9th ANNUAL SCIENTIFIC SYMPOSIUM 2019
First MEDICAL EDUCATION CONFERENCE
AMEER UD DIN MEDICAL COLLEGE
PGMI/LAHORE GENERAL HOSPITAL, LAHORE

Challenges of Evidence Based Practices in local Context

26th - 27th - 28th February 2019

Workshops
Poster Presentation

Scientific Papers
State of the Art Lectures

Symposium Venue
PINS Auditorium 5th Floor,
LAHORE GENERAL HOSPITAL,
LAHORE

patron & chairman
Prof. Muhammad Tayyab
Principal
PGMI/AMC/LAHORE GENERAL HOSPITAL, LAHORE

Organizing secretary
Prof. Agha Shabbir Ali
Head of Pediatric Department
PGMI/AMC/LAHORE GENERAL HOSPITAL, LAHORE
3rd SCIENTIFIC SESSION. 11:30 1:50
CHIEF GUEST: PROF. FARRUKH ZAMAN
GUEST OF HONOR: PROF. IMRAN AKRAM SAHAF
CHAIRMAN: PROF. KHALID BASHIR
MODERATOR: PROF. NAJAM UL HUSSAIN

STATE OF THE ART LECTURE: 11:30-12:00
Late Dr. M. Arshad Chohan Memorial Lecture
Prof. Dr. Naveed Aslam (Professor of ENT Shiekh Zayed Medical College & PGMI FEDERAL)

<table>
<thead>
<tr>
<th>TIME</th>
<th>TOPIC</th>
<th>SPEAKER</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00-12:10</td>
<td>Validation of Replacement of Transient Elastography (Fibro Scan) With Combination of Cheap And Readily Available Biomarkers And Development Of Novel Fibrosis Index (NFI).</td>
<td>Azher Hussain 3rd year MBBS student</td>
</tr>
<tr>
<td>12:10-12:20</td>
<td>Outcome of Open Septorhinoplasty among Patients with Nasal Obstruction and External Nasal Deformity</td>
<td>Dr. Faiza Bajwa ENT Unit I</td>
</tr>
<tr>
<td>12:20-12:30</td>
<td>Comparative study of Desarda vs Lichtenstein for indirect inguinal hernia repair</td>
<td>Dr. Basharat Nazir (Surgical Unit III)</td>
</tr>
<tr>
<td>12:30-12:40</td>
<td>Efficacy of safety of intra-lesional 5-fluorouracil in treatment of warts</td>
<td>Dr. Mehwish Khan (Dermatology)</td>
</tr>
<tr>
<td>12:40-12:50</td>
<td>Comparison of early fixation in in Schatzkers type V, VI Tibial fractures with &amp; without closed fasciotomy</td>
<td>Dr. M. Sheraz Malik (Orthopedic &amp; Spine Surgery)</td>
</tr>
<tr>
<td>12:50-1:00</td>
<td>Variants in Chronic Myeloid Leukemia: Patients analysis of breakpoint cluster region Abelson oncogene</td>
<td>Dr. Ghazala Rubi (Research Department)</td>
</tr>
<tr>
<td>01:00-01:10</td>
<td>Frequency of negative symptoms of schizophrenia admitted in Punjab institute of mental health</td>
<td>Dr. Nazish Naseem (Psychiatry)</td>
</tr>
<tr>
<td>01:10-01:20</td>
<td>Comparison of Frequency of surgical site infection in sub-cutaneous closure versus on closure undergoing elective caesarean section at term</td>
<td>Dr. Aisha Riyaaz (Gynecology unit III)</td>
</tr>
<tr>
<td>01:20-01:30</td>
<td>Protective Effect of Flaxseeds (Powdered Form) On Hepatotoxicity Induced By Triazophos (Pesticide)</td>
<td>Dr. Arooj (Anatomy)</td>
</tr>
<tr>
<td>01:30-01:40</td>
<td>Knowledge and Attitude of Postgraduate Trainees towards learning Communication Skills</td>
<td>Dr. Saqib Butt (Deptt of Medical Edu)</td>
</tr>
<tr>
<td>01:40-01:50</td>
<td>Polymicrobial interactions between s. mitis, S. sanguinis &amp; oral associated C. albicans</td>
<td>Dr. Ayesha Fahim (Oral Biology)</td>
</tr>
</tbody>
</table>

FREE PAPERS: 10
PANEL OF EXPERTS-BEST PAPER AWARD
Polymicrobial interactions between Streptococcus mitis, Streptococcus sanguinis and oral associated Candida albicans on an in vitro salivary biofilm

Ayesha Fahim, Wan Harun Himratul-Aznita & Puteri Shafinaz Abdul Rahman

ABSTRACT

Background and objective: Interactions between oral microorganisms contribute to formation of polymicrobial communities on surfaces and prosthetics. Since streptococci are early colonizers, the ability of Candida albicans to adhere to streptococci paves the way for an additional surface for candidal colonization and propagation. This study aimed to investigate the molecular response of C. albicans to two species of streptococci, i.e. Streptococcus mitis and Streptococcus sanguinis in in vitro salivary biofilms.

Methodology: Single, dual and mixed species salivary biofilms were formed for 24 h. Biofilm biomass and cellular metabolic activity of microbial species were assessed by crystal violet (CV) staining and XTT reduction assay, respectively, followed by scanning electron microscopy. ALS1, ALS2 and ALS3 genes were screened and quantified using qPCR.

Result: CV and XTT analysis showed a significant increase in biofilm biomass and cellular metabolic activity of two dual species and mixed species in comparison to single species biofilm. SEM analysis revealed formation of candidal hyphae under influence of streptococci. ALS1 and ALS3 were significantly overexpressed in a mixed species biofilm, in comparison to dual species and single species biofilms.

Conclusion: Presence of S. mitis and S. sanguinis assisted in the proliferation of C. albicans which may augment tissue invasion. This study proposes substantial contribution of bacteria in propagation of C. albicans biofilm. Hence, in oral fungal conditions, promotion of the infection may be contingent upon the bacterial constituent, a prospect which is frequently neglected and requires more research.