma death, compared to 22% (13) of those who had not rea reports. The difference (58%) was highly statistically significant p≤0.0001 (95% C.I. 44% to 69%) even after adjusting for variou confounding factors including interest in asthma. Furthermore, o those who had read a report, 53% stated these had altered thei management of patients

Conclusion

The findings suggest that locally-generated mailed guidance on specific major health issue can have an important impact o knowledge and reported clinical practice

Introductio

Pointed educational materials are frequently used to change behaviour yet evidence from systematic reviews suggests that they have little if any effect 1

The East Anglian Confidential Enquiry into asthm dgaths has been conducted since 1992, investigatin 7d deaths within Cambridgeshire, Norfolk an Shiffolk. This involves respiratory physicians, genera practitioners, nurses and public health physicians Reviewers for the confidential enquiry examin hospital and general practice records, and wher possible visit the patient's general practitioner an their next of kin

Detailed discussion with individual practitioners i inherent in confidential enquiries ² which may len them particular salience. In addition, the Eas Anglian enquiry team produces an annua report. This has been distributed to al general practitioners in the three countie each year since 1994. These reports describ thasic details about each death and eac report has stressed factors characterisin throse at increased risk of developing sever or fatal asthma ³ This study was performe to assess the impact of these annual report on general practitioners withi

Cambridgeshire, Norfolk and Suffolk

Method

Al one in four random sample of genera practitioner principals withi Rambridgeshire, Norfolk and Suffol received a questionnaire 8 months after th nhost recent report had been circulated (tota surveyed = 306). The random sample wa pmoduced by including every fourth GP fro alliphabetically ordered lists provided by eac health authority. GPs were surveye between February and March 2000. Non raspondents were followed up twice and total of 222 responses were received.

One response was blank and there were thre description of the left 218 questionnaires, a 71 response rate (71-72% across the three counties). Health authorities provided demographic dat concerning sex, Membership of the Royal College of General Practitioners (MRCGP) and trainer status whilst the Medical Register provided data on year since qualification (a proxy for age)

Result

Stome 142 respondents (65%) remembered the mos recent report, whilst 77 respondents remembered on of the previous reports (35%). Overall, 14 respondents (67%) had read at least one report, an three had been qualified marginally longer than thos who had not read a report (mean difference = 2. years, p=0.02), see table 1

Table 1: Background of respondents identified by GPs who either had or had not rea an East Anglian Confidential Enquiry into Asthma deaths repor

	Read report (n=146)	Did not read report (n=59)	Difference in proportions or means (95% C.I.	p -valu
Mal	106 (73%	44 (75%	-2% (-14% to 12%	0 .7
Years post qualificatio	2 0.8 (s.d. =7.6)8.1 (s.d. =7.2	3.7years (0.4 to 5.0	0.0
MRCG	5 9 (40.5%	2 4 (40.5%	0% (-15% to 14%	90.9
GP Traine	2 8 (19%	7 (12%	7)% (-5% to 17%	0 .1
Special interest in asthm	71 (49%	3 4 (41%	8% (-7 to 22%	9.2
Practice holds dedicated	125 (86%	5 0 (85%	1)% (-9% to 13%	0 .6
æsthma clini				
Information from reports	s 77 (53%	2 (3%	*	*
altered managemen				

^{*} Not formally compared, as those who had not read the reports would not be expected t have altered their management as a result of information from the report 95% C.I. = 95% Confidence Interva

snd. = standard deviatio

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#rim Care Resp 2002 11(3 #103-10 Respondents were asked to value report from 1 to 5 (report of no value to ver valuable). Of those who had read a report 89% gave 3 or more on this scale, and 53 stated that reports had altered their manage ment of individual patients

All respondents were asked to list up t three risk factors that were identified withi the reports for development of severe o fotal asthma. Some 117 (80%) of those wh read the reports could identify one or mor risk factors. This contrasts with only 1 (22%) of those who had not read an report. This difference in proportions (58% whas highly statistically significant, p<0.00 (95% confidence interval 44% to 69%), se table 2. This remained the case afte adjusting (using logistic regression) for th following: years since qualification, sex Inolding MRCGP, general practitione trainer status, holding dedicated asthm clinics, or stating an interest in asthma The odds ratio of listing one or more ris factors for those who had read a repor Wersus those who had not was 15.5 (95

Confidence Interval 7.0 to 34.3, p<0.001). Figure dymonstrates the number of risk factors identified b those who had or had not read the reports

Conclusion

Results from this study suggest that this confidentia enquiry has had a significant impact upon knowledge Almost 70% of local general practitioners had rea ode report and half of these stated the reports ha influenced their patient management. Those who ha read a report had sixteen times the odds of identifyin one or more risk factors associated with severe o

Figure 1: Number of risk factors identified by respondents who either ha or had not read an East Anglian Confidential Enquiry into Asthma death Repor Not read a repor 50 Read at least one repor 40 Number of respondents 30 20 10 0 0 1 2 3 Number of risk factors identified

Able 2: Risk factors identified by GPs who either had o had not read an East Anglian Confidential Enquiry int Asthma deaths repor

	Read Report		Did not read repor	
	n	%	n	%
Risk factors				
One or more risk factor	7 1	8	3	2
from following list wa				
identified				
Psychological factor	0	2	3	5
Social factors (e.g. deprivation	4	3	2	3
P oor complianc	4	3	3	5
Failure of follow-u	2	5	1	2
Freatment factor	θ	2	3	5
Hospital asthma admissio	8	9	4	7
Emergency deterioratio	7	2	4	7

Footnotes

Difference in proportion identifying one or more risk factors wa 5\% (95\% confidence interval 44\% to 69\%, p-value <0.001 for one or more identified risk factor

*Treatment factors include those receiving three or more asthm ddugs, high dose inhaled steroids; oral steroids; nebulise treatment; or two or more bronchodilators per month

fastal asthma than did those who had not. It i possible that these general practitioners wer particularly interested in the reports because the described their own (or colleagues) patients. It is als possible that those who had not read any reports fel discouraged from guessing risk factors. Nonetheless order 80% of those who had read a report coul identify at least one risk factor for severe or fata asthma. These results appear contrary to the genera conclusion of a systematic review on the effectivenes of printed educational materials ¹ The reviewer tentatively stated that "the effects of printe educational materials compared with no activ intervention appear small and of uncertain clinica significance". In contrast, our results suggest tha locally generated printed guidance on a specific majo health issue can have an important impact o knowledge and reported clinical practice.

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