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# DENTAL HEALTH MONTHLY

## COP5: Invitation to Support FDI's Response on Dental Amalgam



The 5th meeting of the Conference of the Parties to the Minamata Convention on Mercury (COP5), which includes provisions for the phase down of the use of dental amalgam (Annex A, Part II) will take place from 30 October to 3 November in Geneva, Switzerland.

Ahead of COP5 a proposal to amend Part I and Part II of Annex A has been submitted by Botswana

and Burkina Faso.

For Annex A: Part I, dental amalgam is proposed for inclusion with a 2030 phase-out date.

For Annex A: Part II, two additional provisions are proposed for inclusion.

FDI World Dental Federation (FDI) is committed to improving the oral health of populations globally and ensuring this is done in a fair and equitable manner. FDI together with the International Association for Dental, Oral, and Craniofacial Research (IADR) has

prepared an official response and we would like to add the strength of our members voice to the submission (translations into French and Spanish coming soon).

FDI members who would like to support this submission can sign onto it until Thursday 12 October 2023, 17:00 CEST. Please indicate your organization's willingness to be added to the list of co-signatories by sending a return email to [advocacy@fdi-worlddental.org](mailto:advocacy@fdi-worlddental.org)

Continued on page 18

## Health Dept suggests re-conduct of MDCAT on Nov 19

The Sindh health department has suggested to the Pakistan Medical and Dental Council (PMDC) to re-conduct the MDCAT entry test on November 19, Sindh Health Minister Dr. Saad Khalid Niaz said that the candidates will not be required to pay fee again for the re-test. Sharing his opinions with media representatives on Saturday at the Karachi Press Club during a discussion regarding MDCAT, the caretaker health minister stated that we must tell the public about an important issue today. There are a lot of parents and applicants for the MDCAT that are impacted. We apologize, but certain decisions must be made since the MDCAT

Continued on page 18

## WHO Introduces New Pilot Scheme for Expert Review Panel for Diagnostic Products for Neglected Tropical Diseases



World Health Organization

The World Health Organization (WHO) is taking a significant step to address challenges in diagnostics for neglected tropical diseases (NTDs) by

introducing a pilot scheme for a WHO Expert Review Panel for Diagnostic Products (ERPDP) for NTDs. This pilot initiative aims to enhance the quality

Continued on page 18

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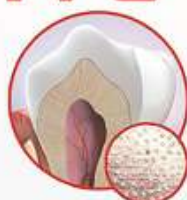
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## Promoting Oral Health in Schools: A Joint Initiative by Baqai Dental College and Colgate



The Department of Community Dentistry at Baqai Dental College partnered with Colgate for a community outreach activity. The week-long program was held from September 18th to 22nd, 2023. The project covered eight assorted educational institutions, both private and government-aided, targeting a total audience of 2500 students from primary and secondary sections in vicinity of Gadap Town. Among these schools were GBSS Dumba Village Gadap Town, Rangers Public School, Askari Grammar School, Ujala Islamic School, GGPS Rustam Goat, GBPS Sheedo, Maisa Public School, and Saleemullah Fehmi School Unit 1.

A dedicated team of faculty members from the Department of Community Dentistry, led by the Head of Department, actively participated in the oral screening program along with few House officers aiming to enhance awareness about oral health and nurture the habit of maintaining oral hygiene among school children.

Complementing these educational efforts, free samples of Colgate were also provided to the participants. Collaborative initiatives such as these are indispensable in elevating oral health standards and facilitating access to essential care. With a focus on reaching out to the younger generation at an early stage, these efforts are crucial in establishing long-term dental health and hygiene habits.

### Operative Workshop at Sir Syed



The Sir Syed continuing dental education committee under Dr. Zareen Afshan, BDS MDS Assistant Professor & HOD Operative Dentistry SSCMS, conducted a hands-on workshop on rubber dam importance and placement for the 2nd year BDS students.

Dr. Zareen demonstrated the procedure live for students and faculty. She stressed the importance of proper isolation during root canal treatment to improve the success rate of the procedure.

Dr. Hasan Askari, HOD dental materials, also stressed the implementation of the rubber dam during the junior operative workshop. He further elaborated a sterile and dry treatment area to prevent bacteria from entering the canals.

The SS Admin greatly lauded the efforts of the senior dental faculty to promote dental education amongst students and faculty.

### Baqai Dental College Workshop: Fluoride Varnish Application



Fluoride varnish application, which are typically administered by professional dentists or hygienists due to their high fluoride concentration, are commonly used to prevent dental decay. Consequently, the Department of Community Dentistry at Baqai Dental College accented the importance of this procedure through a workshop conducted on 28th September 2023.

The session was spearheaded by Prof. Dr. Asghar Ali Shigri. He engaged the 2nd year BDS students with an informative discourse on the significance of fluoride varnish, guidelines for application, its advantages, and the procedure for administering professional fluoride varnish. He stressed the fact that although topical fluoride application is beneficial, it holds special importance for those falling in moderate to high-risk categories. Moreover, its role in tooth decay prevention is crucial because it is absorbed into the tooth enamel, strengthening it, and

making it resistant to acid attack by oral bacteria, thereby, reducing the risk of tooth decay.

Following the lecture, a hands-on session was provided for the students in a phantom head setting. The application procedure was demonstrated for improved comprehension. Subsequently, students were allowed to practically perform the demonstrated steps independently but under the professional supervision of Dr. Samreen Mazhar, Dr. Mehwish Bano, and Dr. Wajaha Anzar.



## BDC's Workshop on High Fluoride Gel Use for Preventing Dental Caries in High-Risk Populations

High Fluoride gel treatments are professional procedures that use a potent concentration of fluoride, which dentists or dental hygienists administer.

The use of fluoride gels has become common as they serve as effective agents against dental caries. Recognizing the importance of these treatments and their proper application, the Department of Community Dentistry conducted a workshop. This event aimed to educate students of 2nd year BDS on the application and benefits of fluoride treatments held on 14th September 2023.

Prof. Dr. Asghar Ali Shigri inaugurated the session by delivering a comprehensive lecture to second-year BDS students. His lecture encompassed a range of topics including the significance of fluoride, various forms of professionally-applied fluoride, and

practices to follow when applying fluoride treatments. He also highlighted the benefits and possible side effects of fluoride use, along with the process of applying professional fluoride gel.

The emphasis was particularly placed on the effectiveness of topical fluoride application across different age demographics, especially in groups displaying moderate to high risk of dental issues.

The students were then directed to the phantom head lab where practical steps of application were showcased. This hands-on approach allowed students to individually carry out each step under the guidance of Assistant Professors Dr. Samreen Mazhar, Dr. Mehwish Bano, Dr. Raza Abidi, and Dr. Wajaha Anzar.



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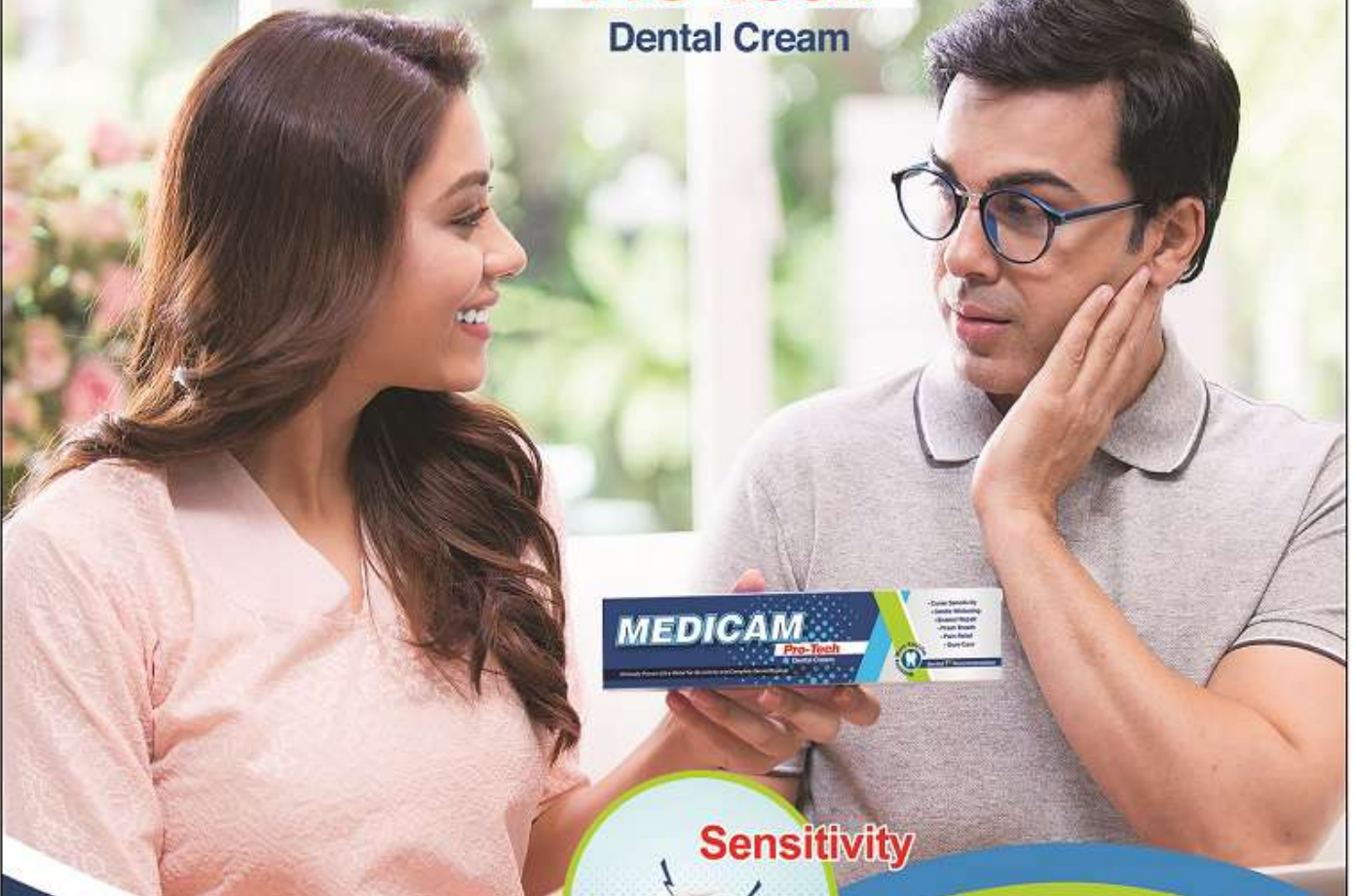
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**Introduction:** ECOBytes, an innovative campaign that aims at purposeful digitalization with the vision "We have One Planet Only, Let's Heal It". ECOBytes is a noble initiative undertaken by Helix Pharma. The primary objective of this campaign is to discourage the unnecessary use of paper and reduce environmental impact.

**Objective:** At its core, ECOBytes seeks to reduce Helix Pharma's carbon footprint through community engagement and the adoption of digital solutions such as QR Codes to significantly reduce the consumption of paper, both within the organization and in its external communication with the medical fraternity in various form.

Helix Pharma aims to minimize its ecological footprint and promote sustainable practices.

**Reducing Carbon Footprint:** Helix Pharma is committed to transitioning to digital solutions for all external and internal communications. By minimizing paper usage, the company not only aims at reducing its environmental impact but also establish a practice for others to follow.

**Community & Forum Engagement:** At Helix Pharma, we firmly believe in the power of community and collective action. ECOBytes actively engages with communities and forums to raise awareness about pressing environmental issues and to support initiatives aimed at preserving our natural habitat. By uniting with like-minded individuals and organizations, we can amplify our impact and drive positive change on a broader scale. ECOBytes seeks to inspire and mobilize communities to take meaningful steps toward a sustainable future.

**Inaugural Session:** On 16th September-2023 ECOBytes inauguration was held at the Hotel Movenpick Karachi and graced by Dr. Saad Khalid Niaz, Health Minister, Sindh as Chief Guest. The keynote address was delivered by Prof. Dr. Jameel Hasan Kazmi, an Ecological Expert, who shed light on the urgent need for environmental conservation.

The event also featured Dr. Abdul Bari, the Founding President of Indus Hospital & Health Network, who shared insights into Working in a paperless environment in healthcare setting. Dr. Ahson Qavi, CEO of Sindh Healthcare Commission, provided valuable perspectives on Impact of Environment on Healthcare Quality.

Notably, the inaugural program was attended by leading Key Opinion Leaders (KOLs) from all specialties of medical fraternity, reflecting the healthcare sector's commitment to environmental causes. Distinct presence of General Secretary of the Society of Obstetricians and Gynaecologists of Pakistan (SOGP), CEO of Sindh Healthcare Commission, Founding President of Indus Hospital & Health Network and Executive Director of Fatmiah Education Network as ECOBytes partners in initiative, demonstrated the importance of cross-sector collaboration in addressing environmental challenges.

The pledge of Helix Pharma to reduce its carbon footprint and engage with the community in order to protect our planet by nurturing a sense of responsibility and awareness among individuals, communities, and organizations is commendable





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# Germany's Dental Industry to be Guest of Honour at AEEDC Dubai 2024

The global health industry is set to make an extraordinary coming year as announced that Dental Industry of Honour at edition of the International Conference and Exhibition - 2024.

The announcement was made on the sidelines of the International Dental Show (IDS), the leading global dental event for the



dental and oral is set to make impact this it was Germany's will be the Guest next year's 28th annual Dental Arab Dental AEEDC Dubai

announcement the sidelines of Dental Show leading global dental

community - which ensures sustainable success as a platform for innovation and market trends, between the Association of the German Dental Industry (VDDI) and INDEX Conferences and Exhibitions, the organizers of the annual event AEEDC Dubai.

"I am very honored about this initiative, which will give the manufacturers of the German Dental Industry the opportunity to tighten their contacts and business activities in this important regional target market and to be able to further expand them in many places. The VDDI has always been happy to support the AEEDC in Dubai for decades. This is a new milestone in our friendly cooperation," stated Mark Stephen Pace, Chairman of the Board of the Association of the German Dental Industry (VDDI).

"I am very thankful for the tremendous support of our German Government represented the Federal Ministry for Economic Affairs and Climate Action (BMWK) and the of the AUMA - Association of the German Trade Fair Industry," he added.

The news was received with positive response as AEEDC Dubai is known as 'The Largest Annual Scientific Dental Conference and Exhibition in the World' where more than 66,000 people from 155 countries attend. Last year alone showcased more than 4,800 brands from over 3,600 companies, and the 2024 edition is set to expand by nearly 30%.

Eng. Anas Al Madani, Vice Chairman and Group CEO of INDEX Holding, stated: "Germany has had a long-standing position within AEEDC Dubai as major contributors for innovative technology and enhanced treatments methods. We appreciate the valuable contributions they have made over the years and we are delighted to have them as our Guest of Honour of AEEDC Dubai 2024." AEEDC Dubai connects dental and oral care companies, manufacturers, and distributors from around the world to reach new business markets and increase their networks.

Having Germany's Dental Industry as the Guest of Honour will further support German products to increase their market share and introduce new products to the world. The Guest of Honour position will place a major spotlight on German brands and products at AEEDC Dubai and highlight the exhibition for attendees to be aware of their contributions to the global dental industry which spans for more than 100 years.

Germany's Dental Industry is known for their high-quality products as their turnover has increased by more than 28% to over 6.2 billion euros, where export markets have contributed significantly to this with a total of 4.1 billion euros, and expected to increase steadily over the next year. About VDDI Association of the German Dental Industry (VDDI) is part of a worldwide expanding healthcare market and holds a leading position within the international dental industry. VDDI's business activities include more than 60,000 products in the field of fixtures and fittings, instruments, appliances, and materials, covering the complete spectrum of dentistry from diagnostics through preventive medicine to final restoration.

About AEEDC Dubai AEEDC Dubai is an annual international three-day conference and exhibition specialized in dentistry which brings together oral health practitioners and producers from around the world, showcases the latest innovative technology and provides companies in the industry an opportunity to forge long-term deals and joint investments to serve the needs of local, regional, and international markets. AEEDC Dubai 2024 will take place on February 6 th-8th at the Dubai World Trade Centre and is organized annually by INDEX Conferences and Exhibitions Org. LLC. - a member of INDEX Holding. The event is supported by Dubai Health Authority, Scientific Global Dental Alliance, Dental Federation, Executive Board of the Health Ministers Council for Gulf Cooperation Council States, Gulf Health Council, Riyadh Elm University, Arab Academy for Continuing Dental Education, Saudi Dental Society, Saudi Orthodontic Society, Saudi Prosthodontic Society, International Association for Dental Research, The Greater New York Dental Meeting and Manitoba Dental Association. -ENDFor more information, please contact: Abdel Rahman Rabie Senior PR Specialist, INDEX Media.







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## Crown and Bridge Workshop at LCMD

Workshop on 'Crown and Bridge' was organized at Liaquat College of Medicine & Dentistry by chairperson CDEC committee Prof. Dr. Uzma Zareef on 26th September 2023. It

was a hands-on workshop along with a lecture; the first speaker was Dr. Kamran Parvez (Assistant Professor Department of Prosthodontics LCMD). Extremely impressive lecture was delivered by him on history, examination, diagnosis and treatment planning, occlusal consideration, diagnostic cast and wax up, and shade selection, followed by Dr. Shuja Adil Khan's lecture (Assistant Professor Department of Prosthodontics LCMD). He emphasized on Principles of tooth preparation, charting, provisional restoration, metal and brisk try-ins, final glazing and cementation. It was then followed by live demonstration by Dr. Anam Iqbal and facilitated by Dr. Kamran, Dr. Shuja, Dr. Anas Kamran and Dr. Tooba. There were 25 participants. They had 2 hour hands on session. Participants were given models for hands on crown and bridge preparation. The event was moderated by Dr. Afshan Faizan.

Organizers for this event were Prof. Dr. Uzma Zareef, Dr. Tauseef Ahmed, Dr. Afshan Faizan, Dr. Arifa Haque, Dr. Ammatuz Zehra and Dr. Samad. Then the session was concluded with the JSMU and CDEC accredited certificate distribution to the participants, facilitators, and organizers by the Principal College of dentistry Prof. Dr. Navid Rashid Qureshi. Accolade was presented to the speaker Dr. Kamran Parvez, Dr. Shuja Adil Khan and Dr. Anam Iqbal. The event held successfully, all participants were extremely satisfied with the delivered knowledge and skills by the expertise. They also requested to keep further sessions as they help them grow and enhance their skills.



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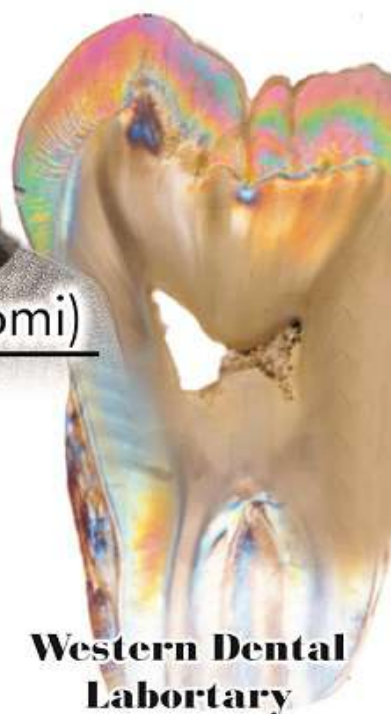
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Guest  
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Dr Abbas Ismail Khan conducted a hands-on workshop at I Smile Aligners' Head Office at Clifton, wherein candidates got experience about the Aligner Treatment. Later, certificates were presented to the participants.





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## Colgate Conducts Oral Health Week



Colgate has conducted a yearly one-week program during the month of September for Dental Health Awareness. This year students and faculty of Bahria University Dental College, Karachi were given the honor of being a part of their program. Different teams from BUDC were sent to schools of Karachi where free dental checkups were done of the school going children and were given dental advice, as needed. Campaigns like these help in reiterating the importance of Oral Hygiene maintenance to avoid dental problems in the future.

4 teams of 5 members each from BUDC went for the checkups to the schools every day for the entire week. Each team of 5 comprised of 1 Faculty Member, 1 House Officer, 1 BDS Fourth year student, 1 BDS Third year student, and 1 BDS Second year student. Colgate team was also present on BUDC campus in the OPD and distributed samples to the patients visiting the teaching hospital. On the first day, the free dental checkup visit was arranged at Bahria College NORE-I Junior Section. The second visit was arranged at Bahria College



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Continued from page 1

## COP5: Invitation to Support FDI's Response on Dental Smalgam

cy@fdiworlddental.org. We kindly request confirmation of your organization's name in the reply email and confirmation that you have the authority to authorize this on behalf of your organization. Also, FDI is collaborating with the ADA, IADR and IDM to organize an online event on Thursday October 12, from 17:45 - 18:45 CEST. Entitled "Accelerating the Phase Down of Dental Amalgam: Progress Continues", this webinar dives into the critical need for the implementation of a phase-down approach that is protective of human and environmental health across all geographies.

Continued from page 1

## WHO introduces new pilot scheme for Expert Review Panel for Diagnostic Products for neglected tropical diseases

assurance and accessibility of NTD diagnostic tools for health-care providers. The landscape of in-vitro diagnostics (IVDs) is rapidly evolving, posing significant challenges to procurers, health-care programmes, and authorities for public health and patient care. Notably, in the field of NTD diagnostics, challenges are multiple. Low profit margins and limited returns on investment make the NTD diagnostics market unattractive to manufacturers and suppliers, resulting in uncertainty about the quality of many NTD diagnostic products. Additionally, the revision of regulatory frameworks all over the world and in western countries for IVDs, associated with expensive procedures, has disrupted the availability of some NTD diagnostics. While solutions are being proposed to manufacturers, regulatory bodies and health care programmes to make the best choices for procurement of quality-assured, safe and performant IVDs for the benefit of public health through WHO's IVD prequalification programme (WHO PQ), they are not appropriate for all categories of IVDs. Currently, NTD diagnostics do not fall within the scope of WHO prequalification. To address this issue, WHO PQ is introducing the ERPD pilot scheme for NTDs. This new ERPD is intended to fill the critical need for NTD diagnostic tools by providing independent expert advice on specific categories of IVDs. The ERPD is an independent advisory body of technical experts, coordinated by the WHO PQ team to assess the risks and benefits associated with non-prequalified IVDs, for specific intended use, within specific settings and that may have a significant public health impact, like NTD diagnostics. This programme represents a significant step towards ensuring that NTD diagnostics meet international quality standards. It will provide procurers, donors and national disease control programmes with advice to aid procurement decisions for candidate products. The proposed ERPD for NTDs will be coordinated by the WHO PQ team in close collaboration with the Global NTD Programme, reaffirming WHO's dedication to tackling NTDs and enhancing global health equity and patient care. For more information on this pilot scheme, please visit current invitations to submit expressions of interest for NTD diagnostics for lymphatic filariasis and visceral leishmaniasis.

Continued from page 1

## Health Dept suggests re-conduct of MDCAT on Nov 19

2023 paper was leaked. The applicants who benefited from the leaked paper received outstanding scores. An inquiry committee was formed in this regard. The investigation committee has confirmed that the paper had been leaked, and we advised the caretaker chief minister of Sindh to approach the Federal Investigation Agency (FIA) in this case. MDCAT is a matter of future of more than 40,000 candidates. A violation of merit is one of its irregularities. Although it is wrong to re-examine candidates, it is even more unfair to deny talented candidates their right to get admission to the medical colleges.

Continued from page 16

## Colgate Conducts Oral Health Week

every day for the entire week. Each team of 5 comprised of 1 Faculty Member, 1 House Officer, 1 BDS Fourth year student, 1 BDS Third year student, and 1 BDS Second year student. Colgate team was also present on BUDC campus in the OPD and distributed samples to the patients visiting the teaching hospital. On the first day, the free dental checkup visit was arranged at Bahria College Nore-I Junior Section. The second visit was arranged at Bahria College Nore-III Primary Section and Jinnah Foundation School, Korangi. On Wednesday i.e., 20th Sep 2023, the free dental checkup visit was arranged at Karachi Public School, Korangi. Day 4 visit was done at Karachi Public School, Korangi. On the final day i.e., Day 5, the free dental checkup visit was arranged at Jinnah Foundation School, Korangi. The teams comprised of a combination of Dr. Maria Moin as assistant professor and HOD alongside Dr. Mohsin Haider as Senior Lecturer, Dr. Rabbia Imtiaz Ahmad as Lecturer in the Department of Community Dentistry, Dr. Farah Irshad as Senior Registrar in the Oral Medicine Department, Dr. Shahrulh as Senior Lecturer in Oral Pathology Department, Dr. Javeria Zeeshan as Senior Lecturer in the Oral Pathology Department, Dr. Raima Bashir as Senior Registrar in the Oral Biology Department, Dr. Isra Ahmed as Lecturer in Dental Materials Department and Dr. Sarah, Dr. Amna Khalid, Dr. Noman and Dr. Zoobia as House Officers and 2nd, 3rd, 4th year BDS students on each day. The BUDC and Colgate team reached the schools at 09:30am. The teams were welcomed by the Schools' Vice Principal and Coordinators. The dental checkup was carried out by the 2nd, 3rd, & 4th year students and house officers along with the faculty members. The BUDC Health Care Professional (HCP) team along with Colgate team participated in the activity. The target children consisted of 1200, 1020, 1100, 1200, 750 students on each respective days with ages ranging from 3-15 years of both male and female students. The team asked basic dental questions, performed intraoral examinations, and delivered oral hygiene instructions to the students. Free dental checkups and free sampling were provided to all the students and the oral health condition was recorded on a form provided by Colgate. The children were given free Colgate dental kits as samples and tokens of appreciation to promote oral health amongst them. The dental team was dressed professionally and used proper sterilization and cross infection protocols. Most of the students adhered to proper dental hygiene maintenance. Hence the overall oral hygiene condition of these students was found to be good. The administration and students were pleased with the Oral Health Week 2023 sessions and their queries and problems were addressed. The BUDC team looks forward to collaborating with Colgate for more such free oral health checkup and sampling. It was a good learning and connecting experience for the BUDC dental team on a community level.

## JMDC Hosts Three-day Conference



Jinnah Medical & Dental College (JMDC) hosted a three day conference 2023 from September 21st to 28th. The whole event comprised of workshops, plenary sessions and health awareness program. Dr. Maria Moin, Head of the Department of Community Dentistry at Bahria University Dental College Health Sciences Campus was invited as a guest speaker. The discussion topic was "Need of oral health education and health promotion according to need of disadvantaged population".

The topic of discussion focused on oral health education methods of disadvantaged population because they need more attention as compared to normal population. Different strategies were highlighted to improve oral health of

these people and better quality of life.

The audience was pleased with the discussion because such discussions related to disadvantaged population are not very common. The speakers were also presented the appreciation shields.

## 'Basic Principles of Implantology' Session at BUHS

The Department of Periodontology on 12th of September 2023, organized a Guest Speaker Session under the supervision of Head of Department, Prof. Dr. Farzeen Tanwir, who invited Dr. Zaheer Hussain Chachar, Assistant Professor and HOD at Altamash Institute of Dental Medicine with his trainees. He spoke on the topic "Basic Principles of Implantology". It was attended by 3rd year BDS students and faculty from different departments of Bahria University Health Sciences Campus. Dr. Zaheer enlightened the audience on the 'Basics of Implantology'. He further shed light on the concept of different eras of implants and phases of implant evolution. He shared detailed clinical, theoretical and latest knowledge through research about dental implant techniques and showed a number of clinical cases related to implant surgery performed by him. His dynamic approach of the topic proved to be extremely beneficial, especially for the students attending the lecture.

Following the lecture, the students asked Dr. Zaheer about their queries regarding dental implants, which he answered in detail. Dr. Zaheer Hussain Chachar was highly appreciated by Prof. Dr. Kashif Naqvi, Principal Bahria University Dental College, and other senior faculty members for an informative session. A shield of appreciation was awarded to him for his visit to BUHSC (K) and for sharing his knowledge.

## Hands-on 'Basic Life Support' Assessment at Bahria

"Take some time to learn first aid and CPR. It saves lives and it works". Bobby Sherman A hands-on "Basic Life Support" assessment was organized by Periodontology Department in Collaboration with General Medicine at Bahria University Dental College on 13 September, 2023. The activity was led by Surgeon Commander (Surg Cdr) Prof. Dr. Pervaiz Asghar and Prof. Dr. Farzeen Tanwir both of whom enlightened the importance of BLS Assessment for healthcare professionals and its essential role in their daily life. This activity aims to evaluate skills of house officers and final year's students in BLS technique since its part of the curriculum as well, ensuring they can counter effectively to life threatening emergencies. Basic Life Support Training is crucial because it trains individuals how to properly manage critical medical emergencies, such as cardiac arrest and obstructed airways. Dr. Pervaiz Asghar conducted a comprehensive demonstration of BLS techniques using a mannequin as a teaching aid. Each participant had the opportunity to practice these techniques on the mannequin, allowing them to apply their knowledge in a hands-on setting. Following tools were used for the assessment such as Manikins for hands on practice, Automated External Defibrillator (AEDs) and bag valve mask (BVM) AmbuBag. Initial assessment, airway maintenance, rescue breathing, mouth-to-mouth ventilation, exhaled air ventilation, and chest compressions are the primary components of BLS training. The skills and knowledge of the healthcare professionals were evaluated by Prof. Dr. Farzeen Tanwir, Dr. Tauqeer Bibi and Dr. Bushra Ijaz. Hence BLS training teaches valuable life-saving skills and techniques that can be applied in professional and personal life.

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## M PRO

### Key Work Steps Of Mpro 3 file system

- Determining the working length by SS K file #8, #10 or #15.
- Establishing straight access till 3mm to apex with M Pro rotary files #18.
- Enable the creation of a smooth glide path and determine the working length again by Wayfinder file #10 or #15.
- Finish preparation till full of working length by MPro file #20 or #25.



## M SOLO

### Key Work Steps Of MSOLO Niti Files

- Starting the preparation with SS K file #10
- Determining the working length by SS K file #15
- Prepare till 2/3 of full working length by MSOLO #20 or #25
- Enable creation of a smooth glide path and determine the working length again by Wayfinder #10 or #15
- Finish preparation till the full working length by MSOLO #20 or #25



## M TAPER

### Key Work Steps Of Mtaper Niti Files

- Easy
- One simple sequence
- Color marking for easy identification
- Only 3 files required in most cases
- Time -saving
- Multiple taper offers better debris removal and avoids undesired screw-in effect
- The convex triangular cross-section minimizes contact with the canal wall
- Safe
- Rounded non-cutting guiding tip avoids over cutting



## K TYPE

### Key Work Steps Of K FILES Niti

- Dental K Files are durable and corrosion-resistant endodontic instruments for root canal therapy.
- The K files have a spiral flutes arrangement with outstanding cutting ability.
- The material used for files is workable and has fatigue resistance that prevents the accidental breakage of K files during the treatment procedure.
- The color-coded ends denote the specific diameter of each file according to canal shape.
- The set of k files are reusable after sterilization in an autoclave and can tolerate the high temperature of sterilization.
- The additional benefits of files are the tactile sensation during filing that reduces the chances of procedural errors.
- K files can be used in the filing, reaming, or up and down motion in the root canal.



## MM FILE

### Key Work Steps Of MM Niti Files

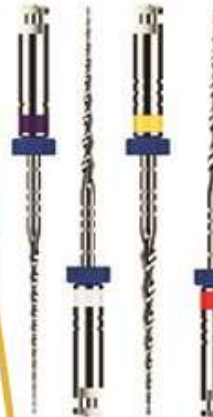
- The length is only 16mm and suitable for deciduous teeth preparation
- The standardized taper with obturation by standard gutta percha point
- Enable creation of a smooth glide path and determine the working length by hand used k file #10.
- Use MM file .03 taper #20, #25 and #30 to finish the preparation.
- \* Attention: the root canal wall of the deciduous teeth is very thin, no need to cut too much.



## M PILOT

### Key Work Steps Of M Pilot Niti Files

- Use C-Pilot file #10 or #15 to start the preparation to determine the working length
- Use Gates or opener file to open the 1st 1/3 till 2nd 1/3 of the canal
- Use # 10/.4taper MPilot file till the working length
- Use # 15/.05taper MPilot file the working length
- Use # 20/.06taper MPilot file till the working length
- Use # 25/.06taper MPilot file till the working length



## WAY FINDER

### Key Work Steps Of Wayfinder Niti Files

- Easy cleaning and making straight path
- Special cross-section design ensures the core thickness of the file and allows high strengths of file
- Nickel titanium alloy
- A .03 taper reduces the downward direction resistance and ensures longer life
- Great cutting performance and debris removal



## RE ROOT

### Key Work Steps Of ReRoot Niti Files

Effective removal of filling material

- With sharp cutting edge is able to remove filling material easily
  - Non-cutting guide tip
- Instructions for use:
1. Opener is used for proper access in the root canal.
  2. RR1 is used to clean the first 1/3 of the obturation material and can also be used for root canal preparation.
  3. RR2 is used to clean the second 1/3 of the obturation material and can also be used to shape the root canals.
  4. RR3 is used to clean the third 1/3 of the obturation material and can also be used to prepare the root canals until the apex is reached.
  5. RR4 is used for final root canal preparation.



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#### References:

1. Akwagiyam et al, 2015. 2. Kakar et al, 2014. 3. GSK data on file (GCCSS-GH-001 - parodontax complete protection toothpaste). 4. Akwagiyam et al, 2013. 5. Jose et al, 2018. 6. Attin T and Hornecker E, 2005. 7. Williams et al, 1992.

#### ALWAYS FOLLOW THE LABEL PRIOR TO USE

\*removal of plaque, after a professional clean and twice daily brushing. Brush twice a day and not more than 3 times, minimize swallowing and spit out. If irritation occurs, discontinue use. Not suitable for children under 12 years. Keep out of reach of children.





**05**  
DAYS



Diploma in  
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- DERMATOLOGIST
- DENTIST





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Lahore-2023



07  
Thursday

09  
Saturday

December 2023

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- DERMATOLOGIST
- DENTIST



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Friday - Sunday