

UHS International Dental Conference

(Completely Virtual due to COVID-19)

27th – 29th November, 2020

University of Health Sciences Lahore
Redefining Trends in Dentistry

Message of the Honourable President, Islamic Republic of Pakistan

I congratulate University of Health Sciences Lahore on organizing Second UHS International Dental Conference, with the theme "Redefining Trends in Dentistry". Last year, I had the privilege to inaugurate the first UHS conference. Being a dentist myself, the theme is close to my heart and I am sure three inspiring days of the conference with interesting sessions in the various fields of dentistry will help in enhancing the insight of subject.

Today, the globalization of knowledge is no longer a trend but a priority for institutions and research centers, allowing knowledge to be shared by all and making technology available to all professionals. All these factors have a positive impact on Dentistry as well and will provide evolution of techniques and procedures thus improving quality of life of our patients.

I am sure this conference will define a pathway for dental professionals interested in improving their technical abilities by the means of using fascinating new research.

Oral health is an integral part of general health and wellbeing and a basic human right. The good news is that oral diseases are preventable and considerable improvements can be made if appropriate public health programmes are established. Conferences such as this one support the development of the evidence base in health promotion and disease prevention through research and support the international dissemination of research findings.

During this conference, participants will be having the opportunity to share experiences with colleagues from all over Pakistan. Once again my heartiest felicitations to the organizers of the conference. I wish them all the success.

Message of the Honourable Governor Punjab, Chancellor UHS

I extend warm congratulations to the Organizers, the Vice Chancellor, University of Health Sciences Lahore, on organizing their Second UHS International Dental Conference with the theme of "Redefining Trends in Dentistry".

These are the times, especially in the wake of COVID-19, when Pakistan has shifted its focus on the development and upgradation of health sector both in the field of higher education and research, as well as delivery of quality health care to masses. With the help of institutions like University of Health Sciences Lahore, the Government has been endeavoring to raise the standards of higher education in the field of Clinical and Allied Health Sciences. The need of the hour is to focus on research and innovation, besides strengthening the regulatory and pedagogical activities.

The medical profession offers immense opportunities to serve the humanity being one of the noblest professions ever undertaken in the history of mankind and its role is critical for building a healthy Nation. On this occasion, I would urge upon the dental professionals to learn and then serve the sick and the ailing with commitment, motivation and dedication. I am sanguine that the University of Health Sciences Lahore will continue scaling new heights in the field of professional excellence.

I welcome all the participants, especially our friends from abroad who would join this Conference online, and wish you all a very successful and fruitful Virtual Conference.

Message of the Chairman, Board of Governors, University of Health Sciences

I am pleased to extend my warm felicitations to the Vice Chancellor, University of Health Sciences Lahore, Vice Chancellor and the organizers on organizing Second UHS International Dental Conference. The first conference held last year was a great success. Such events reflect on the maturity and performance of an educational institution.

While making budgetary allocations, governments generally give a rather modest share to dentistry as compared to classical medical specialties. A big chunk of money goes to specialties that treat life threatening diseases. This has a rationale as one cannot live without a heart, an uncured cancer and other serious diseases. However now there is now a greater understanding of the correlation between periodontal diseases not only with cardiovascular diseases but also even with stroke. There is a worldwide growing evidence that every year hundreds and thousands of people die because of infections that originate in their teeth. There is now a global recognition of the crucial role of dentistry in public health. The holding of such international moots is symptomatic of this realization.

In keeping with its dynamic approach, the University of Health Sciences Lahore is playing an important role by organizing such events in order to keep up with these advancements by upgrading curricula, enhancing skills, improving teaching and learning methodologies, fostering research and setting standards keeping in view the international best practices.

The theme of this year's conference is "Redefining Trends in Dentistry" whereas the scientific program will attempt to cover the latest in various dental specialties. World-leading oral health practitioners, clinicians, educators and researchers will present cutting-edge and practical clinical techniques based upon scientific evidence and will introduce new and emerging research.

I once again extend my felicitations to the Organizing Committee and hope the conference will come up with recommendations to bring the much needed change to improve dental education and practice in the country.

Message of the Vice Chancellor University of Health Sciences

It gives me great pleasure, on behalf of the Organizing Committee of the Second UHS International Dental Conference, to welcome you to this year's conference which will be held from 27th – 29th November, 2020, under the theme "Redefining Trends in Dentistry". We are going virtual this time due to Covid-19.

The aim of our conferences has always been to enrich the field of dentistry in the country and the region with all this new scientific research and treatment methods and modern techniques to help all those working in this evolving field to develop, to sharpen their craft and add artistry to their practice.

We also aim to exchange experiences by attracting leading speakers from abroad and from within the country. The organizing committee is always keen to attract dynamic thought-leaders and change-makers from Asia, America, Europe, Arab States, and Pakistan as well.

As a conference chair, I want to extend my sincere thanks to the speakers and heads of associations who responded to our invitations, to our corporate sponsors.

I know that the success of the conference depends ultimately on the many people who have worked extremely hard for the details of important aspects of the conference programs and social activities. I want to thank our sponsors and partners; without their support it would not be possible.

I once again welcome all at this virtual academic moot.

Past, Present and Future of Dentistry in Pakistan Ex-Principal de'Montmorency College of Dentistry Lahore

Past: This article is a reflection of my experience in Dentistry while holding various positions in the premier dental institutions of Pakistan. I have had the experience of being a student of the same college I had been the Principal of de 'Mont college of dentistry in Lahore. A comprehensive analysis is not possible in this article but my gist of the past present and future of dental care in Pakistan is being shared for this International conference being held in Nov 2020. A look back can illuminate how these decades met the shifting perceptions of the dental workforce.

In the past, there used to be just one dental institution i.e. de Montmorency College of Dentistry at Lahore. Later dental sections were established with Khyber Medical College at Peshawar, Liaquat Medical College Hyderabad, and Nishtar Medical College in Multan. The first private dental college was established at Baqai Medical University in Karachi in 1992. During the last two decades, we have seen a rapid growth of medical and dental colleges in the public as well as the private

sector. Most of the medical universities as well as private medical colleges have now also established dental colleges.

With the rapid demand for dental care and the dental profession was recognized as a progressive profession, there has been a tremendous increase of dental institutions, equipped with the modern scientific advancement in dental treatment and care.

Dentistry of today: Currently, there are fifty-five dental schools in Pakistan both in the public and private sector of which twenty-six are in Punjab, eighteen in Sindh, ten in KPK, and one in Baluchistan.

A critical look at the dental literature reveals that despite numerous hardships and hurdles, dentistry has made tremendous progress over the last few decades, and now it has numerous sub-specialties functioning not only overseas but also in Pakistan.

In Pakistan, CPSP now offers Fellowship in five dental

sub-specialties which include Operative Dentistry, Oral and Maxillofacial Surgery, Orthodontics, Periodontology, and Prosthodontics. Now PM&DC has been replaced with Pakistan Medical Commission (PMC), which hopefully should give due importance to Dentistry. Scientific technology in dental manufacturing of dental equipment and dental instruments, similarly the biomaterial used in dentistry have also been updated

Future: To meet the new challenges ahead, we need to consider the importance of digital dentistry and using digital equipment such as intra-oral scanners, lab-scanners, CAD-CAM software, milling machines, and 3D-printers, to enable a precise accurate & smoother workflow, reduced cost, and time, improved accuracy and a high level of predictability. The digital era is simply here to stay, to bring revolution in the field of Dentistry.

Over the next five years, even greater changes are expected.

The diagnostic techniques and surgical technologies required for implant placement will make the process so predictable that most general practitioners will choose to embrace the procedure rather than send it out to specialists. Dentists will not only take impressions optically but will utilize 3-D modeling and printing to create the required shade-matched crowns and bridges within minutes right in the practice.

Re-mineralizing and regenerative restorative materials will build nature-mimicking structures that closely resemble natural teeth. A variety of systemic diseases will be treated orally by the dental practitioner.

The past hundred years have demonstrated a rapid transition in dental technology and an even more rapid development of dental materials. The past two decades have offered quantum leaps in the restoration of oral health, function, and aesthetics. By simple extrapolation, the future is golden for the dental profession. It is an exciting time to be a dentist.

COVID-19 and Infection Control in Dental Practices: The New Normal Dean, Institute of Advanced Dental Sciences & Research

Dentistry, has forever been striving for improved oral healthcare for the populations it serves; from technological advances to infection control. The profession has always been classified in the high risk category because of the close contact between the treating dentist and the patient. The potential risk of cross infection from a dental practice has been the area of concern; leading to ever improving infection control protocols in the dental surgery environment.

Infection prevention and control has, however, been haunting dentistry as a profession, globally, for almost half a century. Dentists qualifying in the 1970s and 80's were trained as "wet handed" dentists; then came HIV and Hepatitis B and C; demanding the profession to take precautionary measures against blood borne diseases in the 1990s. Being an aerosol producing industry, dentistry took further precautions such as routine use of masks and facial screens to be included in Standard Infection Control protocols.

The year 2020 saw the world coming to a screeching halt in response to COVID-19 pandemic. Everyone sheltered in safe places, waiting for the storm to pass. Fortunately, the first

phase of the COVID-19 pandemic is behind us now. Life is slowly coming back to normal, the new normal; it will be a long time, if ever, before we can get back to our old ways, as is evident by the new wave of the epidemic around the world.

The way dentistry was being practiced has also changed; maybe forever. Now the profession has to take precautions, not only against blood borne disease but also against air borne diseases and contact contamination. The present time demands, precautions, more stringent than the operation theatre protocols; members of the dental profession, must adhere to the new normal in the best ways they can.

However, during the recent pandemic it was observed, that although Government of Pakistan issued National Guidelines for Provision of Dental Care Services during COVID-19. All (100%) Teaching Dental Hospitals (Public Sector (11); Private Sector (41)); practically remained closed; while the Public Sector Dental Clinics in RHCs (584); Government Hospitals (1,279) were working on 10% capacity on AAA Model (Advise, Antibiotics, Analgesics). However, 70% of the facilities in the Private Sector (Estimated to be over 9,500) were working as usual some with extra precautions (PPE, Face shields,

goggles, etc); others without. Such situation demands concentrated efforts on the part of government to enhance the capacity of the dental practices before allowing them to work.

The challenge, today, is to create awareness and to train / retrain the present generation of the dental professionals (dentists, dental assistants and ancillary staff) to improve upon the existing standard operating protocols (SOPs) in compliance with the recommendations of infection authorities worldwide. Dental practices need to be upgraded at all levels; and at a very fast pace. This up-gradation includes capacity building of the personnel; improvement in infrastructure; and a focus of infection control protocols.

It is proposed to launch a comprehensive hybrid (online plus hands-on sessions) COVID-19 Course on Infection Control in Dental Practices of Pakistan. The trainings may be offered from a national platform to ensure standardization. It is envisaged that if launched timely in an organized manner and launched in all provinces simultaneously; more than 1,500 dental personnel could be trained every month. It may be considered to include this program as part of the ongoing

Asian Development Bank Project for Capacity Building of Disaster Management Institutions.

Along with the capacity building of personnel; government may consider dental practices as a priority industry for loans in line with its policy to support COVID effected industries. This support may be used in up-gradation of infrastructure to be able to implement infection control protocols, as per the new normal.

Once this is done the healthcare regulatory authorities could initiate inspections, licensing and certifications of dental practices to ensure the populations are not at risk at the dental practices.

Lack of appropriate infection controls in dental practices could be no less than a national disaster.

About Author: Author is a Dean & CEO of Institute of Advanced Dental Sciences & Research (Pvt) Ltd. (IADSR) that has been working on raising awareness and capacity building on oral health issues in the country for two decades. One of its priority areas has been Infection Prevention and control in Dental Practices of Pakistan.

UHS- Connecting Pakistani Dentistry to the Globe through Virtual Dental Conference | Conference Secretary

The University of Health Sciences Lahore (UHS) strives to bring innovation, revolution and trends in education and academic delivery since its inception in 2002 till date. In lies its brief history, a long story of struggles and successes in bringing quality in dental and medical education system. In October 2019, under the vision and leadership of Vice Chancellor UHS, the University took the initiative of hosting its flagship dental conference that was inaugurated by the President of Pakistan, and opening ceremony was attended by the first lady of Pakistan, Provincial minister for Health, Special Advisor to Prime Minister on health, along with ambassador of State of Palestine, high commissioner of Sri Lanka, foreign delegates across the world and eminent national dental professionals and led to promotion of a soft image of dentistry of Pakistan to the international audience. This flagship UHS dental conference in 2019 also started innovative concepts such as inception of dental art competitions at Pakistani dental conferences.

We envision that through bridging and connectivity we can bring forward the dental profession, our talented dental clinicians, dental academicians, dental researchers and allied dental professionals to a broader forefront and limelight dentistry of Pakistan to a national and international audience. In line with this vision and as per commitment of the Vice-Chancellor University of Health Sciences Lahore, towards dental profession and dental education, the university is organizing its 2nd international conference

from 27th -29th November 2020. This is an online/ virtual based conference and all plenary scientific sessions will be online live-streamed to national and international audience of the conference. The presentations will be on various areas of general dentistry and on educational leadership strategies during the COVID-19 times. Fourteen online international speakers will be presenting their latest work and sharing experiences with the audience across the globe and within Pakistan through these live-streamed online sessions, along with many online eminent Pakistani dental professionals. Through collaborative efforts our organizing committee is spread throughout Pakistan. UHS is extremely thankful to the leadership of all dental educational institutes of Pakistan that have extended their hands and collaborated with us for promoting and strengthening dentistry of Pakistan. This reflects the trust and bonding that UHS has developed with dental institutions throughout Pakistan.

As the world struggles fighting and controlling COVID-19 disease, such difficult times have been valuable and precious for the human race to rise above the challenge and create history through scientific discoveries, inventions and innovations. Thus these times also lead us in UHS to develop strategies that would create opportunities to all Pakistani dental professionals and dental institutes to rise above any challenge. Therefore, for UHS, this is the first virtual-based conference ever hosted by the University and

we used this opportunity to bring out newer trends to dental conferences held in Pakistan. Hence the 2nd UHS-International Dental Conference is the first Pakistani dental conference that has credit hours approved nationally but also internationally. The Turkish Dental Association & Sri Lankan Dental Association has also given their consent to approve CPD hours for their international online delegates. Had it not been for COVID-19 situation due to which we are organizing an online conference, we may have never thought of outreaching internationally for such collaborations.

We at UHS have accessed those international speakers for online presentations whose majority may not visit Pakistan due to their heavy commitments and busy schedules. Thus in this dental conference, almost all the international speakers are presenting either for the first time in a Pakistani dental conference or exclusively just for UHS dental conference. Majority of the speakers belong to the United Kingdom along with those from Saudi Arabia, Canada, New Zealand, Malaysia, Palestine, Hong Kong, Turkey and France. Organizing an online conference has also given us an opportunity to reach out to overseas Pakistani and non-Pakistani dentists and hence through this we have been successful in providing conference access to dental professionals from all over the world. We encourage and welcome all overseas Pakistani dentists to register for this online conference and support Pakistani dental

conferences.

Nothing stayed impossible when our collaborative dental institutes came forward to hold our hands in organizing workshops for the conference. Thus we are extremely thankful to all the principals of the dental colleges that had supported us in organizing this conference. I am grateful to all professors, the dental colleges of Pakistan that helped us in promoting our conference message and all the coordinators that were part of this process. For the first time in a Pakistani dental conference, an international collaborative pre-conference workshop was held in Palestine. The virtual opening session will be held as live-streamed online to all the conference participants. From 28-29th November, 2020, three main plenary online scientific sessions will be live streamed to all the conference participants. Pre-conference online oral presentations competitions and online poster presentation competitions for faculty, undergraduate, house officers and postgraduate dental students will be held. A special memorial award for Prof Sultan Zeb Khan, who passed away due to COVID-19 earlier this month is also been given to best online oral presenter.

I welcome all delegates of this conference to a newer trend in dentistry by linking online with UHS through the 2nd UHS-international dental conference, enjoy and happy learning!

Redefining Trends in Dentistry

DENTAL CONFERENCE



Professor Martyn Cobourne
Professor of Orthodontic & Honorary Consultant, Guy's Hospital, Kings College London
United Kingdom



Professor Margery McMahon
Head of School of Education, Professor of Educational Leadership (Educational Leadership & Policy), University of Glasgow, UK
United Kingdom



Dr. Andrew Edwards
Dean Faculty of Dental Surgery, Royal College of Physicians and Surgeons of Glasgow Vice President (Dental) Royal College of Physicians and Surgeons of Glasgow
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Professor Tara Renton
Chair & Professor of Oral Surgery, Guy's Hospital King's College London, UK
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Prof. Paul Anderson
Professor of Oral Biology & Director of Graduate Studies Queen Mary University, London
United Kingdom



Dr. Mohamed M. Al-Eraky
Assistant Professor of Medical Education, Director of Academic Initiatives, Imam Abdulrahman Bin Faisal University
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Dr. Ahmad Al-Hassiny
Digital Dentist KOL & CAD-CAM Specialist Founder & Director Institute of Digital Dentistry
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Dr. Ghassan Habash
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Assistant Professor of Periodontology & Director, Graduate Periodontics Program, Department of Clinical Dental Sciences, Faculty of Dentistry, Dalhousie University
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Prof. Ling John Yu Kong
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Dr. Asma Tufail
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Prof. Shahjahan Katpar
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Dr. Afeef Umar Zia
Associate Professor & Head, Department of Orthodontics, Margalla Institute of Health Sciences
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Prof. Shahid Mahmood
Prof of Restorative Dentistry Prince Sattam Bin Abdul Aziz University ALKharij
Saudi Arabia



Professor M. Farhan Raza Khan
Head of Clinical Dentistry, Agha Khan Medical University Hospital, Karachi
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SPEAKERS for 2nd UHS-International Dental Conference

Highlights of the UHS-International Dental Conference

- First online (virtual) conference organized by UHS
- First Pakistani dental conference with approved national and international CPD hours
- First Pakistani dental conference with collaborative workshop held internationally
- Online live streaming by all the key-note speakers to the online audience
- Online access to both national and international audience
- Twenty-six national and international speakers presenting
- Majority of foreign speakers presenting first time in Pakistan
- First Pakistani online dental conference with online registered overseas non-Pakistani dental delegates
- Prof. Dr Sultan Zeb memorial award for the best online oral presentation



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