Medical students’ experiences and perception of support following the death of a patient in the UK, and while overseas during their elective period

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ABSTRACT
Aims To investigate medical students’ experiences and perception of support following a patient’s death, contrasting their experiences in the UK, and while overseas during their elective period.

Methods An anonymous online questionnaire was distributed to all final year medical students at one UK medical school in November 2009.

Results 220 students were contacted, 60% responded. 72% (94) of medical students had been involved in end-of-life care at some point during their course; students on elective experiencing patient death across all ages. Some students saw many patients dying during their elective period. Students had mixed emotions following a patient’s death. In the UK, students reported feeling shocked, upset and sad. When overseas, many students were angry or frustrated, and many reported feelings of injustice. Following a death, students found talking to people helpful, but when overseas they turned to friends and family using email and Facebook, rather than talking to local doctors and nurses. Only 13% (16) of medical students thought their medical training had prepared them sufficiently to deal with death. Of those who did feel prepared some said they had gained this knowledge through working as a healthcare assistant.

Conclusions Students feel ill prepared for experiencing the death of a patient. Even though they may have ‘medical knowledge’ they are still lacking in emotional support and are often inadequately supported around the time of a patient’s death. Medical schools should consider their curricula so that students are aware of the possible experiences and emotions which they may face when involved with the death of a patient, and students should be given advice on whom to turn to for support.

INTRODUCTION
Medical school training should lay the foundations for a career in medicine and provide junior doctors with appropriate knowledge and skills for the first stage of their career.1 Within the UK, there is considerable variation between medical schools in how well they achieve this goal.1–3 The results of a recent study looking at the possible experiences and emotions which they may face when involved with the death of a patient, and students should be given advice on whom to turn to for support.

To learn about death, students need both theoretical knowledge and personal experience.3 A study from the University of Pittsburgh showed that students with personal or professional experience of death had more positive attitudes about end-of-life care, and the authors suggested that medical schools should focus on developing emotionally supportive settings in which to teach students about death and dying.2 Such recommendations are not new—Hull in 1991 found that medical students had little experience of death, and often the experience they did have was acquired prior to entry to medical school.2 Their experience of death during training was often traumatic, with little opportunity for counselling, and Hull advised that ‘there is a need for increased teaching about death and dying particularly before clinical training’.

Recently, a greater emphasis has been placed on teaching students about palliative care, with Tomorrow’s Doctors identifying this as part of the core content for undergraduates.7 However, while some medical schools may be focusing on palliative care, acute death and dying scenarios may be overlooked.8 This aspect of the curriculum should not be neglected, as students may encounter acute deaths, sometimes in large numbers, while on their elective placement.

Electives are a highlight of many medical students’ undergraduate training, providing the opportunity to travel overseas experiencing a different culture and health system.9 10 The British Medical Association (BMA) has produced two documents focusing on elective periods ‘Electives for medical students’10 and ‘Ethics and medical electives in resource-poor countries’.11 The BMA stresses that medical students are not professionally qualified, and working abroad does not alter this. They state ‘it is both illegal and unethical for unregistered students to work as if they were qualified doctors’ and that students should ‘resist pressure to diagnose, prescribe or administer treatment without close clinical supervision’, but they do acknowledge ‘where a patient is at immediate risk of death or serious harm, and no other qualified health professional is available, students can assist, provided they have a reasonable belief that they have appropriate skills and can improve outcomes’.10 11 Although the BMA has provided useful information for students going on their elective it focuses on personal health, travel insurance, vaccinations and HIV, and no information or advice is given about coping with the scale of morbidity, or mortality at a young age, which may be encountered in some countries, and which some students find quite shocking.
(personal communication). Students’ emotional health and well-being is not mentioned, and no sources of support while on elective are given.

Although some studies have looked at medical students’ experiences related to end-of-life issues12,14 students’ experience of death while overseas on elective periods has not previously been reported in the literature. Therefore, the aim of this study was to investigate medical students’ experiences and perception of support following a patient’s death, contrasting the experiences in the UK and while overseas during their elective period.

METHOD
A questionnaire was designed and piloted and then an email link was sent to all fifth year (final year) students in one UK medical school inviting them to take part in the self-administered, anonymous questionnaire-based study. The survey took place in November 2009 immediately after students returned from their elective placement. The questionnaire was made available online at http://www.surveymonkey.com.

THE QUESTIONNAIRE
The questionnaire comprised 30 questions requiring tick-box answers, with space left for free text comments (see online supplementary appendix 1). It included six sections:

1. Age of the medical student and elective destination
2. Information on patient(s) who died on elective period
3. Students’ feelings and support after a death on elective
4. Information on patient(s) who died in UK
5. Students’ feelings and support after a death in UK
6. Suggestions for improvement in teaching and preparation for elective

The questions were designed to meet the aims of the study asking students about their experience while in the UK and while on their elective period. Students’ views were obtained on their initial feelings following a patient’s death, time for reflection, support networks and debriefs. They were also asked whether the course had prepared them sufficiently to deal with a patient’s death and what further information would have been useful prior to their elective period. Students were informed that they could contact their personal tutor or the faculty student advice service if reading the questionnaire reopened any unresolved issues, or if they required further support or advice, and the appropriate contact details were provided. A reminder email was sent to students 1 week after sending out the initial questionnaire.

DATA ANALYSIS
The results were analysed both quantitatively and qualitatively. Filters built into the online questionnaire programme enabled responses to be explored quantitatively comparing experiences while in the UK and while overseas. The qualitative free text comments were analysed manually by both authors using thematic analysis. Independently, the authors highlighted any emerging themes, and their results were combined to look for overlapping themes, enabling the authors to contrast students’ experience in the UK and while on their elective period.

Students were asked for their suggestions on improvement, and these responses were drawn together as proposals to provide better support for students when they experience the death of a patient, both in the UK and while on their elective period.

RESULTS
Only 131 of 220 questionnaires were returned, a response rate of 60%. Eight questionnaires were partially completed, and their responses were included if the relevant question was answered.

The ratio of male:female respondents was 29:71, a reflection of the medical school sex ratio with more female students (34:66 split—p value 0.23). There was a global mix of elective destinations.

Overall, 72% (94/131) medical students had been involved with end-of-life care at some point during their training; 49% (60/123) students saw patients die while on clinical placement in the UK, and 45% (56/125) on elective. On electives, students experienced patient death across all age ranges in comparison with deaths experienced in the UK, where most of the patients who died (35/60—58%) were over 70 years of age (see figure 1). Some students saw many patients dying during their elective period.

More students were involved in resuscitation while on elective compared with when they were in the UK (22 students (41%) compared with 14 students (23%) (p<0.05). No students were involved in resuscitation by themselves while in the UK, whereas, 14 resuscitated patients by themselves (26%) while abroad with no qualified doctors available to assist (p<0.05) (see table 1).

<table>
<thead>
<tr>
<th>Table 1</th>
<th>Students involved in resuscitation while on elective and while in UK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Elective % (number)</td>
</tr>
<tr>
<td>Involved in end-of-life care</td>
<td>45 (56/125)</td>
</tr>
<tr>
<td>Witnessed resuscitation</td>
<td>65 (35/54)</td>
</tr>
<tr>
<td>Involved in resuscitation</td>
<td>41 (22/54)</td>
</tr>
<tr>
<td>Resuscitation alone</td>
<td>26 (14/54)</td>
</tr>
</tbody>
</table>

Figure 1 Bar chart comparing number and age distribution of patient deaths in UK and on elective. Access the article online to view this figure in colour.
Themes emerging from the qualitative responses, and illustrated with quotations below, included ‘dealing with emotions’, ‘global support networks’ and ‘best teaching methods’.

### Students initial feelings

Students generally reported feeling very upset when a patient died, but experienced more raw emotions on elective overseas, some witnessing many deaths (figure 2).

While in the UK, students reported ‘sadness and numbness’, ‘shocked and upset’, ‘emptiness, fragile’. Some expressed feelings of relief, ‘relief—they were in a lot of pain’. 49% (60/123) of students had been involved in end-of-life care in the UK, with 42% witnessing resuscitation. One student reported ‘in a strange way I felt excited and pleased that I had partaken in what I thought to be a very important part of practical medical training’.

While overseas, one student summarised their experience as ‘shock, horror, tears, panic’, and some said they were ‘openly crying’. Some witnessed many deaths—‘I never thought I’d say this but I lost count’. Many students were angry or frustrated when a patient died—‘angry at myself, worried that I didn’t do enough’ and they also reported feelings of injustice—‘she wouldn’t have died had she been in the UK’. Some commented on a lack of resources ‘there was nothing available to resuscitate with—no fluids, oxygen or drugs’. Fourteen students resuscitated patients on their own sometimes because they were the most qualified person present—‘there were no doctors at the hospital’. Some were shocked by what they witnessed—‘death was pretty horrible—patient died from septic shock from burns all over their body’. Twenty-eight students saw children aged 0–9 years dying (three students witnessing multiple deaths)—‘I had previously seen the child relatively well, shock—never seen anyone die before’, ‘so young …’.

### Time for reflection

In the UK, although doctors and nurses played a key role in discussing the patient’s death with the students, only 40% (24/59) felt they had long enough for reflection before going back to work.

On elective, only 16% (9/55) of students felt they had time to reflect on a patient’s death. The majority reported having no time to reflect—‘I was encouraged to see more patients despite being in tears’, ‘we had to continue as there would be a queue of children needing to be seen’.

### Support network

On both UK and elective placements, the majority (76% (41/54) and 78% (40/51), respectively) found talking to someone beneficial. On elective, students looked globally for support turning to friends and family first, rather than receiving support locally—‘didn’t want to burden people’. They used social network sites and email—‘I sent a long email to my parents, was really upset, good to vent’. Although students had a more formal support network in the UK only 26% (13/51) talked with doctors and 8% (4/51) with nurses, while 50% (25/51) talked to family and friends.

Some students mentioned that they would have liked more general support, for example, several students were caught in the tsunami in the Asia–Pacific region, and some received ‘no response’ when trying to reach their medical school. They suggested having an emergency contact number to reach a faculty member at any time.

### Debriefs

On elective, only 14% (8/56) of students were involved in a debrief following a death compared with 37% (21/58) students in the UK. While on their elective, students wanted to learn from their experiences: ‘I would have liked to talk to someone and learn from this and see if there was anything else I could have done’. Although only 37% had a debrief in the UK, many appreciated this experience ‘we had a debrief afterwards which was very helpful’, ‘consultants debriefed us afterwards, gave us the day off to go and relax and think about it. Much more positive than the experience overseas’.

### Medical education

The students taking part in the study attended a medical school with a traditional integrated curriculum. Students are based at the university in years 1 and 2, and in years 3–5 teaching is delivered in hospitals around the region. Students go on their elective between their 4th and 5th years. This questionnaire was conducted following their elective period and prior to their 1-month palliative care block. Only 13% (16/125) of medical students thought their course had prepared them sufficiently to deal with patient death—’I don’t think I’ve had any formal teaching on death’. Others questioned the best way to learn ‘not something that you can prepare someone for with lectures and role play’. Of those who did feel prepared many said had gained this knowledge in other ways, for example, through working as a healthcare assistant. Some students had not yet seen a patient die and some were not sure how they would cope—‘I feel totally unprepared to see a patient die and am trying to avoid it’, ‘I think if I was left alone I’d fall apart’.

Prior to their elective period, students commented that they would benefit from a lecture on ‘dealing with death’ and a lecture on ‘medicine in resource poor settings’.

### DISCUSSION

Medical students’ experiences and perception of support following the death of a patient were different depending on whether they were on their elective abroad or in the UK. Students were more likely to see young children dying while abroad and many felt inadequately prepared. More students were involved in
resuscitating patients while abroad, and some were left with feelings of injustice and inadequacy. Rather than seeking support from the local health team they often sought support globally from friends using social network sites and email.

Medical students are rarely at the bedside when a patient dies,15 and many students in this study felt unprepared to be involved with a patient’s death. Although talking about death and end-of-life care can be ‘problematic for educators and the profession’,16 students welcome the opportunity to learn about death and dying.17 and it is important that the theme of ‘death and dying’ is integrated into teaching early in the curriculum. There are many opportunities for discussions about death during lectures, on clinical attachments, on acute and long-stay wards, and during palliative care placements18,20; however, the teaching provided by medical schools is very variable,21 and having an ‘individual lead or champion’ and ‘university support’ are important when trying to influence the curriculum.22 Some universities have used innovative educational programmes to teach students about death. Ruckers23 has used a creative humanities-based assignment with third year students to help them reflect on the process of becoming a doctor, exploring issues such as coping with death and dying, and coping with professional stress, and MacLeod has used a personal reflection portfolio approach.16 McIlwaine has piloted an interprofessional teaching session with medical students and social work students, exploring the students’ own feelings and the practical aspects of death (confirmation, death certification and last offices), coupled with discussion about the grief process.24

Exposure to death as a student may influence attitudes and knowledge as a qualified doctor. A study from the University of California found that all third year medical students encountered death or dying patients during their first internal medicine clerkship, and their relationships with patients were characterised by attachment, empathy and advocacy.25 The experience affected students’ emerging professional identities, giving them the opportunities to manage strong emotions. There is little written in the medical literature about managing emotions,26 and although several students in this study reporting ‘openly crying’, it is a topic which is rarely discussed.27 Wagner found that 57% of doctors, 76% of nurses and 31% of medical students had cried at work at least once, generally when identifying suffering or crying with dying patients or their families. Medical students reported the highest percentage of negative social consequences of their crying, sometimes being ridiculed or screamed at.28 It is important to remember that ‘staff grief is real’,29 doctors are moved by the deaths of the strangers for whom they care and are often powerfully affected by the death’.30 31 Grief may affect staff at all stages of their career—Behnke32 found that paediatric house officer grief reactions were similar to grief responses experienced with the death of a loved one, and a study of paediatric consultants found that ‘although many have built up personal support networks and individual coping strategies many recognise that these are not all encompassing and some harbour unresolved feelings of grief’.33 Redinhaugh found that female doctors experienced stronger emotional responses when a patient died.34

Although a Cochrane review35 has suggested that debriefs may increase the incidence of post-traumatic stress disorder, some students in this study found debriefs helpful. Bereavement counsellors, individual debriefs and team meetings are all forms of positive support which could be introduced into the medical school curricula to help students cope with death.16 It is essential that students learn to ‘look after themselves’ taking time for reflection, relaxation and non-clinical activities, as this may minimise the risk of future depression, burnout and poor judgement.37

International electives have educational benefits and contribute to well-rounded training for medical students,38 however, students should have more information about what to expect in different countries with formal sessions addressing the psychological, as well as the practical aspects of an elective overseas prior to departure. Some medical schools deliver global health teaching prior to students going on elective,39 and this may address some of the concerns raised by respondents in this study. Students must be properly supported while abroad, and they should have a 24 h emergency contact number for their medical school which they can use if they get into difficulties while abroad. Students should not have to rely totally on friends and family for support, as was the case with some respondents in this study who received a lot of support via social networking sites. Elit40 conducted semi-structured interviews on students returning from their elective period and concluded that as well as having formal predeparture training they should have an on-site supervisor while abroad, they should be able to maintain an ongoing connection with their university, and have a formal debriefing session on their return. The General Medical Council gives clear guidance—‘Students must have appropriate support for their academic and general welfare needs at all stages. Medical schools must produce information about the support networks available, including named contacts for students with problems. Students taking student-selected components (SSCs) that are taught in other departments or by other medical schools, and those on clinical attachments or on electives, must have access to appropriate support’.35

LIMITATIONS

Our study is limited by the fact that it was performed at a single medical school, and sociodemographic details, such as ethnicity, graduate status or religious affiliations of respondents were not recorded. Further research is required to see if these factors effect medical students’ emotional reactions following the death of a patient. We do not know whether the 60% of respondents were different from the 40% of non-respondents. Some non-respondents may have had no experience of death, and therefore felt that their opinion would add little to the study. Other non-respondents may have witnessed traumatic deaths and decided not to complete the questionnaire as they did not want to ‘relive the experience’. However, others with negative experiences may have been keen to share their views with us, hoping the situation may improve for students in the future. Despite these limitations we do believe that the study gives us some insight into medical students’ experiences and perception of support following a patient’s death while on elective placements and in the UK. Some students feel there are clear deficiencies in their teaching, training and support structures, and we must strive to improve this. Further work is required to evaluate different teaching modules on ‘death and dying’ to identify best educational practice.

CONCLUSION

This paper explores medical students’ experiences and perception of support following the death of a patient. Their experiences and feelings were different depending on whether they were abroad on elective or on placement within the UK. Students were more likely to be involved in resuscitation and see young children dying while abroad, and many felt inadequately prepared and unsupported, frequently feeling angry or frustrated. They often turned to friends globally for support rather than seeking support from the local health team.

Medical student teaching is often dependent on clinical placements, and may vary significantly from student to student. Medical schools need to introduce the theme of ‘death and
dying’ at an early stage of the curriculum, and should make students aware of the possible experiences and emotions following the death of a patient and give them advice on whom to turn to for support while at home and abroad.

Main messages

- Many medical students feel unprepared to deal with the death of a patient.
- Elective placements may expose students to a large number of patient deaths, especially children.
- Students on elective placements experienced rarer emotional reactions to death and had less support than when in the UK.

Proposals to improve medical students’ experience in the future

- Integrate the theme of ‘death and dying’ at an early stage of the curriculum.
- Ensure that medical students are involved in team debrief sessions following the death of a patient.
- Arrange formal sessions to address the psychological as well as the practical aspects of an elective overseas.
- Ensure that students have a 24 h emergency contact number for a member of the medical school faculty while abroad.

Current research questions

- To investigate the effect of age, sex, ethnicity and socioeconomic class on the emotional reactions following the death of a patient among medical students and doctors.
- To evaluate a variety of teaching modules on ‘death and dying’ to identify best educational practice.
- To develop and evaluate an ‘elective tool kit’.

Key messages


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Contributors

Both authors were involved in questionnaire design, literature review and writing the paper. RJ submitted the work to the ethics committee.

Competing interests

None.

Ethics approval

The study was approved by the Faculty of Medicine and Dentistry Committee for Ethics.

Provenance and peer review

Not commissioned; externally peer reviewed.

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