BMJ Open The impact of complaints procedures on the welfare, health and clinical practise of 7926 doctors in the UK: a cross-sectional survey

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ABSTRACT

Objectives: The primary aim was to investigate the impact of complaints on doctors' psychological welfare and health. The secondary aim was to assess whether doctors report exposure to a complaints process is associated with defensive medical practise.

Design: This was a cross-sectional anonymous survey study. Participants were stratified into recent/current, past, no complaints. Each group completed tailored versions of the survey.

Participants: 95 636 doctors were invited to participate. A total of 10 930(11.4%) responded, 7926 (8.3%) completed the full survey and were included in the complete analysis.

Main outcome measures: Anxiety and depression were assessed using the standardised Generalised Anxiety Disorder scale and Physical Health Questionnaire. Defensive practise was evaluated using a new measure. Single-item questions measured stress-related illnesses, complaints-related experience, attitudes towards complaints and views on improving complaints processes.

Results: 16.9% of doctors with current/recent complaints reported moderate/severe depression (relative risk (RR) 1.77 (95% CI 1.48 to 2.13) compared to doctors with no complaints (9.5%)). Fifteen per cent reported moderate/severe anxiety (RR=2.08 (95% CI 1.61 to 2.68) compared to doctors with no complaints (7.3%)). Distress increased with complaint severity, with highest levels after General Medical Council (GMC) referral (26.3% depression, 22.3% anxiety). Doctors with current/recent complaints were 2.08 (95% CI 1.61 to 2.68) times more likely to report thoughts of selfharm or suicidal ideation. Most doctors reported defensive practise: 82-89% hedging and 46-50% avoidance. Twenty per cent felt victimised after whistleblowing, 38% felt bullied, 27% spent over 1 month off work. Over 80% felt processes would improve with transparency, managerial competence, capacity to claim lost earnings and action against vexatious complainants.

Conclusions: Doctors with recent/current complaints have significant risks of moderate/severe depression, anxiety and suicidal ideation. Morbidity was greatest in cases involving the GMC. Most doctors reported practising defensively, including avoidance of

Strengths and limitations of this study

- This is one of the largest reports on this subject with 10 930 respondents, 7926 of whom completed the survey. Critically, respondents were guaranteed at the outset that their responses would be anonymous and untraceable, so we think the respondents are likely to have been open about their opinions.
- We have obtained quantitative data on mental well-being using validated questionnaires.
- The main limitation of the study was the overall response rate of 11.4%. Accordingly, the findings must be interpreted with caution due to the possibility of ascertainment bias. On the other hand, doctors were being asked to comment on their regulators, and those most traumatised by the complaints process may have avoided engaging with the survey. Doctors who have been erased from the register or changed profession would not have been contacted. It is also important to note that the cross-sectional design does not enable causation to be elucidated.
- We collected responses from doctors who have not experienced a complaint but observed the impact on others. This means that the 'no complaints' group may have more psychological morbidity than if doctors could be isolated from complaints processes completely. This may result in relative risks of the paper being underestimated.
- Some questions involved remembering past events and the possibility of recall bias must also be considered. There were also missing responses for a number of questions. However, this was dealt with using multiple imputation. We are reassured that no major differences between the conclusions would be drawn using complete cases compared to those where data was missing and imputed.

procedures and high-risk patients. Many felt victimised as whistleblowers or reported bullying. Suggestions to improve complaints processes included transparency and managerial competence.



INTRODUCTION

In the United Kingdom (UK), the General Medical Council (GMC) acts as the regulator and sets standards that doctors are expected follow. It has the power to warn, suspend, restrict the practise of doctors or permanently remove them from the register. These powers are established under the Medical Act (1983).

It was recently disclosed that 114 doctors have died between 2005 and 2013 while involved in GMC fitness to practise proceedings. In parallel to this, between 2011 and 2012, the number of doctors referred to the GMC increased by 18%. Although most doctors referred to the GMC have their case closed at triage or have no action taken, there can be harrowing consequences for some doctors who go through a GMC investigation.

However, the GMC represents only the tip of the iceberg of the complaints system. This includes formal and informal hospital internal enquiries, serious untoward incident (SUI) investigations, and disputes with managers and colleagues. While there are some data relating to how doctors respond to GMC investigations, to the best of our knowledge there are no studies addressing the issue of complaints procedures below this level in the UK. For many doctors, the prospect of facing a complaint or professional dispute causes them significant stress. This can manifest itself in how they perform in clinical practise and/or in their personal life, and may lead to physical and psychological symptoms.

Clearly, complaints and investigations when things go wrong are part of the checks and balances that should ensure appropriate oversight of a doctor's performance, the overall aim being to protect patients and maintain appropriate clinical standards. However, the regulatory burden and stress associated with a complaints process may not lead to the outcomes that are desired.

In a previous study of surgeons surveyed in the United States (US), malpractise litigation was significantly associated with burnout, depression and suicidal ideation.⁴ There are also data to suggest that medical errors are associated with depression and loss of empathy in the physician responsible.⁵ None of these outcomes are likely to improve patient care. A further study has shown suicidal ideation in over 6% of US surgeons, over twice the background rate in the population. In this study, burnout, depression and involvement in a recent medical error were strongly and independently associated with suicidal ideation, after controlling for other personal and professional characteristics. Most surgeons in this study were reluctant to seek professional help due to concerns that there may be an impact on their career.⁶

In a study published in the *BMJ*, Jain and Ogden⁷ described the impact of patient complaints on general practitioners in the UK and reported an association with anger, depression and suicide. It is important to note that they also described clinicians involved in complaints practising medicine more defensively. Such practise may be broadly categorised into 'hedging' and 'avoidance'.

Hedging is when doctors are overcautious, leading, for example, to overprescribing, referring too many patients or over investigation. Avoidance includes not taking on complicated patients and avoiding certain procedures or more difficult cases.

The primary aim of this study was to investigate the psychological welfare of doctors who have observed or experienced past and/or current complaints. The secondary aim of the study was to assess whether being involved in or witnessing a complaints process leads to doctors reporting that they practise medicine defensively.

METHODS Design

The study used a cross-sectional survey design where participants were streamed into three groups: current/recent complaint (on-going or resolved within the last 6 months), past complaint (resolved more than 6 months ago) and no complaints. Each group completed a slightly different version of the questionnaire. Participants in the current complaints and no complaints group were asked about their current mood and health whereas the past complaints group were also asked to respond about their mood and health at the time of the complaint.

All participants consented to participating in the study before they completed the questionnaire. The study was self-funded, and no external funding was sought.

Participants

The British Medical Association (BMA) is an apolitical professional association and independent trade union that represents doctors and medical students in the UK; membership is voluntary. Members of the BMA in November 2012 who had pre-consented to being contacted for research purposes were invited to participate (n=95 636). They were emailed a link to an online encrypted questionnaire using Survey Monkey and an information sheet describing the study. Participants were guaranteed that their responses were anonymous and untraceable. The survey remained open for 2 weeks and three reminders were sent out about the study during this time. A total of 10 930 (11.4%) participants responded to the survey. Of these, 696 (6.4%) were excluded as they only completed the demographics section, and 121 (1.1%) participants were excluded because a technical error meant that they were given the wrong sections to complete. A further 2187 (20%) participants completed the demographics section and indicated whether they had had a complaint, they were partially included in the analysis (as part of sample 1). A total of 7926 (72.5%) participants completed the survey (sample 2). Of these, 1380 omitted some sections of the survey but were included in the full analysis. Demographic information in relation to both samples is shown in table 1.

In order to check that our sample was representative, we compared our study population with the total BMA

Age	Total BMA membership consented for research (%)	Sample 1 (n=10 113) (%)	Sample 2 (n=7926) (%)
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Up to 25	17.8	1.4	1.4
26–29	9.0	5.1	5.5
30–34	9.6	8.6	8.8
35–39	10.3	11.0	11.0
40–44	10.3	13.5	13.1
45–49	10.8	16.9	16.8
50–54	10.3	18.8	18.8
55–59	8.1	14.6	14.7
60–64	5.0	6.6	6.4
65–69	3.0	2.5	2.6
Over 69	5.9	1.1	1.0
Gender	46.3 Female	47.5 Female	47.5 Female
Place of qualification			
UK	80.1	80.7	81.2
India	8.2	6.6	6.2
Pakistan	2.2	1.2	1.2
Ireland	0.9	1.4	1.4
Nigeria	1.1	1.2	1.2
Germany	0.7	1.1	1.2
South Africa	0.7	0.8	0.8
Other	6.2	6.9	6.9
Ethnicity			
White British	67.6	77.6	78.2
Asian or Asian British	23.3	16.6	15.8
Black or Black British	3.5	2.3	2.3
Chinese or Chinese British	2.9	1.3	1.3
Mixed	2.7	2.3	2.3
Grade:	-		
Academics	2.1	1.2	1.3
Consultants	27.2	37.1	36.5
General practice	26.0	38.4	37.8
Junior doctors	26.4	15.7	16.5
SASC	5.3	5.8	6.11
Retired	8.6	0.7	0.7
Other or no answer	4.4	1.0	1.1

membership database (see table 1). This showed that our sample was broadly representative in terms of gender (46.3% females in the BMA membership database compared to 47.5% females in samples 1 and 2) and place of qualification (80.1% qualified in the UK in the BMA population compared to 80.7% in sample 1 and 81.2% in sample 2). Our study population consisted of more doctors in the 35-59 age range (49.8% in the BMA population compared to 74.8% in sample 1 and 73.4% in sample 2), ethnic minorities were underrepresented (32.4% in the BMA population compared to 22.4% in sample 1 and 21.8% in sample 2) and consultants and general practitioners (GPs) were overrepresented (27.2% were consultants and 26% were GPs in the BMA population compared to 37.1% and 38.4% in sample 1 and 36.5% and 37.8% in sample 2, respectively), while junior doctors and retired doctors were under-represented (26.4% were juniors and 8.6% were retired in the BMA population compared to 15.7% and

0.7% in sample 1 and 16.5% and 0.7% in sample 2, respectively).

Measures

A pilot of the questionnaire was trialled on 20 medical doctors of varying grades and specialties, and their feedback, was incorporated in the questionnaire design (see details below). In total, 108 questions were asked to the no complaints group and 179 questions were asked to both the complaints groups. Based on filling in trial questionnaires, we estimate the time required to complete the questionnaire was approximately 30 min. The questionnaire is included as supplementary online information (see online supplementary file 1) or can be reviewed by using the following link: https://www.surveymonkey.com/s/P55KH5P

Having completed 13 items obtaining demographic information (including age, specialty, gender, marital status, ethnicity, place of training and details about their

employment), participants were separated into three streams based on whether they had (1) a current/recent complaint (within the past 6 months), (2) past complaint or (3) no current or past complaints.

The different types of complaints or investigations that were considered in the study are outlined below:

Informal: an informal complaint usually involves a patient speaking directly to the people involved in their care in order to resolve their concerns. It can be escalated to a formal complaint if not resolved locally.

Formal: this is a written complaint, usually to the chief executive or an employing organisation, which triggers an investigation and often requires a written response within a set time period and may lead to disciplinary action or referral to the GMC.

SUI: the definition of an SUI is wide ranging and includes an unexpected death, poor clinical outcome, a hazard to public health, a trend leading to reduced standards of care, damage to reputation or confidence in a service or adverse media coverage or public concern about an organisation. The aim is to prevent recurrence of the adverse event, but may lead to disciplinary action for individuals or referral to the GMC.

GMC: a complaint can be made about a doctor for issues ranging from personal behaviour outside work to clinical concerns about their practise. The GMC reviews cases and has the power to suspend doctors from practise during an investigation. This may lead to a warning, or referral to a tribunal that has the power to restrict a doctor's practise or impose working under supervision, suspension from the medical register or removal of a doctor from the register permanently. The GMC may also issue warnings and undertakings to doctors to change aspects of their behaviour or practise.

All participants completed the following sections (although some individual items varied in the different streams):

Experience of complaint: Participants in both complaints groups were asked 75 questions about their complaint (s) generated from Bark et al and the pilot study. This included their total number of complaints and the most significant complaint, and was followed by a series of questions about the most serious complaint if they had had more than one, including the reason for the complaint, the origin, the duration, the outcome, the cost (ie, any leave taken, the estimated financial cost) and the level of support sought and obtained during the complaint. Participants who had been referred to the GMC were also asked to rate how stressful they found each aspect of the procedure. While the majority of the questions used a 5-point scale, some questions were qualitative and a few were yes/no.

Attitudes towards complaints: All groups were asked 10 questions using a 5-point scale generated from the pilot study about their attitudes toward complaints, the causes of complaints and their perceived threat of future complaints. The no complaints group was asked 11 additional questions about their attitudes towards the

complaints process (eg, "I believe that complaints are reasonably dealt with") and how well they perceive that they would be supported in the event of a complaint made against them (eg, "If I had a complaint made against me, I am confident that my management would support me").

Suggestions to improve the complaints process. All groups were asked to rate different suggestions on how to improve the complaints process on 11 5-point items. These proposals were generated from the pilot study.

Medical history: The presence of common stress-related illnesses at the time of the complaint or currently were measured using 12 items, including recurring infections, gastrointestinal, sleep, cardiovascular and mood problems. ⁹ ¹⁰ In addition, questions were asked about self-reported drug and alcohol use, as well as life stressors at the time of current and of past complaints.

Defensive medical practise: Twenty items measuring current defensive medical practise were generated from a literature review. Twelve additional items were generated from the pilot study (5 for the no complaints group). Items were rated either on a 5-point scale or on a yes/no response.

Depression: The Physical Health Questionnaire (PHQ-9¹³) is a well-known standardised screening measure assessing the presence and severity of depression. It has been used across a wide range of populations and has demonstrated good psychometric properties. Respondents were considered depressed if they scored 10 or more on the PHQ-9. ¹⁴

Anxiety: The Generalised Anxiety Disorder scale (GAD-7)¹⁵) is a standardised screening measure assessing the presence and severity of GAD. The GAD-7 is also moderately good at identifying panic disorder, social anxiety disorder and post-traumatic stress disorder. It has been used across a wide range of populations and has demonstrated good psychometric properties. Respondents were considered anxious if they scored 10 or more on the GAD-7. ¹⁵

Life satisfaction: Life satisfaction was assessed with 10 items using a 6-point scale asking about satisfaction—dissatisfaction with marriage, career, recreation/leisure, self/family and life satisfaction/optimism.

Statistical analysis

For the purpose of this paper, we have limited ourselves to analysis of psychological welfare and health (ie, anxiety, depression, stress-related illness), defensive practise, culture, time off work and suggestions for improving the complaints process. To summarise the 15 items measuring defensive practise, an exploratory factor analysis was conducted, which identified two underlying factors. The first involves overinvestigation and overly cautious management, which we have termed 'hedging' (9 items, including, for example, 'carried out more tests than necessary', 'referred patient for second opinion more than necessary' and 'admitted patients to the hospital when the patient could have been discharged home safely or managed as an outpatient', Cronbach's

 α =0.92). The second involves avoiding difficult aspects of patient treatment, which we termed 'avoidance' (3 items, 'stopped doing aspects of my job', 'not accepting high risk patients in order to avoid possible complications' and 'avoiding a particular type of invasive procedure', Cronbach's α =0.77). Owing to strongly skewed distributions, the sumscores 'hedging' and 'avoidance' were analysed both as dichotomous (any hedging (>0)/ avoidance (>0) versus no hedging (0)/avoidance (0)) and ordinal variables (never (0), rarely (hedging 1–12, avoidance 1–4), sometimes (hedging 13–24, avoidance 5–8) or often (hedging 25–36, avoidance 9–12) displaying hedging or avoidance behaviour.)

The statistical analysis mainly consisted of descriptive analyses. Cross-tabulations of psychological welfare and defensive practise indicators have been made and relative risks were computed to investigate the relationship between complaint group and psychological welfare or defensive practise indicators. Additionally, means within the complaint groups and mean differences have been computed for continuous variables such as depression and anxiety. Asymptotic 95% CIs were computed for relative risks and mean differences. Unpooled SEs of the mean difference were used when necessary. Proportions and their 95% CIs were also computed for feeling bullied during the investigation, feeling victimised because of whistleblowing and the amount of time spent off work. Proportions were computed to investigate the amount of support of respondents to various proposed actions to improve the complaints process.

As the primary aim of this study was to investigate the impact of complaints on the psychological welfare and health of doctors, a logistic regression analysis was performed to assess the relationship between moderate to severe depression and receiving a complaint, while controlling for predefined confounders (age, gender, being in a relationship, being White British and medical specialty). Interactions of complaint with the confounders were included if necessary (α =0.001). Proportional odds logistic models were constructed to investigate whether hedging or avoidance are associated with characteristics of the complaint process (length of investigation, timing of complaint, outcome of investigation, origin of complaint, type of complaint). For hedging and avoidance, all two-way interactions were of interest and were included if necessary (α =0.001). We checked linearity assumptions, the presence of multicollinearity, the presence of outliers and the proportional odds assumption when necessary.

There was substantial item non-response. For key variables such as depression, anxiety, hedging and avoidance, non-response was approximately 20%. Missing data was addressed by performing multiple imputation. Missing responses were replaced by 100 plausible values based on available responses to other questions, leading to 100 completed data sets that represent the uncertainty about the right value to impute. For composite scales (depression, anxiety and hedging), a

two-step approach to imputation was used to decrease the computational burden and to make appropriate use of the available answers to separate items, first imputing the respondent's mean of non-missing items if at least 80% of the items of the composite scale were nonmissing, followed by multiple imputation (MI) at the scale level for the remaining individuals. For avoidance, the three items were individually imputed. MI was performed using chained equations (MICE)¹⁶ with 10 iterations. After MI, each completed data set was analysed separately and results combined using standard Rubin's rules.¹⁷ To assess the impact of item non-response, we performed a sensitivity analysis comparing the results of the complete case analysis to the results after MI, which assumes missingness at random. Additionally, MI assuming missingness not at random (MNAR also known as informative missings) was considered for key variables depression, anxiety, hedging and avoidance.¹⁷ Since these variables are based on responses to sensitive questions, informative missingness is plausible. As a missingness mechanism we assumed that those respondents with missingness might have been more anxious or depressed, or more likely to display hedging behaviour or avoidance. More details on the MNAR analysis can be found in the online supplementary file.

The data were analysed using SAS (V.9.3, SAS Institute, Cary, North Carolina, USA). MIs were performed using IVEware (http://www.isr.umich.edu/src/smp/ive/). 18

RESULTS

Psychological welfare and health

Overall, 16.9% of doctors with recent or ongoing complaints reported clinically significant symptoms of moderate to severe depression (table 2). Doctors in this group were at increased risk of depression compared to those with a past complaint (7.8%) or no personal experience of a complaint (9.5%; RR=1.77, 95% CI 1.48 to 2.13). This was the case even when controlling for the effects of gender, age (cubic effect), being in a relationship (yes/no), being White British (yes/no) and medical specialty. The effect of having a recent or current complaint depends on gender. When there has been no complaint, men tend to be less likely to be depressed than women (OR=0.76, 95% CI 0.54 to 1.09), but a recent or current complaint has a higher impact on men than on women (OR women=1.72, 95% CI 1.28 to 2.30; OR men=2.86, 95% CI 2.04 to 4.01). Within the PHQ-9, doctors with an ongoing or recent complaint (9.7%) were twice as likely as doctors with no complaints (4.7%) to report having thoughts of self-harm or suicidal ideation (RR=2.08, 95% CI 1.61 to 2.68; see table 2). The sensitivity analysis shows that this conclusion holds under various assumed missingness mechanisms (see online supplementary figure S1 and table S1).

Moreover, 15% of doctors in the recent complaints group reported clinically significant levels of anxiety on

	No complaint n=1780 (22.5%)	Past complaint n=3889 (49.1%)	Recent/current complaint n=2257 (28.5%)	Total n=7926 (100%)	Relative risk for past complaint group/mean difference (95% CI)	Relative risk for recent complaint group/mean difference (95% CI)
Depression (PHQ-9)						
Mean (SD)*	3.7 (4.3)	3.4 (4.2)	5.1 (5.6)	3.9 (4.7)	-0.3 (-0.6 to -0.0)	1.4 (1.1 to 1.7)
Moderate to severe depression n (%)	169 (9.5%)	303 (7.8%)	381 (16.9%)	852 (10.8%)	0.81 (0.65 to 1.01)	1.77 (1.48 to 2.13)
Thoughts of 'self-harm' n (%) Anxiety (GAD-7)	83 (4.7%)	221 (5.7%)	218 (9.7%)	522 (6.6%)	1.22 (0.93 to 1.61)	2.08 (1.61 to 2.68)
Mean (SD)†	3.1 (3.8)	3.0 (3.8)	4.5 (4.9)	3.5 (4.2)	-0.1 (-0.4 to 0.2)	1.4 (1.1 to 1.7)
Moderate to severe anxiety n (%)	131 (7.3%)	234 (6.0%)	338 (15.0%)	703 (8.9%)	0.80 (0.57 to 1.13)	2.08 (1.61 to 2.68)

between 5 and 9 indicates mild depression, a score between 10 and 14 indicates from 0 to 21. A score below 5 indicates minimal anxiety, a score between 5 and 9 indicates mild anxiety, a score between 10 and 14 indicates moderate he analysis following multiple imputation of missing values results in non-integer numbers of patients. We rounded these to integer values, but report the percentage and relative risk as from 0 to 27. A score below 5 indicates absence of depression, a score GAD-7 the GAD-7, which is twice as likely as doctors who have no complaints (see table 2, 7.3%, RR=2.08, 95% CI 1.61 to 2.68). This conclusion also holds under various assumed missingness mechanisms (see online supplementary file 1 and table S2).

The level of psychological distress was related to the type of complaints procedure. Doctors going through a GMC referral reported the highest levels of depression (26.3%), anxiety (22.3%) and thoughts of self-harm (15.3%) compared to SUIs (16.1%, 15.3%) and (9.3%), formal complaints (15.6%, 13.5%) and (9.3%) and informal complaints (12%, 12%) and (12%), respectively) (12%)

When asked directly, using a single item scale, doctors were 3.78 (95% CI 2.68 to 5.32) times more likely to report the presence of suicidal thoughts while going through a current or recent complaint compared to doctors who had no complaints (table 4).

Doctors who have experienced either a recent or past complaint reported higher levels of health problems at the time of the complaint compared to the no complaint group. These included gastrointestinal problems, subjective anxiety and depression, anger, other mental health problems, insomnia, relationship problems and frequent headaches. Doctors in the current complaints group also reported higher levels of cardiovascular problems (table 4).

Defensive practise

Overall, 84.7% of doctors with a recent and 79.9% with a past complaint reported changing the way they practised medicine as a result of the complaint; 72.7% of doctors with no previous complaint reported changing their practise after having observed a colleague's experience of a complaint (table 5).

There were 88.6% of doctors with a recent or current complaint and 82.6% of those with a past complaint who displayed hedging behaviour; 81.7% of doctors with no previous complaints reported hedging. The sensitivity analysis revealed that under the MNAR assumption, the conclusion still holds that doctors in the recent or current complaint group display more hedging behaviour than those in the no complaints group, but also doctors with a past complaint display considerably more hedging behaviour (see online supplementary figure 1 table S3).

49.8% of doctors with a recent or current complaint, 42.9% of doctors with a past complaint and 46.1% of doctors with no personal experience of a complaint reported avoidance behaviour having observed a colleague's experience of a complaint. Although the results from the complete case analysis support the conclusion that mostly doctors in the recent and current complaint group display avoidance behaviour, the results from the analysis under the MNAR assumption suggest that it is those with a past complaint who display most avoidance behaviour (see online supplementary figure 1 table S4).

The multivariable proportional odds analysis indicated that the odds of more severe hedging are higher for

Table 3 Psychological distress within the recent/on-going complaints group by complaint that had the most impact

	Informal complaint n=362 (16%)	Formal Complaint n=1196 (53%)	SUI n=280 (12.4%)	GMC referral n=374 (16.6%)	No complaint n=1780 (22.5%)
Depression (PHQ-9)					
Mean (SD)*	4.2 (5.0)	4.8 (5.4)	5.1 (5.6)	6.6 (6.7)	3.7 (4.3)
Moderate to severe depression n (%)	45 (12.0%)	190 (15.6%)	46 (16.1%)	100 (26.3%)	169 (9.5%)
Thoughts of 'self-harm' n (%) Anxiety (GAD-7)	24 (6.4%)	110 (9.0%)	27 (9.3%)	58 (15.3%)	83 (4.7%)
Mean (SD)†	3.8 (4.3)	4.4 (4.7)	4.7 (5.1)	5.7 (5.7)	3.1 (3.8)
Moderate to severe anxiety n (%)	44 (12.0%)	165 (13.5%)	44 (15.3%)	85 (22.3%)	131 (7.3%)

The analysis following multiple imputation of missing values results in non-integer numbers of patients. We rounded these to integer values, but report the percentage and relative risk as provided by the analysis. As a consequence, there may be slight discrepancies between the percentages and the reported patient numbers.

*The PHQ-9 depression scale ranges from 0 to 27. A score below 5 indicates absence of depression, a score between 5 and 9 indicates mild depression, a score between 10 and 14 indicates moderate depression, a score between 15 and 19 indicates moderately severe depression and a score above 19 indicates severe depression.

†The GAD-7 anxiety scale ranges from 0 to 21. A score below 5 indicates minimal anxiety, a score between 5 and 9 indicates mild anxiety, a score between 10 and 14 indicates moderate anxiety and a score of 15 or above indicates severe anxiety

GAD-7, Generalised Anxiety Disorder-7; PHQ-9, Physical Health Questionnaire-9; SUI, serious untoward incident.

people with a recent or ongoing complaint than for those with a past complaint (OR 1.33 95% CI 1.19 to 1.49; table 6). The odds of hedging slightly increased with the length of time of the investigation (OR 1.01 per month, 95% CI 1.00 to 1.01). Hedging was increased when retraining was imposed (OR 1.62, 95% CI 0.84 to 3.13) and decreased when the doctor was suspended from practise (OR 0.56, 95% CI 0.26 to 1.18). The odds of hedging also decreased when the complaint came from medical colleagues (OR 0.67, 95% CI 0.53 to 0.86). There was evidence of an interaction between the

type of most serious complaint experienced and whether or not the complaint came from a patient (see online supplementary figure S1). Hedging was higher when the complaint came from a patient, this was most clear for informal (OR=3.16, 95% CI 2.17 to 4.58) and formal complaints (OR=2.18, 95% CI 1.67 to 2.85). When the complaint did not come from a patient, hedging was higher for formal complaints, SUI's and GMC referrals compared to informal complaints (OR=1.52, 95% CI 1.03 to 2.24, OR=2.10, 95% CI 1.31 to 3.35 and OR=1.78, 95% CI 1.16 to 2.71, respectively).

Table 4 Psychosomatic health for each of the complaints groups

	No complaint n=1780 (22.5%)	Recent or current complaint n=2257 (28.5%)	Past complaint n=3889 (49.1%)	RR recent or current versus no complaint
Cardiovascular problems (eg, high blood pressure, angina, heart attack)	124 (7)	280 (12.4)	405 (10.4)	1.78 (1.44 to 2.20)
Gastrointestinal problems (eg, gastritis, IBS, ulcers)	217 (12.2)	426 (18.9)	934 (24)	1.55 (1.32 to 1.82)
Depression	187 (10.5)	490 (21.7)	1148 (29.5)	2.07 (1.74 to 2.45)
Anxiety	476 (26.7)	1108 (49.1)	3045 (78.3)	1.84 (1.65 to 2.04)
Anger and irritability	358 (20.1)	928 (41.1)	2406 (61.9)	2.04 (1.77 to 2.35)
Other mental health problems	12 (0.7)	54 (2.4)	256 (6.6)	3.45 (1.80 to 6.60)
Suicidal thoughts	44 (2.5)	211 (9.3)	519 (13.4)	3.78 (2.68 to 5.32)
Sleep problems/insomnia	479 (26.9)	1137 (50.4)	288 (74.1)	1.87 (1.67 to 2.10)
Relationship problems	187 (10.5)	458 (20.3)	911 (23.4)	1.94 (1.63 to 2.30)
Frequent headaches	242 (13.6)	432 (19.2)	1027 (26.4)	1.41 (1.19 to 1.65)
Minor colds	492 (27.6)	509 (22.5)	5447 (14)	0.82 (0.73 to 0.92)
Recurring respiratory infections	77 (4.3)	143 (6.3)	306 (7.9)	1.47 (1.11 to 1.95)

The analysis following multiple imputation of missing values results in non-integer numbers of patients. We rounded these to integer values, but report the percentage and relative risk as provided by the analysis. As a consequence, there may be slight discrepancies between the percentages, relative risks and the reported patient numbers.

Please note that the past complaints group used retrospective information asking about worsening or onset of symptoms at the time of the complaint, whereas the no and recent complaint groups were asked about the presence of symptoms in the past 12 months. IBS, irritable bowel syndrome.

Owing to your/other's experiences with complaints, have you	No complaint n=1780 (22.5%)	Past complaint n=3889 (49.1%)	Recent or current complaint n=2257 (28.5%)	Total n=7926 (100%)	Relative Risk for past complaint (95% CI)	Relative Risk for recent or current complaint (95% CI)
Changed the way of practising medicine n (%)	1294 (72.7)	3106 (79.9)	1912 (84.7)	6312 (79.6)	1.10 (1.06 to 1.14)	1.17 (1.13 to 1.21)
Displayed hedging behaviour n (%)	1454 (81.7)	3212 (82.6)	1999 (88.6)	6665 (84.1)	1.01 (0.98 to 1.04)	1.08 (1.05 to 1.11)
Displayed avoiding behaviour n (%)	820 (46.1)	1668 (42.9)	1124 (49.8)	3612 (45.6)	0.93 (0.87 to 1.00)	1.08 (1.00 to 1.17)
Suggested invasive procedures against professional judgement n (%)	359 (20.2)	902 (23.2)	585 (25.9)	1846 (23.3)	1.15 (1.02 to 1.29)	1.29 (1.13 to 1.46)
Become more likely to abandon a procedure at an early stage n (%)	248 (14)	515 (13.3)	372 (16.5)	1136 (14.3)	0.95 (0.80 to 1.13)	1.18 (1.00 to 1.39)
Become less committed and worked strictly to job description n (%)	1	795 (20.5)	613 (27.2)		1	1

As with hedging, the multivariable analysis indicated that the odds of more severe avoidance increased with the length of time the investigation was underway (OR 1.01 per month, 95% CI 1.01 to 1.02), and was higher for people with a recent or current complaint than for those with a past complaint (OR 1.20, 95% CI 1.07 to 1.35; table 7). Avoidance was also increased when the investigation resulted in imposed retraining (OR 1.79, 95% CI 1.0 to 3.09). Avoidance behaviour most severely increased when the complaint came from a patient group (OR 1.71, 95% CI 1.02 to 2.87) or management (OR 1.59, 95% CI 1.16 to 2.16), or when the complaint was anonymous (OR 1.58, 95% CI 1.06 to 2.36). The type of complaint did not meaningfully influence the odds of more severe avoidance.

Overall, as a result of their experience of the complaints process, 23% of doctors reported suggesting invasive procedures against their professional judgement, and 14% reported becoming more likely to abandon a procedure at an early stage.

Culture and time off work

Twenty per cent (95% C.I. 19% to 22%) reported that they felt victimised because they had been a whistle-blower for clinical or managerial dysfunction. Thirty-eight per cent (95% C.I. 37% to 40%) of people who had had a complaint, recently or in the past, reported feeling bullied during the investigation.

Sixty per cent (95% CI 57% to 64%) spent less than a week off work. However, 27% (95% CI 24% to 30%) of people with complaints spent more than a month off work.

Opinions on changes to improve the system

Of those doctors who gave a response, 85% felt that for managers to demonstrate a full up-to-date knowledge of procedure in relation to complaints if they were made responsible for them mattered quite a lot or a great deal in terms of improving the process. An equal number (85%) felt that if a doctor is exonerated but has suffered financial loss during the process, then they should have the option to make a claim for recovery of lost earnings or costs and in addition that there should be complete transparency of any management communication about the subject of a complaint, and that access to such communications should be given to a doctor's representatives. Seventy-four per cent of respondents felt that it mattered quite a lot or a great deal if a complaint, found to be vexatious, from a clinical or managerial colleague, could be investigated and possible disciplinary measures taken. The full details of responses in relation to actions that could be taken to reduce the psychological impact of complaints processes are shown in online supplementary table S5.

DISCUSSION

We have shown that doctors who responded to our questionnaire who have recently received a complaint of any

Table 6 Factors influencing hedging behaviour			
OR estimates for hedging			
Effect	Point estimate	95% Wald con	fidence limits
Length of investigation (per month)	1.006	1.002	1.011
Recent or current complaint (versus past complaint)	1.331	1.193	1.485
Outcome of investigation			
No fault/exonerated (yes vs no)	1.051	0.676	1.633
Retraining imposed (yes vs no)	1.622	0.913	2.885
Disciplinary action (yes vs no)	0.815	0.433	1.532
Suspended from practise (yes vs no)	0.557	0.289	1.075
Struck off from the register (yes vs no)	0.583	0.754	1.761
The process was not clearly concluded (yes vs no)	1.152	0.900	1.960
Where did the complaint come from			
Trust (yes vs no)	1.328	0.900	1.960
Medical colleagues (yes vs no)	0.672	0.526	0.860
Management (yes vs no)	0.797	0.581	1.094
Media (yes vs no)	1.084	0.467	2.515
Patient group (yes vs no)	1.495	0.906	2.464
Other healthcare professional (yes vs no)	1.047	0.798	1.375
Patient (yes vs no)			
For informal complaint	3.155	2.172	4.584
For formal complaint	2.180	1.670	2.846
For SUI	1.212	0.826	1.778
For GMC referral	1.670	1.207	2.311
Anonymous (yes vs no)	1.362	0.922	2.012
Type of complaint			
Formal complaint versus informal complaint			
Complaint did not come from a patient	1.521	1.034	2239
Complaint came from a patient	1.051	0.903	1.223
SUI versus informal complaint			
Complaint did not come from a patient	2.097	1.311	3.352
Complaint came from a patient	0.805	0.648	1.002
GMC referral versus informal complaint			
Complaint did not come from a patient	1.776	1.164	2.709
Complaint came from a patient	0.940	0.757	1.168
GMC, General Medical Council; SUI, serious untoward incident.			

kind are 77% more likely to suffer from moderate to severe depression than those who have never had a complaint. They also have double the risk of having thoughts of self-harm and double the risk of anxiety. Welfare is lowest when the complaint involves referral to the GMC. Doctors with a recent or current complaint also reported that they suffered from an increased likelihood of cardiovascular and gastrointestinal disorders, depression, anxiety, anger and irritability, suicidal thoughts, sleep difficulty, relationship problems and frequent headaches than people who had not been through a complaints process. In many cases, these problems persisted. We have also shown that 80% of doctors answering the survey reported changing the way they practised as a result of either complaints against themselves, or after observing a colleague go through a complaints process. The majority (84%) of doctors reported hedging behaviour in response to a complaint (ie, increased defensive practise), while many (46%) admitted avoidance. A further important finding was that many doctors who had a complaint (20%) felt they were

victimised after whistleblowing, 39% reported that they felt bullied when they were going through the process and 27% had more than a month off work.

A strength of the study is that, to our knowledge, it is one of the largest reported on the subject involving 10 930 respondents with 7926 completing the survey. It is certainly the largest relating to doctors in the UK. We think it is critical that respondents were guaranteed at the outset that their responses were anonymous and untraceable, so we think the respondents are likely to have been open about their opinions. Furthermore, we have obtained quantitative data on the mental well-being of doctors using validated questionnaires. It is also important to note that we have collected responses from doctors who have not experienced a complaint but observed the impact on others. On the one hand, this gives insight into the impact of observing a colleague going through a complaints process, however, it also means that the 'no complaints' group may have a higher overall level of psychological morbidity than if doctors could be isolated from complaints processes completely.

Table 7 Factors influencing avoidance behaviour			
OR estimates for avoiding			
Effect	Point estimate	95% Wald cor	fidence limits
Length of investigation (per month)	1.011	1.006	1.016
Recent or current complaint (vs past complaint)	1.201	1.069	1.350
Outcome of investigation			
No fault/exonerated (yes vs no)	0.893	0.594	1.340
Retraining imposed (yes vs no)	1.787	1.033	3.092
Disciplinary action (yes vs no)	1.211	0.682	2.152
Suspended from practise (yes vs no)	1.066	0.566	2.008
Struck off from the register (yes vs no)	0.626	0.119	3.305
The process was not clearly concluded (yes vs no)	1.202	0.805	1.796
Where did the complaint come from			
Trust (yes vs no)	1.338	0.910	1.968
Medical colleagues (yes vs no)	1.439	1.134	1.826
Patient (yes vs no)	1.364	1.114	1.670
Management (yes vs no)	1.585	1.163	2.161
Media (yes vs no)	0.866	0.380	1.972
Patient group (yes vs no)	1.708	1.019	2.866
Other healthcare professional (yes vs no)	1.326	1.015	1.731
Anonymous (yes vs no)	1.580	1.057	2.360
Type of complaint			
GMC referral (vs informal complaint)	1.082	0.885	1.323
SUI (vs informal complaint)	1.112	0.904	1.368
Formal complaint (vs informal complaint)	1.036	0.893	1.203
GMC, General Medical Council; SUI, serious untoward incident.			

Hence the relative risks in the paper may be underestimated. A significant limitation of the study is that the response rate was 11.4%, accordingly the findings must be interpreted with caution due to the possibility of ascertainment bias. What constitutes an acceptable response rate is a subject of debate, however, our response rate is clearly low. 19 We believe this is inevitable when asking doctors to comment on disciplinary processes and in particular on their regulator. Even if we take the view that the respondents are a selected group, they still demonstrate that a very considerable number of doctors are significantly impacted by complaints processes and practise defensively. It must also be remembered that doctors who have been most traumatised by the complaints process may have felt unable to take part in the survey and a small number are known to have committed suicide. Furthermore, those no longer on the register (eg, if they have changed profession or been erased from the register) are unlikely to be members of the BMA and so would not have been contacted. As some questions involved remembering past events, the possibility of recall bias for some answers must also be considered. For a number of questions there were missing responses. However, we have considered this issue by using multiple imputation and were reassured when we found no essential differences between the conclusions that would be drawn using complete cases compared to those where missing data have been imputed.

As with any cross-sectional survey we must be careful when considering the findings, as we cannot show causation. It is possible that doctors with depression, anxiety and suicidal ideation are more likely to have complaints made against them, similarly, being complained against may be the causative factor rather than the processes themselves. However, this still means the information presented is important, as if we take the former view, it means those going through complaints processes are part of a vulnerable group that needs support. This was illustrated in a recent study that reported that sick doctors under investigation stated that the processes and communication style employed by the GMC were often distressing, confusing and perceived to have impacted negatively on their mental health and ability to return to work. ²⁰

It is interesting that our findings are similar to a questionnaire-based study of surgeons in the USA examining the emotional toll of malpractise lawsuits. This study found significantly more depression and burnout in surgeons who had recently been exposed to a lawsuit and highlighted the association between burnout and the likelihood of making a medical error.⁴

We found that 10% of doctors responding to the survey who have had a recent complaint have had thoughts of self-harm and are over twice as likely to have had such thoughts compared to doctors who had not personally experienced a complaint. When referral to the GMC is looked at in isolation, the number of doctors who reported suicidal ideation reached 15.3%, while 26.3% had moderate to severe depression and 22.3% had moderate to severe anxiety on the basis of

two validated instruments. Even set against the limitations of the study we have highlighted above, these findings are concerning. In a recent feature article in the *BMJ*, Dyer reported on the high number of suicides associated with GMC proceedings.³ Our results support the view that these proceedings have a disproportionate impact on doctors, especially as the vast majority of doctors who are referred to the GMC are found to have no significant case to answer.² However, the GMC is at the apex of what amounts to a 'complaints pyramid' and our data show similar significant psychological morbidity for doctors across the entire spectrum of complaints procedures.

The incidence of feeling victimised following whistle-blowing (20%) and bullying (38%) will be a concern to those trying to build a culture in the UK National Health Service (NHS) where it is safe to speak out about clinical and managerial concerns. The Francis report highlighted the dysfunctional culture that is prevalent in many NHS organisations. Other reports have also highlighted serious concerns about the pressures that may be placed on hospital staff. Given the large numbers involved, our study supports the view that whistleblowing in the NHS is often not a safe action, that bullying is not uncommon and that these problems are not isolated events.

The GMC exists to protect patients and the public. This is also the aim of other types of complaints processes with the overall purpose being to learn from mistakes and improve the performance of everyone taking part in patient care. However, as with all interventions, there may be unforeseen consequences. Previously Jain and Ogden, in a qualitative study, reported that many GPs practise defensively following a complaint. Our data also show the vast majority of doctors who took part in the study reported engaging in defensive practise. This included carrying out more tests than necessary, overreferral, overprescribing, avoiding procedures, accepting high-risk patients and abandoning procedures early. Nash et al²³ have also reported high levels of defensive practise. In their study, which had a higher response rate of 36%, 43% of doctors reported that they referred more patients, 55% ordered more tests and 11% stated they prescribed more medications than usual in response to medicolegal concerns. In a further report, the same authors showed that doctors working in high-intervention areas of medicine are more likely to be the subject of medicolegal complaints.²⁴ Defensive practise in such specialties may be particularly concerning.

These behaviours are not in the interest of patients and may cause harm, while they may also potentially increase the cost of healthcare provision. By far the majority of doctors who are reported to the GMC are not found to have a significant case to answer,² as is probably the case with other lower level complaint investigations. It therefore does not seem unreasonable to argue that as they currently function, GMC inquiries may do more overall harm than good in terms of patient

care. As the 'complaints pyramid' is descended it is possible this balance may improve, although we found defensive practise across the entire spectrum of complaints processes.

While we fully acknowledge the limitations associated with any study of this type, we believe our findings have implications for policymakers. Procedures must exist to enable patients to make a complaint about their care, for professionals to raise concerns about standards of practise and for serious untoward events to be investigated. However, a system that is associated with high levels of psychological morbidity among those going through it is not appropriate as either the subjects of such procedures are vulnerable at the outset or are suffering such morbidity as a direct result of the investigations themselves. Most importantly, a system that leads to so many doctors practising defensive medicine is not good for patients. A further concern for patient care is the association between doctor's distress, burnout and decreased empathy with perceived medical errors.⁶

When asked how the complaints process could be improved, doctors indicated that what mattered to them was that the process should be transparent and that staff responsible for investigating complaints should be up-to-date and competent. There was also a clear feeling that in the event of a complaint being shown to be vexatious, there should be disciplinary consequences if this related to colleagues, or the option for financial redress in the event it related to patients. Concerns about the lack of redress associated with vexatious complaints have been raised in the *BMJ* before. This highlights the inherent tension in the system whereby an apparent 'whistleblower' may be perceived as a vexatious complainant by a colleague.

We have shown that doctors who responded to our questionnaire and experience or observe complaints processes exhibit high levels of psychological morbidity including severe depression and suicidal ideation. These effects are greatest when the process involves the GMC. In addition, the majority of these doctors exhibit hedging and avoidance; both these behaviours may be damaging to patient care and be contrary to the professed aims of these processes.

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Data sharing statement No additional data are available.

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The IMPACT study
1. Consent to participate in the study
This is an electronic form of consent for the study. By ticking the boxes below, you agree to take part in the study.
All information that you provide is ANONYMOUS and CONFIDENTIAL and held in strictest confidence. You will not be asked to provide any information that can be used to identify you nor can you be identified by us by filling in any part of this survey.
1. I consent to the use of my survey results to better understand the impact of complaints and investigations on doctors and their practice.
○ Yes
2.
3. Demographics
This section will ask you some general questions about you and your background.
2. How old are you?
3. What is your gender?
C Female C Male
4. What is your Marital Status?
5. What is your Ethnic Origin?
6. In which year did you qualify?
7. If you qualified outside the UK, in which year did you come to the UK to practice

8. If relevant, in which year did you complete your specialist training?

medicine?

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The IMPACT study
9. In which country did you complete your medical training?
10. Where is your principal workplace? (where you spend the majority of your working
time)
☐ GP surgery
☐ Elsewhere in primary care
☐ District general hospital
☐ University teaching hospital
☐ Academic institution
Private practice clinic/hospital
Other (please specify)
11. What is your specialty?
Other (please specify)
12. Is your current post
Part time
☐ Part time - Locum
Full time
☐ Full time - Locum
Self-employed contractor
— Sen-employed contractor
13. What is your grade?
Other (please specify)
14. How long have you worked in your current post?
14. How long have you worked in your current post:
4. Informal and formal complaints

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No												
Yes, and it is either ongoing or was	resolved within the	e past 6	month	S								
Yes, and it was resolved more than	6 months ago											
About your complaint	ł.											
6. Please enter how man	y of each of	f the	follo	wing	j you	hav	e had	I				
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referrals to the GMC		0	0	0	0	0	0	0	0	0	0	(
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ooint							
22. If you were referred to th		-	•	•	_		ake (in month
f it is still ongoing, please s	tate how	/ long	it has tal	cen u	ıp to this	point	
				٠.			
23. How stressful did you fir procedure?	nd the to	llowir	ng aspect	s of t	ine GMC		
oroccuare:	Extremely stressful	2	Somewhat stressful	4	Not at all stressful	N/A	
The initial GMC investigation	0	0	0	0	0	0	
The decision to hold a Fitness to Practice hearing	0	0	0	0	O	0	
The Fitness to Practice hearing itself	0	0	0	0	0	0	
The appeal	0	0	0	0	0	0	
□ No fault / exonerated□ Retraining imposed	or the co	тріа	int / proce	edure	97		
No fault / exonerated	or the co	тріа	int / proce	edure	? ?		
 No fault / exonerated Retraining imposed Disciplinary action Suspended from practice 		тріа	int / proce	edure	•?		
 □ Retraining imposed □ Disciplinary action □ Suspended from practice □ Struck off from the register □ The process was not clearly concluded 		тріа	int / proce	edure	•?		
 No fault / exonerated Retraining imposed Disciplinary action Suspended from practice Struck off from the register 		тр іа	int / proce	edure	•?		
 □ No fault / exonerated □ Retraining imposed □ Disciplinary action □ Suspended from practice □ Struck off from the register □ The process was not clearly concluded Other (please specify) 					•?		
 □ No fault / exonerated □ Retraining imposed □ Disciplinary action □ Suspended from practice □ Struck off from the register □ The process was not clearly concluded Other (please specify) 					• ?		
No fault / exonerated Retraining imposed Disciplinary action Suspended from practice Struck off from the register The process was not clearly concluded Other (please specify)				I			
No fault / exonerated Retraining imposed Disciplinary action Suspended from practice Struck off from the register The process was not clearly concluded Other (please specify) 25. At any point during the in				I Yes	No		
No fault / exonerated Retraining imposed Disciplinary action Suspended from practice Struck off from the register The process was not clearly concluded Other (please specify) 25. At any point during the interpretation of the control of the contr				Yes	No O		
No fault / exonerated Retraining imposed Disciplinary action Suspended from practice Struck off from the register The process was not clearly concluded Other (please specify) 25. At any point during the in Take sick leave Take unpaid leave Have supervised practice				Yes C	No O		
 No fault / exonerated Retraining imposed Disciplinary action Suspended from practice Struck off from the register The process was not clearly concluded 				Yes C C	No O O		

8. Please estimate the indirect financial of the investigation (if relevant)	osts (e.g. loss of earni	ings, in GBP) to you as
9. At any point of the inquiry, did you do a	ny of the following	
in and the founds of fine day the set of	Yes No	
peak to family / friends about it	0 0	
epeak to your colleagues about it	0 0	
ccess support from a medical professional support organisation	0 0	
ngage an independent solicitor or barrister	0 0	
Vere your case or the complaint published in the media (including nedia)		
ccess support from the BMA employment advice service	0 0	
ccess support from the BMA counselling / other support organisati	0 0	

30. As a consequence of the inquiry, to what extent do you agree/disagree with the following statements

	Strongly Agree	2	Neutral	4	Strongly Disgree	N/A
The potential consequences of the enquiry were clear to me throughout the process	0	0	0	0	0	0
I clearly understood the process	0	0	0	0	0	0
The process was transparent	0	0	0	0	\odot	0
Going through the process, I felt that I was assumed guilty until proven otherwise	0	0	O	0	O	0
I felt as if I had been scapegoated	0	0	0	0	0	0
I felt I had no control over what was happening to me	0	0	0	0	0	0
I felt alone in the proceedings	0	0	0	0	\odot	0
My complaint was primarily related to conflicts with colleagues	0	0	0	0	0	0
I felt well supported by my management	0	0	0	0	\odot	0
I felt well supported by my colleagues	0	0	0	0	0	0
I felt well supported by my medical professional support organisation	0	0	0	0	0	0
I felt well supported by my defence organisation	0	0	0	0	0	0
I felt that the complaint was fair	0	0	0	0	0	0
I felt that the complaint was reasonably dealt with	0	0	0	0	0	0
I felt that there were unnecessary delays in the process	0	0	0	0	0	0
I felt my complaint was handled competently	0	0	0	0	0	0
I was worried about the complaint escalating further	O	0	O	0	0	0
I felt that the consequences were proportionate	0	0	0	0	0	0
I felt that the nature of the process was overly punitive	O	0	O	0	0	0
I felt that the complaint was vexatious	0	0	0	0	0	0

31. To what extent did the following apply in relation to the process of the complaint or procedure you experienced

	Not at all	2	To some extent	4	Definitely
Normal process was not followed	O	0	\odot	0	0
The documentary record such as minutes produced by the investigative body was fair and accurate	0	0	O	0	0
The time scale for the investigation was needlessly protracted	O	0	0	0	0
I was kept well informed of when or if I could bring representation to meetings	0	0	\circ	0	0
I believe there was inappropriate or vexacious use of the hospital clinical risk process	0	0	O	0	0
I felt the complaint arose because of dysfunctional relationships within the clinical team	0	0	O	0	0
I felt victimised because I had been a whistleblower for clinical or managerial failures	0	0	О	0	0
Clinical issues were found after the initial complaint and used against me	0	0	\odot	0	\circ
I felt bullied during the investigation	0	\odot	0	0	\odot
I felt managers used the process to undermine my position	0	0	0	0	0
I felt clinical colleagues used the process to gain an advantage either financially or professionally	0	0	0	0	0
Other (please specify)					

32. During the inquiry, to what extent were you worried about the following outcomes

	A lot	2	To some extent	4	Not at all
Loss of livelihood	0	0	0	\odot	0
Public humiliation	0	0	0	0	\circ
Professional humiliation	0	0	0	0	0
Having aspects of your clinical practice restricted	0	0	O	0	0
Family problems	0	0	0	\circ	0
Having a marked record in the future	0	0	0	\circ	\circ
Financial costs	0	0	0	\odot	\odot

33. Currently, to what extent do you worry about complaints being made against you?

0	A great deal / nearly all the time
0	2
0	To some extent
0	Δ

O Not at all

34. To what extent do you agree with the follow					
	owing sta	temen	ts?		
	Strongly agree	2	Neutral	4	Strongly disagree
Complaints are usually due to bad luck	0	0	0	0	0
A doctor who receives more complaints than other colleagues usually does so because of poor clinical performance	O	0	0	0	O
Complaints are caused by litigatious patients	\odot	0	0	0	0
Doctors are hounded by the media	0	0	0	0	0
Doctors who receive complaints against them are generally unsuitable to practice medicine	0	0	0	0	O
I feel the need to please my colleagues to avoid complaints against me	0	0	0	0	0
Making a complaint is a good way of getting rid of colleagues that are "inconvenient"	0	0	0	0	0
Receiving a complaint would seriously affect my future career prospects	0	0	0	0	0
I have considered changing my career because of the high risk of receiving a complaint in my speciality	0	0	O	0	0
A great deal / nearly all the time					
⊙ 2					
C To some extent					
O 4					
○ Not at all					

Doctors are hounded by the media Doctors who receive complaints against them are generally unsuitable to practice medicine I feel the need to please my colleagues to avoid complaints against me Making a complaint is a good way of getting rid of colleagues that are "inconvenient" Receiving a complaint would seriously affect my future career prospects I have considered changing my career because of the high risk of receiving a complaint in my speciality 87. To what extent do you agree/disagree with the Strongly Agree Complaints are primarily related to conflicts with colleagues If I had a complaint made against me, I am confident that my management would support me If I had a complaint made against me, I am confident that my medical professional support organisation would support me If I had a complaint made against me, I am confident that my medical professional support organisation would support me If I had a complaint made against me, I am confident that my medical professional support organisation would support me If I had a complaint made against me, I am confident that my medical professional support organisation would support me		© © © © © © © © © © mathematical control of the con	0 0 0 0 0 0	disagree O O O Strongly Disgree
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medical professional support organisation would support me If I had a complaint made against me, I am confident that my defence organisation would support me	0	O	0	0
defence organisation would support me	O	O	O	O
Overall, I believe that the complaints process is fair	0	0	0	0
	0	0	0	0
Overall, I believe that complaints are reasonably dealt with	0	0	0	0
Overall, I believe that the complaints process is handled competently	0	0	0	0
Overall, I believe that the consequences are proportionate in the complaints process	0	O	O	О
Overall, I believe that the complaints process is vexatious	0	0	0	0
Overall, I believe that the complaints process is overly punitive	0	0	0	0
Medical History				

	In the past 12 months, have you suffered from any of the following health conditions
or	stressors (please tick all that apply)?
	Cardio-vascular problems (e.g. high blood pressure, angina, heart attack)
	Gastro-intestinal problems (e.g. gastritis, IBS, ulcers)
	Depression
	Anxiety
	Anger & irritability
	Other mental health problems
	Suicidal thoughts
	Sleep problems / insomnia
	Marital / relationship problems
	Frequent headaches
	Minor colds
	Recurring respiratory infections
If ye	s - please specify
39.	In the past 12 months, have you experienced any additional life stressors (e.g.
	In the past 12 months, have you experienced any additional life stressors (e.g. eavement, accident, etc.)
bei	eavement, accident, etc.)
bei	eavement, accident, etc.) Yes
bei	eavement, accident, etc.) Yes No
bei	eavement, accident, etc.) Yes No
bei	eavement, accident, etc.) Yes No s please specify Have you ever been aware of, or other people raised concerns, that you are drinking much alcohol or taking (prescribed or non-prescribed) drugs? Yes, in the past (more than 6 months ago) Yes, currently (in the last 6 months)

			Never	2	Sometimes	4	Ofte
Did you change the way you practice medicine?			0	0	0	0	0
Prescribed more medications than medically indicated?			0	0	0	0	0
Suggested invasive procedures against professional judge	ment?		0	0	0	0	0
Referred to specialists in unnecessary circumstances?			0	0	0	0	0
Conducted more investigations or made more referrals tha	n warranted b	y the patient's condition?	0	0	0	0	0
Admitted patients to hospital when the patient could have managed as an outpatient?	been discharç	ged home safely or	0	0	0	0	0
Asked for more frequent observations to be carried out on a	a patient than	necessary?	0	0	0	0	0
Written in patients' records specific remarks such as "not so not worried about legal/media/disciplinary consequences?		you would not if you were	0	0	O	0	0
Written more letters about a patient than is necessary to cocondition?	ommunicate a	bout the patient's	0	O	O	0	0
Referred patient for a second opinion more than necessary	?		0	0	0	0	0
Carried out more tests than necessary?			0	0	O	0	0
				0	0	0	0
Avoid a particular type of invasive procedure			0	0	0	0	
Avoid a particular type of invasive procedure Not accepted "high risk" patients in order to avoid possible	complications	S	0	0	0	0	0
	complications	5					0
Not accepted "high risk" patients in order to avoid possible Stopped doing aspects of your job? Felt that you are a worse practitioner because of the above 12. If you have answered "Never" to a questions above, please omit this questions above.	all the estion.		0	0	0	0	0
Not accepted "high risk" patients in order to avoid possible Stopped doing aspects of your job? Felt that you are a worse practitioner because of the above 42. If you have answered "Never" to a questions above, please omit this question of the following factors are im	e actions? all the estion. portant?		0	0	0	0	
Not accepted "high risk" patients in order to avoid possible Stopped doing aspects of your job? Felt that you are a worse practitioner because of the above 42. If you have answered "Never" to a questions above, please omit this questions above.	e actions? all the estion. portant?		0	0	0	0	0
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Not accepted "high risk" patients in order to avoid possible Stopped doing aspects of your job? Felt that you are a worse practitioner because of the above 42. If you have answered "Never" to a questions above, please omit this questions above, please omit this question of the following factors are im (please tick all boxes relevant to you) Your colleagues' previous experience of complaints Previous legal claims involving you	e actions? all the estion. portant? Yes C	No C	0	0	0	0	0
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Not accepted "high risk" patients in order to avoid possible Stopped doing aspects of your job? Felt that you are a worse practitioner because of the above 42. If you have answered "Never" to a questions above, please omit this questions above, please omit this question of the following factors are im (please tick all boxes relevant to you) Your colleagues' previous experience of complaints Previous legal claims involving you Previous critical incident	e actions? all the estion. portant? Yes C C	No C C C	0	0	0	0	0

Stayed in the specialty but stopped carrying out the area of work that are considered high risk of complaints Changed your specialty Changed your specialty to abandon a procedure at an early stage Changed your specialty to abandon a procedure at an early stage Changed your specialty Changed your specialty to abandon a procedure at an early stage Changed your specialty Changed your specialty Changed your specialty At Indicate the extent you feel that any of the following changes would improve the complaints process? At all 2 To allow the doctor to have more direct input into responses to patient complaints Changed your specialty Changed your special s	of what you know about the complaints process, have
Stayed in the specialty but stopped carrying out the area of work that are considered high risk of complaints Changed your specialty Changed your specialty Become less likely to take on high-risk cases C	V N-
Changed your specialty Become less likely to take on high-risk cases C C C Felt that you have learnt from others' experience and improved your performance as a C Cother (please specify) 144. Indicate the extent you feel that any of the following changes would improve the complaints process? 145. Indicate the extent you feel that any of the following changes would improve the complaints process? 156. Not at all 2 some 4 extent To allow the doctor to have more direct input into responses to patient complaints C C C C C To be given a clear written protocol for any process at the onset C C C C C To have strict adherence to a statutary timeframe for any complaint and investigation process If a complaint from a clinical or managerial colleague was found to be vexatious then to have the Option of having this investigated and possible disciplinary measures taken If a complaint from a patient was found to be vexatious then to have the Option of having this investigated and possible disciplinary measures taken If a complaint from a patient was found to be vexatious then to have the Option to take action against that person To set a limit to the time period when it is permitted to file multiple complaints relating to the same clinical incident or from the same person or persons If the doctor is exonerated but has suffered financial loss during the process, then to have an avenue to make a claim for recovery of lost earnings or costs To have complete transparency of any management communication about the subject of a C C C C C complaints if they are made responsible for them The BMA and defence organisations should be more aggressive and less reactive to complaints in C C C C C general	
Become more likely to abandon a procedure at an early stage C C C Felt that you have learnt from others' experience and improved your performance as a doctor C C Dither (please specify) C C C C C C C C C C C C C C C C C C	0 0
Felt that you have learnt from others' experience and improved your performance as a C C C doctor other (please specify) 144. Indicate the extent you feel that any of the following changes would improve the complaints process? Not at all 2	uke on high-risk cases
Al. Indicate the extent you feel that any of the following changes would improve the complaints process? Not at all 2 To some 4	abandon a procedure at an early stage
A4. Indicate the extent you feel that any of the following changes would improve the complaints process? Not at all 2 To some 4 extent	It from others' experience and improved your performance as a
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general	
	organisations should be more aggressive and less reactive to complaints in C C C C
. Medical History (ii)	tory (ii)

The IMPACT study 45. In the past 12 months, have you suffered from any of the following health conditions or stressors (please tick all that applies): Cardio-vascular problems (e.g. high blood pressure, angina, heart attack) Gastro-intestinal problems (e.g. gastritis, IBS, ulcers) Depression Anxiety Anger & irritability Other mental health problems Suicidal thoughts ☐ Sleep problems / insomnia ■ Marital / relationship problems Frequent headaches Minor colds Recurring respiratory infections If yes - please specify 46. In the past 12 months, have you experienced any additional life stressors (e.g. bereavement, accident, etc.) Yes O No If yes, please specify 47. Have you ever been aware of, or other people raised concerns, that you are drinking too much alcohol or taking (prescribed or non-prescribed) drugs? Yes, in the past (more than 6 months ago) Yes, currently (in the last 6 months) ☐ No 10. Legal consequences and professional practice (ii) Within the LAST 6 MONTHS, have you ever taken the following actions which you would not have done if you were not worried about possible consequences such as complaints, disciplinary actions by managers, being sued, or publicity in the media?

Did you change the way you practice medicine?		Never	2	Sometimes	4	Ofte
		0	0	\odot	0	0
Prescribed more medications than medically indicated?		0	0	\circ	\odot	0
Suggested invasive procedures against professional judge	ement?	0	0	\circ	0	0
Referred to specialists in unnecessary circumstances?		0	0	\circ	\circ	0
Conducted more investigations or made more referrals evwarranted by the patient's condition?	en when this is no	· · · · · ·	0	0	0	0
Admitted patients to hospital when the patient could have safely or managed as an outpatient?	e been discharged	home C	O	0	0	0
Asked for more frequent observations to be carried out on	a patient than neo	essary?	0	0	0	0
Written in patients' records specific remarks such as "not s not if you were not worried about legal/media/disciplinary	•	would O	0	0	0	0
Written more letters than is necessary to communicate ab condition?	out the patient's	0	0	0	0	0
Referred patient for a second opinion more than necessar	y?	0	0	0	0	0
Carried out more tests than necessary?		0	0	0	0	0
Not accepted "high risk" patients in order to avoid possible	e complications?	0	0	0	0	0
Avoid a particular type of invasive procedure		0	0	0	0	0
Stopped doing aspects of your job?		0	0	0	0	0
Felt that you are a worse practitioner because of the abov	e actions?	0	0	0	0	0
questions above, please omit this qu Which of the following factors are im	portant?					
please tick all boxes relevant to you	•					
	Yes	No				
Previous experience of complaints about you	Yes	O				
Previous experience of complaints about you Your colleagues' previous experience of complaints	Yes O	0				
Previous experience of complaints about you Your colleagues' previous experience of complaints Previous legal claims involving you	Yes O O	© ©				
Previous experience of complaints about you Your colleagues' previous experience of complaints Previous legal claims involving you Previous legal claims involving your colleagues	Yes O O O	© © ©				
Previous experience of complaints about you Your colleagues' previous experience of complaints Previous legal claims involving you Previous legal claims involving your colleagues Previous critical incident	Yes O O	© ©				
Previous experience of complaints about you Your colleagues' previous experience of complaints Previous legal claims involving you Previous legal claims involving your colleagues	Yes O O O O	000000				

50. As a result of your experience do any of the following apply?

	Yes	No
Stayed in the specialty but stopped carrying out the area of work that led to the complaint	O	\circ
Changed your specialty	\circ	\circ
Less likely to take on high-risk cases	0	0
More likely to abandon a procedure at an early stage	0	0
Moved into a non-clinical role	0	0
You have become less committed and work strictly to your job description	0	0
You have learnt from the experience and improved your performance as a doctor	0	0
Left medicine and started a new career	0	0
The complaint or the way you were treated was related to discrimination	0	0
Retired early	0	\circ
Reduced your hours in the NHS to minimise your time there	0	0
Stopped working for the NHS and decided to work only in private practice or practice medicine elsewhere	0	0
Other (please specify)		

51. Indicate the extent you feel that any of the following changes would improve the process

	Not at all	2	To some extent	4	A great deal
To allow the doctor to have more direct input into responses to patient complaints	\odot	0	0	\odot	\odot
To be given a clear written protocol for any process at the onset	0	0	0	0	\odot
To have strict adherence to a statutary timeframe for any complaint and investigation process	0	0	0	0	\odot
Brief colleagues about any complaint or investigation to ensure unambiguous interrnal communications	0	0	0	0	0
If a complaint from a clinical or managerial colleague was found to be vexatious then to have the option of having this investigated and with possible disciplinary measures taken	0	0	0	0	0
If a complaint from a patient was found to be vexatious then to have the option to take action against that person	0	0	O	0	0
To set a limit to the time period when it is permitted to file multiple complaints relating to the same clinical incident or from the same person or persons	0	0	O	0	0
If the doctor is exonerated but has suffered financial loss during the process, then to have an avenue to make a claim for recovery of lost earnings or costs	0	0	O	0	0
To have complete transparency of any management communication about the subject of a complaint by giving access to this to the doctor's representatives	0	0	0	0	0
For all managers to demonstrate a full up to date knowledge of procedure in relation to complaints if they are made responsible for them	0	0	0	0	0
The BMA and defence organisations should be more aggressive and less reactive to complaints in general	0	O	0	O	0

11. About your complaint (iii)

Formal complaints Serious untoward incidents Referrals to the GMC		0 0 0	1 0	2	3	4	5	6	7	8	_
nformal complaints Formal complaints Serious untoward incidents Referrals to the GMC 3. If applicable, which comp		0	0		0						9
Serious untoward incidents Referrals to the GMC		0				0	0	0	0	0	0
Referrals to the GMC				0	0	0	0	0	0	0	0
		_	0	0	0	0	0	0	0	0	0
3. If applicable, which comp		0	0	0	0	0	0	0	0	0	O
	laint or i	ncid	ent h	ad tl	ne m	ost i	mpac	t on	you?		
<u> </u>											
Optional comments											
4. What was the reason for y	our com	nlaiı	at / re	eferra	al to	the G	MC (if ma	ore th	an o	ne.
lease select the most seriou		•		,10116	41 10	tiic t) O III		, C (II	iaii C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
_	is allega	Liviij	•								
Clinical complaint											
Clinical performance (i.e. concerns raised	d about your p	practice	e gener	ally)							
Personal conduct (e.g. dishonesty, affairs	s with patients	s)									
Criminal offence (e.g. dangerous driving,	. fraud)										
5. Where did the complaint o	come fro	m?									
	Yes	No									
Trust											
Medical colleagues											
Patient											
Management											
Media											
Patient group											
Other health care professional											
Anonymous											

Retraining imposed Disciplinary action Suspended from practice Struck off from the register The process was not clearly concluded Other (please specify) 61. At any point during the investigation(s), did you Yes No Take sick leave Take unpaid leave Have supervised practice Have restrictions placed on your practice Were you suspended Did your restrictions also include your private practice (if applicable) 62. How long were you off work in total?	The decision to hold a Fitness to Practice hearing The Fitness to Practice hearing itself The appeal 60. What was the outcome of the complaint / process 60. What was the outcome of the complaint / process 60. What was the outcome of the complaint / process 60. What was the outcome of the complaint / process 60. What was the outcome of the complaint / process 60. What was the outcome of the complaint / process 60. What was the outcome of the complaint / process 60. What was the outcome of the complaint / process 60. What was the outcome of the complaint / process 61. At any point during the investigation(s), did you Yes No Take sick leave C C Take unpaid leave Have supervised practice Have restrictions placed on your practice Were you suspended Did your restrictions also include your private practice (if applicable) 62. How long were you off work in total? 63. Please estimate the direct financial costs (e.g. trans a result of the investigation (if relevant) 64. Please estimate the indirect financial costs (e.g.	The decision to hold a Fitness to Practice hearing The Fitness to Practice hearing itself The appeal O O O What was the outcome of the complaint / proce No fault / exonerated Retraining imposed Disciplinary action Suspended from practice Struck off from the register The process was not clearly concluded Other (please specify) St. At any point during the investigation(s), did you yes not seen the complaint of the com			Extremely stressful	2	Somewh stressft		4	4 all
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	recult of the investigation (if relevant)	esuit of the investigation (if relevant)	64	ricase estimate the munect i		USL	s (c.g		. 1033 0	. 1055 OI Callill

The IMPACT study 65. At any point of the inquiry, did you Yes Nο Speak to family / friends about it 0 0 0 Speak to your colleagues about it Represent yourself 0 Access support from a medical professional support organisation Engage an independent solicitor or barrister 0 Were your case or the complaint published in the media (including social Access support from the BMA employment advice service Access support from the BMA counselling / other support organisation 66. As a consequence of the inquiry, to what extent do you agree/disagree with the following statements? Strongly Strongly N/A Neutral 4 agree disagree The potential consequences of the enquiry were clear to me throughout the process I clearly understood the process The process was transparent Going through the process, I felt that I was assumed guilty until 0 0 0 proven otherwise I felt as if I had been scapegoated 0 I felt I had no control over what was happening to me I felt alone in the proceedings My complaint was primarily related to conflicts with colleagues 0 I felt well supported by my management 0 0 0 0 I felt well supported by my colleagues I felt well supported by my medical professional support organisation 0 0 0 I felt well supported by my defence organisation I felt that the complaint was fair 0 0 0 0 0 0 I felt that the complaint was reasonably dealt with I felt that there were unnecessary delays in the process 0 0 0 0 0 I felt my complaint was handled competently 0 I was worried about the complaint escalating further I felt that the consequences were proportionate I felt that the nature of the process was overly punitive 0 0 0 0 I felt that the complaint was vexatious

67. To what extent did the following apply in relation to the process of the complaint or procedure you experienced?

	Not at all	2	To some extent	4	Definitely
Normal process was not followed	O	0	\odot	0	0
The documentary record such as minutes produced by the investigative body was fair and accurate	0	0	O	0	0
The time scale for the investigation was needlessly protracted	O	0	0	0	0
I was kept well informed of when or if I could bring representation to meetings	0	0	\circ	0	0
I believe there was inappropriate or vexacious use of the hospital clinical risk process	0	0	O	0	0
I felt the complaint arose because of dysfunctional relationships within the clinical team	0	0	O	0	0
I felt victimised because I had been a whistleblower for clinical or managerial failures	0	0	О	0	0
Clinical issues were found after the initial complaint and used against me	0	0	\odot	0	\circ
I felt bullied during the investigation	0	\odot	0	0	\odot
I felt managers used the process to undermine my position	0	0	0	0	0
I felt clinical colleagues used the process to gain an advantage either financially or professionally	0	0	0	0	0
Other (please specify)					

68. During the inquiry, to what extent were you worried about the following outcomes?

	A lot	2	To some extent	4	Not at all
Loss of livelihood	0	0	0	\odot	0
Public humiliation	0	0	0	0	\circ
Professional humiliation	0	0	0	0	0
Having aspects of your clinical practice restricted	0	0	O	0	0
Family problems	0	0	0	\circ	0
Having a marked record in the future	0	0	0	\circ	\circ
Financial costs	0	0	0	\odot	\odot

69. Currently, to what extent do you worry about complaints being made against you?

0	A great deal / nearly all the time
0	2
0	To some extent

4

O Not at all

		agree	y 2	Neutral	4	Definitely disagree
Complaints are usually due to bad luck		0	\odot	0	0	0
A doctor who receives more complaints than does so because of poor clinical performance		usually C	0	O	0	0
Complaints are caused by litigatious patients		0	\odot	0	0	0
Doctors are hounded by the media		0	0	0	0	0
Doctors who receive complaints against them unsuitable to practice medicine	are generally	0	0	0	0	0
I feel the need to please my colleagues to av me	oid complaints ag	gainst C	0	O	0	0
Making a complaint is a good way of getting are "inconvenient"	rid of colleagues	that C	0	0	0	0
Receiving a complaint would seriously affect	my future career	0	0	O	0	O
prospects						
I have considered changing my career because receiving a complaint in my speciality 2. Medical History (iii) 71. When you were facing th		-	u experie	nce any of	C	С
I have considered changing my career because receiving a complaint in my speciality 2. Medical History (iii) 71. When you were facing the following? Cardio-vascular problems (e.g. high blood	e investiga	tion, did yo	u experie	nce any of	C	C
I have considered changing my career because receiving a complaint in my speciality 2. Medical History (iii) 71. When you were facing the he following? Cardio-vascular problems (e.g. high blood pressure, angina, heart attack) Gastro-intestinal problems (e.g. gastritis,	e investiga	tion, did you	u experie	nce any of	C	C
I have considered changing my career because receiving a complaint in my speciality 2. Medical History (iii) 71. When you were facing the following? Cardio-vascular problems (e.g. high blood pressure, angina, heart attack)	e investiga Improvement	tion, did you	u experie	nce any of Worsening of	C	C
I have considered changing my career because receiving a complaint in my speciality 2. Medical History (iii) 71. When you were facing the he following? Cardio-vascular problems (e.g. high blood pressure, angina, heart attack) Gastro-intestinal problems (e.g. gastritis, IBS, ulcers) Depression	e investiga Improvement	tion, did you	u experied	worsening of	C	C
I have considered changing my career because receiving a complaint in my speciality 2. Medical History (iii) 71. When you were facing the he following? Cardio-vascular problems (e.g. high blood pressure, angina, heart attack) Gastro-intestinal problems (e.g. gastritis, IBS, ulcers) Depression Anxiety	e investiga	tion, did you	onset of	worsening of	C	C
I have considered changing my career because receiving a complaint in my speciality 2. Medical History (iii) 71. When you were facing the following? Cardio-vascular problems (e.g. high blood pressure, angina, heart attack) Gastro-intestinal problems (e.g. gastritis, IBS, ulcers)	e investiga	tion, did you	onset of	worsening of	C	C
I have considered changing my career because receiving a complaint in my speciality 2. Medical History (iii) 71. When you were facing the he following? Cardio-vascular problems (e.g. high blood pressure, angina, heart attack) Gastro-intestinal problems (e.g. gastritis, IBS, ulcers) Depression Anxiety Anger & irritability	e investiga	tion, did you	onset of	worsening of	C	C
I have considered changing my career because receiving a complaint in my speciality 2. Medical History (iii) 71. When you were facing the he following? Cardio-vascular problems (e.g. high blood pressure, angina, heart attack) Gastro-intestinal problems (e.g. gastritis, IBS, ulcers) Depression Anxiety Anger & irritability Other mental health problems	e investiga Improvement	tion, did you	onset of	worsening of	C	C
I have considered changing my career because receiving a complaint in my speciality 2. Medical History (iii) 71. When you were facing the he following? Cardio-vascular problems (e.g. high blood pressure, angina, heart attack) Gastro-intestinal problems (e.g. gastritis, IBS, ulcers) Depression Anxiety Anger & irritability Other mental health problems Suicidal thoughts	e investiga	tion, did you	Onset of	worsening of	C	C
I have considered changing my career because receiving a complaint in my speciality 2. Medical History (iii) 71. When you were facing the he following? Cardio-vascular problems (e.g. high blood pressure, angina, heart attack) Gastro-intestinal problems (e.g. gastritis, IBS, ulcers) Depression Anxiety Anger & irritability Other mental health problems Suicidal thoughts Sleep problems / insomnia	e investiga	tion, did you No change	Onset of	worsening of	0	C
I have considered changing my career because receiving a complaint in my speciality 2. Medical History (iii) 71. When you were facing the he following? Cardio-vascular problems (e.g. high blood pressure, angina, heart attack) Gastro-intestinal problems (e.g. gastritis, IBS, ulcers) Depression Anxiety Anger & irritability Other mental health problems Suicidal thoughts Sleep problems / insomnia Relationship problems	e investiga Improvement	tion, did you	onset of	worsening of	C	C

ne IMPACT study					
2. During the process, did you experience any addition	onal life	e stres	ssors (e.g	J.	
ereavement, accident, etc.)					
C Yes					
○ No					
f yes please specify					
73. Have you ever been aware of, or other people raise oo much alcohol or taking (prescribed or non-prescr		•	that you	are d	rinkinç
Yes, in the past (more than 6 months ago)	-				
Yes, currently (in the last 6 months)					
Yes, during the investigation					
No					
Within the LAST 6 MONTHS, have you ever taken the following actions to worried about possible consequences such as complaints, disciplibation of the media?	-				-
Within the LAST 6 MONTHS, have you ever taken the following actions not worried about possible consequences such as complaints, disciplinately in the media?	nary acti	ons by	managers, I	being s	ued, or
Within the LAST 6 MONTHS, have you ever taken the following actions not worried about possible consequences such as complaints, disciplinated with the control of the contr	nary acti	ons by	managers, I	being s	ued, or
Within the LAST 6 MONTHS, have you ever taken the following actions not worried about possible consequences such as complaints, disciplinately in the media?	nary acti u done	any o	managers, I	oeing s	ued, or
Within the LAST 6 MONTHS, have you ever taken the following actions not worried about possible consequences such as complaints, disciplibublicity in the media? 74. As a result of your experience, how often have you	nary acti u done	any o	managers, I f the following sometimes	owing 4	ed, or Often
Within the LAST 6 MONTHS, have you ever taken the following actions not worried about possible consequences such as complaints, disciplification of the media? 74. As a result of your experience, how often have you provide you change the way you practice medicine?	u done Never	any or	f the folions of the	owing 4	? Often
Within the LAST 6 MONTHS, have you ever taken the following actions not worried about possible consequences such as complaints, disciplification in the media? 74. As a result of your experience, how often have you provide you change the way you practice medicine? Prescribed more medications than medically indicated?	u done Never	any o	f the folio	owing 4 C	Often
Within the LAST 6 MONTHS, have you ever taken the following actions not worried about possible consequences such as complaints, disciplification in the media? 24. As a result of your experience, how often have you plid you change the way you practice medicine? Prescribed more medications than medically indicated? Suggested invasive procedures against professional judgement?	u done Never	any or	f the folice Sometimes	owing 4 C C	Often
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Within the LAST 6 MONTHS, have you ever taken the following actions not worried about possible consequences such as complaints, disciplification of the media? 74. As a result of your experience, how often have you would not be a prescribed more medications than medically indicated? Prescribed more medications than medically indicated? Suggested invasive procedures against professional judgement? Referred to specialists in unnecessary circumstances? Conducted more investigations or made more referrals than warranted by the patient's condition? Admitted patients to hospital when the patient could have been discharged home safely or managed as an outpatient?	Never O O	any or	f the folio	owing 4 C C C	Often O O O
Within the LAST 6 MONTHS, have you ever taken the following actions not worried about possible consequences such as complaints, disciplification by the media? 74. As a result of your experience, how often have you have you change the way you practice medicine? Prescribed more medications than medically indicated? Suggested invasive procedures against professional judgement? Referred to specialists in unnecessary circumstances? Conducted more investigations or made more referrals than warranted by the patient's condition? Admitted patients to hospital when the patient could have been discharged home eafely or managed as an outpatient? Asked for more frequent observations to be carried out on a patient than necessary? Written in patients' records specific remarks such as "not suicidal" which you would	Never	any or	f the folice Sometimes C C C C C C C	being s being s being s	Often O O O O
Within the LAST 6 MONTHS, have you ever taken the following actions not worried about possible consequences such as complaints, disciplification of the media? 24. As a result of your experience, how often have you would not if you were not worried about legal/media/disciplinary consequences? Written more letters about a patient than is necessary to communicate about the	nary acti	any or 2 O O O O O O O	f the folice Sometimes C C C C C C C C C C C C C C C C C C C	Dwing 4 C C C C C C	Often O O O O O
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Which of the following factors are im		•			
please tick all boxes relevant to you)		No			
Previous experience of complaints about you	Yes	NO			
Your colleagues' previous experience of complaints	0	0			
Previous legal claims involving you	0	0			
Previous legal claims involving your colleagues	0	0			
Previous critical incident	\circ	\circ			
Concerns about media interest	0	0			
Other (please specify)					
'6. As a result of your experience do	any of t	he follov	wing a	pply?	•
	-		_	Yes	No
Stayed in the specialty but stopped carrying out the area c	-		_	Yes	No O
Stayed in the specialty but stopped carrying out the area c	-		_	Yes O	No O
Stayed in the specialty but stopped carrying out the area of Changed your specialty	-		_	Yes O O	No O O
Stayed in the specialty but stopped carrying out the area of Changed your specialty Less likely to take on high-risk cases	-		_	Yes O O O	No O
Stayed in the specialty but stopped carrying out the area of Changed your specialty Less likely to take on high-risk cases More likely to abandon a procedure at an early stage	-		_	Yes O O O O	No
Stayed in the specialty but stopped carrying out the area of Changed your specialty Less likely to take on high-risk cases More likely to abandon a procedure at an early stage Moved into a non-clinical role	of work that le	d to the com	_	Yes O O O	No O O
Stayed in the specialty but stopped carrying out the area of Changed your specialty Less likely to take on high-risk cases More likely to abandon a procedure at an early stage Moved into a non-clinical role You have become less committed and work strictly to your	of work that le	od to the com	_	Yes C C C C C C C C	No
Stayed in the specialty but stopped carrying out the area of Changed your specialty Less likely to take on high-risk cases More likely to abandon a procedure at an early stage Moved into a non-clinical role You have become less committed and work strictly to your procedure and improved your procedure and improved your procedure.	of work that le	od to the com	_	Yes C C C C C	No
Stayed in the specialty but stopped carrying out the area of Changed your specialty Less likely to take on high-risk cases More likely to abandon a procedure at an early stage Moved into a non-clinical role You have become less committed and work strictly to your You have learnt from the experience and improved your performance.	of work that le	od to the com	_	Yes C C C C C C C C C C C C C	No
Stayed in the specialty but stopped carrying out the area of Changed your specialty Less likely to take on high-risk cases More likely to abandon a procedure at an early stage Moved into a non-clinical role You have become less committed and work strictly to your You have learnt from the experience and improved your per Left medicine and started a new career The complaint or the way you were treated was related to	of work that le	od to the com	_	Yes C C C C C C C C C C C C C C C C C C C	No
76. As a result of your experience do Stayed in the specialty but stopped carrying out the area of Changed your specialty Less likely to take on high-risk cases More likely to abandon a procedure at an early stage Moved into a non-clinical role You have become less committed and work strictly to your You have learnt from the experience and improved your per Left medicine and started a new career The complaint or the way you were treated was related to Retired early Reduced your hours in the NHS to minimise your time ther	job description	od to the com	_	Yes C C C C C C C C C C C C C	No
Stayed in the specialty but stopped carrying out the area of Changed your specialty Less likely to take on high-risk cases More likely to abandon a procedure at an early stage Moved into a non-clinical role You have become less committed and work strictly to your You have learnt from the experience and improved your per Left medicine and started a new career The complaint or the way you were treated was related to Retired early	job description of work that less job description of the control o	on s a doctor	plaint	Yes C C C C C C C C C C C C C	No

77. Indicate the extent you feel that any of the following changes would improve the process

	Not at all	2	To some extent	4	A great deal
To allow the doctor to have more direct input into responses to patient complaints	0	0	0	0	0
To be given a clear written protocol for any process at the onset	0	0	0	0	0
To have strict adherence to a statutary timeframe for any complaint and investigation process	\odot	0	0	0	•
Brief colleagues about any complaint or investigation to ensure unambiguous internal communications	0	0	0	0	0
If a complaint from a clinical or managerial colleague was found to be vexatious then to have the option of having this investigated and with possible disciplinary measures taken	0	0	0	0	0
If a complaint from a patient was found to be vexatious then to have the option to take action against that person	0	0	0	0	0
To set a limit to the time period when it is permitted to file multiple complaints relating to the same clinical incident or from the same person or persons	0	0	0	0	0
If the doctor is exonerated but has suffered financial loss during the process, then to have an avenue to make a claim for recovery of lost earnings or costs	0	0	0	0	0
To have complete transparency of any management communication about the subject of a complaint by giving access to this to the doctor's representatives	0	0	0	0	0
For all managers to demonstrate a full up to date knowledge of procedure in relation to complaints if they are made responsible for them	0	0	0	0	0
The BMA and defence organisations should be more aggressive and less reactive to complaints in general	0	0	0	0	0

14. PHQ-9 & GAD-7

78. Over the last 2 WEEKS, how often have you been bothered by any of the following problems?

	Not at all	Several days	More than half the days	Nearly every day
Little interest or pleasure in doing things	O	0	0	0
Feeling down, depressed, or hopeless	0	\circ	\circ	0
Trouble falling or staying asleep, or sleeping too much	0	0	0	0
Feeling tired or having little energy	0	0	0	0
Poor appetite or overeating	0	0	0	0
Feeling bad about yourself — or that you are a failure or have let yourself or your family down	0	0	0	0
Trouble concentrating on things, such as reading the newspaper or watching television	0	0	O	0
Moving or speaking so slowly that other people could have noticed? Or the opposite — being so fidgety or restless that you have been moving around a lot more than usual	0	0	0	0
Thoughts that you would be better off dead or of hurting yourself in some way	0	0	0	0

79. @If you checked off any problems, how difficult have these problems made it for)ľ
you to do your work, take care of things at home, or get along with other people?	

- Not difficult at all
- Somewhat difficult
- Very difficult
- C Extremely difficult

80. Over the last 2 WEEKS, how often have you been bothered by the following problems?

	Not at all	Several days	More than half the days	Nearly every day
Feeling nervous, anxious or on edge	0	0	O	0
Not being able to stop or control worrying	0	0	0	0
Worrying too much about different things	0	0	0	0
Trouble relaxing	0	0	0	0
Being so restless that it is hard to sit still	0	0	0	0
Becoming easily annoyed or irritable	0	0	0	0
Feeling afraid as if something awful might happen	0	0	0	0

15. LDI

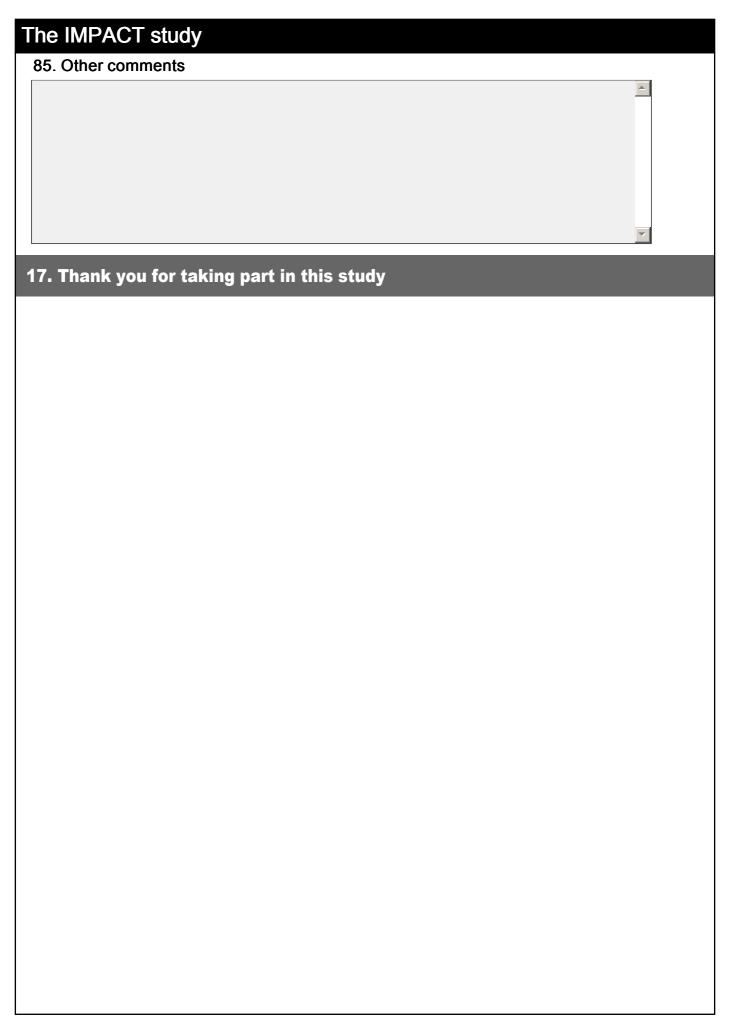
This scale is intended to estimate your current level of satisfaction with each of the eighteen areas of your life listed below. Please circle one of the numbers (1-7) beside each area. Numbers toward the left end of the seven-unit scale indicate higher levels of dissatisfaction, while numbers toward the right end of the scale indicate higher levels of satisfaction. Try to concentrate on how you currently feel about each area.

81. Please estimate your current level of satisfaction with each of the following areas of your life.

	1 Extremely dissatisfied	2	3	4	5	6 Extremely satisfied
Marriage	O	•	0	0	0	0
Relationship to spouse	\circ	0	0	0	0	0
Relationship to children	0	0	0	0	0	0
Financial situation	0	0	0	0	0	0
Employment	0	0	0	0	0	0
Recreation/Leisure	0	0	0	0	\circ	0
Social life	0	0	0	0	0	0
Physical health	0	0	0	0	0	0
Satisfaction with life	0	0	0	0	0	0
Expectations for future	0	0	0	0	0	0

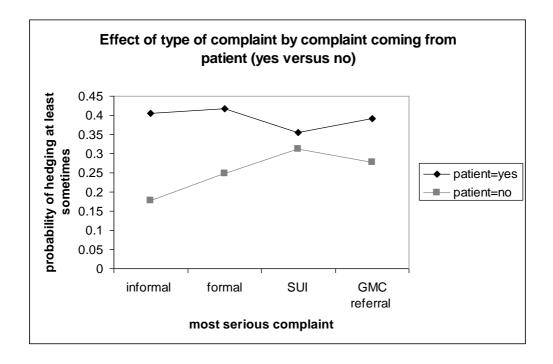
16. Additional information (optional)

The IMPACT study	
82. (If relevant) Try to summarise as best you can your experience of the complain process and how it made you feel	nts
83. (if relevant) What were the most stressful aspects of the complaint?	_
84. What would you improve in the complaints system?	=
	_



Supplementary online material

Supplementary figure 1: Effect of type of complaint on hedging behavior by origin of complaint.



Supplementary material sensitivity analysis and supplementary tables 1-4

Sensitivity Analysis.

As a last step in the analysis, we performed a sensitivity analysis considering also missingness not at random (MNAR) for some of the key analyses. MNAR means that, even accounting for all the available observed information, the reason for observations being missing still depends on the unseen observations themselves. We performed a simple sensitivity analysis, assuming as a not ignorable missing model that depression, anxiety, hedging and avoiding are worse when the value is missing. Therefore, after multiple imputation under the MAR assumption using MICE, I increased each imputed value of depression (PHQ9) and anxiety (GAD7) by a certain number d. This number d was obtained as follows. First, a random number δ was sampled from a normal distribution with mean the estimated standard deviation of the distribution of PHQ9/GAD7, and standard deviation the square root of this value. Then $d=\max(\delta, 1)$, such that d is restricted to imply an increase in PHQ9/GAD7. Therefore, d instead of δ is added to the imputed value under missingness at random (MAR). After this, the new imputed value is rounded and bound at the maximum possible value, such that an integer number on the original scale is obtained. For hedging/avoiding, all missings were assumed to have displayed at least some hedging/avoiding behaviour. The actual score on the scale is irrelevant, because the scale is dichotomised prior to the analysis. After the imputations under MNAR are computed, analysis proceeds as usual, using Rubin's rules to combine results.

Supplementary table 1: Sensitivity analysis for PHQ-9

December 1 and				TI-4-1	D -1-42	D-1-4!
Depression	No	Past	Recent/	Total	Relative	Relative
(PHQ-9) ^a	complaint	complaint	current	n=7926	risk for	risk for
	n=1780	n=3889	complaint	(100%)	past	recent
	(22.5%)	(49.1%)	n=2257		complaint	complaint
			(28.5%)		group/	group /
					mean	mean
					difference	difference
					(95% CI)	(95% CI)
Missings	255	1144	214	1613	Ź	
	(14%)	(29%)	(9%)	(20%)		
Complete case						
Mean (SD)	3.8 (4.5)	3.4 (4.6)	5.2 (5.8)	4.1 (5.0)	-0.4	1.4
					(-0.7, 0.1)	(1.1, 1.7)
Moderate to severe	160	254	363	777	0.88	1.69
depression n (%)	(10.5%)	(9.3%)	(17.8%)	(12.3%)	(0.73, 1.06)	(1.42, 2.02)
MI MAR						
Mean (SD)	3.7 (4.3)	3.4 (4.2)	5.1 (5.6)	3.9 (4.7)	-0.3	1.4
					(-0.6, -0.0)	(1.1, 1.7)
Moderate to severe	169	303	381	852	0.81	1.77
depression n (%)	(9.5%)	(7.8%)	(16.9%)	(10.8%)	(0.65, 1.01)	(1.48, 2.13)
MI MNAR						
Mean (SD)	4.3 (4.6)	4.7 (4.8)	5.4 (5.7)	4.8 (5.1)	0.4	1.1
					(0.1, 0.7)	(0.8, 1.4)
Moderate to severe	238	593	432	1263	1.14	1.43
depression n (%)	(13.4%)	(15.2%)	(19.2%)	(15.9%)	(0.95, 1.35)	(1.21, 1.70)

^a The PHQ-9 depression scale ranges from 0 to 27. A score below five indicates absence of depression, a score between five and nine indicates mild depression, a score between ten and fourteen indicates moderate depression, a score between fifteen and nineteen indicates moderately severe depression and a score above nineteen indicates severe depression.

Supplementary table 2: Sensitivity analysis for GAD-7

Anxiety (GAD7) b	No	Past	Recent/	Total	Relative	Relative
Analety (GAD1)	complaint	complaint	current	n=7926	risk for	risk for
	n=1780	n=3889	complaint	(100%)	past	recent
	(22.5%)	(49.1%)	n=2257	(100%)	•	
	(22.3%)	(49.1%)			complaint	complaint
			(28.5%)		group/	group /
					mean	mean
					difference	difference
					(95% CI)	(95% CI)
Missings	258	1148	201	1607		
	(14%)	(30%)	(9%)	(20%)		
Complete case						
Mean (SD)	3.2 (3.9)	3.0 (4.0)	4.7 (5.0)	3.6 (4.4)	-0.2	1.5
					(-0.4, 0.1)	(1.2, 1.8)
Moderate to severe	123	194	330	647	0.88	1.99
depression n (%)	(8.1%)	(7.1%)	(16.1%)	(10.2%)	(0.71, 1.09)	(1.63, 2.42)
MI MAR						
Mean (SD)	3.1 (3.8)	3.0 (3.8)	4.5 (4.9)	3.5 (4.2)	-0.1	1.4
					(-0.4, 0.2)	(1.1, 1.7)
Moderate to severe	131	234	338	703	0.80	2.08
depression n (%)	(7.3%)	(6.0%)	(15.0%)	(8.9%)	(0.57, 1.13)	(1.61, 2.68)
MI MNAR						
Mean (SD)	3.7 (4.1)	4.3 (4.4)	4.9 (5.0)	4.3 (4.6)	0.5	1.2
					(0.2, 0.9)	(0.9, 1.5)
Moderate to severe	173	463	374	1011	1.22	1.71
depression n (%)	(9.7%)	(11.9%)	(16.6%)	(12.75%)	(0.98, 1.51)	(1.35, 2.18)

depression n (%) (9.7%) (11.9%) (16.6%) (12.75%) (0.98, 1.51) (1.35, 2.1 b The GAD-7 anxiety scale ranges from 0 to 21. A score below five indicates minimal anxiety, a score between five and nine indicates mild anxiety, a score between ten and fourteen indicates moderate anxiety and a score of fifteen or above indicates severe anxiety.

Supplementary table 3: Sensitivity analysis for hedging.

Because of your /	No	Past	Recent or	Total	Relative	Relative
other's	complaint	complaint	current	n=7926	Risk	Risk
experiences with	n=1780	n=3889	complaint	(100%)	for past	for recent
complaints, have	(22.5%)	(49.1%)	n=2257		complaint	or current
you ever			(28.5%)		(95% CI)	complaint
displayed						(95% CI)
hedging						
behaviour?						
Missings	268	1241	273	1782		
Complete case						
n (%)	1222	2135	1752	5109	1.00	1.09
	(80.8%)	(80.6%)	(88.3%)	(83.1%)	(0.97, 1.03)	(1.06,1.13)
MAR						
n (%)	1454	3212	1999	6665	1.01	1.08
	(81.7%)	(82.6%)	(88.6%)	(84.1%)	(0.98, 1.04)	(1.05,
						1.11)
MI MNAR						
n (%)	1484	3369	2023	6876	1.04	1.08
	(83.4%)	(86.6%)	(89.6%)	(86.8%)	(1.01, 1.06)	(1.05, 1.10)

Supplementary table 4: Sensitivity analysis for avoidance.

Because of your / other's experiences with complaints, have you ever displayed avoiding behaviour?	No complaint n=1780 (22.5%)	Past complaint n=3889 (49.1%)	Recent or current complaint n=2257 (28.5%)	Total n=7926 (100%)	Relative Risk for past complaint (95% CI)	Relative Risk for recent or current complaint (95% CI)
Missings	242	1222	257	1721		
Complete case						
n (%)	705 (45.8%)	1137 (42.6%)	995 (49.8%)	2837 (45.7%)	0.93 (0.87,1.00)	1.09 (1.01,1.16)
MAR					·	
n (%)	820 (46.1%)	1668 (42.9%)	1124 (49.8%)	3612 (45.6%)	0.93 (0.87,1.00)	1.08 (1.00,1.17)
MI MNAR			·	-		
n (%)	947 (53.2%)	2359 (60.7%)	1252 (55.5%)	4558 (57.5%)	1.14 (1.08,1.20)	1.04 (0.98,1.10)

Supplementary table 5: How doctors ranked the importance of different actions that might be taken to improve the complaints process might be improved (note these data are not imputed).

	Not at	A	To some	Quite a	A great	missing	total
	all n (%)	little n (%)	extent n (%)	lot n (%)	deal n (%)	n	n
To allow the doctor to	245	313	2256	1524	1973	3802	10113
have more direct input into	(3.9%)	(5.0%)	(35.8%)	(24.2%)	(31.3%)	2002	10110
responses to patient	(,	(/	(,		(=,		
complaints							
To be given a clear written	217	342	1501	1846	2400	3807	10113
protocol for any process at	(3.4%)	(5.4%)	(23.8%)	(29.3%)	(38.1%)		
the onset							
To have strict adherence to	199	402	1599	1732	2379	3803	10113
a statutary timeframe for	(3.2%)	(6.4%)	(25.3%)	(27.5%)	(37.7%)		
any complaint and		, ,					
investigation process							
Brief colleagues about any	261	440	1816	1972	1733	3891	10113
complaint or investigation	(4.2%)	(7.1%)	(29.2%)	(31.7%)	(27.9%)		
to ensure unambiguous							
internal communications							
If a complaint from a	152	202	1202	1981	2690	3886	10113
clinical or managerial	(2.4%)	(3.2%)	(19.3%%)	(31.8)	(43.2%)		
colleague was found to be							
vexatious then to have the							
option of having this							
investigated and possible							
disciplinary measures							
taken	212	40.4	1206	1520	2027	2006	10110
If a complaint from a	212	434	1296	1528	2837	3806	10113
patient was found to be vexatious then to have the	(3.4%)	(6.9%)	(20.6%)	(24.2%)	(45.0%)		
option to take action							
against that person							
To set a limit to the time	131	260	1315	1855	2668	3884	10113
period when it is permitted	(2.1%)	(4.2%)	(21.1%)	(29.8%)	(42.8%)	3004	10113
to file multiple complaints	(2.170)	(4.270)	(21.170)	(27.070)	(42.070)		
relating to the same							
clinical incident or from							
the same person or persons							
If the doctor is exonerated	64	138	785	1872	3455	3799	10113
but has suffered financial	(1.0%)	(2.2%)	(12.4%)	(29.7%)	(54.7%)		
loss during the process,		, ,					
then to have an avenue to							
make a claim for recovery							
of lost earnings or costs							
To have complete	59	102	757	1770	3559	3866	10113
transparency of any	(1.0%)	(2.2%)	(12.4%)	(28.3%)	(57.0%)		
management							
communication about the							
subject of a complaint by							
giving access to this to the							
doctor's representatives	<i>(5</i>	107	767	1744	2551	2070	10112
For all managers to	65	107	767	1744	3551	3879	10113
demonstrate a full up to	(1.0%)	(1.7%)	(12.3%)	(28.0%)	(57.0%)		
date knowledge of							
procedure in relation to							
complaints if they are							
made responsible for them					l .]	

The BMA and defence	186	447	1601	1465	2575	3839	10113
organisations should be	(3.0%)	(7.1%)	(25.5%)	(23.4%)	(41.0%)		
more aggressive and less							
reactive to complaints in							
general							

UK doctors facing complaints dogged by severe depression and suicidal thoughts

Those referred to UK professional regulator seem to be most at risk

[The impact of complaints procedures on the welfare, health and clinical practise of 7926 doctors in the UK: a cross sectional survey doi 10.1136/bmjopen-2014-006687]

UK doctors subject to complaints procedures are at significant risk of becoming severely depressed and suicidal, reveals research published in the online journal *BMJ Open*.

Those referred to the UK professional regulator, the General Medical Council (GMC), seem to be most at risk of mental ill health, the findings suggest.

The researchers base their findings on an anonymised online survey of more than 95,000 UK doctors in 2012, all of whom were members of the British Medical Association (BMA).

Almost 8000 (8.3%) fully completed the questionnaire and were included in the final analysis. Respondents were broadly representative of the BMA membership in terms of gender mix and place of qualification, although there were some differences in ethnic background and age range.

Respondents were streamed into three groups: those subject to a current/ongoing complaint within the past 6 months (recent); those who had endured a complaint more than 6 months ago (past); and those who had no personal experience of a complaint.

The survey questions were designed to probe attitudes to any type of complaints procedure, ranging from informal through to referral to the GMC, as well as the psychological and professional fall-out of going through the process, and what might be done to improve it.

The survey also included questions about medical history; validated tests of depression and anxiety; and an assessment of life satisfaction.

Around one in five respondents (22.5%) had no personal experience of a complaint; almost half (49%) had faced a complaint in the past; and more than one in four (28.5%) had done so recently.

Around one in six (just under 17%) of those with a recent complaint were moderately to severely depressed, and they were 77% more likely to report these symptoms than doctors in the other two groups, after taking account of influential factors.

And they were twice as likely as those who had no personal experience of a complaint to harbour thoughts of self-harm or suicide.

A similar proportion (15%) of those in the recent/ongoing complaints category were also twice as likely to have clinically significant levels of anxiety as doctors with no personal experience of a complaint.

Lvels of psychological distress paralleled the type of complaint. Doctors who had been referred to the GMC reported the highest levels of depression (more than 26%), anxiety (more than 22%), and thoughts of self-harm (more than 15%).

Doctors subject to a recent/ongoing complaint were also more likely to have poorer health and wellbeing, including gut problems, insomnia, and relationship issues.

Defensive practice was common, with most (80%) of those who had experienced a complaint saying they had changed their clinical practice as a direct result, deploying tactics such as avoidance—not carrying out difficult surgery, for example—or hedging—ordering too many investigations, for example—and in some cases, acting against their professional judgement.

Furthermore, almost three out of four of those who had not been the subject of a complaint said they had also changed their clinical practice after witnessing a colleague's experience of going through the process.

"These behaviours are not in the interest of patients and may cause harm, while they may also potentially increase the cost of healthcare provision," note the researchers.

The process itself was often an unpleasant experience for the doctors involved. One in five of those who had been subject to a complaint felt victimised for having blown the whistle on poor clinical or managerial practice, and almost four out of 10 (38%) said they felt bullied during the investigation. And around one in four had taken more than a month off work.

Most of the respondents who offered suggestions for ways to improve complaints procedures focused on boosting managerial competence in complaints handling; greater transparency; and disciplinary action for vexatious complaints.

The researchers caution that the overall response rate may mean that these findings are not truly representative of doctors working in the UK, and this is an observational study so no definitive conclusions about cause and effect can be drawn. But as the largest UK study of its kind, they believe the findings are relevant.

They emphasise the importance of protecting patient safety and of enabling complaints to be raised as a way of improving standards of care, but go on to say: "However, a system that is associated with high levels of psychological morbidity among those going through it is not appropriate. Most importantly, a system that leads to so many doctors practising defensive medicine is not good for patients.