32nd SCOTE
MDA Scientific Convention and Trade Exhibition

MDA SCIENTIFIC CONVENTION AND TRADE EXHIBITION 2025

BREAKTHROUGH IN TODAY'S DENTISTRY

MAIN CONFERENCE
20 CPD Points (A3)

WORKSHOP
FULL DAY 6 CPD Points (A3)
HALF DAY 4 CPD Points (A3)

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MDA Scientific Convention & Trade Exhibition

Guest of Honour
YB Datuk Dr Muhammad Radzi bin Abu Hassan
Director-General of Health
Ministry of Health, Malaysia

Organiser
Gold Sponsor
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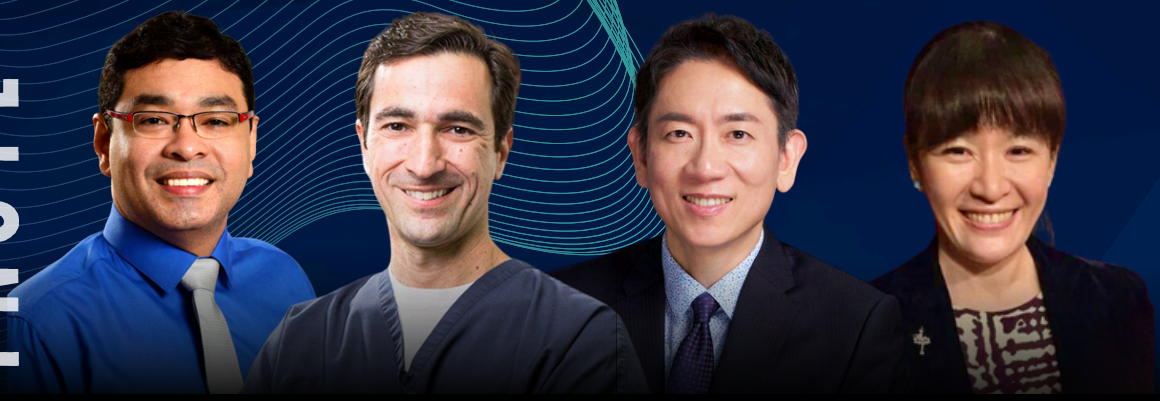
MALAYSIAN DENTAL ASSOCIATION

32nd SCOTE
MDA Scientific Convention and Trade Exhibition

Breakthrough in Today's Dentistry

17 - 19 JANUARY 2025 | KUALA LUMPUR CONVENTION CENTRE

KEYNOTE SPEAKERS



PROF. ERICK SOUZA

DR. MICHAEL N. MANDIKOS

DR. JERRY LIN

DR. SABRINA HUANG

DR. LIU JING JIN

DR. CHEN YE HONG

ASSOC. PROF. DR. RAMAKRSNA RAJANDRAN

PROF. DR. MINJU SONG

DR. DARRELL ONG

PROF. LIM TONG WAH

DR. SONIA LEE

PROF. DR. SABRI MUSA

ASSOC. PROF. DR. ESHAMSUL SULAIMAN

DR. PRAVEEN GILL

KOL. DR. MARISSA BINTI BAHAROM

DR. KHAIRUL ANWAR SANUSI

DR. BEN C. NG

DR. HA KIEN OON

DR. LEON CHEN

DR. HAMED FESHARAKI

DR. HO LAI-IN

RISING STAR SPEAKERS

DR. CAITLYN TAN KAI WEN

DR. ALEX HONG WERN JUIN

DR. TENG PENG HUI

DR. PENGIRAN MUHAMMAD BADI'UZZAMAN AWANG ISKANDERDZULKARNEIN

DR. HOE ZHI YEN

DR. AMINDA FAIZURA OMAR

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MALAYSIAN DENTAL ASSOCIATION

32nd SCATE
MDA Scientific Convention and Trade Exhibition

SCATE FORUM

MULTIDISCIPLINARY APPROACHES TO RESOLVING DISPUTED CASES IN DENTISTRY

FORUM SPEAKERS

COL DR MUMTAJ NISAH ABD RAHIM (R)

PROF DR NORLIZA IBRAHIM

PROF DR DALIA ABDULLAH

PROF DR NGEOW WEI CHEONG

DR SHASHITHARAN SADACHARAN

MODERATORS

DR NEDUNCHELIAN VENGU

DR NG WOAN TYNG

19TH JANUARY 2025, SUNDAY, 10 AM - 12 PM

OPEN TO MDA MEMBERS IN BENEFIT

Organiser

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MALAYSIAN DENTAL ASSOCIATION

32nd SCOTE
MDA Scientific Convention and Trade Exhibition

KUALA LUMPUR CONVENTION CENTRE, 19TH JANUARY 2025, SUNDAY

INCLUSIVE CARE DENTAL ASSISTANT TRAINING

SPEAKERS' PROFILE

ASSOC. PROF. DR. ILHAM WAN MOKHTAR

Assoc. Prof. Dr. Ilham Wan Mokhtar is an accomplished Associate Professor and Consultant in Pediatric Dentistry, specializing in special care dentistry for children, behavior management techniques, and community outreach.

With a solid educational foundation, including a Bachelor of Dental Surgery from the University of Malaya and an advanced Master's degree in Pediatric Dentistry and Special Care from Ghent University, Assoc. Prof. Dr. Ilham has also trained as a clinical resident at Ghent Teaching Hospital.

Assoc. Prof. Dr. Ilham has an extensive research portfolio, authoring numerous peer-reviewed publications on topics such as dental age estimation, behavior guidance techniques, oral health in children with special needs, and innovative teaching in special care dentistry. Her work has been widely recognized in journals indexed by SCOPUS, WOS, and others.

ASSOC. PROF. DR. MAS SURYALIS AHMAD

Assoc. Prof. Dr Mas Suryalis is a distinguished dental professional with extensive qualifications, including a Doctor of Philosophy and Doctor of Clinical Dentistry (Special Needs Dentistry) from the University of Melbourne, as well as multiple memberships and diplomas from renowned institutions worldwide.

With expertise in medical education, special needs dentistry, and disability studies, she currently serves as the President of the Malaysian Dental Association (2023–2025) and holds leadership roles in national and international organizations.

Assoc. Prof. Dr. Mas Suryalis is also a Fellow of the Pierre Fauchard Academy, the International College of Dentists, and the Academy of Dentistry International, showcasing her dedication to advancing the field of dentistry through education, advocacy, and professional excellence.

COURSE SCHEDULE

9:00 A.M. - 9:30 A.M.	**WORKSHOP 1 MANAGING CHILDREN WITH SPECIAL NEEDS**
9:30 A.M. - 10:00 A.M.	**WORKSHOP 2 MANAGING ADULTS AND ELDERLY WITH SPECIAL NEEDS**
10:00 A.M. - 10:15 A.M.	**Q & A SESSION**
10:30 A.M. - 12:30 P.M.	**HANDS-ON DEMONSTRATION AND SIMULATION EXERCISE**

32nd SCATE
MDA Scientific Convention and Trade Exhibition

TABLE CONTENT

MESSAGE FROM THE HONOURABLE

Yang Berbahagia Datuk Dr Muhammad Radzi bin Abu Hassan
Director General of Health, Malaysia

Assalamualaikum Warahmatullahi Wabarakatuh, and Salam Malaysia MADANI
Dear distinguished guests, esteemed colleagues, and fellow participants,

It is my pleasure and honour to warmly welcome all esteemed delegates, distinguished speakers, and dedicated participants to the 32nd Malaysian Dental Association Scientific Convention and Trade Exhibition (32nd MDA SCATE). This annual event marks the beginning of the convention each year with the theme of "Breakthrough In Today's Dentistry" as we are set to embark on a journey of knowledge, innovation, and scientific discovery that will shape the future of the dental profession. I express my sincere congratulations and appreciation to the Malaysian Dental Association and the organizing committee for their diligent and invaluable efforts in planning this remarkable convention.

In recent years, dentistry has witnessed unprecedented advancements, and our achievements have been highlighted internationally. These breakthroughs are not merely incremental improvements but transformative innovations that redefine the scope and practice of dental care. From cutting-edge technologies such as AI, digital dentistry, laser therapies, and 3D printing to groundbreaking research in oral health and preventive care, today's dentistry stands at the threshold of a new era of 'Health and Wellness Concept' and we journey to the Global Oral Health Action Plan 2023-2030. I am confident that the organizing committee has demonstrated an unwavering commitment to ensuring an impressive scientific convention by showcasing these advancements, facilitate knowledge exchange, and inspire future innovations.

This year's conference boasts a rich and diverse program designed to cater to the varied interests and specialities within the field of dentistry. With over 33 plenary sessions and 1 multidisciplinary forum, we cover a wide array of topics that reflect the theme of "Breakthrough in Today's Dentistry". This event also brings together all leading dental traders who side-by-side in dynamic dental reforms. It's a great opportunity for all delegates to explore the latest products and technologies that are revolutionizing dental care.

Innovation drives progress across all fields, including dentistry. Technological advancements like artificial intelligence (AI), digital imaging, laser dentistry, and 3D printing have transformed dental care. These innovations enhance diagnostics, enable minimally invasive procedures, and make custom prosthetics more efficient. Advances in materials science further improve treatment durability and aesthetics, significantly benefiting patients.

While technology shapes the future, the emphasis on preventive care and holistic wellness remains crucial. Early detection and prevention of oral diseases reduce the need for complex treatments, improving overall oral health. With 94.6% of Malaysians requiring dental management (NHMS 2020: NOHSA 2020), primary healthcare services must strengthen oral health promotion, community programs, and school initiatives to instil lifelong hygiene habits.

Breakthroughs in dentistry also lie in continuous research, exploring areas like regenerative dentistry, personalised medicine, and AI. Collaboration among diverse stakeholders and interdisciplinary teams is essential to drive innovation. Events like this conference are pivotal, fostering connections and advancing the field.

To all attendees, let us embrace the theme of "Breakthrough In Today's Dentistry," collaborate openly, and pursue excellence in dental care. Together, we can achieve remarkable progress, ensuring a brighter future for dentistry. Wishing you an inspiring and successful conference.

Warm regards,
YBhg. Datuk Dr. Muhammad Radzi bin Abu Hassan
Director General of Health Malaysia

WELCOME NOTE FROM MDA PRESIDENT

Associate Prof Dr Mas Suryalis Ahmad

Dear Esteemed Members of the Malaysian Dental Association, Colleagues and Friends,

Greetings from Malaysian Dental Association!

It is with great pleasure and honour that I extend a warm welcome to all delegates attending the 32nd MDA Scientific Convention and Trade Exhibition (32nd MDA SCATE) 2025. With an exhilarating theme, "Breakthrough In Today's Dentistry" could not be more apt to emphasise the latest technologies, research, and practices that are transforming our industry. Let's remember the ultimate goal of our work: to enhance the well-being of our patients. Each breakthrough we discuss and each technique we refine has the potential to make a meaningful impact on the lives of those we serve. Together, we can harness these innovations to elevate the standard of care in our practices and communities.

Our indefatigable organizing team, as always, has invited world-renowned speakers to deliver topics on the various specialties of dentistry. Dr Michael Mandikos will talk about the "Golden Rules for Maximising Success for Porcelain Veneers and all Ceramic Crowns". Dr Jerry Lin will enlighten us about "Aesthetic Reconstruction In Periodontics and Implant Dentistry", and many more. Dr Jerry Lin will teach us on the "New Perspective In Bone Regeneration" and Dr Liu Jing Jin enlightens us on " The Latest Laying Concept." Many more topics warrant us to "Breakthrough In Today's Dentistry", if we wish to keep abreast of the latest skills and knowledge which we must acquire in order to become better and better clinicians.

Lectures, workshops, scientific competition and a forum with the theme "Multidisciplinary Approaches to Resolving Disputed Cases in Dentistry" are awaiting you alongside with the wide array of dental products being displayed at numerous trade booths. So this is the perfect time to learn, share, buy, establish our networks and enjoy the camaraderie.

I would like to extend my heartfelt gratitude and sincere appreciation to the organising committee for their tireless efforts and dedication in making this conference a resounding success. Your meticulous planning, seamless execution, and unwavering commitment to excellence have created an inspiring platform for knowledge exchange and engaging sessions, every detail reflected your hard work and vision. Additionally, initiatives such as the RM200 trade voucher from the MDA Council for the first 500 MDA members who signed up have greatly benefited participants and further enhanced the value of this event.

In addition, I would also like to extend my appreciation to all the supporting sponsors and traders in the industry for their support in making this conference a great accomplishment. I strongly encourage all delegates to visit one of the yearly largest trade exhibitions to get to know the latest advancements and technologies in this evolving industry.

I thank all delegates and MDA members for their support and participation in this year's SCATE 2025. Wishing everyone good health and a delightful experience in this 32nd MDA SCATE 2025 conference and trade exhibition at our beautiful Kuala Lumpur Convention Centre, Malaysia.

MESSAGE FROM SCATE 2025 CHAIRPERSON

Dr Goh Seong Ling

Dear Colleagues and Esteemed Guests,

It is with great enthusiasm that we welcome you to this year's conference, where we gather to celebrate and explore the theme, "Breakthrough in Today's Dentistry." This event promises to be an exciting platform for sharing innovative ideas, cutting-edge research, and best practices that are shaping the future of our field.

This gathering also represents a unique opportunity for dental professionals from around the region to come together and explore the innovative advancements that are transforming our field. Over the next few days, you'll hear from leading experts who will share their insights on the latest research, technologies, and methodologies. From digital dentistry to groundbreaking treatment approaches, we'll delve into topics that are not only shaping current practices but also redefining the future of oral health care.

We encourage you to engage actively in discussions, participate in hands-on workshops, and visit the trade and exhibition booths. This conference is not just about learning; it's about collaboration and inspiration. Your experiences and perspectives are invaluable to the collective knowledge we are building together.

As we embark on this exciting journey, let's embrace the breakthroughs that promise to enhance patient care and improve outcomes. We are grateful for your presence and commitment to advancing our profession.

I would like to extend my heartfelt thanks to the organising committee and our generous sponsors for their invaluable contributions to this conference. Your hard work, dedication, and commitment to excellence have made this event possible, creating an inspiring environment for collaboration and learning.

Thank you for joining us, and let's make this conference an unforgettable experience filled with learning, innovation, and connection!

ORGANIZING COMMITTEE

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Organizing Chairperson
Dr Goh Seong Ling

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Dr Girisha Thayala

Assistant Secretary
Dr Chai Bin Xuan

Treasurer
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Dr Elin Ting

Scientific Competition Committee

Chairperson
Dr Sharon Tay

Co-Chairperson
Dr Nik Madihah Nik Aziz

Committee
Dr Chan Yun Yi

Trade & Sponsorship Committee

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Dr Chong Zhen Feng

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Dr Teh Tat Beng

Committee
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Committee
Dr Neoh Ein Yau

Committee
Dr Eileen Koh Mei Yen

Committee
Dr Kan Ing Zheng

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Dr Ng Woan Tyng

Committee
Dr Nedunchelian Vengu

MOH Liason

Chairperson
Dr Ainon Natrah binti Aminnudin

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Dr Wong Xin Nan

Scientific Committee

Committee
Dr Neoh Ein Yau

Committee
Dr Navin James Loo

Committee
Dr Foo You Han

Committee
Dr Bryan How Qi Yan

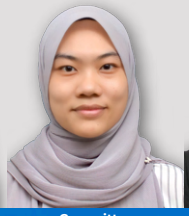
Committee
Dr Tan Xiao Tian

Speakers' Welfare Committee

Chairperson
Dr Kweh Ting Jing

Committee
Dr Ng Woan Tyng

Committee
Dr Ng Rou Hui



Committee
Dr Ungku Farah Wahidah

Committee
Dr Yeoh Wei Chun

Committee
Dr Chong Jun Ai

Secretariat

Committee
Wennie Kok

Committee
Cornelia Leong

Committee
Razana

Committee
Normah

Committee
Nooraleeza

Committee
Nurin

SCATE 2025

OPENING CEREMONY

18TH JANUARY 2025, SATURDAY

VENUE
Level 3,
Conference Hall 2

GUEST OF HONOUR
YANG BERBAHAGIA DATUK DR MUHAMMAD RADZI BIN ABU HASSAN
DIRECTOR GENERAL OF HEALTH MALAYSIA

8.30 AM	Arrival of VVIPs in Holding room (Meeting room 307 & 308, Level 3)
8.40 AM	Arrival of Guest of Honour in Holding room (Meeting room 307 & 308, Level 3)
9.00 AM	Arrival of Guests of Honour and Entourage (Conference Hall 2, Level 3)
9.05 AM	Welcome Address by 32nd MDA SCATE 2025 Organizing Chairperson, Dr Goh Seong Ling
9.10 AM	Speech by President of Malaysian Dental Association, Assoc Prof Dr Mas Suryalis Ahmad
9.15 AM	Presentation of WOHD CSR Acceptance Letter Ceremony
9.25 AM	Speech by Guest of Honour
9.40 AM	Launching Ceremony of 32nd MDA SCATE 2025
9.45 AM	Presentation of Token Appreciation to GOH and Group Photo Session
10.00 AM	Trade Exhibition Tour
10.30 AM	VIP morning tea break (Hospitality Lounge 1, Exhibition hall, Level G)

DAY 1

FRIDAY, 17TH JANUARY 2025

TIME	CONFERENCE HALL 1, Level 3	CONFERENCE HALL 2, Level 3
7.45AM - 8.30AM	REGISTRATION @ Centre Core Registration Counter, Level 3 *MORNING REFRESHMENTS @ Conference Hall 1 & 2 Foyer, Level 3*	
8.30AM - 9.00AM	**Dr. Pengiran Muhammad Badi'uzzaman bin Awang Iskanderdzulkarnein** Digital Workflow in Advanced Dentistry: From Scanning to Final Restoration	**Dr. Alex Hong Wern Juin** A Second Chance for the Impacted Second Molar
9.00AM - 10.00AM	**Dr. Hamed Fesharaki** Revolutionising Dentistry: The Role of AI Across the Dental Ecosystem (Lecture to be delivered online)	**Dr. Praveen Gill** The Digital Revolution: How Technology is Shaping the Future of Orthodontics
10.00AM - 10.30AM	*MORNING BREAK@ Exhibition Hall 1 & 2 Foyer, Level G*	
10.30AM - 11.30AM	**Dr. Khairul Anwar Sanusi** Predictable 3D Printed Restoration & Prostheses	**Dr. Sabrina Huang** Think Outside The Box: The Other Way of Changing the Smile 1
11.30AM - 12.30PM	**Dr. Sonia Lee** To Post or Not to Post	**Dr. Sabrina Huang** Think Outside The Box: The Other Way of Changing the Smile 2
12.30PM - 2.00PM	*LUNCH BREAK @ Ballroom 1, Level 3*	
2.00PM - 3.00PM	**Dr. Leon Chen** One Drill Implant System and Sinus Implant	**Assoc. Prof. Dr Rama Krsna** Breath of Life: Transforming Dentistry with Airway Intelligence
3.00PM - 4.00PM	**Dr. Ben C. Ng** Facial Aesthetics Now & Future in Dental Practice- Making a Difference (1.5 hrs lecture)	**Dr. Chen Ye Hong** Dentists' Role in Management of Snoring & Obstructive Sleep Apnea
4.00PM - 4.30PM		*TEA BREAK @ Exhibition Hall 1 & 2 Foyer, Level G*
Trade Exhibition Operation Hours: 9.00am - 6.00pm @ Exhibition Hall 1 & 2, Level G		

DAY 2

SATURDAY, 18TH JANUARY 2025

TIME	CONFERENCE HALL 1	CONFERENCE HALL 2	MR 306
8.00AM - 8.30AM	*REGISTRATION @ Centre Core Registration Counter, Level 3* *MORNING REFRESHMENTS @ Conference Hall 1 & 2 Foyer, Level 3*		SCIENTIFIC ORAL COMPETITION
8.30AM - 9.00AM	**Dr. Caitlyn Tan** Refining Adhesive Protocol in Daily Dentistry	**Dr. Teng Peng Hui** Cracked Teeth: A Dental Pandemic?	
9.00AM - 10.00AM	**Prof. Lim Tong Wah** An Overview of the Dahl Concept	**OPENING CEREMONY**	
10.00AM - 10.30AM	*MORNING BREAK@ Exhibition Hall 1 & 2 Foyer, Level G*		
10.30AM - 11.30AM	**Dr. Liu Jing Jin** Truly Understanding the Colour in Natural Tooth 1	**Prof. Erick M Souza** Reconsidering Apical Limit as Relevant Success Predictor	
11.30AM - 12.30PM	**Dr. Liu Jing Jin** Truly Understanding the Colour in Natural Tooth 2	**Prof. Erick M Souza** To Compact or Not To Compact the Gutta-Percha: What is The Current State of Art?	
12.30PM - 2.00PM	*LUNCH BREAK @ Ballroom 1, Level 3*		
2.00PM - 3.00PM	**Dr. Michael N. Mandikos** Golden Rules for Maximising Success for Porcelain Veneers and All Ceramic Crowns 1	**Prof. Minju Song** Vital Pulp Therapy with Bioceramics	
3.00PM - 4.00PM	**Dr. Michael N. Mandikos** Golden Rules for Maximising Success for Porcelain Veneers and All Ceramic Crowns 2	**Prof. Minju Song** Outcomes of Regenerative Endodontic Procedures	
4.00PM - 4.30PM	*TEA BREAK @ Exhibition Hall 1 & 2 Foyer, Level G*		

Trade Exhibition Operation Hours: 9.00am - 6.00pm @ Exhibition Hall 1 & 2, Level G

DAY 3

SUNDAY, 19TH JANUARY 2025

TIME	CONFERENCE HALL 1	CONFERENCE HALL 2
8.00AM - 8.30AM	*REGISTRATION @ Centre Core Registration Counter, Level 3* *MORNING REFRESHMENTS @ Conference Hall 1 & 2 Foyer, Level 3*	
8.30AM - 9.00AM	**Dr. Aminda Faizura Omar** Caring for the Caregiver: Expanding the Scope of Special Care Dentistry	**Dr. Hoe Zhi Yen** Integrated 3D-Printed Restorations into Everyday Dentistry: Practical Solutions for Modern Practices
9.00AM - 10.00AM	**Prof. Dr. Sabri Musa** Current Trends in Paediatric Dentistry: Where Are We?	**Assoc. Prof. Dr Eshamsul** Parameter of Implant Success in Aesthetic Zone: Biological vs Prosthetic driven implant dentistry
10.00AM - 10.30AM	*MORNING BREAK@ Exhibition Hall 1 & 2 Foyer, Level G*	
10.30AM - 11.30AM	**SCATE FORUM** Multidisciplinary Approaches to Resolving Disputed Cases in Dentistry (Open to MDA Members in benefit)	**Dr. Jerry Lin** Aesthetic Reconstruction in Periodontics and Implant Dentistry 1
11.30AM - 12.30PM		**Dr. Jerry Lin** Aesthetic Reconstruction in Periodontics and Implant Dentistry 2
12.30PM - 2.00PM	*LUNCH BREAK @ Ballroom 1, Level 3*	
2.00PM - 3.00PM	**Dr. Ha Kien Oon** Surgical Complications in Clinical Practice	**Dr. Darrell Ong** Periodontal Regeneration: Breathing New Life into Ailing Dentition
3.00PM - 4.00PM	**Dr. Ho Lai-In** Revisiting Osteonecrosis of the Jaw	**Kol (Dr) Marissa binti Baharom** Expanding Horizon in Extraoral Prosthesis: Ocular Prosthetic Treatment in Malaysian Armed Forces Health Services
4.00PM - 4.30PM	*TEA BREAK @ Exhibition Hall 1 & 2 Foyer, Level G*	
Trade Exhibition Operation Hours: 9.00am - 6.00pm @ Exhibition Hall 1 & 2, Level G		

WORKSHOP

WORKSHOPS PROGRAMME SCHEDULE

DAY 1 17/01/2025 FRIDAY	**SCATE - MADPHS Community Engagement Competition** Meeting Room 306, KLCC 0900-1300			
DAY 2 18/01/2025 SATURDAY	**Scientific Oral Presentation Competition** Meeting Room 306, KLCC 0900-1700		**The Latest Layering Concept** Dr. Liu Jing Jin Meeting Room 304, KLCC 1400-1700	
DAY 3 19/01/2025 SUNDAY	**Optimising Endodontic Practice with the TEP Method** Prof. Erick Souza The Dental City 0830-1500		**Peri-implant Soft Tissue Management** Dr. Jerry Lin Meeting Room 306, KLCC 1400-1700	
	INCLUSIVE CARE DENTAL ASSISTANT TRAINING Meeting Room 306, KLCC *BY INVITATION ONLY*	**Managing Children with Special Needs** AP Dr Ilham Wan Mokhtar 0900-0930	**Managing Adults and Elderly with Special Needs** AP Dr Mas Suryalis Ahmad 0930-1000	**Hands-on Demonstration and Simulation** 1030-1230
DAY 4 20/01/2025 MONDAY POST CONGRESS	**New Prespectives in Bone Regeneration** Dr. Jerry Lin Meeting Room 306, KLCC 0900-1700			

DR. HAMED FESHARAKI

Dr. Hamed Fesharaki is a distinguished dentist and entrepreneur with a remarkable journey that began with academic excellence. A recipient of the prestigious Trinity College Foundation scholarship, he received his Bachelor of Dental Science from the University of Dublin – Trinity College. Upon completing his studies, Dr. Fesharaki ventured to Singapore, where he pioneered a groundbreaking concept in dentistry. In 2016, he established the first see-through dental office, revolutionizing patient care by introducing unprecedented transparency. This innovative approach not only set new standards in the industry but also reflected Dr. Fesharaki's dedication to enhancing the dentist-patient relationship. He then continued to have a few clinics in Singapore before retiring from practical dentistry and co-founding Adravision. Currently, he stands as the CEO and co-founder of Adravision, a trailblazing venture utilizing artificial intelligence to enhance dental care. Adravision's cutting-edge technology processes dental X-rays, providing comprehensive insights within seconds to automate dentists' workflow and improve patient care, showcasing Dr. Fesharaki's commitment to advancing patient-centric solutions in the dental industry.

SPEAKER'S LECTURE:
REVOLUTIONIZING DENTISTRY: THE ROLE OF AI ACROSS THE DENTAL ECOSYSTEM

Artificial Intelligence (AI) is transforming industries worldwide, and dentistry is no exception. This lecture delves into the groundbreaking applications of AI across the dental ecosystem, highlighting how it benefits every stakeholder—from dentists to insurance companies and patients.

For dentists, AI offers unparalleled tools for diagnosis, treatment planning, and patient communication, enhancing clinical outcomes and efficiency. For insurance companies, it provides powerful capabilities for claim validation, fraud detection, and streamlined workflows, saving time and resources. For patients, AI ensures greater transparency, accuracy, and personalized care, fostering trust and satisfaction.

Through real-world examples, case studies, and a forward-looking perspective, this session will explore how AI is reshaping workflows, improving decision-making, and driving collaboration among stakeholders in the dental market. Attendees will leave with actionable insights into how they can leverage AI to stay ahead in this rapidly evolving field.

Join us to discover how the integration of AI is creating a smarter, more connected future for dentistry—one where technology and human expertise go hand in hand to elevate the standard of care.

DR. KHAIRUL ANWAR SANUSI

BDS (UM)

Dr Khairul Anwar Sanusi graduated from Universiti Malaya in 2012, served in the government service for 2 years in Johor, then in 2015, opened his dental clinic in Putrajaya. He has a special interest in digital dentistry and was one of the early adopters of dental 3D printing in Malaysia working to improve the workflow of implantology, orthodontics and prosthodontics. Currently he is the organiser and speaker for Everyday Dentistry offering personalised workshops on 3D printing for dentistry and digital dentures. He has a passion for teaching and sharing with fellow practitioners looking forward to advance the practice of dentistry to benefit the public in Malaysia and the world.

SPEAKER'S LECTURE: PREDICTABLE 3D PRINTED RESTORATIONS & PROSTHESES

3D printing in dentistry is gaining popularity and is no longer a niche workflow with many clinics acquiring even multiple 3D printers to vertically integrate production in-office. The capability of such equipments to provide same-day or single visit restorations and prostheses either fixed or removable widens our service offerings to our patients. Offering time-critical service to the public comes with the not-insignificant stress of making sure the product that we are 3D printing will come out right, practically perfect, every single time. 5% or even 1% chance of print failure may not be an acceptable risk for many practitioners. There are numerous causes & modes of failure in 3D printing. The good news is, basically all of them are well understood and documented with solutions and mitigation strategies. This lecture will emphasise on understanding the cause of 3D printing problems, solutions to prevent printing failure and good practice of 3D printing pre-processing, post-processing and maintenance to ensure great outcome for our clients.

DR. SONIA LEE

BDS (PIDC), MFDS RCS (EDINBURGH), MDS (PROSTHODONTICS) (SINGAPORE)

"The aim of education is to transform mirrors into windows."

Dr. Sonia Lee currently serves as a teaching and clinical supervisor for undergraduate students at the International Medical University (IMU). She is also frequently invited to deliver lectures and lead workshops, both domestically and internationally, focusing on topics such as dental photography, fixed prosthodontics, and dental implants. She earned her Bachelor of Dental Surgery from Penang International Dental College, Malaysia, and is a member of the Royal College of Surgeons Edinburgh. Dr. Lee completed advanced specialty training and attained her Masters of Prosthodontics at the National University of Singapore. Her expertise lies in complex prosthodontics training, dental implants, dental aesthetics, digital dentistry, and contemporary materials, and she also has a special interest in dental photography. Currently, she practices at Clarity Dental Clinic alongside a team of clinicians with diverse specialties who share a common vision, mission, and treatment philosophy.

SPEAKER'S LECTURE: TO POST OR NOT TO POST

In modern dentistry, post placement in endodontically treated teeth remains a topic of debate. With advancements in materials and techniques, clinicians are often faced with the question of when, where, and how to use posts to ensure the most effective outcomes for their patients.

This lecture will cover:

- Decision-making criteria for when posts are beneficial or potentially detrimental. (indications and contraindications for post placement)
- The influence of tooth type, remaining tooth structure, and aesthetic requirements on post selection.
- Evidence-based insights into post materials and techniques to optimize long-term success and durability.
- When to use posts, avoid them, or opt for endocrowns in restoring endodontically treated teeth.

DR. LEON CHEN

DMD., MS., DBA., PD.

- Graduate of Harvard University, School of Dental Medicine, DMD., 93 Full Scholarship with Cum Laude
- Completed a one-year research residency at Forsyth Institute Boston under the direction of Dr. Sigmund Socransky
- Graduate of Northwestern University, Dental School, MS., 95 Full Scholarship with Specialty Certification in Periodontics
- Received Presidential Award from President Ronald Reagan
- Inventor of HSC Technique, One Drill Implant, Sinus Implant, and an algorithm software for immediate implant
- Co-inventor of Implant Navigation & Osseofuse Implant System
- Clinical consultant for Osseofuse International Inc.
- Founder and CEO of the Dental Implant Institute
- Founder of Global Implant Academy Minimally Invasive Dentistry
- Founder and President of Taiwan Implant Academy Minimally Invasive Dentistry
- Director of Dean's Advisory Board, Harvard University, School of Dental Medicine, 2012-2022
- Appointed Dental Implant Expert Witness by the California Supreme Court
- Editor of JIACD, Dental Implantology Update, International Magazine of Oral Implantology
- Diplomate and Fellow of ICOI, IDIA, GIAMID
- Featured speaker of AAP, ADA, ICOI, IDIA, AO, GIAMID

Dr. Leon Chen boasts over 30 years of pioneering advancements in dental implantology. His groundbreaking Hydraulic Sinus Condensing (HSC) Technique, published in the 2005 Journal of Periodontology, remains a pivotal work, setting the gold standard for minimally invasive sinus lift techniques.

In 1996, Dr. Chen invented a water pressure-utilizing drill, a milestone innovation facilitating sinus cavity access without perforating the sinus membrane. He was at the forefront of utilizing EMD for root coverage and sinus lift procedures.

Dr. Chen's contributions encompass various techniques, including flapless sinus lifts, 5-in-1 immediate loading methods, vertical augmentation without membranes or blocks, and the challenging "lingual augmentation." He is presently spearheading the development of the "SinusFuse" self-lift sinus implant a procedure and technology aiming to simplify complex sinus lift implant cases into routine procedures.

He is currently developing algorithm software, based on his theory Leon's box, to calculate bone volume before bone grafts and immediate implants, streamlining pre-operative assessments.

A Harvard U. graduate and Northwestern U. periodontist, Dr. Chen co-founded the globally acclaimed Dental Implant Institute Las Vegas, known for its excellence in implant treatment and education. He also serves as a consultant to multiple implant and publishing companies.

With a portfolio exceeding 50 worldwide patents and trademarks, Dr. Chen's innovations span surgical instruments, bone materials, immediate implant algorithm software, and implant prosthodontic components.

In 2015, Dr. Chen's patented "one drill implant system" received dual gold medals at the INPEX meeting in Pittsburgh, USA. This pioneering invention promises implant surgeries in under 2 minutes, consolidating multiple drills into one, significantly reducing infection risks and post-operative discomfort.

SPEAKER'S LECTURE:
ONE DRILL IMPLANT SYSTEM AND SINUS IMPLANT

The OneDrill Implant System is the first and only implant system with global patents that ensures excellent primary stability, even in immediate implants or cases with severe bone loss requiring simultaneous bone grafting. It offers dentists a simple, precise, and efficient solution, reducing procedure time by at least half for both dentists and patients.

SinusFuse is the first and only FDA-approved implant for sinus procedures. Its patented design allows dentists to complete sinus implant surgeries in as little as 10 minutes, performing bone grafting and sinus lifting simultaneously during implantation.

DR. BEN C. NG

B.D.S., F.I.C.O.I., F.I.T.I., F.I.C.D.

- Graduated Bachelor of Dental Surgery (B.D.S.) in 1980 from Osmania University, Hyderabad, India.
- Started private general dental practice in 1983 up to present, with practice limited only to Dental Implants & Facial Therapeutic/Aesthetic Enhancement.
- Completed Comprehensive Lecture & Clinical Training on Therapeutic/Cosmetic Botox® & Dermal Fillers in March 2013, Los Angeles, USA
- Completed Comprehensive Lecture & Clinical Training on Advanced Facial Aesthetics Enhancement Procedures using Botox® & Dermal Fillers in July 2014 at Centre for Dental Implants, University of Miami, USA.
- Completed the Hands-on Comprehensive Clinical Workshop on Facial Anatomy & Cadaver Symposium Clinical Training and Absorbable PDO Threads on May 14th 2016 in Las Vegas, NV.
- Founding Member & Past President of Malaysian Oro-Facial Therapeutic & Aesthetic Association 2019 (MOTAA)

SPEAKER'S LECTURE: MEETING OUR PATIENTS' DEMANDS - REDEFINING OUR BOUNDARIES

"Facial Aesthetics Now & Future in Dental Practice - Making a Difference"

For over decades, dental surgeons have been treating patients mainly within the oral cavity. We have never look beyond the Orbicularis Oris! We have a developed a tunnel syndrome! A paradigm shift in the treatment modalities of dental surgeons, have brought about a new dimension to venture beyond the oral cavity. Dental surgeons are the 'experts' in facial aesthetics, as they are adapted in various aspects of facial restoration and well-versed in anatomy of human head and neck and a great deal of musculatures, nerves and vessels. Many of us think of Botox® primarily as a cosmetic treatment for lines and wrinkles on the face, but the botulinum toxin that Botox® is derived from, has a long history of medical therapeutic uses such as in cervical dystonia, hyperhidrosis, strabismus and blepharospasm. Neurotoxins and Dermal Fillers are now been increasingly used in dentistry as well, due to its therapeutic uses in treatment of certain oral conditions, and have direct aesthetic consequences. As people ages, voids and 'drop down' of facial tissues can be augmented/enhanced using fillers with very satisfactory result. As demands for non-invasive, non-surgical treatment grows, it's time to incorporate aesthetic solutions into your practice! Meet your demanding patients' needs by giving them a safe and effective alternative to surgery that results in improved, younger look & vibrant facial features. Facial aesthetics, the dental surgeon's way to make a difference.

DR. PRAVEEN GILL

BDS (Mal), MClinDent Orthodontics (London), MOrth RCS (England)

Dr Praveen Gill received her dental degree from University of Malaya in 2005. She later went on to specialise in Orthodontics at the Eastman Dental Institute, University College London, UK where she graduated with a distinction. She received a gold medal from the Royal College of Surgeons for the MOrth Part 1 exam and was admitted as a specialist orthodontist in 2012. Dr Gill is driven by a true passion for smile aesthetics in her work. With over 13 years of orthodontic experience, she has had the privilege of transforming smiles and improving the quality of lives of countless of patients. She is currently working in private practice in Pantai Hospital and several other clinics in Kuala Lumpur. Dr Gill is passionate about delivering cutting-edge orthodontic care, combining advanced technology with patient-centred treatment. Her main clinical interests are interceptive treatment, growth modification, surgical and digital orthodontics

SPEAKER'S LECTURE:
THE DIGITAL REVOLUTION: HOW TECHNOLOGY IS SHAPING THE FUTURE OF ORTHODONTICS

The success of clear aligners in orthodontic treatment is driven by the advancement of digital technology.

Digital innovations are transforming the field of orthodontics and redefining traditional orthodontic practice. These breakthroughs and cutting-edge tools not only enhance clinical precision but also improve patient experiences by reducing treatment time and elevating overall treatment success.

This presentation will cover key technological advancements, focusing on the role of clear aligners, such as AI-assisted treatment planning, advanced imaging, clear aligner advancements, minimally invasive orthodontics and remote monitoring systems.

Attendees will gain insights into real-world applications of these technologies and how this is shaping the future of patient care. A selection of interesting cases will be shared that demonstrate and highlight the added value these innovations bring to clinical management of orthodontic patients.

DR. SABRINA CHIUNG-HUA HUANG

Sabrina Chiung-Hua Huang D.D.S
Certified orthodontist in Taiwan
Clinical Consultant, Department of Orthodontics, National Cheng Kung University Hospital
Big Apple Dental Clinic in Tainan, Taiwan
Taipei Smile Dental Clinic in Taipei, Taiwan

Dr. Huang is a certified orthodontist in Taiwan.
Dr. Huang practices in Tainan, Taiwan and has lectured internationally. She is a certified Invisalign speaker and shares many tips essential for maximising the potential of the system. In private practice she has become known for interdisciplinary treatment and undertaking difficult and unusual cases from which she has learned some very advanced ideas and applied them successfully, achieving great finished cases.

SPEAKER'S LECTURE:
THINK OUTSIDE THE BOX: THE OTHER WAY OF CHANGING THE SMILE

At present time, the number of adult patients seeking for orthodontic treatment increased significantly. It is not uncommon that patients' chief concerns are not crooked teeth but to improve their appearance and smile, especially those with skeletal discrepancies.

Most orthodontists focus more on biomechanics of how to move the teeth, rather than how to change the "smile frame".

Altering jaw position by relieving occlusal interference, therby inducing a "jump" to allow proper facial expression muscle activities, could harmonize the profile, even without using elastics or mini-screws.

In this presentation, how to precisely relieve the occlusal interferences to induce jaw relationship change (bite jump) will be discussed.

ASSOC. PROF. DR. RAMA KRSNA RAJANDRAN

MBBS (Malaya), DDS (UKM), MDS OMFS (Distinction), MFDS (Edinburgh)

Graduated with Doctor of Dental Surgery (DDS) from Universiti Kebangsaan Malaysia in 2004, under the Public Service Department Scholarship. Completed Master of Dental Science (MDS) in Oral and Maxillofacial Surgery with Distinction from the University of Hong Kong in 2010, under the SLAI (Ministry of Higher Education of Malaysia) Scholarship. Obtained Membership of the Royal College of Surgeons (Edinburgh) in 2009. Graduated with Bachelor of Medicine and Bachelor of Surgery (MBBS) from Universiti Malaya in 2015, under scholarship. Currently a Consultant Oral & Maxillofacial Surgeon at UKM Specialist Centre of Universiti Kebangsaan Malaysia. Currently Head of Programme of the Doctor in Clinical Dentistry (DClinDent) in Oral & Maxillofacial Surgery at the Faculty of Dentistry at Universiti Kebangsaan Malaysia. Currently an Associate Professor in the Department of Oral & Maxillofacial Surgery at the Faculty of Dentistry at Universiti Kebangsaan Malaysia. Recepient of the Excellent Service Award (Anugerah Perkhidmatan Cemerlang) from the Faculty of Dentistry at Universiti Kebangsaan Malaysia in 2017. Faculty Member of SORG South-East Asia. Ordinary Member of various associations, including the Malaysian Association of Oral and Maxillofacial Surgeons (MAOMS), International Association of Oral and Maxillofacial Surgeons, Malaysian Sleep Society, and AO Foundation. Contributed to multiple international collaborations, research work, and publications. Played a part in the Organising Committee of numerous conferences and workshops, including Malaysian International Dental Exhibition and Conference (MIDEC), International Congress Pan Asia Academy of Facial Plastic & Reconstructive Surgery, China-Malaysia Conjoint Conference of Oral & Maxillofacial Surgery, and more.

SPEAKER'S LECTURE:
BREATH OF LIFE: TRANSFORMING DENTISTRY WITH AIRWAY INTELLIGENCE

Delve into the groundbreaking synergy between dental health and airway intelligence! Explore how understanding the breath of life can elevate your dental practice to new heights, championing whole-patient wellness and unlocking the key to transformative care. Don't miss this opportunity to revolutionize your approach to dentistry and embrace the power of the airway!

DR. CHEN YE HONG

BDS, IC-ABDSM, GDipDSM

- Graduated from National University Singapore with BDS.
- Attained IC-ABDSM (International Certificant of American Board of Dental Sleep Medicine) - examination in 2020.
- Graduate Diploma Dental Sleep Medicine (CoLDS College of London Dental School)
- CertBBM - Certificate of Buteyko Breathing Method (International Certified Instructor)
- Established Malaysia Dentofacial Sleep Society (MDSS) and currently serves as founding president.
- Founded DentSleep International – the 1ST dental sleep medicine academy in Malaysia, and serves as director and program director.
- Member of America Association of Dental Sleep Medicine
- Member of World Dentofacial Sleep Society

Recent regional invitation to share Dental Sleep Medicine talks .

- March 14 Sleep 2024 Russia (On line)- Women & Sleep ~ A Dentist's Perspective
- July 3 - Philippines Orthodontic Society -Don't Take My Breath Away—The Role of Orthodontics in the Management of Obstructive Sleep Apnea.
- August 8,9 Unity in ICD Seminar - Indonesia . Lecture v& Workshop. A DENTIST'S ROLE IN MANAGING SNORING & OBSTRUCTIVE SLEEP APNEA
- August 23 - Asia Pacific Dental Sleep Medicine Fellowship Day - Challenges in Dental Sleep Medicine
- August 30 Malaysia Thoracic Society - A DENTIST' ROLE IN MANAGING Sleep Related Breathing Disorder
- November 9 World Dentofacial Society Event at San Francisco, USA. - Mandibular Advancement Device Treatment Protocol, To Treat or Not To Treat.
- Main speaker at International Comprehensive Dental Sleep Course (2023-2024)

SPEAKER'S LECTURE: DENTIST'S ROLE IN MANAGEMENT OF SNORING & OBSTRUCTIVE SLEEP APNEA

Obstructive sleep apnea (OSA) is a common condition and the most prevalent form of sleep apnea. It is a growing threat to individuals and presents such dangerous health risks. Sleep physicians and qualified dentists have essential roles in addressing the problem and giving treatment. When doctors and dentists work together, patients have the best opportunity to treat their OSA effectively. OSA is a multifactorial disorder with anatomical and/or physiological etiologies and various predisposing or risk factors. Several craniofacial anatomical features have also been associated with OSA, including a retrognathic (posteriorly positioned) or micrognathic (small) mandible, retrognathic maxilla (midface deficiency), hyperdivergent growth pattern or dolichocephalic facial type (long and narrow faces), high and narrow palate, inferiorly positioned hyoid bone, enlarged tongue, and lengthy soft palate, as identified by studies. Dentists have expertise in craniofacial structures and a distinct advantage in identifying individuals with craniofacial features associated with OSA during basic clinical examinations in their routine practice. Such identification allows for proper risk assessment for OSA based on medical history, clinical examination, and validated screening questionnaires . Thus, dentists may play a vital role in OSA screening going beyond the scope of a typical clinical examination, through incorporating inquiries regarding sleep-related issues such as snoring, sleepiness, and sleep quality.

PROF. LIM TONG WAH

BDS (Malaya), MClinDent in Prosthodontics (London), MProsRCS (Edinburgh), AM (Malaysia), FHEA (UK)

Prof. Lim earned his dentistry degree from the Faculty of Dentistry at the University of Malaya. He received a government scholarship for his full-time specialist training in Prosthodontics at the Dental Institute of Guy's Hospital, King's College London, London, UK, and passed the Membership in Prosthodontics Examination at the Royal College of Surgeons in Edinburgh. Later, in 2016, he obtained a Fellowship in Advanced Periodontology and Implantology from the University of Genova, Italy. In 2019, Prof. Lim was awarded the IDCMR scholarship for a Faculty Exchange Program in Prosthodontics at Mahidol University, Thailand. At present, Prof. Lim is pursuing his PhD (part-time) and responsible for teaching both undergraduate and postgraduate prosthodontics programmes at the Faculty of Dentistry, The University of Hong Kong. Serving as a committee member for the Hong Kong Prosthetic Dentistry Society, he is also the former president of the Malaysian Association of Aesthetic Dentistry (2020-2021) and Assistant Secretary of the Asian Academy of Aesthetic Dentistry (2018-2021). Prof. Lim has been invited to deliver and facilitate over 50 lectures and workshops at various local and international events. Boasting more than 100 peer-reviewed publications, conference proceedings, books, and book chapters, he has received nearly 50 international and national awards for his contributions to research, teaching, and invention & innovation.

SPEAKER'S LECTURE: AN OVERVIEW OF THE DAHL CONCEPT

The Dahl Concept refers to the relative axial tooth movement that occurs when a localized appliance or restorations are placed in supra-occlusion, allowing the occlusion to re-establish complete arch contacts over time. Introduced nearly half a century ago, this technique offers a safe, straightforward, and minimally invasive method for creating localized interocclusal space for definitive restorations. Traditionally, it has been used for managing localized tooth wear due to the lack of interocclusal space following dentoalveolar compensation, presenting a challenge for restorative dentists. Therefore, managing localized anterior tooth wear can be demanding, as it requires preserving the remaining tooth structure while ensuring that the teeth and restorations function effectively over a prolonged period. Currently, this principle is being applied to a diverse range of clinical situations, including correcting localized distortions in the occlusal plane and creating interocclusal space for resin-bonded fixed partial dentures. This presentation will review the literature and explore the potential applications related to the Dahl Concept.

DR. LIU JING JIN

Dr. Liu Jing Jin is widely known in China and beyond as a true connoisseur of natural morphology and an unsurpassed specialist in its reproduction. Dr. Liu is the director of Jiaxing Zhiren Dental Clinic and a Distinguished Member of the Chinese Dental Association. He studied the art of direct restoration in China, Italy and Japan, where he delved into advanced concepts and subsequently developed his own unique working methodology. In addition, he is the author and translator of many articles and scientific works into Chinese

- Member of Chinese Stomatological Association.
- Chinese aesthetic dental director.
- Member of Bioemulation
- Director of Jiaxing Zhizhen Dental Clinic.
- Special lecturer of Osstem Implant,Korean.
- Special lecturer of Micerium,Italian.
- Special lecturer of Coltene, Switzerland.
- Special lecturer of Ivoclar.

Cases selected into the 7-year postgraduate teaching materials in China. More than 200 hands-on course and lectures on implant and aesthetics were held nationwide, and about 5000 Chinese dentists were trained.

SPEAKER'S LECTURE: TRULY UNDERSTANDING THE COLOUR IN NATURAL TOOTH

This lecture aims to provide a comprehensive exploration of the aesthetic aspects of dental composites, focusing on the intricate relationship between natural tooth colour and restorative materials, through enrichment of knowledge and practical skills in delivering aesthetically pleasing dental restorations that truly reflect the beauty of natural teeth.

Participants can expect a deep dive into the following key topics:

- Understanding Tooth Colour: Definition & Importance, and Optical Properties
- Elements Influencing Tooth Colour: Dentin & Enamel Composition, and Shade Mapping Techniques
- Reevaluating Shade Guides: Abandoning Traditional Shade Concepts, and Emerging Trends
- The Role of Dentin: Dentin's Colour Characteristics and Properties

By the end of this lecture, participants will:

- Gain a deeper understanding of tooth colour dynamics and their implications for aesthetic dentistry.
- Learn to identify and utilise various elements that affect tooth colour in your practice.
- Critically assess traditional shade guides and explore innovative alternatives.
- Enhance your skills in achieving natural-looking restorations through effective use of dental composites.

DR. MICHAEL N. MANDIKOS

BDS (Hons), PG Pros, MS Biomaterials

Dr. Mandikos is a registered specialist in Prosthodontics.

Michael received his Bachelor of Dental Science Degree with Honours, from the University of Queensland and in 1998 he completed a three-year residency program at the State University of New York at Buffalo (USA), graduating with a Certificate in Prosthodontics and Masters Degree in Biomaterials. He has researched composite resin materials and published research papers in Australian and international journals on clinical and dental materials topics, as well as many clinical technique articles in local dental magazines.

Michael is a Visiting Specialist Prosthodontist to the University of Queensland Dental School and formerly to the Royal Australian Air Force. He is a Reviewer for three dental Journals and is a product evaluator for several dental companies. Michael has presented continuing education programs at Dental meetings throughout Australia, Southeast Asia, Greece, Antarctica and the USA and maintains a Private Practice limited to Implant and Restorative

SPEAKER'S LECTURE:
GOLDEN RULES FOR MAXIMIZING SUCCESS FOR ALL-CERAMIC CROWNS AND PORCELAIN VENEERS

All-ceramic restorations are the gold standard for indirect restoration of anterior teeth. The clinician can now use porcelain veneers or crowns, to create long-lasting, highly aesthetic restorations that are functional, biocompatible and that mimic nature. These restorations were once somewhat experimental and fraught with problems, however today, they can be applied to almost all clinical situations with outstanding success, provided the Clinician is familiar with the relevant properties and bonding protocols for the restorations as well as careful with their case selection, treatment planning and tooth preparation and cementation procedures.

In this 2-part presentation, Dr Mandikos will reflect on 30 years of clinical experience with all-ceramic restorations (crowns and veneers) for restoring anterior teeth, and will explain the "Golden Rules" that must be adhered to, in order to achieve predictable outstanding success in both function and aesthetics.

What you will learn:

- Appropriate Case Selection (some teeth just cannot be treated with veneers)
- Occlusal schemes that allow or limit the use of all ceramics
- Choosing the correct porcelain system for each case
- Principles of preparation that optimize success and limit failure
- Preparations for all-ceramic crowns and for porcelain veneers
- Records and Information to send to the Laboratory to ensure success
- Correct Cementation and Bonding Procedures for All-ceramic Crowns and Veneers

PROF. ERICK MIRANDA SOUZA

BDS, MSc, PhD

Professor Erick Miranda Souza earned his Bachelor's degree in Odontology from Universidade Federal do Maranhão, UFMA, Brasil. He later pursue advanced degrees in Endodontology, including a Ph.D. from Universidade Estadual Paulista Júlio de Mesquita Filho in 2008. His expertise lies in endodontic anatomy and material science. Currently, Professor Erick is a faculty member at his alma mater, where he teaches endodontics in both undergraduate and postgraduate courses.

In addition to his teaching role, Souza is actively involved in the Scientific Commission of the Conselho Regional de Odontologia do Maranhão, enhancing dental practice standards in the region. He has over a hundred publications, focusing on the impact of endodontic treatment on health outcomes.

SPEAKER'S LECTURE: RECONSIDERING THE APICAL LIMIT AS A RELEVANT SUCCESS PREDICTOR

One of the basic concepts of Endodontics is related to the idea that the length of instrumentation and obturation will directly influence the success rate of the treatment. This generally accepted concept is the basis for many scientific and philosophical discussions around this topic, ultimately raising various interpretations on the landmark for the so-called "ideal root canal length". Our purpose with this lecture is to demonstrate the scientific basis that led Endodontics to accept this general idea as valid, and to invite the audience to questioning the validity of such concept driving a very thoughting-full and scientifically supported reconsideration of these ideias. We will discuss the concepts of technical predictability and biological plausibility as the most important background to help the audience taking the best most supported clinical decisions regarding the vertical apical limit.

SPEAKER'S LECTURE: TO COMPACT OR NOT TO COMPACT THE GUTTA-PERCHA: WHAT IS THE CURRENT STATE OF ART?

Compaction of the gutta-percha is undoubtedly the most taught principle for the filling of prepared root canals worldwide. It is usually intuitively associated with a superior technical quality, improved sealing ability and higher success rate. Unfortunately, the literature points to the opposite. While several techniques have been proposed for cold and hot compaction of the GP, the industry brings fancy and expensive devices to the market turning them into highly desired gadgets inside the Endodontist imaginarium. For the sake of the audience we are focused on dismithfying such an idea, by bringing a top-notch and well constructed argument towards simplification of the filling procedure.

PROF. MINJU SONG

DDS, MSD, PhD

- DDS, MSD, PhD from Yonsei University, Seoul, Korea
- Residency program at the Department of Conservative Dentistry, Yonsei University Dental Hospital
- Fellowship at the Department of Conservative Dentistry, Gangnam Severance Dental Hospital, Yonsei University
- Clinical assistant professor at the Department of Conservative Dentistry, Gangnam Severance Dental Hospital, Yonsei University
- Visiting Assistant Project Scientist, Section of Restorative Dentistry, Division of Constitutive & Regenerative Sciences, UCLA School of Dentistry
- Assistant Professor in Department of Conservative Dentistry, Dankook University, Cheonan, Korea
- Chair of Department of Conservative Dentistry, Dankook University Dental Hospital

Currently,
Clinical Associate Professor in Department of Conservative Dentistry, National Health Insurance
Service Ilsan Hospital, Goyang, Korea

SPEAKER'S LECTURE:
VITAL PULP THERAPY WITH BIOCERAMICS

Vital pulp therapy is a long-standing procedure, with the first reported case of direct pulp capping using gold foil in 1756. Since the 1930s, direct pulp capping using calcium hydroxide-based materials has been widely performed for preserving the pulp. However, long-term clinical studies reported several restrictions such as tunnel defect of the dentin bridge, which led to limiting the procedure only to immature teeth. Recently, vital pulp therapy seems to be highlighted again. With bioceramics as a capping material, vital pulp therapy has reported favorable clinical outcomes even in mature teeth with carious exposure. It seemed to expand the indication and reduce negatively affecting factors compared to previously performed traditional vital pulp therapy. In addition, in 2019, the European Society of Endodontology (ESE) suggested that the enhanced protocol (using magnification, disinfection irrigant, and calcium silicate cement) leads to a high level of success even after complete caries removal and pulp exposure. Bioceramics have been gradually upgraded to overcome traditional MTA's limitations, such as long setting time and discoloration, and established as the main capping material for vital pulp therapy. Recently, premixed putty-type bioceramics with no mixing error and handling difficulty have also been introduced. Today, this presentation will point out three keys of the enhanced protocol of vital pulp therapy - the use of magnification, disinfection irrigant, and bioceramic cement, and describe the characteristics of recently introduced premixed putty-type bioceramics with clinical cases.

SPEAKER'S LECTURE:
OUTCOMES OF REGENERATIVE ENDODONTIC PROCEDURES

Regenerative endodontic procedure (REP) is one of the treatment choices for immature permanent teeth with pulp necrosis. Based on the current regenerative protocol from the American Association of Endodontists (AAE), REP is primarily accomplished through disinfection of the root canal using Ca(OH)2 or triple antibiotic paste (TAP), and induced bleeding into the canal, followed by placement of mineral trioxide aggregate (MTA) barrier and coronal restoration. The primary objectives of REPs are the resolution of apical periodontitis, continued root development, apical closure, and/or positive responses to vitality testing. After its introduction in 2004, numerous studies have demonstrated successful clinical outcomes of REPs in teeth with apical periodontitis and periapical abscess. Recently, there is also growing research presenting several drawbacks and unfavorable outcomes of REPs and underscoring the radiographic evaluation for root development and canal calcification. Today, this presentation will overview REP step by step and share the favorable and unfavorable outcomes with clinical cases.

PROF. DR. SABRI MUSA

BDS, MSc, PhD

Professor Dr. Sabri Musa received his Bachelor of Dental Surgery from Universiti Malaya in 1989, and after graduation, he joined the Faculty of Dentistry, Universiti Malaya, Kuala Lumpur, Malaysia. He began his clinical/research training at the Eastman Dental Institute, University of London, where he received a Master of Science in Paediatric Dentistry with a 3M Prize Award in 1993. He was appointed as a lecturer in the same year, and in 2017, promoted to Professor of Paediatric Dentistry. He received his doctorate (PhD) from Universiti Malaya in 2020. He is an academician as well as a specialist paediatric dentistry practitioner at the faculty and the Universiti Malaya Specialist Centre. Since 2000, he has served as Dean of the Faculty of Dentistry, Deputy Dean (Postgraduate) of the Faculty of Dentistry, Head of the Department of Paediatric Dentistry and Orthodontics, Chairman for Problem Based Learning, and Head of the Regenerative Dentistry Research Group, Faculty of Dentistry, Universiti Malaya. Professor Dr Sabri Musa was appointed Deputy Vice-Chancellor (Student Affairs) at Universiti Malaya for three years before his retirement in June 2024. Currently, he served as a contract Professor at the Faculty of Dentistry, Universiti Malaya. Professor Dr. Sabri is also an external examiner in paediatric dentistry at various public and private dental universities. He has published numerous scientific papers and chapter in books, with his research focus on Paediatric Dentistry and Dental Stem Cells. Since 2015, he has served as a panel member for the Malaysian Qualifications Agency in the field of dentistry. He was appointed a member of the Malaysian Dental Council in 2021-22. He is the Chairman of the Dental Specialty Sub-committee (Paediatric Dentistry) since 2022.

SPEAKER'S LECTURE: CURRENT TRENDS IN PAEDIATRIC DENTISTRY: WHERE ARE WE?

Paediatric dentistry aims to make dental visits positive and stress-free for young patients. Regular dental visits and early preventive dental care can mitigate dental issues and promote good oral health habits that can last a lifetime. The presenter will share current trends in this dynamic and evolving field of paediatric dentistry including minimal invasive dentistry, sedation, laser, digital and tele-dentistry, which will enhance patient experience, making dental care more efficient and effective, and reducing the need for more invasive procedures. This comprehensive perspective of the exciting developments in paediatric dentistry will contribute towards attracting new patients seeking the best possible care for their children.

DR. HA KIEN OON

BDS (Malaya), MBBS (Malaya), FDSRCS (England)

Oral and Maxillofacial Surgeon Subang Dental Specialist Clinic

Dr. Ha completed his Bachelor of Dental Surgery (BDS) in University of Malaya in the year 1994 and obtained his Fellowship in Dental Surgery Royal College of Surgeons of England (FDSRCS) in 1998. He then continued to study Bachelor of Medicine Bachelor of Surgery (MBBS) in University Malaya and graduated in the year 2002. After which he underwent his houseman training in University Malaya Medical Centre and worked as a medical officer in Hospital Tengku Ampuan Rahimah, Klang until 2006. He was a senior lecturer in the Department of Oral Maxillofacial Surgery, University of Malaya from 2006-2012, training undergraduate and postgraduate students. He is a life member for the Malaysian Association of Oral Maxillofacial Surgeons, member of the Asian Association of Oral and Maxillofacial Surgeon. He is also a fellow and international member of the Korean College of Cosmetic Surgery (KCCS), South Korea. His areas of interest include Dental and Facial cosmetic surgery, Dental and maxillofacial implantology, Management of medically compromised patients and complicatons in dentistry. He actively involved in seminars, workshop and conferences organized locally and internationally.

SPEAKER'S LECTURE:
SURGICAL COMPLICATIONS IN CLINICAL PRACTICE

Clinical practice can be very fulfilling but stressful at time, especially when dealing with complications.

Early recognition and prompt management of complications are very important in the clinical management of patients. The ability to identify potential complications at the time of patient assessment, avoiding them, and actively looking for these complications are very important in the proper management of patients.

In this lecture, we will discuss the fundamental principles in clinical management of patient and present to you the common complications and management of such complications

KOL. DR. MARISSA BAHAROM

DDS, MSc, FRACDS

- Prosthodontics Specialist working in Ministry of Defence. Graduated from Universiti Sains Malaysia and receiving postgraduate training from Universiti Sains Malaysia in Prosthodontics Dentistry.
- 19 years of experience in various aspect of Dentistry field such as clinical, teaching, writing and administrative work within the Dental Service of Malaysian Armed Forces (DSMAF).
- 2023-Present Prosthodontics Specialist in Dental Specialist Centre Tuanku Mizan Millitary Hospital, Kuala Lumpur
- 2021-Present Programme Chairman of Diploma of Dental Technology Armed Force Health Training Institute in Terendak Camp, Malacca
- 2015-2023 Prosthodontics Specialist in Terendak Camp Dental Clinic, Malacca
- 2023 - Present Dental Specialties Education Committee (Prosthodontics)
- 2020-present Malaysian Association for Prosthodontics
- 2005-2009 Dental Officer. 7th Brigade Infantry of Malaysian Army in Mahkota Camp, Kluang JOhor

Publication

- 2021 Fracture Resistance and Patttern of Maxillary Anterior Teeth Restored with Metallic and Nonmetallic Post. World Journal of Dentistry , 2021; 12(3)

Teaching Experience

- 2013-present Visiting Lecturer for Diploma of Dental Technology

SPEAKER'S LECTURE:
EXPANDING HORIZON IN EXTRAORAL PROSTHESES: OCULAR PROSTHETIC TREATMENT IN MALAYSIAN ARMED FORCES HEALTH SERVICES

Malaysian Armed Forces Health Services have broadened its services to encompass the fabrication of extraoral prostheses. The multidisciplinary collaboration between the Dental and Ophthalmology departments of Hospital Angkatan Tentera Tuanku Mizan has led to the fabrication of ocular prosthesis for patients with ocular deformities or prosthesis loosening.

Ocular prostheses provide essential comfort, functionality, and aesthetics for patients with anophthalmia or enucleated eyes. However, socket contraction —shrinkage and tissue reduction in the orbital cavity —can create challenges in constructing a prosthesis thus led to loosening and instability of prostheses. This creates discomfort and issues such as discharge, cosmetic changes, and frequent dislodgement. Factors leading to socket contraction include trauma, surgical complications, infections, and poor prosthesis fit.

Treatments offer for patients with anopthalmia can be either or both from non invasive, non surgical to invasive, surgical procedure.

- Non-Surgical: Emphasizing socket condition with lubrication and a modification of prosthesis to ensure optimal fitting.
- Surgical: Socket reconstruction surgery (fornix deepening) will be planned if needed followed by the fabrication of a custom prosthesis. The procedure involved progressive socket enlargement with temporary prostheses to stabilize the fit, concluding with a final, custom-fitted prosthesis.

Replacement of ocular prostheses is necessary when wear, socket changes, or infections compromise fit and comfort. Challenges include high customization needs, emotional impact, and costs. Best practices in prosthesis care involve regular check-ups, patient education, and psychological support to improve patient comfort and appearance. Advancements in prosthetic materials and financial assistance planning are also critical for optimal outcomes.

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ASSOC. PROF. DR. ESHAMSUL SULAIMAN

BDS (UK), MFD.RCS (Ireland), MClinDent (Distinction in Prosthodontics, London).

Specialist and Senior Consultant Prosthodontist, Head of Implantology Unit, Department of Restorative Dentistry Faculty of Dentistry, University of Malaya Graduated with Bachelor of Dental Surgery from Queen's University of Belfast, United Kingdom in 1997. Obtained Membership of the Faculty of Dentistry from the Royal College of Surgeons, Ireland in 2000. Currently an Associate Professor and Senior Consultant Prosthodontist at the Department of Restorative Dentistry and Head of Implantology Unit at the Faculty of Dentistry, Universiti Malaya. Worked as a Senior Dental Officer at University Dental Hospital, Cardiff and Princess of Wales Hospital, North Glamorgan NHS Trust from 1997 to 2001. Postgraduate training in Prosthodontics (Master of Clinical Dentistry) with Distinction from the Eastman Dental Institute, University College London, United Kingdom in 2004. Completed University of Frankfurt Implant Certification in 2008, Dr Steigmann's Soft Tissue management in Implant Dentistry, Dr Homa Zadeh's VISTA course and Dr Salah Huwais' Osseodensification course. Recipient of the UCL Dental School Commemorative Award for his outstanding academic and clinical achievement during his postgraduate training in 2005. KOL for MegaGen Implant system and MINEC Honoured Member since 2020 Member of the Global Academy of Osseointegration (GAO) and KOL Community of Straumann Malaysia. Director & Coordinator of the University of Malaya Certificate of Oral Implantology basic and advanced courses and PASADENT Basic-to-Advanced Implantology course. Also, speaker and instructor at many implant courses in Malaysia as well invited speaker at many webinars and conferences outside Malaysia. 20 years' experience in oral implantology and actively involved in the clinical teaching of postgraduates in Oral Implantology since 2005. Winner at the MegaMind Clinical Case Study Competition 2022 in Seoul and the finalist at MegaMind 2023 Final League in Antalya, Turkiye.

SPEAKER'S LECTURE: PARAMETERS FOR IMPLANT SUCCESS IN THE AESTHETIC ZONE – PROSTHETIC VS BIOLOGICALLY DRIVEN IMPLANT DENTISTRY

Traditionally dental implants were placed according to the availability of the supporting bone. This approach often results in poorly positioned implants with subsequent functional and aesthetics compromised. Today, implant rehabilitation must fulfill both the functional and aesthetic demands as expectations of the patients continue to rise especially in the aesthetic zone. Prosthetic driven implant placement has become the contemporary approach in implant dentistry today. It demands optimum 3-dimensional implant position and prosthetic emergence profile. However, long term success of implant-supported restorations depends not only on the successful osseointegration and optimum implant position, but also on the long-term stability and health of both peri-implant crestal bone and supra-crestal soft tissue. Deficiencies of these two biological components always result in compromised aesthetics and in the long run may predispose to biological complications. Therefore, dentists must take into consideration the crestal bone thickness and supra-crestal soft phenotype and the implant position as well as the prosthesis design when planning and placing the dental implants. The synergistic between prosthetic and biologically driven approach is the key for the implant-rehabilitation success in the aesthetic zone. In this lecture, Assoc. Prof Dr Eshamsul will be sharing his clinical case management with emphasis on the biological requirements of hard and soft tissue thickness, and how to achieve optimum implant position and prosthetic emergence profile for long term success of implant therapy in the aesthetic zone.

"RESPECT THE TISSUES, IN RETURN THE TISSUES WILL RESPECT YOU"

DR. JERRY LIN

DDS, DMSc (HSDM)

- 2000-2004 Doctor of Medical Science in Oral Biology (DMSc), Harvard School of Dental Medicine(HSDM)
- 2000-2004 Certificate in Periodontics, HSDM
- 2015-present Lecturer, Harvard School of Dental Medicine
- 2007-present Assistant professor, Taipei Medical University
- 2005-present Clinical Instructor, Department of Periodontology, National Taiwan University Hospital
- 2006-present Diplomate, American Board of Periodontology
- 2010-present Diplomate, Academy of Dental Implantology, ROC
- 2007-present, Founder & Director, Jerry C. Lin, DDS, DMSc Dental Office
- 2013-present, Founder & Director, All Ceramic Studio
- 2007-present, Founder & Director, Institute for Advanced Dental Education
- 2022-2024 President, Academy of Dental Implantology ROC

SPEAKER'S LECTURE: AESTHETIC RECONSTRUCTION IN PERIODONTICS AND IMPLANT DENTISTRY

The contemporary periodontics and implant dentistry emphasize on not only functional rehabilitation but also esthetic aspects to achieve optimal results. In periodontics, periodontal regeneration has long been a standard of care treating periodontal diseases. Today we step farther to push the limits to regenerate bone on no wall defects and incorporate implants to achieve optimal results. Periodontal plastic surgery also play an important role to enhance esthetics by altering the soft tissue level both around teeth and prostheses. Implant esthetics relies on the synergy of multiple factors including optimal alveolar bone, proper implant position, good soft tissue contour and esthetic restorations. The management of alveolar bone can be regarded as building up the foundation for the esthetics. An ideal soft tissue profile can be created and supported with the presence of proper underlying alveolar bone. Moreover, healthy peri-implant soft tissue will further protect peri-implant bone from resorption in order to achieve the long-term stability. This presentation addresses the contemporary esthetic approaches for periodontics and implant dentistry. The goal of this lecture is to deliver systemic approaches and practical protocols for optimal periodontal and implant esthetics.

DR. DARRELL ONG

BDS, MS, FRCDC, Diplomate of the American Board of Periodontology

Education/Professional Qualifications

- 2024 Fellow of the Royal College of Dentists of Canada
- 2023 American Board Certification in Periodontology and Implant Dentistry
- 2019- 2022 Columbia University College of Dental Medicine (CUCDM) Master of Science (MS) in Periodontics
- 2008-2012 The National University of Singapore Bachelor of Dental Surgery (BDS)

Honors and Awards

- 2022 Northeastern Society of Periodontists (NESP) - Certificate of Recognition (for a clinical case) Regional award in memory of Drs. Paul Tannenbaum and Robert School Memorial for a clinical case
- 2022 1st Place Post-doctoral Research Poster presentation 2022 Birnberg Research Symposium, CUCDM
- 2021-2022 Tenenbaum Award in Periodontal Research
- 2021-2022 Abzug Award for Excellence in Periodontics
- 2020-2021 Appel Scholarship Award for outstanding clinical performance 2020-2021
- 2019-2020 Murray Schwartz Scholarship awarded for overall excellence Year 1 Periodontics training, CUCDM

Publications

Articles published in peer reviewed journals

- Ong J. M. D., Crasto G. J., Anwar E. J., Brooke R., Kang P. A standardized approach to extra oral and intra-oral digital photography. Accepted for publication, Journal of Videographical experiments (JOVE

Professional Employment

- Current Dentist at OrchardscottsDental (2022-present)
- Prior experience as a dentist in various institutions in Singapore (2012-2018)
- Part-time undergraduate clinical instructor at National University of Singapore (2023-present)

SPEAKER'S LECTURE: PERIODONTAL REGENERATION: BREATHING NEW LIFE INTO AILING DENTITION

"Teeth! They are very much in style. They must be very much worthwhile!" - Dr Seuss

Unfortunately, rescuing periodontally involved teeth has become much less popular than extracting and replacing them in recent times. However, there are many tools in our periodontal armamentarium that we can utilise to retain teeth that seem to have poor long term prognosis. One of the most powerful tools we can use is guided tissue regeneration. This presentation aims to detail a simple guide to identifying suitable teeth, and to explain the steps involved.

Learning Objectives:

- To identify teeth that are suitable to receive guided tissue regeneration
- To learn the steps in guided tissue regeneration for a predictable positive outcome

DR. PENGIRAN MUHAMMAD BADI'UZZAMAN BIN AWANG ISKANDERDZULKARNEIN

BDMS, MOSc Prostho, DrProstho

Dr. Pengiran is a Lecturer in Restorative Dentistry at the Kulliyyah of Dentistry, International Islamic University Malaysia (IIUM), with a specialized focus in Prosthodontics. He holds a Doctorate in Prosthodontics from Universiti Malaya, where he focused on comprehensive prosthodontic rehabilitation, digital dentistry workflows, and implantology.

Throughout his career, Dr. Pengiran has been honoured to share his knowledge internationally, delivering presentations and hands-on workshops in areas such as digital denture solutions and aesthetic indirect veneers. His engagements include speaking for the DGShape Digital Denture Solution organized by Fondaco Singapore and facilitating workshops on Smile Design and Aesthetic Indirect Veneer applications, where he combines theory with practical clinical techniques.

Dr. Pengiran's research interests include digital dentistry, Implantology and maxillofacial prosthetics. As a Key Opinion Leader (KOL) for Straumann Malaysia and an active member of professional organizations, including the Asian Academy of Prosthodontics (AAP), he is committed to advancing the field for both patient benefit and professional growth. He is particularly motivated by the potential of digital dentistry to enhance precision and improve accessibility to complex treatments, which he sees as a transformative path forward in dental care.

Among his recognitions, Dr. Pengiran holds awards such as first place in the Philippines Prosthodontics Society AAP Virtual Scientific Competition (2022) and the Innovation Awards (Product category) from Malaysia's Ministry of Health (2020). He values these honours as affirmations of his commitment to quality care and continuous learning, as well as inspirations to keep sharing knowledge.

SPEAKER'S LECTURE:
DIGITAL WORKFLOW IN ADVANCED DENTISTRY: FROM SCANNING TO FINAL RESTORATION

This lecture provides an in-depth look at the complete digital workflow in prosthodontics and implantology, covering each stage from digital impressions with intraoral scanning to CAD design of prosthetic components, digital implant planning, and 3D printing or milling for both temporary and final restorations. Using a case-based approach, the presentation explains each step in detail, discusses best practices, and addresses potential challenges. Attendees will gain valuable troubleshooting strategies to ensure precision, efficiency, and predictable outcomes in advanced dental treatments.

DR. ALEX HONG WERN JUIN

BDS (Adelaide), MJDF RCS (Eng), MFDS RCS (Ed), MFDS RCPS (Glasg), MClinDent (London), MOrthRCS (Eng), MOrthRCS (Ed), MOrth RCPS (Glasg), MRACDS (PDS), MRACDS Ortho (Aus), AM (Malaysia)

Dr Alex Hong obtained his BDS degree from the University of Adelaide in 2014, after which he practiced in private clinics throughout Melbourne, Australia. Pursuing his childhood passion for orthodontics, he completed his specialist orthodontic training at the UCL Eastman Dental Institute in London in 2019, becoming a certified specialist just before the age of 28. Dr Alex holds multiple prestigious memberships, both at the general dental and specialty levels with the Royal College of Surgeons in England, Edinburgh and Glasgow in the UK, as well as with the Royal Australasian College of Dental Surgeons in Australia. Dr Alex is currently a registered specialist orthodontist in both Australia and Malaysia. He serves as the Principal Orthodontist and Clinic Director at the well-established Hong Specialist Orthodontic Clinic in Johor Bahru, taking after the position of his father who was also an orthodontist. Dr Alex limits his practice to orthodontics, utilizing state-of-the-art facilities, techniques and materials to achieve optimal outcomes for his patients. He subspecialises in orthodontic cases involving orthognathic surgery and frequently manages complex cases involving impacted teeth. Beyond clinical practice, Dr Alex is also actively involved in both the MAO (Malaysian Association of Orthodontists) and the Malaysian Dental Association (MDA), where he currently serves as the Honorary Secretary for the MDA Southern Zone. Additionally, he is an Invisalign Platinum Elite provider and has recently joined Invisalign as a faculty speaker, contributing his expertise to professional development in orthodontics. Dr Alex is also currently pursuing his Postgraduate diploma in Advanced Aesthetic Dentistry at the UCL Eastman Dental Institute.

SPEAKER'S LECTURE:
A SECOND CHANCE FOR THE IMPACTED SECOND MOLAR

While most molars would find their way erupting into the oral cavity, some molars find their journey interrupted. These may be due to genetic disturbances, but occur more commonly due to physical impactions. The management of these impactions can be challenging due to the limited accessibility and complexity of mechanics that need to be applied. This lecture will recap and summarize the various clinical techniques and armamentarium needed to manage the impacted second molars of various difficulty levels, all in the name of giving them a second chance to erupt intraorally

DR. CAITLYN TAN KAI WEN

BDS, FICOI

Dr. Caitlyn Tan is a passionate dentist, a keen advocate for adhesive dentistry and the founder of BONDED Malaysia. She received her doctoral degree at Manipal University College Malaysia in 2016, and subsequently pursued her specific interest in adhesive dentistry and dental implantology. Having completed the Biomimetic Dentistry Mastership in the Alleman Center of Biomimetic Dentistry (USA), she is eager in helping dentists practise minimally invasive while reigniting their passion for restorative work. She believes that an adhesive approach to everyday restorative dentistry is the way forward to cutting less and preserving more, and regularly speaks at webinars and conferences locally and abroad, both in-person and online. She is also a Key Opinion Leader and Lecturer for Micerium and Aquacare. In 2022, her zeal for continuous education led her to found an educational institute, BONDED Malaysia to provide didactic training, hands on courses and mentorship for dentists in the region. Her interest in implant dentistry has also led to a Fellowship in the International Congress of Oral Implantologists (ICOI) and being a Key Opinion Leader (KOL) for Straumann. These practices of learning and teaching has cemented her belief that a dental professional's life ought to be a dynamic and constant learning and relearning process

SPEAKER'S LECTURE: REFINING ADHESIVE PROTOCOLS IN DAILY DENTISTRY

The dental landscape has evolved creating a paradigm shift with new workflows and perspectives. Adhesive dentistry mimics nature, conserves tooth structure, and halts the tooth death cycle by restoring the structural integrity of teeth. It is crucial that clinicians stay ahead of the latest advances in restorative techniques to achieve repeatable, predictable results for long term success. Dr. Caitlyn Tan will go over protocols such as rubber dam isolation tips and techniques, caries removal endpoint and the peripheral seal zone concept, immediate dentin sealing (IDS) techniques in indirect restorations to give your restorative journey a significant boost. In this presentation, you will gain a deeper understanding of adhesion and learn the science behind the protocols to supercharge and maximise the durability and success of your restorations.

DR. TENG PENG HUI

DDS (UKM), MFDS (RCS Edinburgh), MClinDent Endo with Distinction (KCL), M Endo (RCS Edinburgh)

Dr Teng obtained his Doctor of Dental Surgery qualification from National University of Malaysia (UKM) in 2016. He worked for the Ministry of Health and a private practice in Johor before embarking on a full-time endodontic specialist training in King's College London (KCL). Upon completion of his specialist training in 2022, Dr Teng was awarded Distinction in Master of Clinical Dentistry (Endodontology) by KCL. He then succeeded in the membership examination and received his Membership in Endodontics by the RCS Edinburgh.

Dr Teng had co-authored several scientific papers including the European Society of Endodontology (ESE) Position Statement on root resorption. He had also contributed to several chapters in renowned endodontic textbooks such as Pitt Ford & Problem-Based Learning in Endodontology and 3D Imaging in Endodontics. Dr Teng is a registered endodontist with Malaysian Dental Council and is currently working as a full-time private endodontist in Puchong and Johor Bahru. Besides, he is also a visiting clinical supervisor for undergraduate endodontic clinic in UKM.

SPEAKER'S LECTURE:
CRACKED TEETH: A DENTAL PANDEMIC?

Cracked teeth and longitudinal tooth fracture have become increasingly common in our clinical practice due to ageing population, improvement of general dental care resulting in more complex treatment modalities to save the tooth rather than extracting it, improved diagnosis and awareness among the practitioners and patients. Although heavily studied by scientific research over the years, there is still considerable confusion and varying opinions which results in the lack of consensus in the classification, diagnosis, and treatment for cracked teeth. Cracked teeth may progress to irreversible pulpal diseases and potentially tooth loss without timely identification and management. This lecture aims to provide a concise, evidence-based overview on the clinical presentation, diagnosis, and appropriate treatment options of cracked teeth in general dental practice.

DR. AMINDA FAIZURA OMAR

IDG, MScD, DrSCD

Graduated with Ijazah Doktor Gigi (IDG) from Gadjah Mada University, Yogyakarta, Indonesia in 2014. Obtained Master of Science in Dentistry from Universiti Teknologi MARA (UiTM) in 2021. Obtained Doctor in Special Care Dentistry from Universiti Teknologi MARA (UiTM) in 2024. Currently, Dr. Aminda is a lecturer and specialist in Special Care Dentistry at her alma mater, Universiti Teknologi MARA (UiTM). Member of the Malaysian Association of Disability and Oral Health and the International Association for Disability and Oral Health since 2022. Prolific researcher and innovator, recognised for her numerous publications and award-winning inventions. Won Gold for three inventions at Melaka International Intellectual Exposition (MiiEx) 2024 -- 1 as Principal Inventor and 2 as Co-inventor. Won Bronze as an Advisor during International Invention and Innovation Dentistry Exhibition (IIIDentEx) 2021. Delivered multiple oral & poster presentations at prestigious conferences such as International Association for Disability and Oral Health's 26th International Congress 2024 (iADH), Malaysia-International Dental Exhibition and Conference 2023 (MIDEC), Malaysian Association of Education in Health and Medical Sciences Conference (MAEHMS) 2023, and more. Completed professional training in various workshops and courses such as Dental Sleep Medicine, Inhalation and IV Sedation, and more. Actively involved in community involvement.

SPEAKER'S LECTURE:
CARING FOR THE CAREGIVER: EXPANDING THE SCOPE OF SPECIAL CARE DENTISTRY

Caregivers have often been questioned and criticized when it comes to their ability to care but their well-being is not often highlighted. The scope of care for special care dentistry now takes into account the health and welfare of the caregiver to ultimately improve health outcomes of the special needs individual and even the family unit as a whole.

DR. HOE ZHI YEN

DDS, MClinDent, AssocFCGDent UK

Dr. Hoe Zhi Yen, based in Johore, Malaysia, focuses his practice on Dental Implants, Prosthodontics, and Geriatric Care. He holds a Doctor of Dental Surgery (DDS) from MAHSA University and a Master's in Clinical Dentistry, focusing on Fixed and Removable Prosthodontics, from King's College London. Dr. Hoe is the founder of Artizen Dental Care, established in November 2020, where he provides comprehensive prosthodontic dental treatment. Additionally, Dr. Hoe is an Associate Fellow of the College of General Dentistry (CGDP) and an Exco Member of MASOC CARE, the Malaysian Association for Social Care Professionals and Homes, contributing to geriatric community health and dental care standards.

SPEAKER'S LECTURE: INTEGRATING 3D-PRINTED RESTORATIONS INTO EVERYDAY DENTISTRY: PRACTICAL SOLUTIONS FOR MODERN PRACTICES

3D printing is revolutionizing restorative dentistry, offering new possibilities for streamlined, customized patient care. This talk introduces the practical applications of 3D-printed restorations in day-to-day restorative and implant dentistry. Through this session, we aim to share how 3D-printed restorations can improve workflow efficiency, enhance patient satisfaction, and elevate the quality of everyday dental procedures, while also introducing the tools needed to integrate this innovative technology seamlessly into practice.

WORKSHOP, DAY 2

DR. LIU JING JIN

Date: 18th January 2025, Saturday
Venue: Meeting Room 304, KLCC
Time: 1400 - 1700

THE LATEST LAYERING CONCEPT

This workshop is designed for dental professionals eager to enhance their skills in restorative dentistry, particularly focusing on the innovative use of composite materials, aimed to provide participants with comprehensive knowledge and practical experience in the latest techniques and methodologies for creating aesthetically pleasing and functionally durable composite restorations.

This workshop promises to be an enriching experience for all dental professionals looking to refine their skills in composite restorations. By integrating theoretical knowledge with hands-on practice, participants will leave equipped with new techniques that can be immediately applied in their clinical settings.

Learning Objectives:

- Mastering the Latest Layering Concepts: Participants will learn advanced layering techniques that allow for the creation of lifelike restorations, focusing on achieving optimal dental aesthetics and functionality.
- Mamelon Creation and Tinting: Participants will explore how to effectively create mamelons—small, rounded protuberances on the incisal edge of anterior teeth—and apply tints to enhance the natural appearance of composite restorations.
- Utilizing Translucent Materials: This workshop will cover how to select and manipulate translucent materials that mimic the natural translucency of enamel, which is crucial for achieving realistic aesthetic results.
- Controlling Contact Points: Participants will gain insights into techniques for managing contact points effectively, ensuring proper occlusion and preventing food impaction between teeth.
- Polishing Protocols: A significant focus will be placed on polishing protocols that enhance the shine and smoothness of composite restorations, contributing to both aesthetics and longevity.
- Marginal Ridge Making: This workshop will address methods for creating well-defined marginal ridges, which are essential for restoring proper tooth morphology and function.
- Micro-Texture Creation Skills: Participants will learn how to create micro-textures that replicate the natural surface characteristics of teeth, further enhancing the realism of their restorations.
- Interactive Q&A Session: This workshop will conclude with a Q&A session, providing participants with an opportunity to discuss challenges they face in clinical practice and receive expert advice.

WORKSHOP, DAY 3

PROF. ERICK M. SOUZA

Date: 19th January 2025, Sunday
Venue: The Dental City
Time: 0830 - 1400

OPTIMIZING ENDODONTIC PRACTICE WITH THE TEP METHOD

Dentists used to believe that their clinical efficiency and productivity are the result of the techniques they adopt in their practice, for instance, the file system, the obturation technique and so forth. However, the game changing for any dental office is the workflow of instruments during the treatment. This talk is centered on the concepts of instrument transferring, a technique largely used by physicians, known as Surgical Instrumentation. The technique itself comprises the development of skills to both operator and assistant to efficiently and effectively work in 4 handed-dentistry, allowing the best flow of instruments from the assistant's desk to operator's hands. This way, operator remains 100% focused in the procedure, while the assistant takes responsibility to efficiently transfer all the instruments and materials to dentist's hands, following a series of movements and signalling communication. We are going to present our current experience on teaching this topic to graduated and undergraduated students in the Federal University of Maranhão-Brazil, and demonstrate the significant clinical impact on the chair time, efficiency and productivity.

DR. JERRY LIN

Date: 19th January 2025, Sunday
Venue: Meeting Room 306, KLCC
Time: 1400 - 1700

PERI-IMPLANT SOFT TISSUE MANAGEMENT

Soft tissue management has played an important role in implant dentistry. It is not only the quantity but also the quality of the soft tissue around implants will lead to the long-term stability and success. This presentation will focus on building up the peri-implant soft tissue in a variety of clinical scenarios from keratinized tissue to soft tissue augmentation for esthetics. In addition to the implant esthetics, post-ridge-augmentation soft tissue management has long been a challenge. A new surgical technique, dual function connective tissue graft technique aiming at obtaining both soft tissue volume and keratinized tissue will be introduced.

Learning objectives:

1. To learn different surgical techniques and protocols for managing peri-implant soft tissue in a variety of clinical scenarios.

POST-CONGRESS WORKSHOP

DR. JERRY LIN

Date: 20th January 2025, Monday
Venue: Meeting Room 306, KLCC
Time: 0900 - 1700

NEW PRESPECTIVES IN BONE REGENERATION

Alveolar bone regeneration or augmentation has been a standard of care in dentistry. The predictability, however, for certain clinical scenarios is still challenging. This presentation will propose a novel philosophy and surgical techniques for alveolar bone regeneration.

The adoption of the surgical techniques can be based on several factors, including healing potential, defect morphology, accessibility and predictability. The decision-making, however, has not yet well established and varies amount clinicians. With the aid of the healing potential, the surgical technique utilizing long-lasting resorbable collagen membranes and bone substitutes incorporated with or without tenting screws can predictably achieve alveolar bone augmentation. Moreover, the incorporation of periodontal regeneration is also able to enhance the vertical ridge augmentation. As for the chronic sites or large uncontained defects, a new surgical technique, hybrid technique, will be introduced to simplify the surgery and to decrease the complications.

The objective of the presentation is to provide novel approaches to accomplish alveolar bone augmentation under varies clinical scenarios as well as to achievevertical ridge augmentation predictably.

Learning objectives:

1. To identified different types of wound defects
2. To learn different techniques for obtaining alveolar ridge augmentation
3. To make clinical decisions for treating ridge defects
4. To achieve alveolar ridge augmentation by choosing adequate clinical procedures

SCATE FORUM

Date 19 January 2025

Venue Conference Hall 1, Level 3

Topic Multidisciplinary Approaches to Resolving Disputed Cases in Dentistry

SYNOPPSIS

This forum seeks to explore the role of multidisciplinary approaches in the resolution of complex and disputed cases in Dentistry. As oral health care increasingly intersects with fields such as maxillofacial surgery, orthodontics, periodontics, prosthodontics, endodontics, radiology, and legal dentistry, a collaborative approach has become essential. Through this discussion, participants will examine case studies where multidisciplinary input has clarified complex diagnoses, treatment planning, and legal issues. The forum will address challenges and benefits of multidisciplinary collaboration, share insights on building effective inter-professional communication, and discuss ethical and legal considerations unique to disputed cases in Dentistry. It also aims to foster a deeper understanding of how integrated approach enhances patient outcomes and dispute resolution, promoting a holistic and effective approach to dental care and conflict management.

KEY TOPICS

1. Case Analysis: Presentations of case studies demonstrating successful multidisciplinary collaboration.

2. Expert Testimony: The impact of diverse expert opinions on dispute resolution

3. Ethical Considerations: Navigating the ethical dilemmas that arise when dental and legal practices intersect.

4. Best Practices: Sharing strategies for fostering effective teamwork among professionals from different disciplines.

COL DR MUMTAJ NISAH ABD RAHIM (R)

PROF DR NORLIZA IBRAHIM

PROF DR DALIA ABDULLAH

PROF DR NGEOW WEI CHEONG

DR SHASHITHARAN SADACHARAN

SCATE FORUM SPEAKERS

COLONEL (DR) MUMTAJ NISAH ABD RAHIM (RTD)

She obtained her basic dental qualification from the University of Malaya in 2003 and pursued her specialist training in orthodontics at King's College London, United Kingdom in 2005 after securing a prestigious Malaysian Armed Forces scholarship. She successfully graduated with a Masters of Science (MSc) in Orthodontics and acquired the Membership of Faculty of Dental Surgery (MFDS) from the Royal College of Surgeons of England and Membership in Orthodontics M Orth (Edinburgh) Edinburgh in 2008.

She is currently serving as a Consultant in Orthodontics at the Prince Court Medical Centre, upon retiring from the Malaysian Armed Forces Dental Services which she proudly served for 18 years. She completed her fellowship training in Cleft and Craniofacial Orthodontics based at Great Ormond Street Hospital qualifying her to be the first fellowship-trained orthodontist in the country.

Dr Mumtaj has been contributing as a part -time senior lecturer at the National University of Malaysia undertaking orthodontic postgraduate training for the past 12 years. She is also engaged as a Visiting Craniofacial Orthodontist for the Craniofacial Centre at the University Malaya Medical Centre and Cleft Centre at the Kuala Lumpur General Hospital, which manages complex cases of cleft and syndromic patients with craniofacial deformities. She has served as part of the Specialty Sub-committee in Orthodontics, National Specialist Register, and Academy of Medicine for 4 years. She was the editor of the Malaysian Dental Journal and actively served in the association both locally and internationally. She has contributed in the development of Clinical Practice Guidelines in Orthodontics in collaboration with the Ministry of Health and part of the development of the Diploma for Dental Assistant (Orthodontics) program within the Ministry of Defence. She was also part of the Board of Studies for the new Orthodontic Training (D Orth) program, University Malaya.

She is experienced in managing complex orthodontics requiring multi-disciplinary treatment and is proficient in all types of orthodontic systems including Self-ligating systems, lingual systems, and aligners. She is also certified in the assessment of Dental Cone Beam CT examinations. She was also conferred a service medal from the DYMM Yang Di-Pertuan Agong carrying the medal Kesatria Angkatan Tentera (KAT) in 2013 recognizing her contributions at such a young age. She is a registered Specialist Orthodontist both in the United Kingdom and Malaysia.

PROFESSOR DR. NORLIZA IBRAHIM

Dr. Norliza Ibrahim, an esteemed academician and clinician leading the forefront of Oral & Maxillofacial Imaging. As the Head of the Oral & Maxillofacial Imaging Unit and a Professor at the Faculty of Dentistry, Universiti Malaya, she brings over two decades of extensive academic and clinical expertise. Armed with a DDS from Gadjah Mada University, an MSc from the University of Manchester, and a Ph.D. in Oral Radiology from the Academic Centre for Dentistry Amsterdam, she stands as a stalwart in her field. Dr. Norliza's prolific research, focusing on cutting-edge techniques such as Cone Beam CT, micro CT, and 3D imaging software, has earned her numerous publications in prestigious journals. Beyond research, her leadership extends to pivotal roles in national healthcare governance, serving as Head of the Dental Specialties Education Committee, Chairman of the Dental Specialty Sub Committee, and contributing to the Steering Committee for Quality Assurance Program in Dental Radiology. Her editorial prowess shines as the Editor of BMC Medical Imaging, while her dedication to safety is evident as the Radiation Protection Supervisor at the Faculty of Dentistry, UM. With a commitment to excellence evident in every facet of her career, Dr. Norliza Ibrahim is a driving force in advancing Oral & Maxillofacial Radiology.

SCATE FORUM SPEAKERS

PROFESSOR DR. NORLIZA IBRAHIM.

Dr. Norliza Ibrahim, an esteemed academician and clinician leading the forefront of Oral & Maxillofacial Imaging. As the Head of the Oral & Maxillofacial Imaging Unit and a Professor at the Faculty of Dentistry, Universiti Malaya, she brings over two decades of extensive academic and clinical expertise. Armed with a DDS from Gadjah Mada University, an MSc from the University of Manchester, and a Ph.D. in Oral Radiology from the Academic Centre for Dentistry Amsterdam, she stands as a stalwart in her field. Dr. Norliza's prolific research, focusing on cutting-edge techniques such as Cone Beam CT, micro CT, and 3D imaging software, has earned her numerous publications in prestigious journals. Beyond research, her leadership extends to pivotal roles in national healthcare governance, serving as Head of the Dental Specialties Education Committee, Chairman of the Dental Specialty Sub Committee, and contributing to the Steering Committee for Quality Assurance Program in Dental Radiology. Her editorial prowess shines as the Editor of BMC Medical Imaging, while her dedication to safety is evident as the Radiation Protection Supervisor at the Faculty of Dentistry, UM. With a commitment to excellence evident in every facet of her career, Dr. Norliza Ibrahim is a driving force in advancing Oral & Maxillofacial Radiology.

PROF DR NGEOW WEI CHEONG

Professor Dr. David Ngeow is currently a lecturer at the Department of Oral & Maxillofacial Clinical Sciences, Faculty of Dentistry of the University of Malaya. He graduated from the University of Malaya in 1992 and was a private practitioner for 9 months before he was offered the post of tutorship at his alma mater. Three years later, he became a Senior House Officer at the Queen Victoria Hospital in East Grinstead, England, following which he obtained his Fellowship in Dental Surgery from the Royal College of Surgeons in Ireland and the Royal College of Surgeons of England. He subsequently returned to Malaysia and was a pioneer lecturer at the then newly established Universiti Kebangsaan Malaysia. He later became a lecturer at the University of Malaya in 2000. He was a member of the Malaysian Dental Council for 2 terms. He has published 213 papers in local and international journals, one booklet and 10 book chapters. He was the Editor of the Malaysian Dental Journal from 2005-2007 & 2021-2023, and the Editor of the MDA Newsletter for 2015. He has been invited to speak in local, international and webinar in more than 157 occasions. He has also conducted more than 45 implant related workshops throughout the last 12 years. His research interests are implantology, craniofacial anthropometry, variations of the mandibular nerve, and recovery of peripheral nerves after microsurgical repair.

DR SHASHITHARAN SADACHARAN

Dr. Shashitharan Sadacharan is a semi-retired dentist with extensive experience in clinical risk management. He has made significant contributions to the field, particularly in helping fellow dentists navigate client dispute resolutions. Currently, he serves as a consultant with Aquta Data Sciences, where he leverages his expertise to provide valuable insights and support. In addition to his dental qualifications, Dr. Shashitharan holds a certification in mental health, underscoring his commitment to holistic care and well-being. He is also a trained mediator, bringing a balanced and thoughtful approach to conflict resolution.

ABSTRACT 1

Name of presenter **Praveen Kumar Baskaran**

Title of Presentation **Validating the Rheumatoid Arthritis and Oral Health Knowledge, Attitude, and Practices (ROKAP) Questionnaire among Rheumatologists and Medical Officers in a Malaysian public teaching hospital**

AUTHORS

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Introduction: A significant association between periodontitis (PD) and rheumatoid arthritis (RA) has been documented, establishing that patients with RA often experience severe PD due to shared characteristics, risks factors and inflammatory pathways. However, awareness and understanding of the connection between these diseases among rheumatologists and medical officers are minimal. Consequently, a valid instrument is needed to assess the knowledge, attitudes and practices related to oral health among rheumatologists and medical officers

Objectives: The aim of this study is to validate the ROKAP questionnaire for assessing the knowledge, attitudes, and practices among rheumatologists and medical officers regarding the oral health management of patients with RA.

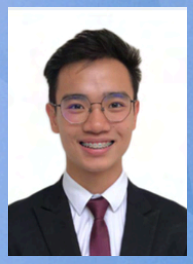
Methodology: The ROKAP questionnaire was assessed for validity and reliability through content, face, and construct validity evaluations, as well as internal consistency and test-retest reliability. Six expert panels reviewed the content, yielding the Content Validity Index (CVI), while ten potential participants provided feedback for the Face Validity Index. A pilot study with 66 participants, including rheumatologists and medical officers at Universiti Malaya Medical Centre, was conducted. Subsequently, Exploratory Factor Analysis (EFA) was performed to assess construct validity, and Cronbach's alpha was used for internal consistency evaluation. Test-retest reliability was assessed with 50% of respondents after two weeks by calculating kappa scores. Additionally, ceiling and floor effects were evaluated

Results: The CVI was 0.97, and the FVI was 0.93. The EFA showed that all items were distributed across three factors, with factor loadings of 0.292 to 0.862 for items assessing knowledge, 0.302 to 0.672 for items assessing attitude, and 0.027 to 0.769 for items assessing practice. The Cronbach's alpha values were 0.603 for knowledge, 0.437 for attitude, and 0.478 for practice. As a scale, the ROKAP questionnaire had an overall Cronbach's alpha value of 0.622. The test-retest analysis yielded Kappa scores ranging from 0.508 to 0.793. The floor and ceiling effects recorded minimum and maximum scores of 0.02% and 0.01%, respectively. Based on the factor loadings and internal consistency values relevant for assessing KAP, the final questionnaire retains all 15 items. The final questionnaire consists of 15 items

Conclusion: The ROKAP questionnaire demonstrated strong content and face validity, with acceptable factor loadings supporting its construct validity. The reliability analysis revealed acceptable internal consistency and fair to moderate test-retest reliability. Therefore, the making the ROKAP questionnaire a valid and reliable tool for assessing the knowledge, attitudes, and practices of healthcare professionals regarding the oral health management of patients with RA.

Key words: Periodontitis; Rheumatoid Arthritis; ROKAP; Validation; Reliability

ABSTRACT 2



Name of presenter Saw Zhi Kuan

Title of Presentation A National Survey on Retainer Preferences and Regimens Among Orthodontists in Malaysia

AUTHORS

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Introduction: Retainers play a vital role in orthodontic treatment by stabilizing tooth positions and preventing post-treatment relapse, a critical concern that can compromise long-term outcomes. Despite their importance, there is limited high-quality evidence supporting one type of retainer or retention protocol over another, leading to considerable variation in practices globally. While recent studies have explored these variations in other regions, up-to-date data on retainer preferences and retention protocols in Malaysia are notably lacking. This study seeks to address this gap by evaluating the current preferences for retainer appliances and retention regimens among Malaysian orthodontists, examining the factors influencing their choices and the variability in prescribed protocols.

Objectives: To identify the types of retainers used, their frequency, factors influencing retainer choice, and variations in treatment regimens among Malaysian orthodontists.

Methodology: A validated questionnaire was developed and distributed to orthodontists registered with the Malaysian Association of Orthodontists (MAO) and/or the Malaysian Dental Council under the National Specialist Register (NSR).

Results: The survey yielded 43.2% response rate. Vacuum-formed retainers (VFRs) were the most frequently prescribed and preferred retainers for both maxillary (91.1%) and mandibular arches (92.4%). Traditional removable retainers (TRRs), dual retainers, and fixed retainers followed. The primary factor influencing retainer choice is the type of case (93.7%). The prevailing retention regimen for the first six months is full-timewear (64.1%). Most orthodontists prefer night-time wear for 6 to 12 months (87.2%)and 12 to 24 months (66.7%) post-treatment. Nearly half of the respondents (51.3%) prescribed a retention regimen of wear two to three times per week after 24 months,continuing indefinitely thereafter. Most orthodontists conducted face-to-face follow-up for one to two years post-debonding

Conclusion: Malaysian orthodontists prefers VFRs in both maxillary and mandibular arches, especially among younger practitioners. Fixed retainers are the least popular. Thisstudy provides valuable insight into retention practices among Malaysian orthodontists.

ABSTRACT 3

Name of presenter Afsary Jahan Khan

Title of Presentation Developing Oral Health Program for Individuals with Disabilities in Selangor's Community-Based Rehabilitation Centres- A Situational Analysis

AUTHOR

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Introduction: Promotion of oral health (OH) among trainees in Community-based Rehabilitation (CBR) centres requires establishment of effective OH program and protocol.
Objectives: This study aimed to investigate the 1) level of OH training provided for CBR workers, 2) current OH programs and protocol in each center; 3) barriers and enablers to establishing training for workers and OH programs and services for trainees; 4) OH knowledge among CBR workers, and their attitude towards provision of OH care and education for trainees; as well as 5) OH status of CBR trainees.
Methodology: The first part (qualitative study) involved a face-to-face audio-recorded interviews with CBR Managers from eight different districts around Selangor. The second part (quantitative study) included a survey of CBR workers using a paper-based validated questionnaire to determine their OH knowledge and attitudes towards provision of OH care of its trainees. The third part (quantitative study) involved clinical oral examination of CBR trainees from different CBR centres across 8 districts using the modified WHO Oral Health Assessment form. Qualitative data were analysed via thematic analysis and quantitative data were analysed using SPSS software.
Results: Interviews with CBR managers found that there was no OH policy and protocol centres, while no training was provided by the Department of Social Welfare. Barriers to provision of OH care were related to 1) trainees (lack of cooperation, physical limitation), 2) dental practice (phobia), and 3) parents (inadequate knowledge, poor awareness). Enablers to OH care were support from parents, professionals and higher authority, as well as having innovative tools. The study among CBR workers showed that most have good level of OH knowledge, and neutral level of OH attitude. Clinical examination on CBR trainees found 1) mean DMFT score among primary, mixed and permanent dentitions were low (2.02), moderate (3.86) and moderate (4.17) levels, respectively. 2) prevalence of caries among those with primary, mixed and permanent dentitions as 44.44%, 74.4% and 74.80%, respectively, and 2) OHI-S scores among those with primary, mixed and permanent dentition were 41.5%, 80.6% and 89.8% respectively.
Conclusion: This study provides critical insights for policymakers in developing programs to improve the OH of CBR trainees by highlighting links between OH status of trainees, and OH knowledge and attitude among CBR workers. Findings underscore the need for structured training, standardized protocols, and continuous support to empower caregivers and enhance care quality for trainees.

ABSTRACT 4

Name of presenter **Naziah binti Md Jasin**

Title of Presentation **Evaluation of Colour Stability, Gloss, Microhardness And Surface Roughness Between Microhybrid and Nanno-Based Light Cured Composite Resins in different pH solutions**

AUTHORS

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Introduction: Continuous improvements driven by nanotechnology in newly developed high-quality restorative materials particularly composite resins, focus on enhancing the characteristics by ensuring superior resistance to mechanical and physical challenges, as well as durability to withstand the oral environment over a lifetime.

Objectives: This study aims to evaluate the influence of different pH levels present in various common beverages consumed in Malaysia on the colour stability, gloss, microhardness and surface roughness of contemporary composite resins.

Methodology: A total of 450 samples were fabricated from three types of composites; microhybrid (M), nanohybrid (NH), and universal nanofilled (UN) composites. All samples were immersed in five different pH immersion solutions including distilled water, artificial saliva, soft drink, energy drink, and instant black coffee for 100 days. The mechanical and physical evaluations were conducted using a pH meter, colorimeter, gloss meter, Vickers hardness test, and Scanning Electron Microscope (SEM). The results were analyzed using one-way ANOVA and post-hoc tests at a significance level of $p<0.05$.

Results: All composites immersed in various pH levels experienced a significant colour changed [p=0.0005 (M); p=0.0029 (NH); p=0.074 (UN)] and gloss reduction [(p=0.0001(UN); p=0.0006 (M); p=0.0239 (NH)] after the assessment periods of 24 hours, Day10, 20, 30, 60 and 100. Evaluations of the microhardness performed at 24 hours, Day 30 and 100 found that nano-based composites [(p=0.2100 (NH), p=0.05310 (UN)] present a higher strength against mechanical stress compared to microhybrid composite (p=0.0048). Qualitative evaluations of surface roughness showed that samples immersed in distilled water were less affected than those immersed in artificial saliva, soft drink, energy drink and instant black coffee on D100.

Conclusion: The mechanical and physical alterations observed in all composite resins are not directly associated with acidic conditions. Instead, morphological changes are influenced by the filler composition, size, volume, distribution, and the duration of exposure.

ABSTRACT 5

Name of presenter Mohamad Syahrizal Halim

Title of Presentation Evaluation of PLGA loaded Simvastatin-Alendronate surface coating to improve dental implant osseointegration

AUTHORS

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Introduction: Dental implants present a unique challenge due to their transmucosal nature which requires rapid osseointegration. This may be enhanced by bone targeting nanoparticles which enhance bone regeneration and simultaneously prevent bone loss. Simvastatin(SIM) has the ability to induce bone formation and alendronate(ALN) can prevent bone loss.

Objectives: This study aimed to prepare a bone-targeting nanoparticle cable of delivering SIM and ALN specifically to bone tissue. The nanoparticle utilize alendronate sodium to inhibit bone resorption, thereby achieving a dual effect of suppressing bone resorption and promoting bone formation to enhance osseointegration of implants.

Methodology: Sodium alendronate and poly-lactic-co-glycolic acid(PLGA) was prepared by esterification reaction, resulting in a sodium alendronate/PLGA grafted compound. Subsequently, this compound, along with PLGA and simvastatin phospholipid complexes, was used to synthesize nanoparticles via an emulsion solvent evaporation method. The size, morphology, and chemical structure of the nanoparticles were characterized using scanning electron microscopy (SEM) and nuclear magnetic resonance (NMR). Drug loading capacity and encapsulation efficiency were determined using high performance liquid chromatography (HPLC) and UV spectrophotometry. Using phosphate buffered saline (PBS) as the release medium, the in vitro drug release profiles of the drug loaded nanoparticles were analyzed at various time points via UV spectrophotometry

Results: The nanoparticles exhibit a microsphere structure. The hydrogen spectrum of alendronate/PLGA conjugate in NMR revealed the presence of hydrogen proton peaks for alendronate and PLGA. The drug loading and encapsulation efficiency for SIM/ALN-PLGA nanoparticles were 74.45 ±2.73(%) and 3.58±0.13(%), while those for SIM/PLGA nanoparticles were 82.43 ±6.83(%) and 3.96±0.33(%). Respectively, simvastatin showed a gradual release pattern, with approximately 30% released within 10 days.

Conclusion: The study successfully prepared bone-targeting nanoparticles with a microsphere structure. These nanoparticles demonstrated favorable drug loading capacity, encapsulation efficiency, and in vitro release. Further studies will be done to assess the cytotoxicity and biocompatibility on this nanoparticles.

ABSTRACT 6

Name of presenter **Marini Binti Ismail**

Title of Presentation **Impact Of Oral Health Education Program On Oral Health Knowledge, Attitudes, And Practices Among Malaysian Athletes.**

AUTHORS

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Introduction: The Oral Health Education Program (OHEP) is crucial for addressing poor oral health among athletes due to a lack of oral health knowledge, attitudes, and practices (OHKAP). Customized interventions enhance these aspects, enabling athletes to maintain oral health and improve performance. OHEP's success may benefit athletes' long-term performance and overall health.

Objectives: To evaluate the effects of the OHEP by examining changes in OHKAP among Malaysian athletes at different time intervals (baseline, 3-month and 6-month).

Methodology: A quasi-experimental design was implemented, which incorporated purposive sampling of 319 athletes who were registered with the National Sports Council of Malaysia. A validated OHKAP questionnaire was administered to Malaysian athletes, including both able-bodied athletes and para-athletes with physical disabilities, at baseline, and at 3-month and 6-month intervals. Repeated measures ANOVA was used to evaluate the changes in OHKAP mean scores at three distinct time intervals.

Results: A total of 174 Malaysian athletes with 54.5% response rate (median age: 22 years, range: 18–50) participated in OHEP. Significant improvements in oral health knowledge and practice scores were observed at both the 3-month and 6-month follow-ups. The mean oral health knowledge score increased significantly at 3-month and at 6-month ($p < 0.05$). Similarly, oral health practices showed significant improvement at both time points ($p < 0.05$). Oral health attitudes demonstrated only a slight increase, with the mean score rising from 3.55 (SD = 0.6) at baseline to 3.64 (SD = 0.5) at the 6-month follow-up ($p = 0.65$).

Conclusion: The OHEP effectively improved oral health knowledge, attitudes, and practices of Malaysian athletes at both the 3-month and 6-month intervals.

ABSTRACT 7

Name of presenter Chua Jia Yu

Title of Presentation **The Antibacterial Efficacy of Sodium Hypochlorite Endodontic Irrigant Incorporated with Aqueous Extract of Cymbopogon Citratus against Enterococcus Faecalis**

AUTHORS

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Introduction: Sodium hypochlorite (NaOCl), despite its wide use as an endodontic irrigant, has limitations and adverse effects that impinge on its antibacterial efficiency. Considering this, incorporating the herbal extract Cymbopogon citratus might help enhance its effect.

Objectives: The present study was conducted to determine the antibacterial effect of different volumes of NaOCl incorporated with an aqueous extract of C. citratus on the endodontic pathogen Enterococcus faecalis.

Methodology: 2.5 % NaOCl incorporated with 480 mg/ml C. citratus solution was prepared in ratios of 30:70, 50:50, and 70:30. The positive controls were 100% 480mg/ml C. citratus and 2.5% NaOCl. The negative control was represented by brain heart infusion (BHI) with untreated E. faecalis ATCC-49532. Minimum inhibitory concentration (MIC) was determined by using the broth microdilution method. The absorbance at 600 nm was taken at time intervals: 0 hours and 24 hours. Minimum bactericidal concentration (MBC) was studied after MIC assay by subculturing broth dilutions onto blood agar plates to be incubated for 24 hours. All data were analysed using the Kruskal-Wallis and Bonferroni correction tests.

Results: Bacteria growth inhibition was shown in all volume ratios of herbal-mixed NaOCl. However, no MBC was found in this study.

Conclusion: Within the limitations of this study, we found that the 480 mg/ml of C. citratus is comparable to 2.5 % NaOCl, which shows an antibacterial effect against E. faecalis. Further research needs to be explored before it can be applied as a potential irrigant during endodontic treatment.

ABSTRACT 8

Name of presenter **Patricia Ponniah Devadhoss**

Title of Presentation **Breaking Barriers: Understanding And Addressing Teachers' Challenges In Implementing The Sparkle Intervention**

AUTHORS

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Introduction: Teachers are key implementers of the SPARKLE (School Programme for Achieving Radiant Smiles in Kids from Rural and Low SocioEconomic Backgrounds), designed to address oral health disparities among primary schoolchildren from rural and low socioeconomic backgrounds. However, barriers to their participation can significantly hinder the successful implementation and impact of such teacher-led initiatives. Identifying and addressing these barriers is essential to ensure intervention feasibility.
Objectives: This study aimed to explore the perceived barriers to teachers' participation in the SPARKLE and identify potential solutions that could enhance their involvement.
Methodology: An exploratory qualitative approach was employed using in-depth interviews with twelve purposively sampled primary schoolteachers who were potential implementers of the intervention. The data was analysed using the Framework Method with Atlas.ti software.
Results: Four domains of barriers were identified: school-level, teacher-level, parent-level, and child-level factors. At the school level, limited facilities, insufficient resources, and short recess times were highlighted as significant constraints to SPARKLE's implementation. Teacher-level barriers included substantial workloads, lack of manpower, and the perception that oral health promotion was outside their job scope. Parent-level barriers focused on low awareness of oral health, which could impede the reinforcement of healthy practices at home. Finally, child-level factors such as a lack of interest in oral health and school activities could further complicate the implementation process. Teachers proposed practical solutions for overcoming these barriers, including reducing the frequency of supervised toothbrushing, leveraging existing resources through collaboration, using culturally tailored infographics, and simplifying health report cards to improve parental comprehension.
Conclusion: Addressing barriers and incorporating teacher-driven suggestions can enhance the acceptability and feasibility of the SPARKLE intervention. These findings will contribute to the development of more effective and sustainable oral health promotion programmes in school settings to improve the oral health outcomes of underserved children.

ABSTRACT 9

Name of presenter **Asram Nur Anas**

Title of Presentation **Validation Of Questionnaire On Health Service Quality And Patient Satisfaction In Military Hospital**

AUTHOR

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Introduction: The quality of health services in hospitals is one of the main indicators in assessing the success of the health service system.

Objectives: This study aims to test the indicators of the quality of health services in military hospitals.

Methodology: The approach used is a quantitative method with a survey design on patients in hospitals. Data were obtained through the SIKAP (Service Satisfaction Information System) application which was designed based on dimensions of service quality such as medical services and non-medical services.

Results: The results of the validity test show that the quality of medical services and the quality of non-medical services, medical installations, non-medical installations, and patient satisfaction with the product moment correlation value (r) of all indicators or question items are above 0.349 from Rcount and significant at a confidence level of 95%, while the results of the reliability test show that the quality of medical services and the quality of non-medical services, medical installations, non-medical installations, and patient satisfaction with Cronbach's alpha> 0.7 so that they can be categorized as good.

Conclusion: The validity and reliability test that all indicators have numbers or values that meet the requirements to be used as measuring tools to assess the quality of health services on patient satisfaction in military hospitals.

ABSTRACT 10

Name of presenter Khaliqa Tul Zahra

Title of Presentation Exploring Social inequalities in children's Oral health-related quality of life in Pakistan

AUTHORS

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Introduction: Oral health-related quality of life (OHRQoL) is the impact of oral diseases on people's everyday life.

Objectives: The aim of this study was to investigate the social inequalities in OHRQoL among 11–12-year-old children in Lahore, Pakistan.

Methodology: A cross-sectional study was conducted with 1145, 11-12-year-old children in Pakistan. A validated questionnaire was administered to assess children's oral health-related behaviours and global oral health items. They also answered the Urdu Child-OIDP index to assess oral impacts followed by an oral examination by a calibrated dentist. Parents answered a questionnaire on socioeconomic demographics.

Results: The prevalence of oral impacts on the children's daily performances was 80.8% (mean=23.8, standard deviation=17.5) The performance with the most impact was eating (69.7%), followed by enjoying/socializing (50.5%). The performance with the least impact was speaking (10.7%). Main causes of oral impacts were toothache (56.5%) and maligned teeth (28.2%). Bivariate analysis revealed that income, mother's and father's education, child's caretaker, residential locality, school, ethnicity, children's perceived treatment need and their satisfaction with oral health were significantly associated with children's OHRQoL. Well-educated Punjabi parents were associated with children having lower OIDP scores and good OHRQoL ($p<0.001$). Likewise, children of rich and privileged families residing in Cantt tehsil had a better OHRQoL in comparison to other areas ($p<0.001$). Children raised by single mothers had a better OHRQoL than those raised by other groups ($p<0.001$). Children with perceived need for dental treatment, less satisfied with their oral health, experienced oral impacts, and suffered from oral diseases reported a poor OHRQoL ($p<0.001$). Among oral diseases, dental caries, gingivitis, and oral hygiene levels were significantly associated with poor OHRQoL ($p<0.001$).

Conclusion: Children from low socioeconomic backgrounds reported poorer OHRQoL than those from high socioeconomic backgrounds. Efforts toward reducing these inequalities will require introducing healthy policies to tackle socioeconomic differences among families with small children in Lahore Pakistan.

ABSTRACT 11

Name of presenter **Siti Nor Hamizah Binti Hasan**

Title of Presentation **Prevalence Of Impacted Teeth Among Persian Iranian: A Retrospective Radiographic Study**

AUTHORS

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Introduction: Tooth impaction is a frequent phenomenon with considerable variations in prevalence and distribution of impacted teeth in different regions of jaw.
Objectives: The purpose of this study was to evaluate the prevalence of impacted teeth among Persian Iranians through OPG images.
Methodology: A retrospective study was conducted by analyzing the records of 583 OPG images from 2021 to 2024, involving individuals aged 17 to 70 years old, which were then classified according to age, gender, and tooth position.
Results: Out of 583 OPG images, a total of 180 presented impacted teeth, with a higher prevalence in males than females. The majority of cases were found in individuals aged 21 to 30 years. Among the 433 impacted teeth identified, mandibular third molars were the most common, followed by maxillary third molars and mandibular second premolars.
Conclusion: The prevalence of impacted teeth was high and there was a predilection for impacted teeth in mandible. Root resorption and caries were observed in association with impacted teeth.

ABSTRACT 12

Name of presenter **Agnes Liong Shih Yi**

Title of Presentation **Modified window technique with Polyvinyl Siloxane (PVS) impression material for the management of flabby ridge in Combination Syndrome: A case report**

AUTHORS

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Introduction: Flabby ridge is a mobile soft tissue that is located on the superficial aspect of the alveolar ridge. It mainly arises when an edentulous ridge opposes natural teeth and is considered a feature of Combination Syndrome in the anterior part of the maxilla. Flabby ridges get easily displaced under occlusal force and compromise denture retention, which causes loss of peripheral seal.

Methodology: A 76-years-old female patient presented with a maxillary anterior flabby ridge with opposing lower anterior teeth. The patient complained of ill-fitting dentures that were recently fabricated by another clinic. The management includes taking an alginate primary impression with a stock tray, followed by pouring a dental stone cast, marked to indicate the flabby ridge area. A custom tray was fabricated with 2 mm spacing, tissue stops, and two posterior handles with an anterior window in the marked area. A vacuum heat-pressed polyethylene sheet, with 0.5 mm thickness, was adapted to the tray after curing with the three holes in the window area on the polyethylene sheet. After border molding using a green stick compound on the custom tray, the secondary impression was taken with a heavy-body PVS impression material in the other area. Impression material present on the flabby ridge was removed by a scalpel blade. After reseating the impression in the patient's mouth, light-body PVS impression material was injected through the holes of custom tray until some excess material flowed out, enhancing the precision of the impression with minimal displaced flabby tissues. The master cast was poured, bite blocks were fabricated for the jaw relation procedure, followed by denture try-in and issue.

Results: The dentures fit well with good retention.

Conclusion: The modified window technique is an effective approach for the controlled application of light body PVS impression material, ensuring a non-displacing final impression of the flabby ridge.

ABSTRACT 13

Name of presenter **Ghayathri Devi Manoharan**

Title of Presentation **Case Series: Multidisiplinary Management Of Older Adult Patients With Complex Medical And Cognitive Issues Requiring Dental Treatment**

AUTHORS

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Introduction: Osteoporotic fractures among older adults are rising and have necessitated the increased use of anti-resorptive therapies to manage bone health. However, dental clearance is a critical prerequisite for patients prior to initiating these medications due to the potential risk of medication-related osteonecrosis of the jaw (MRONJ).

Objectives: Highlighting the importance of multidisciplinary care in managing older adults with complex medical and behaviour challenges.

Methodology: This is a case series involving two older adult bedridden patients who presented with complex medical and behavioural challenges that precluded routine dental care chairside. Both patients presented with poor prognosis of existing dentition. Key discussions were held involving the geriatricians, anaesthetists, special care dentists, nursing staff, dieticians, and the patients' families to ensure holistic management. Given the complexity of their medical conditions, treatment under general anaesthesia was deemed unsuitable. Therefore, alternative care pathways were devised. Both patients were admitted to the geriatric ward with the plan for intravenous sedation combined with local anaesthesia to facilitate the full mouth dental extractions.

Results: Full-mouth dental extractions with local haemostatic measures were successfully performed for both patients with no postoperative complications. Pain assessment in advanced dementia tool (PAINAD) was utilised for post operative pain monitoring. The nursing care plan ensured optimal patient outcome and comfort. Follow-up care was tailored according to individual needs, with one patient received domiciliary care.

Conclusion: This case series highlights the need for holistic management and a multidisciplinary approach in optimizing care for older adults with complex medical and cognitive issues. By fostering a multidisciplinary approach among healthcare professionals and tailoring treatment plans to individual patient requirements, these approaches adequately prepare patients for anti-resorptive therapy, minimise treatment-related risks, and enhance overall quality of care.

ABSTRACT 14

Name of presenter Gopal Chandra Sanyal

Title of Presentation Mandibular Premolars – An Enigma To Endodontic Therapy

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Introduction: Root canal treatment requires a thorough knowledge and understanding of root canal system and its varying morphology which in turn will increase the long term success level of the treatment. Awareness and understanding of the presence of unusual external and internal root canal morphology largely contributes to successful outcome of root canal treatment.
The root morphology and canal morphology of the mandibular premolars can be extremely complex and highly variable. Variation in root canal morphology has been suggested as the most likely reason for the high frequency of endodontic flare-ups and failures.
Objectives: Commonly referred as 'Enigma to Endodontists', Mandibular premolars are difficult to treat endodontically due to their aberrant anatomy. The variability in root canal morphology is a phenomenon that clinician should identify. Radiographs taken at different horizontal angulations facilitate searching for additional roots and canals. If a radiolucent line is present mesial or distal to the main canal, an additional canal should be suspected. Magnification and fibre optic illumination are helpful in increasing the optical field. Tactile examination of the walls of the major canal with a small precurved file tip is mandatory, even in cases which appear to have only one canal radiographically.
Methodology: In the present case report, an unusual anatomic and morphological variation in a mandibular second premolar is encountered that requires endodontic therapy. The judicial use of diagnostic aids along with various adjuncts for endodontic treatment have been employed to ensure a successful treatment outcome.
Results: Following a proper treatment planning and execution of endodontic treatment, the patient remained asymptomatic, and functionality of the tooth was restored.
Conclusion: Using all the diagnostic aids and techniques at our disposal followed by performing endodontic therapy with the assistance of adjuncts can ensure that the clinician overcomes the complexities encountered during the procedure and result in success of the endodontic therapy

ABSTRACT 15

Name of presenter **Leong Jia Zheng**

Title of Presentation **A Multi-Modal Approach Of Hypertrophic Scar Management Following Facial Trauma: A Case Report**

AUTHORS

Leong Jia Zheng, Sutina kohir, Muhammad Ropil Mamat, Low Li Fong
Department of Oral and Maxillofacial Surgery, Hospital Tuanku Ja'afar Seremban

Introduction: Facial trauma often results in significant aesthetic and functional challenges, particularly when complicated by hypertrophic scarring or keloid formation. Managing such cases requires a multimodal approach tailored to individual healing responses.

Objectives: This case highlights the complexities of managing hypertrophic and keloid scarring in patients with wound-healing predispositions. A multimodal approach combining surgical interventions, advanced closure techniques, and adjunctive therapies is crucial for achieving optimal functional and aesthetic outcomes in facial trauma patients.

Methodology: A 24-year-old Malay gentleman sustained polytrauma in a motor vehicle accident (motorbike vs. car), presenting with multiple lacerations on the periorbital region, lips, and chin containing embedded foreign bodies (shattered glass), alongside a comminuted left zygomaticomaxillary complex fracture. He underwent wound debridement, foreign body removal, and repair of facial lacerations under general anesthesia.

Postoperatively, hypertrophic scarring with contracture developed over the chin, causing a downward pull on the lower lip and incomplete lip competence. Additional keloid-like scarring on the anterior chest raised concerns about a predisposition to abnormal wound healing. Initial management with topical silicone gel showed minimal improvement. Intralesional corticosteroid injections were then administered biweekly for six sessions, resulting in softened chin scarring; however, it remained hypertrophic, and lip incompetence persisted.

Due to the limited response to conservative measures, scar revision surgery was performed. This involved excision of the hypertrophic chin scar, partial excision of the lower lip, and closure using multiple Z-plasty techniques, yielding improved aesthetic and functional outcomes.

Results: Postoperatively, the patient expressed greater satisfaction with the improved appearance and restored lip competence. To further enhance scar remodeling, reduce residual hypertrophy, and minimize recurrence, an additional six sessions of intralesional corticosteroid injections were planned.

Conclusion: This case highlights the complexities of managing hypertrophic and keloid scarring in patients with wound-healing predispositions. A multimodal approach combining surgical interventions, advanced closure techniques, and adjunctive therapies is crucial for achieving optimal functional and aesthetic outcomes in facial trauma patients.

ABSTRACT 16

Name of presenter Nik Madihah Nik Azis

Title of Presentation Analysis of Mucosal Thickness, Bone Quality, and Root Anatomy for Temporary Anchorage Devices Placement in the Palatal Posterior Region

AUTHOR

Nik Madihah Nik Aziz[1], Nurin Kamilia Othman[2], Nurin Nabihah Mohyiddin[3], Azizah Ahmad Fauzi[4], Murshida Marizan Nor[5].

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Introduction: The use of temporary anchorage devices (TADs) for skeletal anchorage in orthodontic movement has gained popularity in recent years. The placement of TADs depends on the specific orthodontic requirements, with higher success rates observed in the posterior maxilla compared to the anterior region.

Objectives: This study analyzed the anatomical characteristics of the palatal posterior supra-alveolar region to determine the optimal locations and safety zones for TAD insertion in the posterior maxilla.

Methodology: This is a retrospective cross-sectional study that examined 111 CBCT scans from dentate patients aged 18 years and older. Measurements included palatal mucosal thickness, cortical bone thickness, total bone depth, interradicular distances, and root curvature angles at 45°, 60°, and 75° angles to the occlusal plane.

Results: Palatal mucosal thickness exceeded 4 mm across all sites, with significant variation between measurement angles ($P < 0.05$). Cortical bone thickness ranged from 1.2–2 mm, meeting the stability thresholds for TAD placement, with predrilling potentially required in some regions. Bone depth consistently exceeded 4.5 mm, ensuring adequate TAD engagement. Interradicular distances increased with apical depth, with a minimum of 3–4 mm space available at >6 mm from the CEJ in most regions except between the distobuccal root of the first molar and the mesiobuccal root of the second molar. Root curvature was moderate to severe for molar roots, potentially complicating interradicular placement.

Conclusion: The mucosal thickness and bone quality in the posterior maxilla are sufficient for the oblique insertion of TADs with changes in the insertion angle significantly affecting the amount of tissue and bone available for TAD engagement. Posterior maxillary teeth exhibit variability in root curvature and have a limited interradicular distance. Hence, TAD insertion in this region is recommended apical to the tooth roots.

ABSTRACT 17

Name of presenter **Rathna Devi Vaithilingam**

Title of Presentation **Association between Porphyromonas gingivalis Arg-gingipain with myeloperoxidase influenced carbamylation in pre-clinical and early rheumatoid arthritis**

AUTHORS

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6. Faculty of Business and Management, UCSI University, Kuala Lumpur
7. Department of Periodontology, University of Adelaide, Australia

Introduction: Inflammation from periodontitis (PD) is a key in triggering autoimmune diseases like rheumatoid arthritis (RA). Studies have reported that Arg-gingipain (Rgp) proteases from Porphyromonas gingivalis (P. gingivalis) causes myeloperoxidase (MPO)-mediated protein carbamylation and formation of anti-carbamylated protein (anti-CarP), perpetuating rheumatoid arthritis (RA) progression. However, this association in the early stages of RA remain unclear.

Objectives: This study aimed to assess the association between Rgp with MPO and anti-CarP in pre-clinical RA (preRA), early RA (eRA) and established RA (RA) participants.

Methodology: 108 participants from rheumatology and periodontology clinics at the University Malaya Medical and Dental Centres were categorised into preRA, eRA, RA and nonRA participants with and without periodontitis (PD). Periodontal and rheumatological parameters were assessed. Rgp gene expressions from subgingival plaque and MPO and anti-CarP were assessed from saliva and serum using Elisa kits. Statistical analysis was performed using SPSS, with p-value < 0.05 considered significant.

Results: Rgp gene expressions were similar across PD groups. In eRA-PD, serum and saliva MPO and saliva anti-CarP levels were highest; strong correlations were present between Rgp with CAL (r=0.783); saliva MPO with VPI (r= 0.667) and GBI (r= 0.767); and saliva anti-CarP with CAL (r= 0.667) and GBI (r= 0.850).

Conclusion: Rgp gene expression was closely associated with PD status. In eRA-PD, rgp gene expression, salivary MPO and anti-CarP levels strongly correlated with periodontal parameters. Salivary MPO and anti-CarP strongly correlated in all PD groups. Periodontal inflammation in early stages of RA may contribute to RA-related immune responses.

Acknowledgement: This research was supported by the Fundamental Research Grant Scheme, Ministry of Higher Education Malaysia (FRGS/1/2021/SKK01/UM/02/1).

ABSTRACT 18

Name of presenter Ahmad Syiham bin Nasir

Title of Presentation In Vitro Studies on Vital Pulp Therapy: A Scoping Review

AUTHORS

Ahmad Syiham Nasir[1], Muhammad 'Adil Zainal Abidin[2], Nur Zety Mohd Noh[3], Imran Zainal Abidin[4].

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Introduction: Laboratory studies serve as a crucial foundation to understand the effect of clinical intervention, but available information is scattered and not well-constructed.

Objectives: This scoping review aims to identify and categorise the laboratory studies conducted on vital pulp therapy (VPT), and summarize the methodologies applied.

Methodology: The review was reported based on the Preferred Reporting Items for Systematic Reviews and Meta-Analyses extension for Scoping Reviews (PRISMA-ScR). An electronic literature search was conducted in April 2024 by an independent reviewer to identify related research articles using three databases (PubMed, Science Direct and Scopus). After removal of some articles (duplicate, exclusion by automation tools and removed for other reasons), all identified articles underwent three sequential screening steps. Only articles that meet the inclusion and exclusion criteria were included. Finally, the data extraction was performed by the same reviewer and was verified by a second reviewer for accuracy.

Results: From a total of 1849 articles identified, only 54 articles were included, consisting of 56 laboratory studies in total. The included studies have been categorised into 11 groups. Five main categories of laboratory studies on VPT were tooth discoloration (15 studies), bond strength (14 studies), fracture strength (8 studies), sealability (6 studies) and intrapulpal temperature changes (4 studies). On the other hand, studies on characterization set pulp capping agents and dentin remineralization were less common (3 and 2 studies respectively). While studies on condensation method of pulp capping agents (1 study), strength of electrical stimulus (1 study), initiation of pulpal healing (1 study) and evaluation of bond interface (1 study) were least common than the others.

Conclusion: Five most published laboratory studies on VPT were regarding tooth discoloration, bond strength, fracture strength, sealability and pulpal temperature change. Some of the methodologies adopted require new methodologies to be developed to ensure technique standardization and highly accurate results are obtained.

ABSTRACT 19

Name of presenter **Siti Asmak Binti Subahir**

Title of Presentation **Oral Health Status And Treatment Needs Amongst Elite Athletes With Disabilities In Malaysia**

AUTHORS

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Introduction: For athletes to perform at their best, their general and oral health must be excellent. Research on the oral health status of elite athletes with disabilities (EAWD) is limited compared to elite athletes without disabilities.
Objectives: To evaluate the oral health status and treatment needs among Malaysian EAWD.
Methodology: This cross-sectional study applied purposive sampling involving Malaysian athletes training at the National Sports Institute of Malaysia and Malaysia Paralympic Sports Excellence Centre. Demographic data (age, gender, education level, and types of impairment) and clinical oral parameters were collected from February to June 2022. Oral health status was evaluated using the International Caries Detection and Assessment System (ICDAS) to assess carious lesions, the Basic Erosive Wear Examination (BEWE) to assess erosive tooth wear, and additional clinical examinations to identify periodontal conditions using Basic Periodontal Examination (BPE) score, oral infections using Pulp, Ulcer, Fistula and Abscess (PUFA) score, and tooth trauma.
Results: A total of 58 out of 68 Malaysian EAWD from 11 types of para-sports were recruited (response rate = 85.3%). Most participants were male (82.8 %) and had physical disabilities (70.7%). The median age was 27 years (range 17 to 49). The mean DMFT was 4.03 ± 4.21. Active caries (ICDAS code ≥3) and periodontal disease (BPE code ≥1) were found in 56.9% and 94.8% of EAWD, respectively. Around 29.3% of EAWD had a non-zero PUFA score, whereas 26% had erosive tooth wear. There was a great need for periodontal treatment (94.8%), restorative treatment (56.9%), and tooth extraction (29.3%).
Conclusion: Malaysian EAWD in this study had a high prevalence of oral diseases and unmet treatment needs. Oral health care must prioritise early intervention with effective oral health education programs, regular dental check-ups, and timely dental care, which can be integrated into their health programs.

ABSTRACT 20

Name of presenter Siti Zuraidah Binti Adam

Title of Presentation Effect Of Aromatherapy On Dental Anxiety Among Oral Surgery Patients: A Randomised Controlled Trial

AUTHORS

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Introduction: Dental anxiety is a common problem among patients undergoing dental treatments, particularly oral surgery procedures. Aromatherapy is considered as complementary and alternative medicine (CAM) which uses essential oil (EO) as a non-pharmacological intervention for reducing anxiety in various clinical settings.

Objectives: This study aimed to investigate and compare the effects of aromatherapy essential oils on dental anxiety among patients undergoing minor oral surgery and dental extractions.

Methodology: A double-blinded randomised controlled trial (RCT) was conducted involving patients aged 18 years and above undergoing minor oral surgery and dental extractions at Klinik Bedah Mulut, Universiti Kebangsaan Malaysia (UKM). The participants were randomised into 4 groups: 3 intervention groups received aromatherapy with lavender, orange, or lemongrass essential oils, while the control group received water as a placebo. Blood pressure, heart rate, and dental anxiety levels (assessed using the Modified Dental Anxiety Scale, MDAS) were measured before and after the intervention. The data were then analysed using a Wilcoxon Signed-Ranks test, Kruskal-Wallis test, Dunn's pairwise test, and Mann-Whitney test.

Results: A total of 139 patients completed the study. The lavender and orange essential oil groups showed a significant reduction in anxiety levels compared to the placebo group, while the lemongrass group did not demonstrate a significant effect.

Conclusion: Aromatherapy showed significant reduction in anxiety score and biological anxiety response compared to the placebo groups in patients undergoing extraction and minor oral surgery. This study supports the use of aromatherapy as an adjunct to conventional dental care.

ABSTRACT 21

Name of presenter **Teoh Yu Jie**

Title of Presentation **Smear Layer Removal And Micro Hardness Of Root Canal Dentin After Chemo-Mechanical Procedure Using Different Types Of Disinfection Solution**

AUTHORS

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School of Dental Sciences, Universiti Sains Malaysia, Health Campus, 16150 Kubang Kerian, Kelantan, Malaysia.

Introduction: Root canal treatment aims to eliminate microbial infection in the root canal system. However, the smear layer's deposition and disinfection solution's effect on root canal dentin may hinder the treatment outcome.
Objectives: This study aims to compare the effectiveness of four different types of irrigation solutions on smear layer removal and root dentin microhardness.
Methodology: Thirty extracted maxillary central incisors were randomly divided into five groups (n=6) according to the solution types. Group I (Normal saline, negative control), Group II (2.5% NaOCl), Group III (17% EDTA), Group IV (120 mg/ml aqueous extract of Cymbopogon citratus), Group V (Oxyionic solution). The root canal was prepared using Protaper Universal Rotary Files to size F3. The respective solutions were used in 2ml per minute, up to 10 ml. The samples were vertically split into half. One sample from each group was selected for Scanning Electron Microscopic (SEM) for the smear layer observation at the middle and apical third. Weighted Cohen's Kappa test was conducted for assessment. The remaining samples were included in the microhardness testing. Data obtained from the microhardness test was statistically analysed with SPSS version 29 and one-way variance analysis (ANOVA) at $\alpha = 0.05$.
Results: Group II and Group III showed less smear layer in the middle third, whereas Group III showed less smear layer in the apical third. Microhardness test showed no significant difference among the five experimental groups ($p > 0.05$). Nevertheless, Group II and Group V showed comparable results to the negative control group (Group I).
Conclusion: Within the limitations of this study, 17% EDTA was the most effective for smear layer removal in both the middle and apical thirds of the root canal dentin. However, 2.5% NaOCl and Oxyionic solution were preferred for their minimal impact on dentin microhardness.

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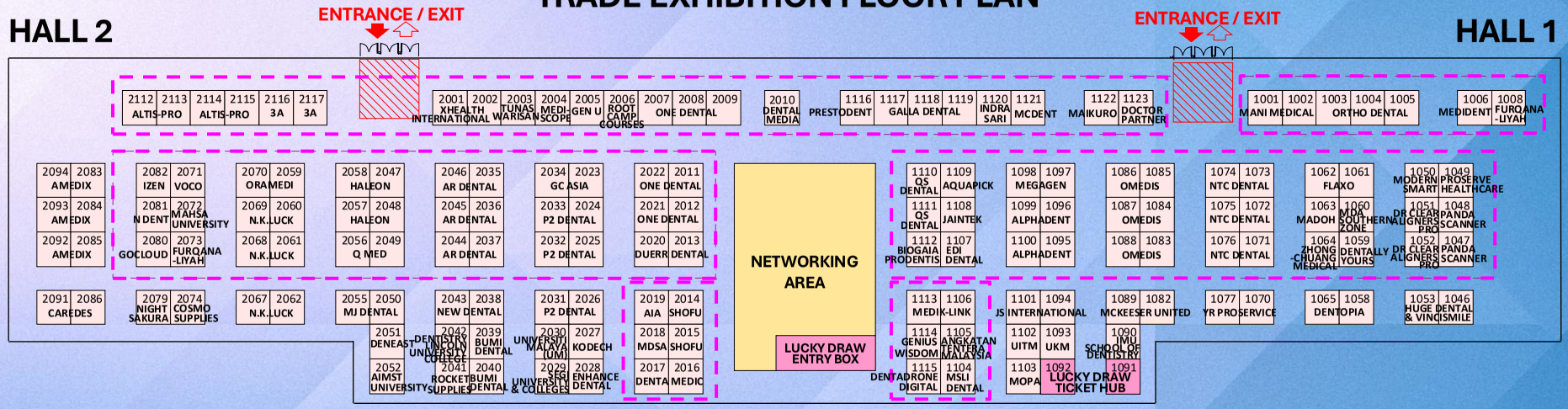

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59	N DENT SDN BHD	2081
60	N.K.LUCK SDN BHD	2060, 2061, 2062, 2067, 2068, 2069
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62	NIGHT SAKURA SDN BHD	2079
63	NTC DENTAL SUPPLIERS SDN BHD	1071, 1072, 1073, 1074, 1075, 1076
64	OMEDIS HEALTHCARE SDN BHD	1083, 1084, 1085, 1086, 1087, 1088
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66	ORAMEDI SDN BHD	2059, 2070
67	ORTHO DENTAL SUPPLY SDN BHD	1003, 1004, 1005
68	P2 DENTAL SDN BHD	2024, 2025, 2026, 2031, 2032, 2033
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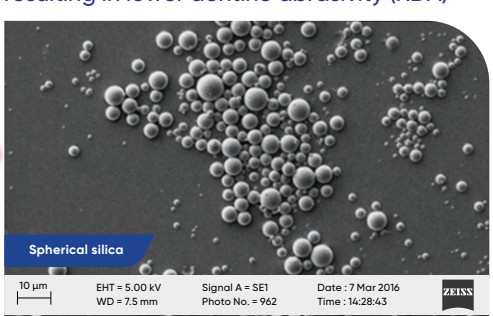

SEM micrograph of spherical silica abrasive particle

VS.

Other more regular abrasive silicas with higher RDA and rougher shapes and forms[1]

SEM micrograph of traditional silica abrasive particles

Reference:
1. 62815, RDA dentifrices with Sensitivity Gum and Enamel. Haleon Data on File, 2021.

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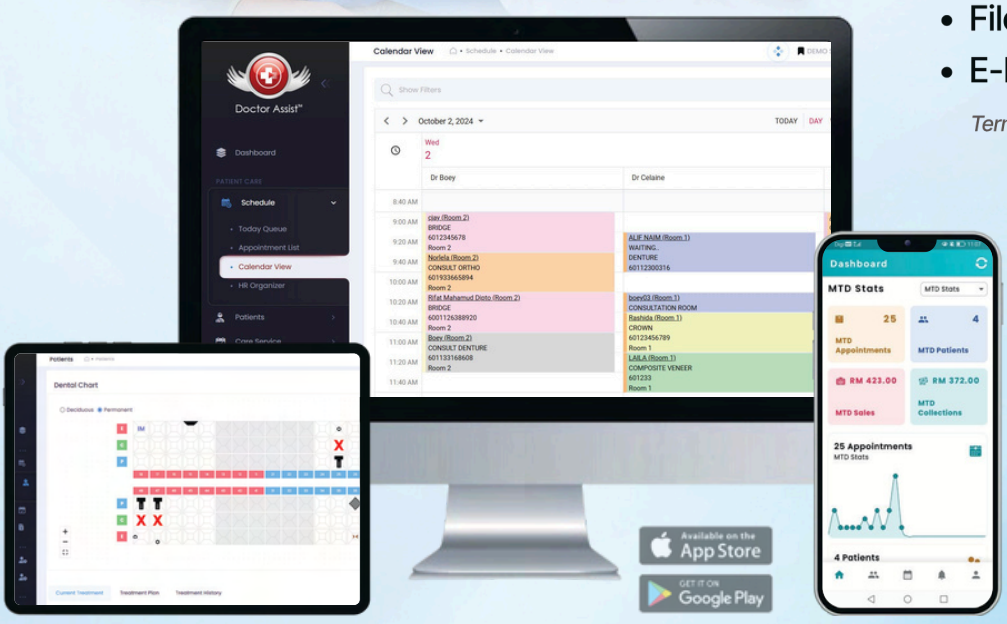

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