

Volume 7 Issue 1 January 2013

INTERNATIONAL JOURNAL OF CLINICAL SKILLS



A Peer Reviewed International Journal for the Advancement of Clinical Skills
- 'docendo ac discendo' - 'by teaching and learning'



In this issue:

Does first aid have a place in the medical curriculum? A survey of medical students

Patients' attitudes to medical student presence within a university hospital setting Flexor digitorum superficialis absence in the small finger: a tip on screening

Foreword

Welcome to the latest edition of the International Journal of Clinical Skills (IJOCS), Volume 7, Issue I, January 2013.

When a medical emergency occurs in the pre-hospital environment, there might be an expectation from the general public for medical students to offer assistance with a similar level of competence as qualified doctors. However, the question is raised; do medical students have sufficient training in first aid skills to fulfil the role expected of them? Our colleagues at Queens University Belfast and Ulster Hospital, Northern Ireland, questioned over 500 medical students to identify knowledge of, and attitudes towards, first aid.

Researchers from Oxford University and Brighton & Sussex Medical School, United Kingdom, conduct a research study to identify patients' attitudes towards the presence of medical students within both inpatient and outpatient hospital settings. Does the involvement of medical students have a negative impact on patient satisfaction? Are patients comfortable being examined by medical students? Are patients aware of their right to refuse students' presence? Find out what the evidence shows.

Mr Lyndon Mason, University Hospital of Wales, United Kingdom, provides information on a screening tip for assessing the absence of flexor digitorum superficialis. This interesting technique illustrates the quadriga effect.

This issue also includes a review of Muhammed Akunjee et al's book 'Clinical Skills Explained'. This book aims to explain essential clinical skills and associated rationale, structured into the three main themes of history taking, physical examination and procedures. Tracey Gregory (Lead Consultation Skills Trainer, University of Leicester, United Kingdom) gives her expert analysis of what the book provides for its readers.

As always, your feedback is invaluable for the continued development of the International Journal of Clinical Skills - the only peer reviewed international journal devoted to clinical skills (e-mail: feedback@ijocs.org).

The Executive & Editorial Board International Journal of Clinical Skills

Executive Board

Dr Humayun Ayub Editor-in-Chief editor@ijocs.org

Dr Alison Anderson Executive Editor a.anderson@ijocs.org

Mrs Sally Richardson Senior Associate Editor s.richardson@ijocs.org

Mr Keser Ayub Managing Director k.ayub@ijocs.org

Dr Waseem Ahmed Clinical Skills Lab Editor w.ahmed@ijocs.org

Dr Raina Nazar Clinical Skills Editor r.nazar@ijocs.org

Dr Hind Al Dhaheri Associate Editor h.aldhaheri@ijocs.org



International Journal Of Clinical Skills P O Box 56395 London SEI 2UZ United Kingdom

E-mail: info@ijocs.org Web: www.ijocs.org Tel: +44 (0) 845 0920 114 Fax: +44 (0) 845 0920 115

Published by Hampton Bond

Contents

The Executive Board Members	ı
Foreword	1
The Editorial Board	2
Original Research	
Does first aid have a place in the medical curriculum?	
A survey of medical students - Rebecca Gibson	3
Patients' attitudes to medical student presence	
within a university hospital setting - Nicola Read	8
Review	
Flexor digitorum superficialis absence in	
the small finger: a tip on screening - Lyndon Mason	14
Book Review	16

IJOCS - Volume 7 - Issue I

Editorial Board for the International Journal of Clinical Skills

Dr Ali H M Abdallah MB BS

Family Medicine Dubai Health Authority (DHA) United Arab Emirates (UAE)

Mr Henry O Andrews FRCS(Eng) FRCS(Ire) FRCS(Urol) FEBU MBA

Consultant Úrological & Laparoscopic Surgeon Department of Urology Milton Keynes General Hospital, UK

Dr Peter J M Barton MBChB FRCGP MBA

Director of Clinical and Communication Skills Chair of Assessment Working Group Medical School University of Glasgow, UK

Dr Ionathan Bath MB BS BSc (Hons)

Department of Surgery Ronald Reagan UCLA Medical Center Los Angeles
United States of America (USA)

Dr Khaled Al Beraiki MB BS

Forensic Medicine Klinikum Der Universität zu Köln Institut für Rechtsmedizin University of Köln Germany

Professor Chris Butler BA MBChB DCH FRCGP MD

Professor of Primary Care Medicine Head of Department of Primary Care and Public Health Cardiff University, UK

Dr Aidan Byrne MSc MD MRCP FRCA ILTM FAcadM

Interim Director of Clinical Skills and Simulation School of Medicine Cardiff University, UK

Dr Dason E Evans MBBS MHPE FHEA

Honorary Senior Lecturer in Medical Education Barts and the London, Queen Mary's School of Medicine and Dentistry University of London, UK

Mrs Carol Fordham-Clarke BSc (Hons) **RGN Dip Nurse Ed**

Lecturer and OSCE Co-ordinator Florence Nightingale School of Nursing & Midwifery King's College London, UK

Dr Elaine Gill PhD BA (Hons) RHV RGN **Cert Couns**

Head of Clinical Communication The Chantler Clinical Skills Centre Guy's, King's and St Thomas' Medical School King's College London, UK

Dr Glenn H Griffin MSc MEd MD FCFPC **FAAFP**

Family Physician Active Staff Trenton Memorial Hospital Trenton, Ontario

Dr Faith Hill BA PGCE MA(Ed) PhD

Director of Medical Education Division School of Medicine University of Southampton, UK

Dr Jean S Ker BSc (Med Sci) MB ChB DRCOG MRCGP MD Dundee FRCGP FRCPE (Hon)

Director of Clinical Skills Centre University of Dundee Clinical Skills Centre Ninewells Hospital & Medical School University of Dundee, UK

Dr Lisetta Lovett BSc DHMSA MBBS FRCPsych

Senior Lecturer and Consultant Psychiatrist Clinical Education Centre Keele Undergraduate Medical School Keele University, UK

Miss Martina Mehring, Physician Assistenzärztin Anästhesie Marienkrankenhaus Frankfurt Germany

Professor Maggie Nicol BSc (Hons) MSc PGDipEd RGN

Professor of Clinical Skills & CETL Director School of Community & Health Sciences City University London, UK

Dr Vinod Patel BSc (Hons) MD FRCP **MRCGP DRCOG**

Associate Professor (Reader) in Clinical Skills Institute of Clinical Education Warwick Medical School University of Warwick, UK

Miss Anne Pegram MPhil PGCE(A) BSc RN

Lecturer Department of Acute Adult Nursing Florence Nightingale School of Nursing King's College London, UK

Dr Abdul Rashid Abdul Kader MD (UKM)

Emergency Medicine
Universiti Kebangsaan Malaysia (UKM) Medical Center Kuala Lumpur Malaysia

Professor Trudie E Roberts BSc (Hons) MB ChB PhD FRCP

Director – Leeds Institute of Medical Education University of Leeds, UK

Dr Robyn Saw FRACS MS

Sydney Melanoma Unit Royal Prince Alfred Hospital Australia

Dr Mohamed Omar Sheriff MBBS Dip Derm MD (Derm)

Specialist in Dermatology Al Ain Hospital Health Authority - Abu Dhabi United Arab Emirates (UAE)

Professor John Spencer MB ChB FRCGP

School of Medical Sciences Education Development Newcastle University, UK

Professor Patsy A Stark PhD BA (Hons) RN RM FHEA

Professor of Clinical Medical Education and Director of Clinical Skills University of Leeds and Leeds Teaching Hospitals

Professor Val Wass BSc MRCP FRCGP MHPE PhD

Head of Keele Medical School Keele University, UK

Disclaimer & Information

Visit the International Journal of Clinical Skills (IJOCS) at www.ijocs.org

Whilst every effort has been made to ensure the accuracy of information within the IJOCS, no responsibility for damage, loss or injury whatsoever to any person acting or refraining from action as a result of information contained within the IJOCS (all formats), or associated publications (including letters, e-mails, supplements), can be accepted by those involved in its publication, including but not limited to contributors, authors, editors, managers, designers, publishers and illustrators.

Always follow the guidelines issued by the appropriate authorities in the country in which you are practicing and the manufacturers of specific products. Medical knowledge is constantly changing and whilst the authors have ensured that all advice, recipes, formulas, instructions, applications, dosages and practices are based on current indications, there maybe specific differences between communities. The IJOCS advises readers to confirm the information, especially with regard to drug usage, with current standards of practice. International Journal of Clinical Skills (IIOCS) and associated artwork are registered trademarks of the Journal. IJOCS is registered with the British Library, print ISSN 1753-0431 & online ISSN 1753-044X. No part of JOCS, or its additional publications, may be reproduced or transmitted, in any form or by any means, without permission. The International Journal of Clinical Skills thanks you for your co-operation.

The International Journal of Clinical Skills (IJOCS) is a trading name of SkillsClinic Limited a Company registered in England & Wales. Company Registration No. 6310040. VAT number 912180948. IJOCS abides by the Data Protection Act 1998 Registration Number Z1027439. This Journal is printed on paper as defined by ISO 9706 standard, acid free paper.

© International Journal of Clinical Skills

Does first aid have a place in the medical curriculum? A survey of medical students

Dr Rebecca S J Gibson MB BCh BAO * Foundation Year | Doctor

Dr Jonathan H Morrow MB BCh BAO * Foundation Year | Doctor

Dr Gerard J Gormley MD MRCGP * Senior Lecturer in Medical Education

Dr Nigel D Hart MD MRCGP +

Senior Lecturer in Medical Education

- * Ulster Hospital Dundonald, South Eastern Health and Social Care Trust, Northern Ireland
- + Queen's University Belfast, Belfast, Northern Ireland

Correspondence:

Dr Gerard J Gormley Department of General Practice Queens University Belfast 4th floor, Dunluce Health Centre I Dunluce Avenue **Belfast** BT9 7HR Northern Ireland

E-mail: g.gormley@qub.ac.uk Tel +44 (0) 2890204252 Fax +44 (0) 2890310202

Keywords:

First aid Medical education Emergency medicine

Abstract

Introduction: When a medical emergency occurs in the prehospital environment, there is an expectation from the general public for medical students to offer assistance with a similar level of competence as qualified doctors. However, the question is raised; do medical students have sufficient training in first aid skills to fulfil the role expected of them?

Prior to the publication of the latest version of Tomorrow's Doctors by the UK General Medical Council, a student selected component (SSC) in first aid was delivered at the medical school in Queen's University Belfast (QUB), Northern Ireland. The overwhelming popularity of this SSC prompted a desire to investigate and understand students' experiences of first aid.

Aim: To identify first and second year medical students' knowledge of, and attitudes towards, first aid and their expectations of the medical curriculum.

Methods: A questionnaire was delivered using TurningPoint Audience Response System® during the second semester of the 2008 - 2009 academic year to all first and second year medical students at QUB.

Results: Less than half of the students felt that they had a good level of first aid knowledge, a third would feel confident helping in an emergency and only 10% would be confident leading an emergency situation. The vast majority of students believed first aid is beneficial, that the general public expect medical students to have the knowledge to handle an emergency situation, and that a full first aid course should be included in the core medical curriculum at an early stage. They did not believe it should be a pre-requisite for medical school.

Conclusion: Only a small proportion believed their first aid knowledge adequate. An overwhelming proportion believed that first aid training is beneficial and that the public expect competency in managing emergencies. This study clearly demonstrates students' need and desire for first aid training in the core medical curriculum at an early stage and to the highest training level possible.

Introduction

When a medical emergency occurs in the pre-hospital environment, there is an expectation from the general public for doctors to offer assistance and to have the appropriate skills to manage the situation [1, 2]. There are numerous anecdotal reports of medical students also being called upon at prehospital emergencies with a similar expectation of obligation and competence [3-8]. However, the question is raised: do medical students have sufficient training in first aid skills to fulfil adequately the role expected of them?

IJOCS - Volume 7 - Issue I

In a survey of UK medical schools only a small proportion offered first aid training to their students [9, 10]. In the latest version of the UK General Medical Council's *Tomorrow's Doctors*, it has been acknowledged for the first time that medical students should be trained in providing "basic first aid" [11].

Prior to the publication of this latest version of *Tomorrow's Doctors*, a student selected component (SSC) in first aid was delivered at the medical school in Queen's University Belfast (QUB), Northern Ireland. The overwhelming popularity of this SSC prompted a desire to investigate and understand medical students' experiences of first aid.

Aim

The aims of this study were to identify first and second year medical students' knowledge of, and attitudes towards, first aid and their expectations of the medical curriculum.

Method

Following a literature review, a working group developed a questionnaire to explore the aims of this study. The questionnaire was structured into three categories — the demographics, the extent of students' knowledge of first aid, and lastly, students' attitudes towards first aid and their expectations of the medical school's curriculum.

The survey was conducted during the second semester of the 2008 - 2009 academic year at QUB. The university offers a five year medical degree programme comprised mostly of undergraduate entry. All first and second year medical students were invited to participate; there were 528 eligible students. The questionnaire was limited to years one and two as it was easier to deliver the questionnaire to the pre-clinical years, and we wanted the opinions of those who had not yet entered clinical training.

The questionnaire was delivered at the start of a practical skills teaching session. For these sessions, each year is divided into four groups of approximately 60 students per group. The same teaching session is run on four afternoons over a two week period, with each group attending once. As the questionnaire had to be delivered to each of the four groups for each year, it was conducted eight times in total over a two week period. We believed a randomly selected sample could be misrepresentative of the two years' opinions, and that the alternative available methods of delivering the questionnaire and collecting data, when only a proportion of the students are invited to participate, could lower the response rate and introduce bias (as certain people would be more likely to respond than others). In this regard, the whole cohort of 528 students was invited to participate.

The questionnaire was delivered using TurningPoint Audience Response System®: responses were yes/no answers, choosing an option from a numbered list or using the Likert scale provided; i.e. no free responses were possible. The results were analysed using simple descriptive analysis.

Due to the varied number of responses between questions, statistics have been calculated as a percentage of those students responding to that particular question, as we do not know if this variation was due to students not wishing to respond, failed use of handsets or hardware/software malfunction. Raw data is included to aid interpretation.

Ethical approval for this study was obtained from Queen's University Belfast Ethics Committee (Reference 08/29).

Results

Response rate

All 528 medical students from the first and second years were invited to participate: 477 students responded (90.3% response rate). Students were not obliged to answer every question: the number of responses per question ranged from 426 to 477, with an average of 469 responses per question.

Respondents' characteristics

60.2% of respondents were female (281/467). The modal age was 19 years (40.6%, 191/471), followed closely by 20 years (34.6%, 163/471), 18 years (10.2%, 48/471), and 21 years (7.6%, 36/471), with over 21 year olds making up the remainder (6.8%, 32/471). Less than ten percent (8.9%, 42/474) had completed a previous degree.

Respondents' knowledge

On analysis of the respondents' prior training, 47.0% (218/464) had previous formal first aid training; in addition, 9.7% (46/474) had further training with oxygen and 15.4% (73/474) were trained in the use of an automated external defibrillator (AED).

In respect of certification with one of the three well-recognised UK first aid bodies (British Red Cross, St John Ambulance and St Andrew's Ambulance), 19.9% (94/472) currently held a first aid certificate and a further 10.0% (47/472) previously held a certificate at some stage.

Students were asked a series of questions regarding their knowledge of first aid using a five-point Likert scale; the responses included strongly agree, agree, no strong views, disagree and strongly disagree. Where the five-point Likert scale was used, unless stated otherwise, figures quoted in this paper equal a summation of the 'strongly agree' and 'agree' responses for questions.

Of those responding, 43.5% (206/474) believed they had a good knowledge of first aid and 36.0% (169/469) would feel confident helping in an emergency medical situation. However, only 10.1% (43/426) would feel confident leading an emergency medical situation (Table 1).

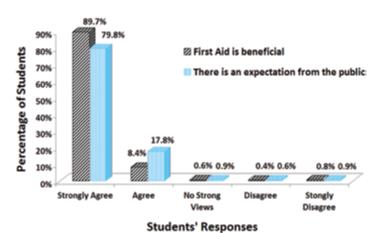
Table 1: Summary of the medical students' pre-existing knowledge of first aid (figures equal the summation of the "strongly agree" and "agree" responses on the five-point Likert scale)

Question Number	Statement	Percentage of Students	Number of Students
Q 7	Currently I have a good level of first aid knowledge	43.5%	206
Q 8	Currently I would feel confident in helping with an emergency situation	36.0%	169
Q 9	Currently I would feel confident in leading an emergency situation	10.1%	43

Medical students' attitudes towards first aid

98.1% (468/477) students thought first aid training is beneficial to medical students: 89.7% (428/477) strongly agreed and 8.4% (40/477) agreed. 97.7% (460/471) believed there is an expectation from the general public that medical students should know what to do in a pre-hospital medical emergency (Figure 1). However, only 56.7% (270/476) felt they had an obligation, as a medical student, to assist.

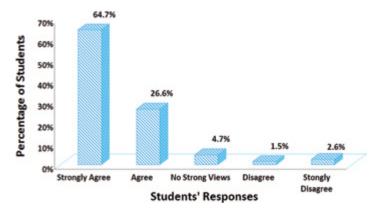
Figure 1: Graph to show students' responses, on a five-point Likert scale, to the statements (a) "First aid training is beneficial to medical students" and (b) "There is an expectation from the general public that medical students should know what to do in an emergency medical situation"



Medical students' expectations of first aid in the medical curriculum

91.3% (429/470) think first aid should be included in the core medical curriculum, with 64.7% (304/470) strongly agreeing and 26.6% (125/470) agreeing (Figure 2). When asked about the appropriate timing and extent of training, 86.4% (407/471) believed training should be provided in the pre-clinical years (Years I and 2 at QUB) and 78.3% (361/461) believed the highest level possible should be provided, which included Basic Life Support (BLS), use of oxygen and an AED, and a full first aid course.

Figure 2: Graph to show students' responses, on a five-point Likert scale, to the statement "First aid training should be included in the core medical curriculum"



Although the majority of medical students surveyed thought first aid training to be valuable, only 12.6% (60/476) believed first aid training should be a pre-requisite for medical school. In contrast 43.9% (209/476) disagreed and 32.4% (154/476) strongly disagreed when responding to the statement "first aid training should be a pre-requisite for entry to medical school" (Table 2).

Table 2: Summary of medical students' expectations with regard to first aid in the medical curriculum (figures equal the summation of the "strongly agree" and "agree" responses on a five-point Likert scale)

Question Number	Statement	Percentage of Students	Number of Students
Q 18	First aid training should be a pre- requisite for entry to medical school	12.6%	60
Q 19	First aid training should be included in the core curriculum	91.3%	429

Similarities & differences between the responses of the first and second year medical students

The questionnaire was delivered to all first and second year medical students at QUB. 255 out of a possible 261 first year students responded, providing a first year response rate of 97.7%. 224 of a possible 267 second years responded with a second year response rate of 83.9%. It was noted there were some differences between the two year groups.

52.6% (133/253) of first year students believed they had a good level of first aid knowledge compared to 33.0% (73/221) of second year students. 46.4% (116/250) of first year students felt confident helping with an emergency situation compared to 24.2% (53/219) second year students.

Interestingly, both year groups were equally unconfident in respect of leading an emergency medical situation: 77.1% (195/253) of first years and 84.4% (146/173) of second years disagreed or strongly disagreed when responding to the statement "currently, I would feel confident leading an emergency medical situation".

First year students felt a greater obligation to help at a medical emergency than second year students: 62.8% (159/253) compared to 49.8% (111/223) respectively. However, a greater proportion of second years believed first aid training should be included in the core curriculum: 95.5% (211/221) compared to 87.6% (218/249) second year and first year students respectively.

Year groups' views were similar with respect to first aid training: 97.6% (248/254) of first year students and 98.7% (220/223) of second year students agreed or strongly agreed that first aid training is beneficial for medical students. In addition, both groups believed there is an expectation from the general public that medical students should know what to do at an emergency medical situation: 96.8% (240/248) of first year students and 98.7% (220/223) of second year students.

Both year groups agreed equally that this training should be in the pre-clinical years (Years I and 2), with almost 80% suggesting Year I. Again, almost 80% of both year groups agreed teaching should be to the highest level, including BLS, oxygen and AED, and a full first aid course.

Discussion

The results of this study provide us with the opinions and experiences of a large cohort of first and second year medical students. The students appear to value first aid and consider it to have a place in the medical curriculum. They believe there are expectations from the general public for medical students to help in emergency situations; however, concerns regarding confidence in handling such situations are evident. Trends and

anomalies in the data collected will be considered, along with our suggested explanations for their occurrence.

Firstly, the response rate varied between questions; the students were not obliged to answer all questions, so may have chosen not to answer a particular question, or they may have failed to answer in the time allowed, or they may have thought they had indeed answered the question, but in actual fact the keypad equipment failed.

Approximately the same number of students felt they had a good level of first aid knowledge as those that had undertaken previous first aid training; it is possible these are the same students, explaining the confidence. If this is the case, it is reasonable to assume the rest of the students did not feel they had a good knowledge of first aid as they had never completed any training.

Although some students feel they have a good knowledge and/ or may have completed training, they are not confident putting their knowledge into practice in an emergency situation. This highlights students' need to practise their theory and skills in a safe environment, for example, with simulated patients.

There was a significant difference between the students' confidence helping with an emergency situation and leading one; the latter finding is perhaps because they interpreted 'helping with an emergency situation' as a scenario where they would be given clear instructions by a trained person and would thus not require any first aid knowledge of their own. Alternatively, the latter setting forces them to envisage themselves more clearly in such a situation, and they realise the gravity of the circumstances and the limitations of their knowledge.

Of the 47% that had undertaken formal first aid training, 19.9% currently held a certificate (completed within the last three years), and 10.0% had previously held a certificate (completed more than three years ago) obtained through one of the three well-recognised UK first aid bodies: British Red cross, St John Ambulance or St Andrew's Ambulance. These figures confer that although nearly half of the students have completed first aid training at some point, a quarter of the qualifications gained with the recognised bodies are out of date, meaning knowledge and insurance are potentially invalid. It is not known where the remaining 17.1% of students who had formal first aid training received their teaching as the questionnaire did not permit free responses. Thus, the quality of their teaching course, type of qualification and insurance status is unknown. This highlights the need for a single, standardised course, with all the relevant information pitched at an appropriate level for medical students to be included within the medical curriculum, so medical students can practise first aid safely, in the knowledge that their skills and insurance are up-to-date.

The belief that there is an expectation from the general public for medical students to have the knowledge to handle an emergency situation probably explains why a similar, significant proportion of students value first aid and wish for it be provided at medical school. Both these findings again emphasise the need for its inclusion within the medical curriculum.

There was ambiguity regarding the statement "medical students have an obligation to assist in an emergency medical situation", as students enquired verbally if this obligation was legal or moral. In hindsight, the question was vague and therefore responses were affected by differing interpretations. In addition, many students perhaps do not actually know their legal status regarding such matters and therefore could not have answered the question accurately.

We surmise a majority of students disagreed or strongly disagreed with the statement "first aid should be a pre-requisite for medical school" as many would not have obtained a place

had they been required to have a first aid qualification. Currently, those who have a qualification prior to medical school have an advantage in their applications and personal statements. To request first aid as a pre-requisite levels the playing field and devalues those who have a genuine interest and dedication to first aid. Financially, and with regard to time, students may also find it difficult to complete a full first aid course in late secondary school due to the pressures of their studies. Lastly, first aid organisations have limited places and resources; a rush of ten thousand or more students a year would be overwhelming. In view of these facts, there is an ever-present danger in requesting first aid as a pre-requisite, in that it could discourage students from applying.

A significant proportion desired first aid training as early in the course as possible. This coincides with students' beliefs that the general public have expectations and that first aid is beneficial, and suggests that students wish to undergo preparation for such a situation as soon after entering medical school as possible. The format of the questionnaire allowed students to choose one year only in which they wished to see first aid included. However, as the questionnaire was being conducted, students asked if the training could be provided in multiple years, suggesting preference of training on more than one occasion, possibly continually throughout their course.

Similarities & differences between the responses of the first and second year medical students

The response rate of first years was much higher than that of second years. This could be due to less second years choosing to participate, however, it is also possible, considering the questionnaire was delivered during a practical teaching session, that more second year students failed to attend their scheduled teaching and therefore missed the delivery of the questionnaire to that group of students.

More first year students had previous first aid training than second year students which could explain why significantly more first year students believed they had a good level of first aid knowledge and more would feel confident helping in an emergency situation. Alternatively, first year students are, anecdotally, more over-confident than second years: students perhaps realise more the limitations of their knowledge as they progress through their training. Interestingly, both year groups were equally not confident about leading an emergency medical situation, suggesting students may realise the limitations of their professional competence to a certain degree.

Although agreeing equally that first aid training is beneficial and that there is an expectation from the public that medical students should know how to handle a pre-hospital emergency, both year groups were divided over their obligation to assist in such a situation. This was likely due to the reasons discussed above. However, slightly more first year students felt an obligation to help at a medical emergency than second year students, again attributable to over-confidence or because a greater proportion of first years had previous first aid training. More second year students believed that training should be included in the core medical curriculum, which coincides with their lesser confidence in the emergency situation and fewer having had training in the past.

Limitations

The findings of this study have to be considered within its limitations. The questionnaire we used was not validated by prior research. Although the response rate was good, the questionnaire was conducted in one UK medical school only, and therefore may or may not be applicable to all schools in the UK. To improve generalisability, it would be necessary to deliver the same questionnaire at other UK medical schools.

In addition, only first and second year students (i.e. pre-clinical students) were invited to participate. Third, fourth and fifth year students were not given the opportunity to express their views; the findings may or may not be applicable to students further advanced in their training, and there may be a changing opinion as students progress through their medical career.

The method used to deliver the questionnaire meant that following completion of the questionnaire, it is possible that students may have discussed its contents with colleagues who had yet to participate, which may or may not have affected responses.

Conclusion

Only a small proportion of students believed their first aid knowledge was adequate. An overwhelming proportion thought first aid training beneficial and that the public expect competency in managing emergencies. Students believe first aid should be in the core curriculum, during pre-clinical years to the highest training level possible.

Following these findings and the UK General Medical Council *Tomorrow's Doctors* recommendations, the QUB first year core curriculum included a full first aid course for the first time in 2010 – 2011 academic year.

Future research should include surveying other UK medical schools, improving generalisability of results, and sampling the public to ascertain expectations of students' first aid knowledge.

Declarations

The authors have no financial or other interests to declare in relation to this paper.

Acknowledgements

The authors wish to thank Dr John McManus for help with the literature review and development and delivery of the questionnaire.

Author information

Dr Rebecca Gibson and **Dr Jonathan Morrow** are Foundation Year I Doctors at the Ulster Hospital Dundonald, South Eastern Health and Social Care Trust, Northern Ireland. **Dr Gerard Gormley** is a Senior Lecturer in Medical Education at Queen's University Belfast and a practising General Practitioner in Carryduff, Northern Ireland. **Dr Nigel Hart** is a Senior Lecturer in Medical Education at Queen's University Belfast and a practising General Practitioner in Crossgar, Northern Ireland.

References

- Zwitter M, Nilstun T, Knudsen L E, Zakotnik B, Klocker J, Bremberg S, Frentz G, Klocker-Kaiser U, Pedersen J. (1999). Professional and public attitudes towards unsolicited medical intervention. British Medical Journal. 318(7178):251-253.
- Allison K´P, Kilner T, Porter K M, Thurgood A. (2002). Prehospital care--the evolution of a course for undergraduates. Resuscitation. 52(2):187-191.
- Freeston J. (2008). Citizen's arrest. Student British Medical Journal. 16:388. Available from: URL: http://student.bmj.com/ student/view-article.html?id=sbmj0811388a [Accessed Nov 2011].

- 4. Wallace A. (2007). Ulster students help save woman's life on plane. Belfast Telegraph [Online]. Available at http://www.belfasttelegraph.co.uk/news/local-national/ulster-students-help-save-woman-on-plane-13456353.html [Accessed Feb 2011].
- 5. Page S P, Winburn I C. (1997). Is first aid training adequate for medical students? Student British Medical Journal. **5**:391.
- Davies C. (2009). Call a medic? Voluntary teaching in prehospital care. The Clinical Teacher. 6(4):249-253.
- 7. Drake S. (2009). Pre-hospital emergency medicine: its place in the undergraduate curriculum. The Clinical Teacher. 6(3):152-154.
- 8. Furmedge D, Hall J. (2009). Undergraduate emergency medicine and pre-hospital care teaching: is it enough? The Clinical Teacher: 6(3):214-215.
- Ahmed H U, Kellett C, Ashworth M, Nazir S. (2004). First aid and cardiopulmonary resuscitation training for medical students. Medical Education. 38(8):913.
- Graham C A, Guest K A, Scollon D. (1994). Cardiopulmonary resuscitation. Paper 1: A survey of undergraduate training in UK medical schools. Journal of Accident and Emergency Medicine. 11(3):162-164.
- General Medical Council. (2009). Tomorrow's Doctors: Outcomes 2 - The doctor as a practitioner. London, General Medical Council (GMC).

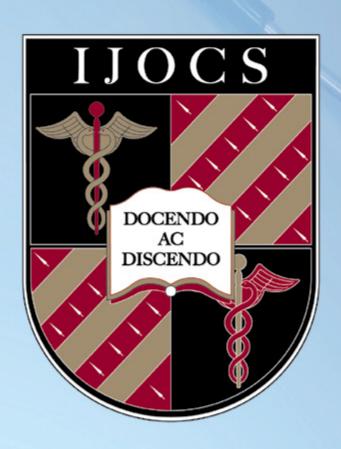


I|OCS - Volume 7 - Issue I

If you would like to subscribe to IJOCS, please contact subscription@ijocs.org

INTERNATIONAL JOURNAL OF CLINICAL SKILLS





If you wish to submit material for publication, please email info@ijocs.org