







PROCEEDING

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The 2nd International Conference of Medical and Health Sciences (ICMHS) and The 2nd Life Sciences Conference (LSC) 2016

> "Towards a Better Quality of Life through Interdisciplinary Research"

Yogyakarta, 9th-10th December 2016 The Alana Hotel and Convention Center











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TABLE OF CONTENT

COMMITTEE	viii
WELCOMING SPEECH Welcome Message from Comittee	ix x xi
KEYNOTE SPEAKER OF INTERNATIONAL CONFERENCE	χV
REVIEWER	xvi
FULL ARTICLE Diabetic Neuropathy - A Chance Towards A Better Treatment Tri Wahyuliati	2
Herbal Medicine a Holistic Approach; in Case of Food Supplement Formulation of Sauropus androgynus and Elephantopus scaber to Modulate Immune and Hormonal System in Pregnant Salmonella typhi Infected Mice Muhammad Sasmito Djati	10
Continuing Competence of Practicing Nurses in Indonesia Fitri Arofiati, SKep.,Ns, MAN Ph.D	19
The Influence of Neuromuscular Taping (NMT) in Walking Speed for the Patients After Ischemic Stroke Umi Budi Rahayu	29
Correlation between Larvae Free Number with DHF Incidence in Sleman, Yogyakarta, Indonesia Tri Wulandari Kesetyaningsih, Sri Andarini, Sudarto, Henny Pramoedyo	34
Correlation Interdialytic Weight Gain-Idwg towards Physical and Psychological Health to Quality of Life in Patients with Hemodialisa Cecilya Kustanti, Maria Putri Sari Utami	42

Quality of Life in Hemodialysis Patiens with Hypertension Maria Putri Sari Utami, Elsye Maria Rosa, Azizah Khoiriyati	48
Environmental Housing Characteristic of Pulmonary Tuberculosis Sufferers in Slum Area	
Iwan Stia Budi, Yustini Ardillah, Indah Purnama Sari, Dwi Septiawati	55
Exploration Study in Psychological Changed on First Trimester Pregnant Women at Kembaran II Health Center, Banyumas	
Wilis Dwi Pangesti, Dewi Ambarwati, Inggar Ratna Kusuma	63
The Anxiety of Pregnant Mother with History of Abortion in Health Service 2 Banyumas Qualitative Study	
Evicenna Naftuchah Riani, Wilis Dwi Pangesti, Diah Atmarina Yuliani	72
Analysis of Infection Control Risk Assessment and Strategies to Reduce Health-Care Associated Infections in RS PKU Muhammadiyah Gamping Yogyakarta	
Nurmalita Sari, Elsye Maria Rosa	76
Health Promotion Program for Disaster Eruption of Mount Merapi Refugee in Youth Centre SlemanDistric, Yogyakarta Special Province, Indonesia Novitasari Ratna Astuti	91
Pap Smear is Important Screening of Cervical Cancer for Women Ivanna Beru Brahmana	100
Analysis of Compliance on Implementing Standard Precautions on Dental Health Service at PKU Muhammadiyah Gamping Hospital of Yogyakarta Maria Margaretha S Nogo Masa, Elsye Maria Rosa	108
Qualitative Study of Stakeholders' Knowledge Regarding Alert Village Program in Ogan Ilir Regency Asmaripa Ainy, Iwan Stia Budi	123
	5
The Influence of Parents Knowledge and Health Care Access to the	
Identification of Children with Hearing Impairment Asti Widuri, Alazi, Muhammad Pringgo Arifianto	131

The Comparison of Maternal Leukocytosis Incidence between Preterm Premature Rupture of Membranes and Premature Rupture of Membranes at	
Term in Panembahan Senopati Hospital Bantul Yogyakarta Choirotun Jum'iyyatin Nisak, Supriyatiningsih	137
Analysis of Patient Safety Culture Instrument by MaPSaF Arum Astika Sari, Arlina Dewi	143
The Relationship of Fish Consumption to Cognitive Development in Students of SD Saptosari, Gunungkidul, Yogyakarta Dewi Ngaisyah	158
Inter Professional Education and Collaborative Practice: Reflection from Health	
students Wiwik Kusumawati, Ika Setyawati, Romdzati, Likky Tiara Alphianti	164
Steroidal Saponin in Ethanol Extract Tuber of Purple Yam (<i>Dioscoreaalata L.</i>) Decrease IL-4 Density of Blood Sera on BALB/c Mice Model Digestive Tract Allergy	
Sri Nabawiyati Nurul Makiyah, Muhaimin Rifa'i, Widodo, Muhammad Sasmito Djati	173
Managerial Leadership Competence in PKU Muhammadiyah Hospital of Gamping	
Ranggit Oktanita, Qurratul Aini, Ekorini Listiowati	184
Malaria Occurrence Factor Analysis Based on Elevation of Sea Surface in the District of OganKomeringUlu, South Sumatra	
Pademi Alamsyah, Chairil Anwar, Dwi Setyawan, Laila Hanum	200
Increasing Family Involvement to Reduce of Cigarette Consumption with Participatory Learning Action (PLA) Approach Tri Hastuti Nur Rochimah, Salmah Orbayinah	212
Air Pollution Effect to Human Health in Palembang City Marsidi, M.T. Kamaluddin, Fauziah N. Kurdi, Novrikasari	230
Identification of Patient Satisfactory Profile for Outpatient Pharmaceutical Service at Private and Government Hospital within Semarang District	241
Pramitha Esha Nirmala Dewi, Novita Dwi Dahliyanti	4 4 I

Intervention of Family Nutritional Awareness to Increase Family's Food Security Fatmalina Febri, Anita Rahmiwati, Fenny Etrawati	249
The Effects of Exercises in Molecular Neuron Cells of Cerebellum in Congenital Hypothyroidism Rats	
Idiani Darmawati, Marten Bhara Suryo Aji, Zulkhah Noor	258
The Effect of Air Freshener Exposure on Corneal Thickness of White Rat (Rattus norvegicus) Yuningtyaswari, Pajar Sigit Nugroho	265
The Correlation between Education about Personal Hygiene and Knowledge and Attitude of Personal Hygiene of the Adolescent	
Kusbaryanto, Wahana	272
The Relationship between Sports Activities and Premestrual Syndrome In SMA N 1 Sentolo, Kulon Progo	
Fenthy Vabiella, Alfaina Wahyuni	277
Relationship Thyroid Status to the Physical Growth and Psychomotror Development on Children Under 2 Years in Endemic Areas of Iodine Deficiency Disorders in District Samigaluh of Kulonprogo Regency	
Adang Muhammad Gugun, Zulkhah Noor, Jifani Rasyad, Mardylla Nur Fitriany	282
Baby Blood Vessel Detection-Based Touch Sensors Ade Pajar Pirdianto, Anna Nur Nazila Chamim	299
Analysis of Factors that Influence Smokers Using Alcohol among Students in a Private University in Yogyakarta Iman Permana, Gibran Ilham Setiawan	306
man remana, Olbran imam Gellawan	300
The Effectiveness of Combined Warm Water Foot Submerging and Breath Relaxation Therapy on Lowering the Blood T Pressure in Hypertensive Patients in the Work Area of Puskesmas Penumping Surakarta	
Prima Trisna Aji, Novita Kurnia Sari, Sri Nabawiyati Nurul Makiyah	315
Assessment of Interprofessional Communication and Collaboration: Using	
Multi Methods	225
Sri Sundari Purbohadi	335

Bed Side Teaching as Effort for Decreasing Needle Stick and Sharp Injury in Clinical Practice Students of PSIK FKIK UMY Azizah Khoiriyati, Novita Kurnia Sari	342
The Relationship between Working Period and Cholinesterase Blood Levels among Pesticides-Spraying Workers in the Oil Palm Plantation Restu Dewi Lestari, Merry Tiyas Anggraini	350
The Effect of Interpersonal Relationship toward Birth Satisfaction Hema Dewi Anggraheny	356
Effect of Early Mobilization Education of The Level Anxiety and Independence of Patients After Total Knee Replacement in Hospital Amik Muladi, Sagiran, Azizah Khoiriyati	363
The Effect of Normal Dose Extract Gempur Batu Kejibeling (<i>Strobilanthus crispus.BL</i>) to the Histological of Rat's Digestive Tract Yoni Astuti, Ali Usodo Mulyo, Harminani	371
Effectiveness of Alcohol 70%, Clorhexidine Gluconate 4% Soap and Irgasan DP 300 as Hand Sanitizers in Reducing Bacterial Growth Inayati, Pinter Hartono	377

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Chair person of The 2nd International Conference of Medical and Health Sciences and The 2nd Life Sciences Conference 2016



Welcome to Jogia, sugeng rawuh!

For the second time, the Faculty of Medicine and Health Sciences Universitas Muhammadiyah Yogyakarta is going to conduct the 2nd International Conference of Medical and Health Sciences (ICMHS) this December in vibrant Yogyakarta, Indonesia. This year we are going to collaborate with the Life Sciences Society of Pakistan for their 2nd Life Sciences Conference (LSC) with Dr. Zahid Igbal as the general secretary.

This year's conference theme "Towards a better quality of life through interdisciplinary research" will be celebrating an era of seamless interdisciplinary integration and collaboration in scientific innovations with the involvement of more extensive topics and disciplines in the conference. We aim to exhibit the products of that kind of approach in solving challenges, improving the quality of life, and creating sustainable developments. We are happy to announce that our conference is filled with Invited speakers from Pakistan, United States of America, Uni Emirates Arab, Malaysia and Indonesia. Presentations will be conducted in oral as well as poster that covers topics from medicine. public health, dentistry, pharmacy, biomedical to agriculture. To put more credibility to the conference we are collaborating with Isra Medical Journal and the Asian Journal of Agriculture and Biology to publish selected papers from the event. Other paper will be published in the ISBN Proceeding book.

The last but not least, enjoy the conference, start networking and sharing ideas, and let immerse yourself to the heritage cultural ambient of Jogja, sumonggo!

Yogyakarta, 1st December 2016

dr. Iman Permana, M.Kes, Ph.D.

Dean of Faculty of Medicine and Health Sciences. Universitas Muhammadiyah Yoqyakarta



Assalamu'alaikum Wr Wb

Science, especially in the areas of health and life growing more rapidly. We need to work together in the research of various disciplines to the advancement of science and to provide benefits to human life.

After successfully organized international scientific meeting last year, the Faculty of Medical and Health Sciences Universitas Muhammadiyah Yogyakarta, held the second scientific meeting ICMHS along with "2nd Life Sciences Conference". In this second scientific meeting, FKIK UMY collaborates with various researchers, among others from Pakistan, Malaysia, and the United States. Taking the theme "Towards a better quality of life through interdisciplinary research" we hope to establish cooperation with various parties to be able to contribute ideas to the civilization of human life.

Finally, we congratulate the scientific meeting in the city of Yogyakarta Indonesia. Enjoy the beautiful city of Yogyakarta with priceless historical relics. We hope that this meeting can run smoothly and provide benefits to the advancement of knowledge.

Wassalamu'alaikum Wr. Wb.

Yogyakarta, 1st December 2016

dr. Ardi Pramono, M.Kes, Sp.An.

Rector of Universitas Muhammadiyah Yogyakarta



Assalaamu'alaikum Wr. Wb.

Ladies and Gentlemen.

Welcome to the 2nd International Conference on Medical and Health Science in conjunction with the 2nd Life Sciences Conference 2016

Welcome to Yogyakarta City of Tolerance

Our Faculty of Medicine and Health Sciences has been doing such international conference almost every year for the last ten years. This and other previous conferences are the things that supporting our vision as an excellence and Islamic university, a young and global university. We will always try to keep monitoring the development of science through sending more lecturers to do the sabbatical leave overseas, doing international research collaborations and also the international conference. Each department should do this strategy of internationalization so that each department has its own network. Faculty of medicine and health science is one of the most progressive units in implementing this strategy by inviting international experts on a regular basis. This program will certainly strengthen our vision.

International conference on medicine and health sciences is a smart choice to offer our lecturers access to the most recent development of the subjects. The participants will also gain the same knowledge and latest information on medicine and health sciences. As everyone knows that the development of science and technology are faster today compared to the previous period. Information technology, computer, and other development havefastened the transformation of medicine and health science into the different and more complex stage.

Cellular technology, for instance, can be used for several functions including those that directly impacts our daily life. There is no long distance call anymore today because cellular phone can do everything we need to contact other people far from where we stand anytime anywhere. People will finally innovate cellular phone for the sake of personal health services. We will in the future using our simple cellular phone to detect our body temperature, blood pressure, even how much fat we have in our body and how much it is supposed to be. We may also be able to check the health of our body without leaving our house and order medicine without going into the drug store. Everything is almost possible as long as we think hard for the better of people in the future. Enjoy the conference and don't forget to visit our rich tourist destinations, mountains, beaches or caves (underground waterways).

Thank you

Wassalaamu'alaikum Wr. Wb.

Prof. Dr. Bambang Cipto, MA

Keynote Speech

by Head of Provincial Health Office Special Region of Yogyakarta in International Conference of Medical and Health Sciences and Life Sciences Conference

The Alana Hotel and Convention Center, Yogyakarta, December 9-10, 2016

The honorable:

- · Rector of Muhammadiyah University of Yogyakarta,
- The Dean of Medical and Health Sciences Muhammadiyah University of Yogyakarta,
- The chairman of organizing committee of the international conference of medical and health,
- Distinguished guests and colleagues.

Assalamu'alaikum Warahmatullahi Wabarakatuh.

First of all, we thank God for His blessings that today we may attend the International Conference of Medical Health Towards a Better Quality of Life Through Interdisciplinary Research in Yogyakarta.

My distinguished colleagues,

In Indonesia National Long Term Development Plan (2005-2024), the Indonesian Ministry of Health have determined a paradigm shift that have governed health services in health development plan. There has been a shift from Curative Health Services to Preventive and Promotive Health Services.

Recently, Indonesia suffers from a triple burden of diseases as health development challenges. The triple burden of diseases are: 1) the backlog of common infections, undernutrition, and maternal mortality; 2) the emerging challenges of non-communicable diseases (NCDs), such as cancer, diabetes, heart disease; and 3) mental illness, and the problems directly related to globalization, like pandemics and the health consequences of climate change.

Dear colleagues,

Here are some data that show several health problems in Indonesia:

- 1. Maternal mortility rate in 2015 is 4,809 cases, infant mortality rate in 2015 is 22,267 cases;
- 2. Regarding to children under the age of five, the national stunting rate is 37.2% which consists of 18% for very short dan 19.2% for short (Riskesdas 2013);

- 3. HIV testing coverage is 14% dan antiretroviral (ARV) therapy coverage is 65.58% (Directorate General of Disease Control and Prevention Ministry of Health, 2015);
- 4. Tuberculosis (TB) notification rate in 2015 is 73.5% and tuberculosis treatment success rate is 72% (Directorate General of Disease Control and Prevention Ministry of Health, 2015).

Distinguished guests.

Indonesia Health Development Program in 2015-2019 strengths in improving human quality life through Health Indonesia Program with family approach. The Indonesian Ministry of Health issued The Minister of Health Regulation (Permenkes) No. 39 Year 2016 as a Guideline of Implementation of Health Indonesia Program with Family Approach. This program has 12 main indicators as markers of a family health status. Currently, many health programs have been implemented by Indonesian Ministry of Health, Provincial Health Offices, and District Health Offices. However, many health problems, some as mentioned above, still become health burdens. We may ask a question whether the programs that we conducted have answered the health problems we have in Indonesia.

It would be better if all health programs that we implement based on scientific health research, especially interdisciplinary research. The research should be related to detection, prevention, and treatment of diseases or problem solving for better health. My dear colleagues,

Being a province with speciality, Special Region of Yogyakarta placed Traditional Medicine as one of the priority programs in Provincial Medium Term Development Plan (2017-2022). We still encounter many challenges in developing Traditional Medicine, especially in providing services which are based on scientific evidence.

Distinguished colleagues,

We look forward to results of interdisciplinary research which would support health problem solving, especially by developing traditional medicine in Yogyakarta. We believe that collaboration in interdisciplinary research would improve quality of human life. Finally,

Thank you for your attention. We wish you a successful conference.

Wassalamu'alaikum Warahmatullahi Wabarakatuh,

On behalf of the Head of Provincial Health Office Special Region of Yogyakarta

Drg. Pembajun Setyaningastutie, M.Kes

SPEAKER OF INTERNATIONAL CONFERENCE

Zahid Igbal

Al-Nafees Medical College Isra University Islamabad Campus Islamabad, Pakistan "One Health Program for Public Health Benefit"

Prof. Dr. Abdul Khaliq

Professor, Department of Agronomy, University of Agriculture, Faisalabad "Role of Agriculture in Poverty Alleviation of Rural Areas"

Fitri Arofati

Universitas Muhammadiyah Yogyakarta, Indonesia "Continuing Professional Development of Practicing Nurses in Indonesia"

Tri Wahyuliati

Universitas Muhammadiyah Yogyakarta, Indonesia "Diabetic Neuropathy - A Chance Towards A Better Treatment"

Mohammad Khalid Ashfaq_

University of Mississippi, USA "Natural Products –Use or Misuse"

Muhammad Mukhtar

American University of Ras Al Khaimah, United Arab Emirates "Emerging Biotechnologies and Genomic Medicines in Human Health and Well-Being"

Muhammad Sasmito Djati

Brawijaya University Malang, Indonesia

"Herbal Medicine a Holistic Approach: in case of food supplement formulation of Sauropusandrogynus and Elephantopusscaberto modulate immune and hormonal system in pregnant Salmonella typhi infected mice"

REVIEWER

- 1. Dr. Zahid Igbal, Ph.D (Isra University, Islamabad, Pakistan)
- 2. Prof. Dr. Abdul Khaliq (University of Agriculture, Faisalabad)
- 3. Dr. Mohammad Khalid Ashfaq, DVM, DTVM, MS, Ph.D (University of Mississippi, USA)
- 4. Dr. Muhammad Mukhtar, Ph.D (American University of Ras Al Khaimah, United Arab Emirates)
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- 19. Dra. Lilis Suryani, M.Kes (Universitas Muhammadiyah Yogyakarta, Indonesia)
- 20. Drh. Tri Wulandari K, M.Kes (Universitas Muhammadiyah Yogyakarta, Indonesia)
- 21. Dr. dr. Wiwik Kusumawati, M.Kes (Universitas Muhammadiyah Yogyakarta, Indonesia)
- 22. Sabtanti Harimurti, S.Si., M.Sc., Ph.D., Apt. (Universitas Muhammadiyah Yogyakarta, Indonesia)

SPEAKER OF INTERNATIONAL CONFERENCE

ICMHS-P-1-27

Assessment of Interprofessional Communication and Collaboration: Using Multi Methods

Sri Sundari

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Abstract

IPE is meant to instill the knowledge, skills, attitudes and values necessary for interdependent collaboration and teamwork with a focus on the efficient delivery of high quality patient centered care. The link between IPE and equipping students in healthcare for collaborative practice has been made for several years. The aimed of this study to examine appropriate methods for the assessment of interprofessional learning communication skills and collaborative for clinical students of medicine. dentistry, and nursing who practice collaboration interprofessi. Design of this study is using quantitative method. During September – October 2014, 25 medical students, 20 community nursing and 16 dentistry students in the clinical rotation Faculty of Medicine and Health Science UMY involved in the implementation of a program of interprofessional collaboration. All students will undergo an IPE learning for 1 week. Students will be divided into several groups, and each group consisting of students from 3 courses. The teaching learning process of IPE is using bed site teaching, tutoring, case reflection, and case presentation. Each learning process will consist of an assessment of the clinical tutorials, case presentations, case reflection. Communication and collaboration capabilities are assessed when students do bed site teaching, tutorial and presentation of clinical cases using checklist. The results of the statistical analysis showed that the tutorial score is a significant difference between medicine and dentistry students (p<0,05), medicine and nursing students (p<0,05), while no significant difference between dentistry and nursing students (p>0,05). The score of the case presentation is significantly different between medica and dentistry students (p<0,05), medical and nursing students (p<0,05), while no significant different between dentistry and nursing students (p>0,05). Medical student case reflections score is significantly different from the score of nursing student (p<0,05), but not different between medical and dentistry students (p>0,05). The final grades were significantly difference between medical and the nursing students (p<0,05), as well as between nursing and dentistry students. The conclusion of this study d showed that different needs, competencies led to different designs for educational assessment. Using many varied methods of evaluation will be assess many competencies of the students.

Keywords: assessment, interprofessional communication, collaboration.

INTRODUCTION

Undergraduate medical, nursing, and dentistry education should enable the development of communication and team working skills and reflective practice, which should be assessed and continued into professional practice. This study aimed to examine appropriate methods for the assessment of interprofessional learning communication skills and collaborative for undergraduate students in Family Medicine. Community Nursing and Dentistry to involve in this process

MATERIALS AND METHODS

During September - October 2014, 25 medical students, 20 community nursing and 16 dentistry students in the clinical rotation faculty of Medicine and health science UMY involved in the implementation of a program of interprofessional learning and assessment. All students will undergo an IPE learning for 1 week. Students will be divided into several groups, and each group consisted of three students from the course. The teaching learning process of IPE is using Bed site teaching, tutoring, case reflection and case presentation. Bed site teaching process will be implemented in collaboration between the profession and mentored by faculty from all of the courses involved. Each learning process will consist of an assessment of the clinical tutorials, case presentations, case reflection, and MCQ exams. Bed site teaching used to give the formative assessment (feedback) for the student. And MCQ are an assessment methods were used to explore the potential to develop common activities and standards for all professions.

In the tutorial given assessment using a Likert scale. Each component is assessed in each learning process can be shown there is table 1. Final grades of students consisted of 40% of the tutorials score, 30% of the score of MCQ, 20% of the score of case presentation, and 10% of the score of case reflection. Students pass if the final score ≥ 60. Quantitative data were analyzed using SPSS 17.

Table 1. The	methods	and Compo	nents of	nniaaaaaa
Iable I. IIIe	IIIELIIUUS	and Comb	ノロモロしろ ひに	assessiliu.

No	Method	Components	Score	
1	Bed Site Teaching	Basic clinical skills a. History taking and Physical examination b. Pharmacoteraphy assessment Selection of investigation and Decision making Management	Feedback (Formative assessment)	
2	Clinical Tutorial	 Ability of expression / presentation Ability of analysis (consistent with the role of the profession) Ability to communicate arguments 	60 - 80	
3	Case Presentation	 Ability settlement of disagreements with other professions Value the opinions of other professions and joint decision The ability of systematic organization of the material, solid and clear. The ability to present a systematic, concise and clearly both in writing and oral The ability to discuss important matters relating to the issues suffered by the patient, 	60 - 80	
4	Case Reflection	 including Clinical reasoning, and explained based on EBM. 1. The ability of systematic Organization of the material, solid and clear. 2. Ability to evaluate, analyze and summarize the problem based on the best evidence. 3. The ability to plan follow up. 	60-80	

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RESULTS

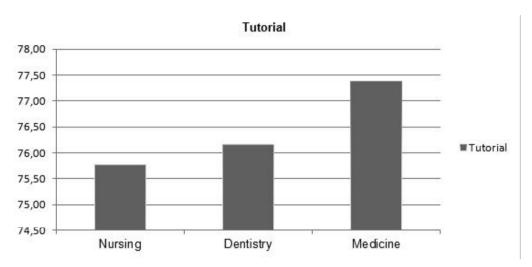


Figure 1. The Average of Tutorial Score of Each Profession

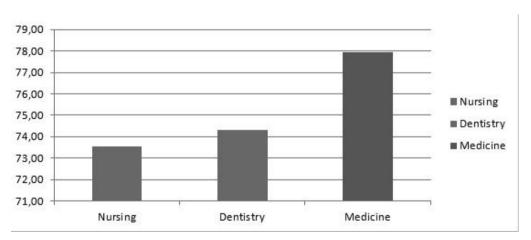


Figure 2. The Average of Case Presentation Score of Each Profession

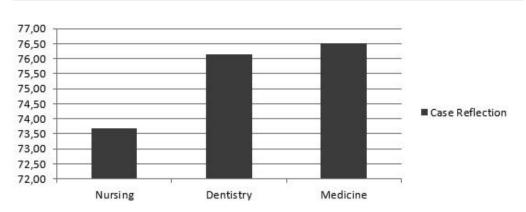


Figure 3. The Average of Case Reflection Score of Each Profession

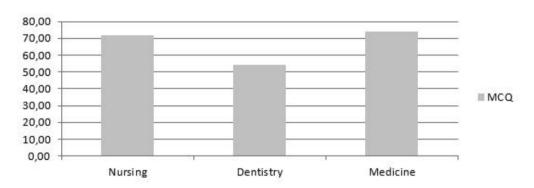


Figure 4. The Average of MCQ Score of Each Profession

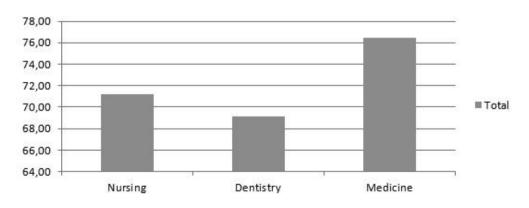


Figure 5. The Average of Final Grade Score of Each Profession

DISCUSSION

All students respond positively to the learning IPE. The results showed that medical school students had the highest score on the tutorials, MCQ and final score The results of the statistical analysis showed that the tutorial score is a significant difference between students of medicine and dentistry students and nursing students (p<0,05), while between dentistry students and nursing students no significant difference (p>0.05). The score of the case presentation is significantly different between medical students and dentistry and nursing (p<0,05), while the score of student case presentations dentistry and nursing is no different (p>0,05). Medical student case reflections score is significantly different from the score of nursing student (p<0,05), but not different from the score of case reflection of dentistry (p>0,05). MCQ scores of medical students did not different with the score of MCQ score of nursing students (P, 0,05), but differ significantly with dentistry students (p>0,05). The final grades were significantly difference between medical students with final grades nursing students (p<0,05), as well as between nursing students with dentistry students. There are many method of assessment that are used to asses communication and collaboration competenecy in Faculty of Medicine and Health Science of UMY. All of the methods showed the result of score of the student's competency consistently. Using many varied methods of evaluation will be many competencies that can assess.

CONCLUSION

Interprofessional education can provide rich teaching and learning opportunities for students in a variety of health care disciplines. Medical students have the highest score in all competencies than other health disciplines. Different needs, competencies led to different designs for educational assessment. Using a combined method of assessment allowed for a richer understanding of the needs of these distinct learner groups, prompting further investigation.

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