Since the beginning of mankind there has been a need for clinical forensic medical services: 'Cain overpowered Abel and killed him' (Genesis 4:8, New International Version Bible). Clinical forensic medicine (CFM) applies knowledge from all specialties of medicine for the administration of justice in courts of law, thereby acting as a link between medical practice and the law. Because all practising physicians, regardless of specialty, are often required to evaluate CFM cases, increasing scrutiny by the judicial system demands that medical graduates/students undergo satisfactory training in CFM and are informed regarding the consequences of their practices, not only on health, but also in the legal, social and economic domains, as the consequences relate to the rights and quality of life of their patients.

We previously demonstrated that some community-service doctors (CSDs) lack the required competence to assess and document medicolegal cases involving rape/sexual assault, inebriated drivers and common physical assault. These findings revealed a consequential gap in the cognisance and adeptness of medical graduates regarding the practice of clinical forensics, and the necessity for a revised curriculum for CFM to address the inadequacies of undergraduate medical training programmes. We present the perspectives of the abovementioned CSDs on how knowledge of medical graduates of CFM can be improved.

Methods
This research was designed as a descriptive study that made use of a questionnaire survey to gather qualitative data from 150 CSDs.

Instrument
Data were collected using a structured, self-administered questionnaire distributed electronically to participants via the EvaSys electronic survey system (Electric Paper, Germany). It comprised open-ended questions that allowed participants to suggest how medical graduates' knowledge of CFM can be increased.

Ethical approval
This study was approved by the Health Sciences Research Ethics Committee, Faculty of Health Sciences, University of the Free State, Bloemfontein, South Africa (SA) (ref. no. HSREC 149/2011).

Data analysis
Responses to the open questions were read and re-read by the investigators to familiarise themselves with the content. Content analysis was done using NVivo 12 software (QSR International Pty Ltd, Australia). Thematic analysis formed the cornerstone of the analysis, with emphasis on patterns and emerging themes.

Results
Analysis of the comments of the CSDs revealed three core themes, i.e. training, practical work and exposure. Each theme is supported by CSDs' responses quoted verbatim.

Training
CSDs indicated that providing more training opportunities at undergraduate level is key to improving medical graduates' knowledge of CFM: ‘More undergraduate training and exposure.’ ‘I think there should be more training for an undergraduate on the legal implications for the examiner.’ ‘Undergraduates should rotate and be on call with the district physician in medicolegal departments.’
One major component of CFM is the detailed assessment/examination, documentation and treatment of patients who report having been physically or sexually assaulted or raped.\[8\] Known as medicolegal examinations, they entail a very detailed history regarding the incident, and a thorough general examination coupled with collection of forensic samples.\[9\] Therefore, CSDs in this study suggested that training should focus more on aspects of history taking, examination, completing the appropriate form (J88) and documentation, and how to use the required kits to collect forensic evidence: ‘Restructuring the medical training to include examining and appropriate history taking and correctly filling in documentation as part of undergraduate education would be a step in the right direction.’ ‘… also training in filling in the documents correctly … ’ ‘Training on how to complete J88 forms.’ ‘Training with the actual kits.’

Practical work
According to the CSDs, theoretical teaching of CFM is inadequate for impacting knowledge. Therefore, they advocated that training should be made more practical:

‘One lecture is not enough … theoretical lectures are not sufficient. I think it needs to be shown to students practically.’

‘Combine theoretical knowledge with practical exposure.’

‘… thus I would suggest more practical exposure be given to students … ’

‘Getting practical experience would help.’

Exposure
The third core theme was exposure. Here, CSDs suggested that undergraduate students should be exposed to real-life cases, as this would make training more meaningful:

‘Proper exposure to cases, especially assault cases; wound examinations with an experienced clinician on a regular basis.’

‘More practical exposure to different case studies.’

‘To increase exposure to case studies and increase the time period spent on forensics.’

Discussion
The training of undergraduate MB ChB students in CFM is a prerequisite set by the subcommittee for Undergraduate Education and Training of the Medical and Dental Professions Board in SA.\[7\] However, teaching and learning of CFM in the undergraduate medical curriculum has been declining, which has resulted in deficient handling of medicolegal cases by doctors.\[8\]\[9\] In this study, CSDs claim that more teaching/training opportunities are required in the undergraduate medical curriculum to improve medical graduates’ knowledge of CFM. Furthermore, CSDs indicated that training should be made more practical and meaningful by exposing students to real-life cases. This suggestion is very important, as traditional methods of teaching (i.e. didactic lectures with few demonstrations) have resulted in impaired student learning and poor skills acquisition.\[8\]

SA courts rely heavily on medicolegal evidence for successful prosecution of physical assault, rape/sexual assault or drunk-driving cases. The inept handling, collecting and processing of medicolegal evidence by healthcare providers have been attributed to lack of rigorous training and poor performance standards.\[11\] Therefore, it is important that healthcare providers are trained and competent, and possess the skills needed to collect evidence and document medicolegal findings properly.

Study limitations and future research
The CSDs who participated in this study were graduates of a single medical institution, which could limit the generalisability of this study. Further research could investigate the perspectives of other CSDs (graduates of other medical institutions) to obtain views from a representative population. Furthermore, studies can be conducted to develop a curriculum framework for teaching CFM in undergraduate medical education.

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