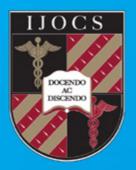
ISSN 1753-044X



Volume 4 Issue 1 January 2010

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:

The art of basic wound suturing

Prescribing skills of trainee medical staff Insight as a measure of educational efficacy The mental state examination myPaediatrics

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 Wing Yan Mok Business Development Manager & Associate Editor wing.mok@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 SkillsClinic Ltd.

Acknowledgements

We would like to take this opportunity to show appreciation to all those involved with the production of the International Journal of Clinical Skills (IJOCS). Many thanks to all members of the Editorial and Executive Boards.

A special thank you to Dr Mayoor Agarwal for his rich enthusiasm and kind support.

The International Journal of Clinical Skills looks forward to contributing positively towards the training of all members of the healthcare profession.

Contents

| The Executive Board Members Acknowledgements | ļ |
|---|---|
| The Editorial Board | 2 |
| Foreword - Professor David Haslam | 3 |

Reviews

| The art of basic wound suturing | |
|---|----|
| - Lyndon Mason | 4 |
| The mental state examination | |
| - Neel Burton | 9 |
| A technique for removing rings from swollen fingers | |
| - David Bosanquet | 15 |

Original Research

| Assessing the prescribing skills of trainee medical staff: implementation of a routine assessment and remedial training strategy | |
|--|----|
| - Deborah Mayne | 17 |
| myPaediatrics: | 17 |
| a website for learning paediatric clinical skills | |
| - Ralph Pinnock | 23 |
| E-learning in clinical education: | |
| a questionnaire study of clinical teachers' | |
| experiences and attitudes | |
| - Gerard Gormley | 32 |
| A needs based simulation curriculum | |
| to bridge the Trainee Intern and | |
| Postgraduate Year One House Officer Years | |
| - Dale Sheehan | 41 |
| Insight as a measure of educational efficacy - the | |
| implications of social learning theory | |
| - Paul Jones | 46 |
| Simulation education in undergraduate | |
| medical education: Implications for | |
| development of a rural graduate-entry programme | 50 |
| - Robyn Hill | 50 |
| Testicular examination: an evaluation of a | |
| one year trial of working with simulated patients to teach medical students within | |
| a UK clinical skills department | |
| - Nick Purkis | 56 |
| Evaluation of the paediatric clinical teaching | 50 |
| component of a new medical program | |
| - Annette Burgess | 62 |
| | |
| 0 | |
| Correspondence | 65 |
| | |
| Clinical Skills Notice Board | 66 |
| | |

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

Dr Peter J M Barton MBChB FRCGP MBA DCH FHEA

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

Dr Jonathan 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

Graduate Entry Medicine Programme Director & Senior Lecturer in Medical Education School of Medicine Swansea University, UK

Dr Dason E Evans MBBS MHPE FHEA

Senior Lecturer in Medical Education Head of Clinical Skills Joint Chief Examiner for OSCEs St George's, 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 Canada

Dr Adrian M Hastings MBChB MRCGP FHEA

Senior Clinical Educator Department of Medical Education Leicester Medical School University of Leicester, UK

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

Assistenzärztin Anästhesi 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

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 (IJOCS) 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 IJOCS, 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.

 $\ensuremath{\mathbb{C}}$ International Journal of Clinical Skills

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

Surgeon 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 Trust, UK

Professor Val Wass BSc MRCP FRCGP MHPE PhD

Professor of Community Based Medical Education The University of Manchester, UK

Foreword



As we head into the New Year of 2010, the International Journal of Clinical Skills (IJOCS) can feel justifiable pride that it has fulfilled its ambition to provide the international healthcare community with an arena for clinical skills education and research. For almost all the healthcare professions, clinical skills form the basic foundations and therefore a combined approach is absolutely what is needed for the future provision of a high quality health service.

The role of the ePortfolio in both education and continuing professional development of healthcare professionals continues to evolve as training and revalidation become increasingly important. Clinical skills are an essential element of this process and in 2010 the IJOCS will be proud to publish abstracts and papers from the 8th international ePortfolio conference hosted by ElfEL London Learning Forum 2010. Further information can be found at www.ijocs.org/eportfolio

This year will also see the launch of the new and exciting 'CliniTube' website – a free resource providing a single portal for accessing and sharing an array of information. It should be a valuable resource for students and should give teachers of numerous disciplines the opportunity to share educational materials. I'm certainly looking forward to seeing the 'Clinical Skills Lab' which should become an integral component of CliniTube and will comprise information on a variety of clinical skills.

The International Journal of Clinical Skills is a unique publication in its devotion to clinical skills. I encourage professionals all over the world to continue contributing to its on-going success. After all, our patients deserve nothing less than the best.

David Haston.

Professor David Haslam FRCGP FRCP FFPH FAcadMed (Hon) CBE Immediate Past-President of the Royal College of General Practitioners (RCGP) National Clinical Adviser to the Care Quality Commission United Kingdom

Evaluation of the paediatric clinical teaching component of a new medical program

Ms Annette Burgess BBusStud MBT MEd MMedEd

Executive Officer Central Clinical School Sydney Medical School University of Sydney

Correspondence:

Ms Annette Burgess Executive Officer Central Clinical School Royal Prince Alfred Hospital Campus Sydney Medical School University of Sydney Building 63, Level 4 Missenden Road Camperdown NSW 2050 Australia

E-mail: a.burgess@usyd.edu.au Tel: +61 (02) 9515 8172 Fax: +61 (02) 9515 3359

Keywords:

Paediatrics Clinical teaching Small group teaching Evaluation

Abstract

This study was undertaken to evaluate the paediatric clinical teaching component of a new medical program based on integrated learning within authentic contexts. The study evaluated student perception of understanding, competence and confidence, and active involvement in learning. Rating scales, open ended questions and focus group discussions evaluated participant perceptions. Students thought the clinical setting does increase awareness and understanding of child health issues; and competence and confidence in clinical skills. However, engagement in activities was hindered by student perception of insufficient prior knowledge, lack of clear learning objectives, limited patient numbers, and inconsistency in tutor teaching styles. Focus group discussion cross-validated these findings, highlighting that while early exposure to paediatrics in a clinical setting is highly valued, there is scope for improvement by addressing the issues raised by the students.

Introduction

In 2005 a new medical curriculum was introduced within the Faculty of Medicine, University of New South Wales (UNSW), Australia. This new medical program resulted in major changes to the structure and teaching methods. In particular, changes were based on integrated learning within authentic contexts. The paediatric curriculum was changed significantly to include clinical, small group, hospital based teaching in years I & 2 of the curriculum. Such resource intensive changes in the delivery of medical curricula are a result of a recent emphasis on student centred, active learning practices [1]. An evaluation to investigate the effectiveness of the introduction of these teaching activities is critical in the current climate of growing demands on teaching staff and limited patient availability for teaching.

Aims

The purpose of this study was to investigate students' perceptions of the new clinical component of the paediatric program on student learning. The study evaluated development of student awareness and understanding of child health issues, competence and confidence in clinical skills, and student perception of active involvement in learning. Specifically, the evaluation investigated three tutorials within the clinical component of the course: 'Taking a paediatric history', 'Well baby check', and 'Examination of a normal child'.

Methods

Mixed methods for data collection and analysis were used in this evaluation. The evaluation was divided into two phases. Phase I involved the collection of quantitative data using survey questionnaires from a random selection of tutorial groups (168 students from a population of 364). The quantitative data were assessed using the mean and standard deviations. Phase 2 involved the collection of qualitative data using focus groups from a convenience sample of students (n=18). The

survey and focus group questions were based on Brookfield's Critical Incident Questionnaire, which was designed to provide significant feedback on student experiences in the learning environment [2]. Qualitative data analysis procedures were used to code, categorise and identify themes in the data [3]. Ethics approval was obtained from the UNSW Ethics Committee.

Results

In phase 1 of the study, the response rate was 71% (120/168). In phase 2 of the study, 18 students participated in focus groups.

Table I shows the students' responses to the questionnaires regarding the tutorials.

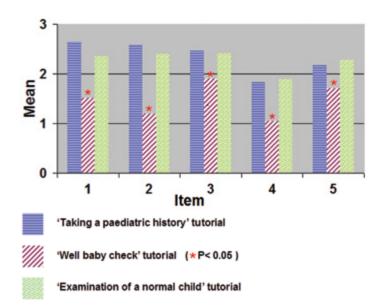
Table 1: Questionnaire responses

| No. | Statement | [†] Minimum score | [†] Maximum score | [†] Mean score (95% CI) | Standard deviation | [†] Mean score (95% CI) | Standard deviation | [†] Mean score (95% CI) | Standard deviation |
|-----|--|-------------------------------|-------------------------------|---|--------------------|-------------------------------------|--------------------|--|--------------------|
| | | | | "Taking a paediatric history tutorial" | | "Well baby check tutorial" | | "Examination of a normal child tutorial" | |
| QI | Did being in the clinical setting assist you in the development of confidence in (insert tutorial topic)? | 0 | 3 | 2.64 (2.54-2.74) | 0.57 | 1.51 (1.32-1.70) | 1.01 | 2.36 (2.22-2.50) | 0.76 |
| Q 2 | Did being in a clinical setting assist you in your learning development? | 0 | 3 | 2.58 (2.48-2.68) | 0.56 | 1.20 (1.02-1.38) | 0.99 | 2.41 (2.28-2.54) | 0.72 |
| Q 3 | Did the use of small tutorial groups assist you in your learning today? | 0 | 3 | 2.46 (2.33-2.59) | 0.71 | 1.91 (1.75-2.07) | 0.89 | 2.41 (2.28-2.54) | 0.70 |
| Q 4 | Did the clinical setting provide the opportunity for you to apply your prior knowledge about (insert tutorial topic)? | 0 | 3 | 1.83 (1.69-1.97) | 0.83 | 1.04 (0.86-1.22) | 0.97 | 1.89 (1.71-2.07) | 0.86 |
| Q 5 | Did the tutorial allow for collaborative learning? | 0 | 3 | 2.17 (2.04-2.30) | 0.77 | 1.71 (1.55-1.87) | 0.90 | 2.28 (2.14-2.42) | 0.76 |

[†]Scores on a four-point Likert scale ranging from 3 = "significantly", 2 = "moderately", 1 = "slightly", 0 = "not at all".

Figure I is a summary of the data and shows that in terms of clinical experience, the students consistently rated the 'Taking a paediatric history' and the 'Examination of a normal child' tutorials higher than the 'Well baby check' tutorial.

Figure 1: Mean item rating of scored responses to questionnaires (Likert scale of 0 to 3) $% \left(\frac{1}{2}\right) =0$



Participant responses to open ended questions identified interaction with patients and parents as the most useful 50% (60/120) aspect of the tutorials. Students found the most confusing aspect of the tutorials was the use of unfamiliar medical terminology 57% (68/120). Students felt the tutorials could be improved if they were able to see more patients with a greater diversity of ages and/or medical problems 71% (85/120).

The focus group data reinforced students' perceived benefits of active involvement in the clinical setting. This included the comments: "You can see how things really happen and how you have to think on your feet. The mistakes you make here actually matter. We will remember it better". The unique opportunities found in the clinical setting were rewarding and motivating for the students. This was reflected in comments such as: "It's different to explain how to take a history, and then to have to do it ourselves. When you think about it, you think that's logical, but then when you actually are talking to the patient, you interact and react to what the patient says", and "Things weren't where we thought they were, it was more complicated".

It also became evident that the "Well baby check" tutorial was rated poorly by students due to insufficient prior knowledge and clinical exposure, with comments such as: "In the baby check, there wasn't anything to develop our confidence, there was no hands on practice. A lot of people felt it was a shame. Watching our tutor do a baby check would have been good."

Discussion

The use of both quantitative and qualitative data collection provides the opportunity to clarify student responses [4]. Students perceived that when properly utilised, the clinical setting does increase student awareness and understanding of child health issues by building upon prior knowledge, enabling collaborative learning and assisting in retention of information. Student perception of competence and confidence in clinical skills also increased.

According to the students, small group tutorials assist in their learning, as they have greater confidence to participate. However, engagement in activities was hindered by student perception of insufficient prior knowledge, a perceived lack of clear guidelines and learning objectives, limited patient numbers, and inconsistency in teaching styles. This suggests a need to consider whether students' prior knowledge is adequate and appropriate for the clinical component of this course.

Conclusion

Early exposure to paediatrics in a clinical setting is highly valued by year I and 2 students. In particular, "Taking a paediatric history" and "Examination of a normal child" tutorials were highly rated, whereas the "Well baby check" tutorial was less useful. Modifications to the program based on student feedback are needed in order to maximise the benefits of the clinical setting and effectively utilise resources. Consideration should also be given as to whether students are at the appropriate stage in their training to participate in clinical tutorials at a children's hospital.

Author information

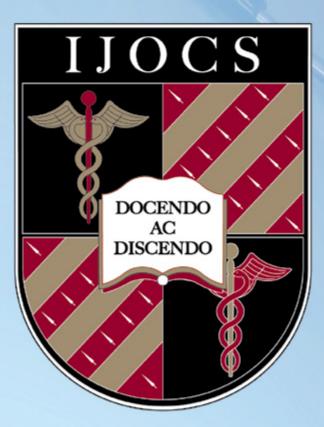
Annette Burgess is an Executive Officer at Central Clinical School, Sydney Medical School. She has worked for a number of years in medical education and has an interest in evaluation.

References

- I. Jones R, Higgs R, de Angelis C, Prideaux D. (2001). Changing face of medical curricula. Lancet. **357**(9257):699-703.
- 2. Brookfield S D. (1995). Becoming a critically reflective teacher. San Francisco CA, Jossey-Bass.
- 3. Creswell J. (2002). Educational research. Planning, conducting and evaluating quantitative and qualitative research. New Jersey. Merrill.
- 4. Fitzpatrick J, Sanders J, Worthern B. (2004). Program evaluation. Alternative approaches and practical guidelines. Boston MA, Pearson.

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



Clinical Skills Lab





The Clinical Skills Lab database will comprise information on over 200 clinical skills, broadly separated into:

- → History taking skills
- → Communication skills
- → Clinical examination/interpretation skills
- → Practical skills

Not only will this valuable resource provide material to students as a learning tool and revision aid, for example, OSCEs, it will also offer educational materials for teachers from all disciplines, allowing some standardisation of practice. The Clinical Skills community will also be encouraged to contribute, making this database interactive.

CSL is a free not for profit database. Visit **www.ijocs.org** for access