

Primary care



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National survey of job satisfaction and retirement intentions among general practitioners in England

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Abstract

Objectives To measure general practitioners' intentions to quit direct patient care, to assess changes between 1998 and 2000, and to investigate associated factors, notably job satisfaction.

Design Analysis of national postal surveys conducted in 1998 and 2001.

Setting England.

Participants 1949 general practitioner principals, of whom 790 were surveyed in 1998 and 1159 in 2001.

Main outcome measures Overall job satisfaction and likelihood of leaving direct patient care in the next five years.

Results The proportion of doctors intending to quit direct patient care in the next five years rose from 14% in 1998 to 22% in 2001. In both years, the main factors associated with an increased likelihood of quitting were older age and ethnic minority status. Higher job satisfaction and having children younger than 18 years were associated with a reduced likelihood of quitting. There were no significant differences in regression coefficients between 1998 and 2001, suggesting that the effect of factors influencing intentions to quit remained stable over time. The rise in intentions to quit was due mainly to a reduction in job satisfaction (1998 mean 4.64, 2001 mean 3.96) together with a slight increase in the proportion of doctors from ethnic minorities and in the mean age of doctors. Doctors' personal and practice characteristics explained little of the variation in job satisfaction within or between years.

Conclusions Job satisfaction is an important factor underlying intention to quit, and attention to this aspect of doctors' working lives may help to increase the supply of general practitioners.

Introduction

Professional leaders and government believe that the general practitioner workforce in England is too small to meet current demand. Supply has been reduced by the increased proportion of female doctors (whose lifetime labour supply is lower than that of men), a trend towards early retirement, and the move towards part time working among men as well as women.¹ The principal strategies for addressing the shortage are to increase recruitment and retention and to shift work from general practitioners to other health professions,

notably nurses.² Policies for enhancing recruitment include the expansion of medical school places and the recruitment of doctors from overseas.² Policies for enhancing retention include introducing more flexible working arrangements and financial rewards to doctors who defer retirement until age 65 years.³

We surveyed general practitioners' intentions to quit direct patient care and investigated the factors that could be associated with this, particularly job satisfaction.

Participants and methods

We drew a random sample of 2000 general practitioner principals in England from the 1999 database of doctors maintained by the Department of Health. We measured overall job satisfaction using a standardised instrument with a seven point scale in which high scores represent high satisfaction.⁴ Doctors rated the likelihood of their leaving direct patient care within five years on a five point scale, ranging from 1=none to 5=high. Those scoring 4 or 5 on the scale were classified as intending to quit. Information was collected on doctors' personal and practice characteristics. Questionnaires were posted to doctors in March 2001.

We compared data from the 2001 survey with those from a national survey of 2064 general practitioner principals conducted in June 1998, which used identical questions.⁵ We had 790 questionnaires suitable for analysis from 1998 and 1159 from 2001.

We combined the data from the two surveys. We used a multiple logistic regression of intention to quit on personal and job characteristics and job satisfaction. To investigate the determinants of job satisfaction we did ordinary least squares and ordered logit multiple regressions on personal and practice characteristics.

Results

Both samples are representative of the populations from which they were drawn in terms of age, sex, and partnership size. The proportion of general practitioners who were under 65 years of age and intending to quit direct patient care in the next five years rose from 14% in 1998 to 22% in 2001 (table 1). Mean job satisfaction declined from 4.64 in 1998 to 3.96 in 2001 (table 2). There were only small differences in the characteristics of the samples in the two years.

Higher overall job satisfaction and having children under 18 years of age were significantly associated with a reduced likelihood of quitting. Doctors from ethnic minorities in both 1998 and 2001 were more likely than white doctors to intend quitting, although the effect was significant only in 2001 (see [bmj.com](#)).

The signs and magnitudes of the coefficients are similar in the two years, suggesting that the effect of the variables influencing intentions to quit did not change. There were no significant differences between years in the individual regression coefficients, and a joint likelihood ratio test on all the differences did not show significant difference ($\chi^2=25.7$, $df=25$; $P=0.42$). Thus, the increase in the proportions intending to quit is due to changes in the values of the variables, not their effects. As table 2 shows, there was an increase in the proportion of doctors from ethnic minorities and in the mean age of doctors and a reduction in job satisfaction.

In 1998, higher job satisfaction was associated with a rural practice location, being white, female, older, and without children under 18 years of age (see [bmj.com](#)). In 2001, the picture was slightly different. Higher job satisfaction was associated with serving populations with low deprivation, working fewer hours, and being white and young. Only the coefficients for working hours and age were significantly different between years, suggesting that their relation to job satisfaction had changed over time. No other significant differences in the coefficients were found, showing that the factors affecting job satisfaction were broadly similar in 1998 and 2001.

Discussion

The high proportion of general practitioners intending to retire early is likely to be a source for concern to the NHS but at least partly reflects wider societal trends.^{6,7} The relative affluence of doctors may enable those who want to quit work to act on this wish, and the greater financial demands placed on those with young children may be one reason why such doctors were less likely than others to intend leaving. The finding that increased job dissatisfaction was associated with an increase in intentions to quit accords with previous research.^{5,7,8} Unlike other factors affecting intentions to quit, job dissatisfaction is potentially amenable to policy intervention.

Job satisfaction

Job satisfaction was related to several personal and practice characteristics. Longer reported working hours were associated with lower levels of satisfaction. This is consistent with previous research suggesting that high workload is the principal source of job related discontent among British doctors, including general practitioners.^{5,9} As in previous research, men generally experienced higher levels of job dissatisfaction than women.⁵ Our findings also show that ethnic minority doctors and those serving urban and deprived populations may experience lower job satisfaction.

Doctors' personal and practice characteristics, however, explained only a small part of the overall variance in job satisfaction. This suggests that the principal causes of general practitioner discontent lie

Table 1 Proportions of general practitioners intending to quit direct patient care by age, 1998 and 2001

Age (years)	1998 survey		2001 survey	
	No of doctors	No (%) intending to quit	No of doctors	No (%) intending to quit
≤35	113	4 (4)	151	9 (6)
36 to 40	187	8 (4)	242	22 (9)
41 to 45	195	18 (9)	275	30 (11)
46 to 50	125	9 (7)	208	31 (15)
51 to 55	102	28 (27)	194	87 (45)
56 to 60	53	34 (64)	76	66 (87)
60 to 65	15	12 (80)	13	9 (69)
All ages	790	113 (14)	1159	254 (22)

within the wider environment. The organisation and governance of general practice has greatly changed in recent years, and doctors may be experiencing difficulty in adapting to these changes. Previous large scale reorganisation of British general practice in 1990 provoked widespread discontent, and dislike of NHS reforms has been cited by many doctors as a reason for quitting practice.^{5,10} Job dissatisfaction among general practitioners may additionally reflect a more global discontent of doctors with their changing role in society.¹¹ Strategies for improving satisfaction and hence retention require better alignment of employers' expectations and job characteristics with doctors' job aspirations.^{11,12}

Reliability of results

The results need to be treated cautiously as doctors' intentions to quit may not translate into action. However, other research has shown that there is a strong association between intention to quit and actually quitting, with typical correlations of 0.50.¹³ If as few as half of those reported here actually leave, this would still be cause for concern given the current shortage of general practitioners. A second limitation of the study

Table 2 Characteristics of practices and general practitioners in 1998 and 2001 surveys. Values are numbers (percentages) of doctors unless stated otherwise

	1998 (n=790)	2001 (n=1159)
Mean (SD) overall job satisfaction	4.64 (1.26)	3.96 (1.41)
Mean (SD) practice list size	8814 (4249)	8704 (4231)
Practice location:		
Rural	75 (9.5)	98 (8.5)
Semi-rural	201 (25.4)	276 (23.8)
Suburban	209 (26.5)	299 (25.8)
Town/city	226 (28.6)	348 (30.0)
Inner city	79 (10.0)	138 (11.9)
Patient type:		
Deprived	31 (3.9)	75 (6.5)
Mixed-poor	168 (21.3)	285 (24.6)
Average	360 (45.6)	482 (41.6)
Mixed-well off	216 (27.3)	302 (26.0)
Affluent	15 (1.9)	15 (1.3)
General practitioner characteristics:		
Non-white	88 (11.1)	156 (13.5)
Male	543 (68.7)	818 (70.6)
Mean (SD) age (years)	43.75 (7.60)	44.35 (7.55)
With partner/spouse	726 (91.9)	1054 (90.9)
With working partner	521 (73.3)	825 (71.2)
With partner working in health care	354 (44.8)	519 (44.8)
Median (interquartile range) No of children aged <18 years	2 (0-2)	2 (0-2)
Median (interquartile range) hours worked/week	45 (39-50)	48 (40-55)
Median (interquartile range) hours on call/week	11.5 (6-20)	10 (6-18)

What is already known on this topic

Early retirement is one of the factors contributing to a shortage of general practitioners in the NHS

What this study adds

The proportion of general practitioners intending to quit direct patient care within five years rose from 14% in 1998 to 22% in 2001

A decrease in overall job satisfaction is the most important factor underlying this rise

Improving the quality of doctors' working lives might help improve retention

was the omission of health status—a factor known to predict work effort and early retirement. Ill health is likely to explain early retirement in only a minority of cases and very unlikely to explain the marked increase in intentions to quit from 1998 to 2001. A third limitation is the low response rate, particularly in 1998. Responders may have been more dissatisfied with their jobs than non-responders, leading to exaggerated estimates of both dissatisfaction and intentions to quit. However, as the direction of any response bias is likely to have been the same in the two surveys, both the time trends and the relation between job satisfaction and intention to quit are unlikely to be artefacts. A final consideration is that, although doctors may leave direct patient care, they may remain actively involved in medicine through teaching, research, and clinical management.

Actions

Our findings point to the benefit of a greater focus on strategies to enhance retention as part of the wider range of initiatives for increasing the workforce in general practice. Job satisfaction is an important

factor underlying intention to quit, and attention to this aspect of doctors' working lives may help to increase the supply of general practitioners to the NHS.

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Fever

The name Baghdad conveys today a target to be bombed, but it was for five centuries (750-1250) one of the capitals of normative medicine.

Descriptions by patients of their own diseases are always interesting, especially as poems. In February 960 the poet al-Mutanabbi developed while in Egypt a fever that left him delirious after each nightly attack, beginning with fever and rigors, and ending with copious sweating. "He compares the fever to a coy maiden who will visit him under cover of darkness."¹

Sick of body, unable to rise up, vehemently intoxicated without wine ...

And it is as though she who visits me were filled with modesty,
For she does not pay her visits save under cover of darkness,
I freely offered her my linen and my pillows,
But she refused them, and spent the night in my bones.
My skin is too contracted to contain both my breath and her,
So she relaxes it with all sorts of sickness.
When she leaves me, she washes me
As though we had retired apart for some forbidden action.
It is as though the morning drives her away,
And her lachrymal ducts are flooded in their four channels.

I watch for her time without desire,
Yet with the watchfulness of the eager lover.
And she is ever faithful to her appointed time, but faithfulness
is an evil
When it casts thee into grievous sufferings.

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- 1 Browne EG. *Arabian medicine*. Cambridge: Cambridge University Press, 1921:30-1.

We welcome articles up to 600 words on topics such as *A memorable patient, A paper that changed my practice, My most unfortunate mistake*, or any other piece conveying instruction, pathos, or humour. If possible the article should be supplied on a disk. Permission is needed from the patient or a relative if an identifiable patient is referred to. We also welcome contributions for "Endpieces," consisting of quotations of up to 80 words (but most are considerably shorter) from any source, ancient or modern, which have appealed to the reader.