



4th

**IIUM
DENTAL STUDENTS
SCIENTIFIC CONFERENCE
2015**

**Evidence Based Dentistry..
The Way Forward
16 March 2015**



PROGRAMME

4th IIUM Dental Students' Scientific Conference
The Evidence Based Dentistry... The Way Forward

Time	Event	
08.30 – 09.00	Registration	
09.00 - 09.30	Arrival of Deans and Guest of Honour	
09.30 - 09.40	NEGARAKU, IIUM song and Recitation of Do'a	
09.40 - 09.50	Welcoming Speech by the Chairperson of Organizing Committee 4 th IIUM Dental Students' Scientific Conference 2015	
09.50 – 10.00	Opening Remarks by YBhg. Prof. Dato' Sri Dr. Zaleha Kamaruddin Rector, IIUM	
10.00 – 10.10	Opening Ceremony	
10.10 - 10.30	Dental Students' Performance	
10.30 – 10.45	Coffee Break	
10.45 – 12.30	Oral Presentation (6 groups)	Poster Presentation (6 groups)
12.30 – 14.00	Lunch and Poster Viewing	
14.00 – 15.30	Oral Presentation (5 groups)	Poster Presentation (4 groups)
15.30 –16.15	Judges Meeting and Colgate Scientific Programme	
16.15 – 16.45	Closing Ceremony and Award Giving	
16.45	Tea Break	



LIST OF ORAL PRESENTATIONS

NO.	TITLE
01	Rapid Detection of Porcine and Bovine Gelatins in Dental Prophylaxis Pastes Using Fourier Transform Infrared Spectroscopy Noor Ashikin Bt Tajudin, Nur Fatin Bt Abd Aziz, Widya Lestari, Yunita Dewi Ardini
02	The Awareness of the Risk of Sharps Injuries among Dental Students and Auxiliaries Roseniati Rosdi, Siti Suhailah Zakaria, Wan Nabilah Wan Mohd Anuar, Hikmah Mohd Nor, Haszelini Hassan, Thida Cho
03	The Relationship between Tooth Loss and Hypertension in Postmenopausal Female Patients Attending Polyclinic, Kulliyah of Dentistry, IIUM Aishah Badiah Azni, Ezatul Fariha Zakaria, Farah Izzati Azmi, Basma Ezzat Mustafa Al-Ahmad, Muhammad Ali Kashmoola, Nazih Shaaban
04	Prevalence of MB2 Canal in Mesio Buccal Root of Permanent Maxillary First Molar in Malay Population Mohamad Sufi Bin Soleh, Raja Mohamed Zulzaim Bin Raja Husni, Shamsul Anuar Bin Samsudin, Kais Raad Abdul Majeed, Nazih Shaban Mustafa
05	The Prevalence, Length and Position of Anterior Loop of Inferior Alveolar Nerve: A Retrospective Study Using CBCT Nur Athiah Binti Shaberi, Nur Hasnaa Binti Hishamudin, Nur Aqila Syaquina Binti Zuber, Haszelini Hassan, Hikmah Mohd Nor
06	Depression, Anxiety and Stress among Undergraduate Students in IIUM, Kuantan Campus Farizah Ramli, Hannah Abdul Razak, Noor Aisyah Sajuni, Munirah Yaacob, Nor Asilah Harun
07	The Relationship between Diabetes Mellitus, Periodontal Health Status and Dental Caries Nur Izzati Najwa Ramli, Syarifah Nur Izzati Alkaff Syed Mohamad Nadzir Alkaff, Ghasak Ghazi Faisal, Lina Hilal Al-Bayati
08	Antimicrobial Activity of Sodium Hypochloride and Chlorhexidine as Root Canal Irrigants on <i>Enterococcus faecalis</i>: An <i>in vitro</i> Study Nurhazimah Hanun Bt Hanafi, Najibah Bt Mohammad Kazmin, Naazira Bt Jalanni, Wai Minn Sann, Lina Hilal Al-Bayati, Basma Ezzat Mustafa
09	The Effect of Different Oral Hygiene Regimes on Thin Gingival Biotype Mariah Mohd Hamzah, Su'aidah Aisyah Md Yusoff, Umami Nabilah Said, Wisam A. Kamil
10	Complete Edentulism in Relation to Socioeconomic Status of Patients Receiving Prosthodontics Treatment at Kulliyah of Dentistry, IIUM Mohamad Haniff Mohd Borhan, Khadijah Nabilah Ahmad, Farahah Mohamad Asri, Wan Azila Wan Hamat, Zurainie Abllah
11	Comparison between the Antibacterial Effect of White Tea and Black Tea Extracts on <i>Streptococcus Mutans</i> and <i>Streptococcus Sobrinus</i> Nurul Akmal, Siti Fatimah, Anisa Kusumawardani, Solachuddin J. A Ichwan



The Relationship between Diabetes Mellitus, Periodontal Health Status and Dental Caries

Nur Izzati Najwa Ramli¹, Syarifah Nur Izzati Alkaff Syed Mohamad Nadzir Alkaff^d, Ghasak Ghazi Faisal², Lina Hilal Al-Bayati³

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Objectives: To study the relationship between diabetes mellitus, periodontal health status and dental caries.

Materials and methods: A case-control study involving 42 type II diabetic patients and 42 non-diabetic patients was conducted at Polyclinic, Kulliyah of Dentistry, International Islamic University Malaysia. Their decay, missing, filling, total scores (DMFT) and full mouth periodontal parameters were recorded. Patients' sociodemographic background was obtained and diabetic profile was assessed.

Results: The percentage of diabetic patients that were diagnosed with periodontitis was 88.1% compared to 59.5% in the control group and it was statistically significant ($p < 0.05$). In comparing periodontitis in both groups, the bleeding on probing (BOP) and pocket depth (PD) showed no significant difference ($p > 0.05$) while the clinical attachment loss (CAL) showed significant difference ($p < 0.05$). The mean values for decay, missing and filled teeth in the diabetic group were 2.24(± 1.94), 8.52(± 6.13) and 3.76(± 2.79) respectively, while in the control group were 1.83(± 1.92), 4.79(± 3.8) and 2.79(± 2.76) respectively. Among all three mean values, missing teeth was the only one that showed significant difference ($p < 0.05$). However, the total DMFT score between the two groups showed statistically significant results ($p < 0.05$). Among the diabetic patients, there was no significant difference between those with high random blood glucose level and those with normal level in terms of the periodontal parameters and DMFT.

Conclusion: Diabetes mellitus negatively affects oral health as reflected by the higher DMFT scores in diabetic patients. There was also a greater prevalence and severity of periodontitis in diabetic subjects than in nondiabetics.

Keywords: *diabetes mellitus, bleeding on probing, pocket depth, clinical attachment loss, DMFT.*



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Certificate of Attendance

is presented to

ASST. PROF. DR. GHASAK GHAZI FAISAL

for serving as a Supervisor

in the

4th IIUM Dental Students' Scientific Conference

"The Evidence Based Dentistry... The Way Forward"

held on 16 March 2015

Assoc. Prof. Dr. Muhannad Ali Kashmoola
Dean Kulliyah of Dentistry

Asst. Prof. Dr. Lina Hilal Al-Bayati
Chairman

*Kulliyah of Dentistry, International Islamic University Malaysia
Kuantan Campus, Pahang Darul Makmur*