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Building Indonesia's Dental Competencies Standard

Speaker's Bio

Dr. Iwan Dewanto is a lecturer at the Department of Public Health, Medical Faculty, Universitas Muhammadiyah Yogyakarta, Indonesia. He obtained his DDS degree at the Gadjah Mada University, Indonesia. He then took up a master course in Hospital Management at the Universitas Muhammadiyah Yogyakarta. He demonstrates an active participation in

several professional organizations. He is now the General Secretary of Indonesian Dental Association, Core Team Member of Indonesia Dental Competence Assessment, and Chairman of Indonesian Dentist Collegiums. He is also a member of Public Health Dentistry Association. He has been appointed as a tutor in the Implementation of Problem based Learning system in Indonesia's dental school, a lecturer for Bioethics, Health Laws, and Humaniora, and a mentor for National Standard Dental-Medical Record. His major interest relies on the subject of dental public health, management of dental health services, and ethicomedicolegal. He has published some papers focusing in those areas of interest.

Brief Abstract

In 2015, Indonesia has 30 Faculties of Dentistry which are located in Java, Sumatra, Kalimantan, Sulawesi and Bali. Indonesian dentist competency examination (*Uji kompetensi dokter gigi-UKDGI*) was developed to ensure the individual's competence and be a basis for certification on their qualification. This examination was determined from Indonesia Medical Practice regulation number 29/2004 about "Indonesian Dentist Standard of Competence". The validity of the examination is influenced by the examination content and methods.

The implementation of UKDGI was started in 2007 and used a multiple choice questions (MCQ) in paper-based form. Then, in April 2010, the system was supported by Health Professional Education Quality Project (HPEQ). HPEQ has facilitated the preparation of high stake exam test through various workshops, such as :

1. **Input** : Blue printing, the Item Development & Written Test, and examination method
2. **Process**: Exam management, exam guidelines, item review, panel expert, item bank administration, training for 'Objective Structured Clinical Examination' (OSCE) examiner, training for Standardized Patient, try out item, IT support and Item Analysis.
3. **Output**: Standard setting, result announcement and educational feedback

In 2011, the test methods were changed into computer based test (CBT) involving all faculties of dentistry in Indonesia in collaboration with Indonesian College of Dentist. A "one best answer" type of MCQ was chosen to develop a "case-based" question. Then, in 2012, an OSCE test was developed to corroborate UKDGI test. The OSCE uses standardized patients (SPs) or mannequin (dental phantom). Therefore, currently, two kind of examinations (MCQ CBT and OSCE's) for UKDGI test are performed. A panel expert - representing all faculties of dentistry will set the bottom score of passing grade in every test period. This panel expert judgment was conducted using modified angoff method. Key performance indicator (KPI) of UKDGI test was 80.12% (year 2010), 83.13% (2011), 72.19% (2012), 76.04 (2013) and 71.67% (for 3 periods of examination in 2014). The KPI was considered under performance due to the accumulation of unpassed participants. However, the dental school has constraint to deliver a formal enforcement education since they were already be a dentist. Due to solve these problems, the Ministry of Education established Act Number 30/2014 in order to schedule the national test before graduation (exit examination). The Act put the faculty of dentistry at strong responsibility to ensure the qualification of their students. The result of key performance indicator after this regulation are 75% (period of November 2014), 77.72% (period of January 2015).

The improvement of the national licensure test for Indonesian dentist will be carried out continuously. The data of licensed dentists is recorded in a management information system which is integrated with data network of Indonesia Medical Council, Indonesia College of Dentist and Ministry of Education.