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Professional values and reported behaviours of doctors in the USA and UK: quantitative survey

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► An additional appendix is published online only. To view this file please visit the journal online (<http://qualitysafety.bmj.com>).

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ABSTRACT

Background: The authors aimed to determine US and UK doctors' professional values and reported behaviours, and the extent to which these vary with the context of care.

Method: 1891 US and 1078 UK doctors completed the survey (64.4% and 40.3% response rate respectively). Multivariate logistic regression was used to compare responses to identical questions in the two surveys.

Results: UK doctors were more likely to have developed practice guidelines (82.8% UK vs 49.6% US, $p < 0.001$) and to have taken part in a formal medical error-reduction programme (70.9% UK vs 55.7% US, $p < 0.001$). US doctors were more likely to agree about the need for periodic recertification (completely agree 23.4% UK vs 53.9% US, $p < 0.001$). Nearly a fifth of doctors had direct experience of an impaired or incompetent colleague in the previous 3 years. Where the doctor had not reported the colleague to relevant authorities, reasons included thinking that someone else was taking care of the problem, believing that nothing would happen as a result, or fear of retribution. UK doctors were more likely than US doctors to agree that significant medical errors should always be disclosed to patients. More US doctors reported that they had not disclosed an error to a patient because they were afraid of being sued.

Discussion: The context of care may influence both how professional values are expressed and the extent to which behaviours are in line with stated values. Doctors have an important responsibility to develop their healthcare systems in ways which will support good professional behaviour.

INTRODUCTION

The place of doctors in society is changing, and previously accepted claims that doctors have rights to self regulation and autonomy are now routinely questioned. There are

many reasons for this, including the ability of patients to access detailed and accurate information about their own health and illnesses, demonstration of widespread variations in quality of care, well-publicised medical scandals and the rise of managerialism.^{1 2} In response to these changes, there have been initiatives in several countries to redefine what it means to be a medical professional,³ in some cases advocating a new type of relationship between doctors and their patients—a 'new professionalism.'^{4 5} These initiatives have produced a number of key documents including a US/European Charter on Medical Professionalism ('the Charter'),^{6 7} 'Doctors in Society' produced by the Royal College of Physicians of London⁸ and statements by the UK General Medical Council including 'Good Medical Practice.'⁹

These statements on professionalism affirm the primacy of patient welfare, avoiding discrimination against patients, and acting with honesty and integrity. They define professional behaviour in terms of avoiding conflicts of interest, providing a high standard of care and engaging in quality improvement activities. All of the documents contain statements about doctors' responsibilities for just distribution of limited medical resources, ensuring fair access to care, and promoting the autonomy of patients. The statements also depart from previous descriptions of professionalism. For example, recent statements emphasise doctors' responsibilities for addressing poor performance by other doctors, with explicit guidance in UK documents that doctors should address unacceptable practice by colleagues.⁹ In addition, self-regulation and professional

autonomy, once seen as defining features of a profession, are largely absent from recent documents. The British Medical Association, commenting on recent changes in public attitudes to doctors, associates a loss of professional autonomy with a loss of morale among doctors.¹⁰ However, another study found that doctors generally supported shifts away from paternalism¹¹ towards a new type of relationship which Hilton describes as moving from ‘priest to mountain guide.’¹²

Although statements of professionalism from different countries have much in common, doctors’ values and behaviours may be shaped by the context in which they live and work. In this study, we investigated the extent to which current statements of values are supported by doctors working in the different healthcare systems of the UK and USA. These differences include the UK having a nationalised health service with national programmes of standard setting and quality improvement, national bodies to define cost-effectiveness criteria for prescribing drugs, and a payment system under which doctors’ income is relatively independent of volume of services provided to patients. We explored the extent to which doctors’ reported behaviours were consistent with their stated values and whether differences in reported values and behaviours might be related to differences in the context in which doctors practised.

METHOD

A survey of professional values previously carried out in the USA in 2003/2004¹³ was revised and refielded in 2009 alongside a UK survey based on four source documents on professionalism.^{7–9 14} The questionnaires were designed to permit comparison between the responses

of US and UK doctors. We drew random samples of US doctors certified to practise in three primary care specialties (internal medicine, family practice and paediatrics) and four non-primary care specialties (cardiology, general surgery, psychiatry and anaesthesia). In the UK, we drew stratified random samples of trained general practitioners (GPs) and cardiologists, general surgeons and psychiatrists working in England and Scotland. The response rate was 64.4% in the USA and 40.3% in the UK. We included weights in the analysis to account for both sampling design and non-response. Analyses reported in this paper were restricted to survey items that were common to both of the US and UK surveys. Multivariate logistic regression models were used to determine the effect of survey country on the different outcomes (values and behaviours) controlling for a range of doctor characteristics. From these models, we obtained adjusted percentages and standard errors which indicate the percentage of respondents in a given category who reported values and behaviours that were in line with the normative statements of professional values. The online appendix contains further details of the development and delivery of the questionnaire and statistical methods used.

RESULTS

Table 1 summarises doctors’ characteristics. We adjusted for these in subsequent multivariate analyses which are shown in table 2 (reported values) and table 3 (reported behaviours).

The great majority of doctors supported the normative values expressed in the documents on which the two surveys were based. Likewise, the majority of behaviours

Table 1 Comparison between US and UK respondents

Variable	Category	Percentage USA (n = 1289*)	SE	Percentage UK (n = 1078†)	SE	p Value
Gender	Female	30.4	1.51	38.1	2.64	0.0111
	Male	69.7	1.51	61.9	2.64	
Years in practice	<10	12.5	1.09	8.8	1.66	0.008
	10–19	27.4	1.48	25.2	2.33	
	20–29	30.1	1.47	42.1	2.69	
	≥30	30.0	1.44	23.9	2.31	
Specialty	General/family practice	68.1	0.17	84.1	0.00	<0.0001
	Cardiology	8.7	0.04	1.8	0.00	
	Psychiatry	13.6	0.07	9.8	0.00	
	General Surgery	9.7	0.05	4.3	0.00	
Country of graduation	Graduated from medical school in the country of survey	71.0	1.49	81.4	2.08	<0.001
	(USA/Canada/UK)					
Full-time working	≥40 h/week	73.8	1.42	57.0	2.67	<0.001

*Analysis restricted to doctors working in primary care, cardiology, general surgery and psychiatry to allow comparison with the UK sample.

†Multiple regression analysis was based on 1148 responses, including an additional 70 doctors from an identical survey administered to doctors in training who had in fact become fully qualified by the time of the survey.

Table 2 Comparison of US and UK doctors' responses to value statements

Value statement	Country of survey	Adjusted percentages (strongly agreeing with statement)	SE	p Value
Making the patient your first concern, avoiding conflicts of interest				
Doctors should put patients' welfare above the doctor's own financial interests	USA	78.7	1.37	0.1932
	UK	82.3	2.23	
Doctors should disclose their financial relationships with drug/medical device companies to their patients	USA	65.4	1.58	0.0465
	UK	58.9	2.76	
Providing good care, commitment to improving care, keeping up to date				
Doctors should participate in peer review of the quality of care provided by colleagues—for example, by reviewing their records	USA	54.9	1.67	<0.0001
	UK	68.4	2.61	
Doctors should undergo periodic recertification examinations throughout their career.	USA	53.9	1.66	<0.0001
	UK	23.4	2.44	
Taking action (including relevant reporting) to deal with colleagues' poor performance				
Doctors should report all instances of significantly impaired or incompetent colleagues to relevant authorities	USA	63.1	1.61	0.2601
	UK	59.3	2.82	
Maintaining confidentiality of information about patients and their conditions				
Doctors should never disclose confidential patient health information to an unauthorised individual	USA	91.1	0.97	0.0026
	UK	96.3	0.99	
Being truthful to patients and to colleagues, including when things go wrong				
Doctors should disclose all significant medical errors to patients who have been affected	USA	63.5	1.64	0.0384
	UK	70.2	2.57	
Doctors should fully inform all patients of the benefits and risks of a procedure or course of treatment	USA	88.4	1.07	<0.0001
	UK	73.8	2.44	
Doctors should never tell a patient something that is not true (assuming the patient is competent)	USA	83.2	1.24	0.387
	UK	85.3	1.94	
Avoiding inappropriate relationships with patients				
Joint business ventures with patients are 'never appropriate'	USA	46.7	1.62	<0.0001
	UK	60.0	2.69	
Sexual relationships with patients are 'never appropriate'	USA	92.1	0.92	0.8174
	UK	91.7	1.53	
Accepting modest gifts from patients or patients' families is 'never appropriate'	USA	11.5	1.06	0.0426
	UK	7.2	1.6	
Avoiding discrimination—for example, on grounds of race and creed				
Doctors should minimise disparities in care due to patient race, gender or income	USA	84.2	1.21	0.0569
	UK	88.7	1.82	

Values adjusted for country differences in gender, years since qualification, specialty, country of graduation and part-time working
Home graduate: graduate from a medical school in the country of survey (USA/Canada or UK).
Working full time: ≥ 40 h/week.

which might be regarded as running counter to professional values were reported infrequently. Where such behaviours were reported, doctors were more likely to say that they happened 'sometimes' rather than 'often.'

Almost all doctors reported that they had changed their practice in the previous 3 years as a result of familiarising themselves with a practice guideline (95.5% UK, 93.1% USA, $p=0.14$), though UK doctors were much more likely to have participated in the development of practice guidelines (82.8% UK vs 49.6% US, $p<0.001$).

Doctors were less positive in their support for quality improvement activities. UK doctors were more likely to agree that they should participate in peer review of care provided by their colleagues (completely agree: 68.4% UK vs 54.9% US, $p<0.001$) but only just over half had taken part in reviewing another doctor's records for the purpose of quality improvement (54.5% UK vs 55.0% US, $p=0.88$). UK doctors were much more likely to report that they had taken part in a formal medical error reduction programme (70.9% UK vs 55.7% US, $p<0.001$), but US doctors were

Table 3 Comparison of US and UK doctors' reported behaviours

Behaviour (all in past year except where indicated)	Country	Adjusted percentage replying 'Yes'	SE	p Value
Making the patient your first concern, avoiding conflicts of interest				
Have you received any gifts/samples from drug, device or other medically related companies (past year)? Percentage replying 'Yes.'	USA	83.3	1.27	0.0002
	UK	73.2	2.52	
Providing good care, commitment to improving care, keeping up to date				
Have you changed your practice after familiarising yourself with a practice guideline relevant to your field (past 3 years)? Percentage replying 'Yes.'	USA	93.1	0.83	0.1436
	UK	95.5	1.18	
Have you participated in a formal medical error reduction initiative in your office, clinic, hospital or other healthcare setting (past 3 years)? Percentage replying 'Yes.'	USA	55.7	1.66	<0.0001
	UK	70.9	2.42	
Have you participated in the development of formal clinical practice guidelines (past 3 years)? Percentage replying 'Yes.'	USA	49.6	1.67	<0.0001
	UK	82.8	2	
Have you reviewed another doctor's medical records for the purpose of quality improvement (past 3 years)? Percentage replying 'Yes.'	USA	55.0	1.66	0.8807
	UK	54.5	2.73	
Taking action (including relevant reporting) to deal with colleagues' poor performance				
Have you had direct personal knowledge of a doctor who was impaired or incompetent to practise medicine in your hospital or practice? Percentage replying 'Yes' in past 3 years.	USA	16.5	1.23	0.3839
	UK	18.7	2.14	
In the most recent case, did you report that doctor to a hospital, clinical, professional society or other relevant body? Percentage replying 'Yes.'	USA	65.3	3.77	0.2944
	UK	72.7	5.7	
In the most recent case did you have a personal discussion with that doctor about his/her problems? Percentage replying 'Yes.'	USA	59.7	3.88	0.3923
	UK	65.9	5.79	
In the most recent case did you stop referring your patients to that doctor? Percentage replying 'Yes.'	USA	72.4	3.7	<0.0001
	UK	17.2	5.01	
In the most recent case did you not report the doctor because you were afraid of retribution? Percentage replying 'Yes' (for doctors who had experience of an impaired colleague and decided not to report them).	USA	12.4	2.5	0.1717
	UK	34.2	20.23	
In the most recent case did you not report the doctor because you thought someone else was taking care of the problem? Percentage replying 'Yes' (for doctors who had experience of an impaired colleague and decided not to report them).	USA	20.1	3.18	0.6993
	UK	25.7	15.09	
In the most recent case did you not report the doctor because you believed that nothing would happen as a result? Percentage replying 'Yes' (for doctors who had experience of an impaired colleague and decided not to report them).	USA	15.9	2.74	0.8297
	UK	14.3	6.38	
Respecting patients' autonomy to choose between appropriate courses of clinical action and/or decline investigations or treatments				
Have you prescribed a brand name drug when a generic was available because the patient asked for the brand name drug specifically? Percentage replying 'Never.'	USA	18.8	1.27	0.2972
	UK	21.4	1.95	
Have you given a patient a referral to a specialist because the patient wanted it when you believed it was not indicated? Percentage replying 'Never.'	USA	16.7	1.11	0.1023
	UK	13.2	1.61	
Maintaining confidentiality of information about patients and their conditions				
Have you intentionally or unintentionally revealed to an unauthorised person health information about one of your patients? Percentage replying 'Never.'	USA	71.3	1.51	0.1181
	UK	75.9	2.37	
Being truthful to patients and to colleagues, including when things go wrong				
Have you told an adult patient or child's guardian something that was not true? Percentage replying 'Never.'	USA	89.4	1.05	0.014
	UK	94.1	1.3	
Have you not fully disclosed a mistake to a patient because you were afraid of being sued? Percentage replying 'Never.'	USA	21.4	1.37	0.0017
	UK	12.7	1.99	
Avoiding inappropriate relationships with patients				
Have you provided direct patient care for a person with whom you have a financial relationship?	USA	8.7	0.94	<0.001
	UK	0.8	0.42	

Continued

Table 3 Continued

Behaviour (all in past year except where indicated)	Country	Adjusted percentage replying 'Yes'	SE	p Value
Avoiding discrimination—for example on grounds of race or creed				
Have you refused to provide medical services or give information about medical services based on your religious beliefs (past 3 years)? Percentage replying 'Never.'	USA	94.9	0.76	0.1431
	UK	97.0	0.98	
Have you provided health-related expertise to local community organisations—for example school boards, parent-teaching organisations, athletic teams or local media (past 3 years)? Percentage replying 'Yes.'	USA	40.9	1.63	0.0002
	UK	29.1	2.51	
Have you looked for data on possible disparities in care due to race, gender or income in your practice, clinic, hospital or other healthcare setting (past 3 years)? Percentage replying 'Yes.'	USA	12.4	1.1	0.4373
	UK	14.1	1.96	

Values adjusted for country differences in gender, years since qualification, specialty, country of graduation and part-time working.

Home graduate: graduate from a medical school in the country of survey (USA/Canada or UK).

Working full time: ≥ 40 h/week.

much more likely to agree about the need for periodic recertification examinations compared with UK doctors (23.4% UK vs 53.9% US, $p < 0.001$).

UK doctors were less likely than those in the US to agree that all the benefits and risks of a procedure should be explained to the patient ('completely agree' UK 73.8% vs 88.4% US $p < 0.001$). However, when things went wrong, UK doctors were significantly more likely than their US counterparts to agree that significant medical errors should always be disclosed to affected patients (completely agree 70.2% UK vs 63.5% US, $p = 0.04$). More US doctors reported that they had not disclosed an error to a patient at some time in the previous year because they were afraid of being sued (12.7% UK vs 21.4% US, $p = 0.002$).

Sixty per cent of doctors in both countries agreed with the statement that in all instances significantly impaired or incompetent colleagues should be reported to relevant authorities (completely agree 59.3% UK, 63.1% US, $p = 0.26$). Nearly a fifth of doctors had experience of an impaired or incompetent colleague in the previous 3 years (18.7% UK, 16.5% US, $p = 0.38$), and over two-thirds of these had reported this colleague to relevant authorities (72.7% UK, 65.3% US, $p = 0.29$). The commonest action taken by US doctors with knowledge of an impaired or incompetent colleague was to stop referring patients to that doctor—an action much less commonly reported by UK doctors (17.2% UK, 72.4% US, $p < 0.001$). Where doctors had not reported an impaired colleague to the authorities, the commonest reasons given were because they thought someone else was taking care of the problem (25.7% UK, 20.1% US, $p = 0.70$), because they were afraid of retribution (34.2% UK, 12.4% US, $p = 0.17$), or because they thought nothing would happen (14.3% UK, 15.9% US, $p = 0.83$).

Doctors in both countries endorsed statements supporting patient autonomy. Few doctors had declined to prescribe a branded drug when the patient asked for it (21.4% UK, 18.8% US, $p = 0.30$) or had not agreed to a patient's request for a specialist referral even when the doctor did not think the referral was indicated (13.2% UK, 16.7%, $p = 0.10$). These are examples of areas where different values may conflict—for example, behaviours associated with encouraging patient autonomy may conflict with those that promote delivery of the most cost effective care.

Doctors from both countries agreed that they should minimise disparities in care due to race, gender or religion (completely agree 88.7% UK vs 84.2% US, $p = 0.06$), though fewer than one-fifth of doctors in either country had actually looked at data on health inequalities in their practice (14.1% UK vs 12.4% US, $p = 0.44$).

In terms of conflicts of interest, UK doctors were more likely than those in the US to consider business relationships with patients as 'never appropriate' (60.0% UK vs 46.7% US, $p < 0.001$), and less likely to have provided care for someone with whom they had a financial relationship (0.8% UK, 8.7% US $p < 0.001$). While the majority agreed that doctors should put the patient's welfare above their own financial interest, support was not universal (completely agree 82.3% UK, 78.7% US). The majority of doctors in both countries had received gifts from pharmaceutical companies in the previous year, though less commonly in the UK than in the USA (73.2% UK vs 83.3% US, $p < 0.001$).

DISCUSSION

The study suggests that doctors in the USA and UK generally give strong support for the values espoused by their professional bodies, though with some important

differences in both values and reported behaviours. Some of these may reflect differences in the organisation and management of healthcare in the two countries. For example, over 90% of doctors in both countries reported that their behaviour had been altered by clinical guidelines in the previous 3 years, but doctors in the UK were much more likely to have participated in the development of clinical guidelines. In another survey, UK primary care physicians were more likely to report that they routinely used written guidance in clinical practice.¹⁵ These differences may reflect the greater acceptance by UK doctors of standardised approaches to care articulated by UK bodies such as the National Institute for Health and Clinical Excellence (<http://www.nice.org.uk/>), while comparative effectiveness research remains controversial in the USA.¹⁵

More than twice as many UK as US primary care physicians reported in the recent Commonwealth Fund survey that they routinely received and reviewed data on patient care.¹⁵ In our survey, only just over half of both UK and US doctors had actually taken part in peer review of a colleague's records in the previous 3 years, but UK doctors were more likely to endorse the value of peer review of their colleagues' medical records and more likely to have participated in a formal error reduction programme. Doctors in the US however were more than twice as likely to endorse the need for periodic recertification compared with doctors in the UK. These differences may reflect familiarity with the systems in which doctors are used to working, with systematic programmes of quality improvement having been rolled out across the UK National Health Service over the last 10 years,¹⁶ but recertification (or revalidation) yet to be developed in the UK while being common in the USA.

In our survey, nearly a fifth of doctors in both the USA and UK had direct personal experience of an impaired or incompetent colleague in the previous 3 years but one-third in both countries had not reported this colleague to a relevant authority. Of these, over half had talked to the doctor about their problem, and more than 20% had not reported the doctor because they thought someone else was dealing with the problem. However, 34% of UK doctors did not report their colleague because they were afraid of retribution, possibly reflecting unsympathetic treatment of 'whistleblowers' which has been widely reported in the British medical press.^{17 18} Indeed, in a recent British Medical Association survey, 16% of doctors who had reported a concern about a member of staff said they were told that by speaking up, their employment could be negatively affected.¹⁹ In contrast to doctors from the UK, the commonest action reported by US doctors faced with an impaired colleague was to stop referring to that doctor—a course of action not always open to UK doctors working within a more constrained healthcare system.

The great majority of doctors in both countries thought that medical errors should be discussed with affected patients, but US doctors were more than twice as likely as their UK counterparts not to have disclosed an error because they were afraid of being sued, possibly reflecting the different malpractice environment in which US patients are much more likely to sue their doctors.²⁰ This difference may also account for the greater likelihood of US doctors agreeing that all risks and benefits of interventions should be explained to patients.

It was perhaps surprising that only 80% of doctors in the two countries strongly agreed with the statement that 'Doctors should put patients' welfare above the doctor's own financial interests.' Our results suggest that US doctors were more accepting of potential conflicts of interest: they were more likely to believe that business relationships were appropriate, more likely to report actual business relationships with patients and more likely to receive gifts from pharmaceutical companies.

The study is limited in a number of respects. First, only four medical specialties are presented in this paper, and other specialties may respond differently. Second, the response rate among UK doctors was low (40.3%); the US survey may have achieved higher response rates (64.4%) due to the provision of a financial incentive and telephone follow-up of non-responders. The limited analyses that we were able to carry out did not suggest that non-response bias was a major issue in the UK sample, and in all our analyses we used weights that accounted for non-response in order to reduce potential bias. Third, there may have been social desirability bias from doctors being reluctant to report values or behaviours which they knew were out of line with stated professional norms, so we cannot tell how far the behaviours reported in this survey relate to actual behaviours in clinical practice.

Despite these limitations, our results strongly suggest that there is a significant core of professional values which is common across the two countries, but that the national context of care may influence both how those values are expressed and the support which doctors give them. Behaviours may be shaped by external factors that influence whether doctors seek to, or are able to, behave in ways consistent with their professional values. We believe that as well as promoting high standards of behaviour from within their own professional societies, it is important for doctors to advocate for healthcare system reforms that facilitate high standards of behaviour. Medical leadership in the UK National Health Services has been described as 'conspicuous by its absence,'¹¹ and a recent report calls on doctors to assume more active roles in defining the future characteristics of their profession.²¹ Especially at times of major healthcare reform, as both the USA and UK currently

face, doctors have an important responsibility to develop their healthcare systems in ways which will support good professional behaviour.

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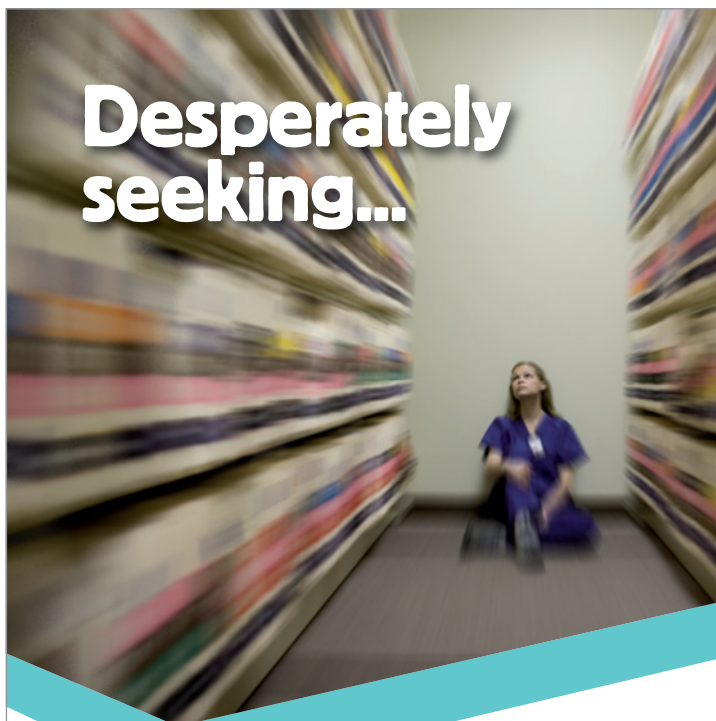
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