

Inderprastha Dental College and Hospital

46/1, Site IV, Industrial Area, Sahibabad, Ghaziabad- 201010 (UP)



IP Dental Insights

April - June 2024

Inderprastha Dental College, Sahibabad, Ghaziabad, India, is a distinguished institution known for its excellence in dental education and healthcare.

The mission of the institution is to deliver comprehensive dental education and drive innovation in oral healthcare. The college features state-of-the-art facilities and a dedicated faculty.

Students at Inderprastha Dental College undergo a transformative learning experience, guided by experienced professionals and enriched with hands-on training. The curriculum integrates theoretical knowledge with practical application, ensuring that graduates are fully prepared to meet the dynamic challenges of the dental profession.

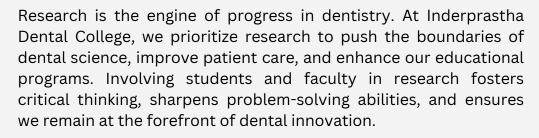
Beyond academics, the college fosters a robust culture of research and community involvement. This motivates students to explore new advancements in dentistry and contribute meaningfully to society.

With its unwavering commitment to excellence and a strong dedication to improving oral health, Inderprastha Dental College remains a leading institution shaping the future of dentistry in India and beyond.



The Vital Role of Research and Copyrights in Dental Education





Through research, students gain exposure to the latest technologies and methodologies, ensuring they are well-prepared for the evolving demands of the profession. Each study, whether it yields groundbreaking discoveries or incremental improvements, adds valuable knowledge to the field, ultimately leading to better patient outcomes.

While research fuels innovation, protecting these innovations through copyrights is equally important. Copyrights safeguard the original works of researchers, ensuring that their contributions receive proper recognition and protection from unauthorized use.

Understanding copyrights is essential for several reasons:

1. **Recognition and Credit:** Copyrights ensure that creators are properly acknowledged, which is vital for building academic and professional reputations.

2. **Encouragement of Innovation**: Knowing their work is protected, researchers are more likely to pursue bold and creative ideas, driving further advancements in dentistry.

3. **Prevention of Misuse:** Copyrights prevent unauthorized use and distribution, preserving the integrity of research findings.

4. **Economic Benefits:** Protecting intellectual property can also secure financial rewards from commercially viable innovations, funding further research.

At Inderprastha Dental College and Hospital, we are dedicated to promoting a culture of research excellence and protecting the intellectual property generated by our community. By emphasizing the importance of research and understanding the value of copyrights, we advance the field of dentistry while upholding the highest standards of academic integrity. Together, let us continue to explore new frontiers in dental science and make meaningful contributions to oral healthcare and society.

Registered Copyright by Inderprastha Dental College

FABLS Program : Training in Emergency Medical Care



Inderprastha Dental College and Hospital has introduced a unique FABLS program, which has been registered with the Copyright Office, Government of India.

This innovative program is specifically designed to equip students with comprehensive skills in managing medical emergencies. The acronym FABLS stands for First Aid, Allied Health Services, and Basic Life Support, reflecting the core components of the program.

First Aid (F): The first module focuses on First Aid, providing students with crucial knowledge and practical skills to handle immediate medical situations. This includes choking, bleeding, and allergic reactions, with proper bandaging and pressure application.

Allied Health Services (A):

The Allied Health Services module introduces students to various supportive health care roles. Through this module, students engage in research to understand the responsibilities and collaborative efforts required in these essential positions.

Basic Life Support (BLS):

The Basic Life Support component trains students in life-saving techniques such as CPR (Cardiopulmonary Resuscitation) and the use of AEDs (Automated External Defibrillators), crucial for cardiac and respiratory emergencies.

The FABLS program by Inderprastha Dental College and Hospital enhances student's readiness to handle real-world medical emergencies, making them invaluable assets in any healthcare setting.

White Coat Ceremony



The White Coat Ceremony at Inderprastha Dental College and Hospital on April 8, 2024, was a memorable and inspiring event, symbolizing the transition of BDS 3rd year students from academic study to clinical practice. Chief Guest for the event was renowned lawyer, Mr Manav Vohra. The event was also graced by the presence of Dr Rahul Paul, Director -Principal of Inderprastha Dental College. The ceremony commenced with a welcome address highlighting the significance of the white coat as a symbol of responsibility, trust, and dedication to patient care.

Dr Nikhil Puri (Head, Department of Conservative Dentistry and Endodontics-UG) gave the hypocritic oath to the students. He also empathy, emphasized the importance of continuous learning, and ethical practices in the dental profession, motivating students to strive for excellence in their future careers.

As the highlight of the ceremony, each student was called to the stage to receive their white coat, signifying their readiness to enter the clinical phase of their education. The coats were presented by senior faculty members, symbolizing the passing of knowledge and responsibilities to the next generation of dental professionals. The students pledged to uphold the highest standards of ethics and patient care.

The ceremony concluded with a heartfelt vote of thanks, followed by a reception where students, faculty, and guests mingled, sharing their experiences and aspirations. This momentous occasion not only celebrated the achievements of the students but also reinforced the values of professionalism and compassion that are essential in the field of dentistry.



April - June 2024 Value Added Course Oral Implantology Program



On May 15-16, 2024, Department of Oral Surgery, Dental College Inderprastha hosted а comprehensive Implantology Program tailored for BDS students. This educational event aimed to enhance students' practical skills and theoretical knowledge in implantology, featuring a blend of hands-on training, live lectures. and demonstrations.

The program's highlight was **Dr. Akash Sachdeva**, a renowned Oral and Maxillofacial Surgeon with over 25 years of experience. Dr. Sachdeva delivered insightful lectures on dental implants, surgical advancements, and techniques, sharing his extensive knowledge and expertise. His engaging teaching style made complex concepts accessible and understandable for the students

A significant part of the program was the hands-on training sessions. Students practiced on typhodont mandibles, goat heads, and suturing models, allowing them to develop their skills in a controlled environment under expert supervision. This practical approach helped students gain confidence and competence in performing implant procedures.

The event also included live demonstrations of real-time surgical procedures, led by Dr. Sachdeva and other experienced oral surgeons. These demonstrations provided students with unique opportunity to observe а the application of theoretical knowledge in practical situations, enhancing their learning experience.



CDE Program A ROADMAP TO RESEARCH SEAL IT BEFORE OTHERS STEAL IT



Inderprastha Dental College and Hospital, Ghaziabad, successfully hosted an enlightening program titled "A Roadmap to Research - Seal it before others Steal it" on May 31, 2024. The event aimed to provide attendees with essential insights into the intricacies of research funding, patent filing, and intellectual property rights in the field of dentistry. Esteemed Speakers of the event were:

Dr. Riaz Abdulla is Prof and Head, Department of Oral Pathology and Microbiology, and Head of Biomaterials & Research Centre at Yenepoya Dental College, Mangalore. Dr. Riaz Abdulla delivered a comprehensive session on the fundamentals of research funding. His expertise in oral pathology and microbiology, combined with his leadership in biomaterials research, provided attendees with a solid understanding of how to secure funding for their research projects. **2 Ms. Isha Sharma** [B.Tech, M.Tech, LLB, PG Diploma in IPR, Founder of Trayambak and Viadroit] with her diverse academic background and extensive experience in intellectual property rights, guided the audience through the complex process of filing dental patents. Her practical tips and legal insights were invaluable for dental professionals looking to protect their innovations.

3 Mr. Vivek Srivastava [B.Tech (Hons), Head of Patents at United & United, Patent and Trademark Attorney], a seasoned patent and trademark attorney, discussed the nuances of copyright and trademark filing specifically for the dental profession. His session equipped attendees with the knowledge to safeguard their intellectual property effectively. The program was a resounding success, with attendees gaining crucial knowledge from industry experts.



Value Added Course In and Out of Smile Designing

A lecture and Hands-on workshop was conducted by Department of Conservative Dentistry and Endodontics on the topic "In and Out of Smile Designing" on 27th and 28th May, 2024. The event was conducted by the renowned endodontist, **Dr Deepak Mehta** (BDS, MDS, PhD in Dental Materials).

Dr Mehta is an accredited & board member of the Indian Academy of Esthetic & Cosmetic Dentistry (IAACD) and founding member of the International Association of General Dentistry (IAGD). Presently, he is an adjunct faculty in the Department of Dental Materials at Yenepoya Dental College & Hospital, Mangalore.

The workshop commenced with an insightful introduction to smile designing, where the principles and importance of aesthetic dentistry were elucidated along with an engaging live demonstration on advanced smile designing techniques, using latest tools and materials. Hands-on experience under expert supervision allowed attendees to gain practical insights and how to apply cutting-edge methods in real time.

This Practical exposure significantly enhanced the understanding and confidence of participants in applying smile designing techniques in their practice.





Course on Basic Life Support and emergency management For Post Graduate students

On April 16th 2024, Inderprastha Dental College and Hospital organised an innovative course on Basic Life Support and Medical Emergency management under the 'FABLS Program'. This initiative empowered it's postgraduate students (MDS, 2023-26) to become Basic Life Support (BLS) course providers, equipping them with essential CPR and first aid skills. This initiative extends beyond dentistry, fostering a culture of preparedness within the institution and the wider community.

The program featured a two-part structure, combining theoretical knowledge with practical application. In the BLS Course Provider Training, participants are trained to become BLS course providers, gaining expertise in curriculum delivery, teaching methods, and assessment techniques for CPR and AED use. The Hands-on CPR & First Aid Training involves postgraduate students engaging in practical exercises covering various critical interventions. Each student was taught using real-life emergency scenarios and provided with individual mannequins to depict these situations.

The training covered airway management techniques, including the insertion of medical tubes such as endotracheal tubes and oropharyngeal airways for maintaining an open airway in unconscious patients Additionally, students practiced proper chest compressions and rescue breaths for adults, infants, and children, using mannequins with real-time feedback.

They also learned the safe use of AEDs, including pad application and voice command interpretation, and were taught how to handle cardiac emergencies.

Furthermore, the training included first aid management of common emergencies such as choking, bleeding, and allergic reactions, with proper bandaging and pressure application techniques. Each student practiced these skills through real-life scenarios, following the exact order of resuscitation steps to ensure a thorough and realistic training experience.



By offering this program annually, the institution ensures that each graduating class is proficient in emergency response, reinforcing its dedication to continuous education and community safety.

***** A Revitalizing Pilates Session at Inderprastha Dental College! 🎄 🌟



On May 24, 2024, Inderprastha Dental College and for its faculty and students. This special event aimed to alleviate the daily stress and posturerelated challenges faced by dental professionals while working on patients.

The session was led by the renowned Pilates instructor from Mangalore, Mrs. Shafana. Known for her expertise and holistic approach to fitness, Mrs. Shafana guided participants through a series of exercises focused on enhancing core strength, flexibility, and overall stress relief. Her instructions were tailored to address the specific needs of dental professionals, making it an especially beneficial experience.

This Pilates class served as a fantastic stress buster Hospital organized a rejuvenating Pilates session for everyone involved. The participants, including both faculty members and students, appreciated the opportunity to unwind and focus on their wellbeing. By incorporating such wellness activities, Inderprastha Dental College demonstrates its commitment to the health and balance of its community.

> We are grateful to Mrs. Shafana for leading this invigorating session and promoting a healthier lifestyle within our community. Her guidance and expertise made a significant impact on all participants. The positive feedback from attendees highlights the importance of integrating physical wellness programs in academic institutions.



World No Tobacco Day Celebrations

May 20th to June 5th, 2024



From May 20th to June 5th, 2024, Inderprastha Dental College and Hospital in Sahibabad, Ghaziabad, organized a series of impactful events to celebrate World No Tobacco Day. These activities showcased our commitment to creating a healthier, tobacco-free future. A Series of Impactful Initiatives

- 1. Educational Workshops: Informative sessions were conducted to educate participants about the dangers of tobacco use and the benefits of quitting. These workshops aimed to equip attendees with knowledge and resources to help them make healthier choices.
- 2. Awareness Rallies: Enthusiastic participants took to the streets in rallies to spread awareness about the harmful effects of tobacco. The rallies drew significant attention and served as a powerful reminder of the need for collective action against tobacco use.
- 3. Nukkad Natak: Engaging street plays, or 'Nukkad Nataks,' were performed to deliver strong anti-tobacco messages. These performances were well-received and resonated deeply with the audience, emphasizing the real-life consequences of tobacco addiction.
- 4. Outreach Programs were organised at Lajpat Nagar, Kaushambi, Bridge Vihar and Sahibabad. Our outreach programs extended the message of tobacco cessation to rural areas and factories, where tobacco use is often prevalent. These programs aimed to reach underserved communities and provide them with vital information and support.



World No Tobacco Day Celebrations

May 20th to June 5th, 2024



Pledge Ceremony (31st May): On World No Tobacco Day, dental and medical staff, along with patients, took a solemn pledge to combat tobacco use. This ceremony highlighted our collective dedication to a tobacco-free future.

Lecture by **Dr. Anshika Pandey**: Our esteemed alumna, Dr. Anshika, is currently working as Tobacco Cessation Specialist at Max Hospital, Vaishali. She delivered an insightful lecture on various aspects of tobacco addiction and cessation. Her expertise and passion for the cause inspired many to consider quitting tobacco and seek help.

IEC Competition: To add a creative twist, we held an exciting IEC (Information, Education, and Communication) competition where students made captivating reels to promote tobacco cessation. The competition encouraged innovative ways to spread awareness and engage a wider audience.





Ghaziabad, Uttar Pradesh, India 18. Sahibabad Industrial Area Site 4. Sahibabad, Ghaziabad, Uttar Pradesh 201005. India

Program & Workshop

RECENT ADVANCEMENTS IN THE MANAGEMENT OF TMD'S



Department of Oral Medicine and Radiology at Inderprastha Dental College and Hospital, Sahibabad, Ghaziabad, successfully conducted an insightful program and workshop on "Recent Advancements in the Management of TMDs" on May 21st and 23rd, 2024. This event marked a significant milestone in our continuous efforts to advance dental education and practice, particularly in the management of temporomandibular disorders (TMDs). The program aimed to equip dental professionals with the latest knowledge and skills, thereby improving patient care and outcomes.

The event featured two esteemed experts who brought a wealth of knowledge and experience to the program. Dr. Krishna Garg, an accomplished medical professional with qualifications including MBBS, MS, PhD, FIMSA, FAMS, and FASI, shared her extensive insights into the field. Dr. Garg is renowned for her contributions to medical science and his expertise in various surgical techniques, making her sessions particularly enlightening for the attendees. Her presentations covered the latest diagnostic advancements and therapeutic approaches in TMD management, offering a deep dive into contemporary treatment modalities.

Dr. Deepankar Misra, holding degrees of BDS and MDS, also graced the event with his expertise. As a distinguished figure in dental surgery, Dr. Misra provided a comprehensive overview of the latest techniques and treatments for TMDs. His sessions emphasized practical applications and innovative solutions, drawing from his extensive clinical experience. Attendees benefited greatly from Dr. Misra's ability to translate complex concepts into actionable knowledge, enhancing their understanding and skills in managing temporomandibular disorders.

Attendees had the unique opportunity to engage in interactive sessions, where they could directly interact with the experts, ask questions, and discuss real-world cases. These sessions were designed to be highly participatory, encouraging active learning and skill enhancement. Participants left with not only a deeper understanding of TMDs but also practical knowledge that could be immediately applied in their practice. The hands-on workshops were particularly beneficial, offering a platform for attendees to practice new techniques under expert supervision.



Student Awards

It gives us great pleasure to announce the remarkable achievements of our students who participated in many Inter College cultural fests from April to June 2024 and showed remarkable talent, commitment, and hard effort.

Through their participation in the Xuberance 2024 Fest at Manav Rachna Dental College in Faridabad, the Zest Sports Fest at Jamia Milia Islamia in New Delhi, and Impressions 2024 at Maulaza Azad in Delhi, students have demonstrated significant strides.



Zest Sports Fest at Jamia Millia Islamia, New Delhi



Zest Sports Fest at Jamia Millia Islamia, New Delhi:

- Dr. Debarghya & Dr. Aditya (MDS), bagged the First Position in Table Tennis Doubles.
- Dr. Debarghya Bhattacharyya (MDS), Department of Prosthodontics and Crown & Bridge bagged the First Position in Table Tennis Singles.

Impressions 2024 at Maulana Azad, Delhi:

- Dr. Debarghya & Dr. Aditya (MDS), bagged the Gold Medal in Table Tennis Doubles
- Dr. Debarghya Bhattacharyya (MDS), secured a Gold Medal in Table Tennis Singles (Boys).
- Dr. Jayati Pandey (MDS) bagged Gold Medal in Table tenis Singles (Girls).

Impressions 2024 at Maulana Azad, New Delhi



Student Awards

We , are incredibly proud of all our students' achievements and grateful for the faculty and staff, who support and encourage their success.

We extend our heartfelt congratulations to all the winners and participants. Your hard work and passion have not only earned you these accolades but also inspired your peers and brought immense pride to our institution.

Let's continue to foster an environment where every student can thrive and reach their full potential.



Xuberance 2024 at Manav Rachna Dental College, Faridabad:

- Khushi Aneja (BDS): Secured Gold Medal in Reels Making
- Tirthankar Chaudhary (BDS): Secured a Gold Medal in the Solo Singing Category
- BDS Students won the Second Prize for showcasing exceptional acting in Nukkad Natak
- Tirthankar, Debashish & Maulik (BDS): Won Silver Medal in the Group Singing Category









Student Awards



SLEEPCON 2024 Prganized by: Indian Sleep Disorders Association & epartment of Pulmonary, Critical Care & Sleep Medicine, VMMC & Safdarjung Hospital, New Delhi

Workshop - 14th JUNE 2024: Conference - 15th, 16th JUNE 2024

Our students continue to thrive in the field of research. They have demonstrated exemplary dedication and scholarly rigor in their academic pursuits at SLEEPCON 2024, organized by Indian Sleep Disorders Association and Department of Pulmonary, Critical Care & Sleep Medicine, VMMC & Safdurjung Hospital, New Delhi between 14th-16th June 2024. We are delighted to announce the exceptional achievements of our students who have been recognized for their outstanding contributions to academia under the able guidance of Dr. Rahul Paul, Director-Principal, Inderprastha Dental College and Hospital.

- Dr. Ratika Sawhney & Dr. Uchit Gupta (MDS), Department of Orthodontics & Dentofacial Orthopaedics- Secured the First Prize for Table Clinic.
- Dr. Mainak Halder (MDS), Department of Orthodontics & Dentofacial Orthopaedics-Secured the First Prize for Poster Presentation
- Dr. Sanjeev Shokeen (MDS), Department of Orthodontics & Dentofacial Orthopaedics-Secured the Third Prize for Poster Presentation.

Dr Sanjeev Shokeen 3rd Prize Poster Presentation

SLEEPCON 2024

CERTIFICATE

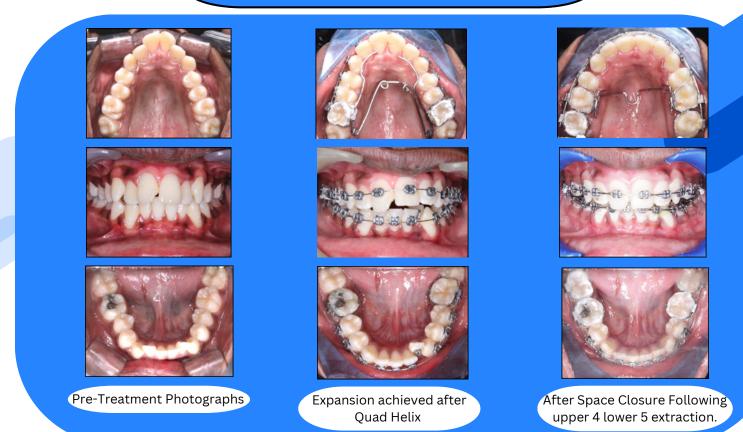
Department of Orthodontic and Dento Facial Orthopaedics Dr Uchit Gupta 1st Prize Table Clinic

Dr Mainak Halder 1st Prize Poster Presentation Dr Ratika Sawhney 1st Prize Table Clinic

Special Case

Department of Orthodontics & Dentofacial Orthopaedics

Expansion Using Quadhelix Appliance



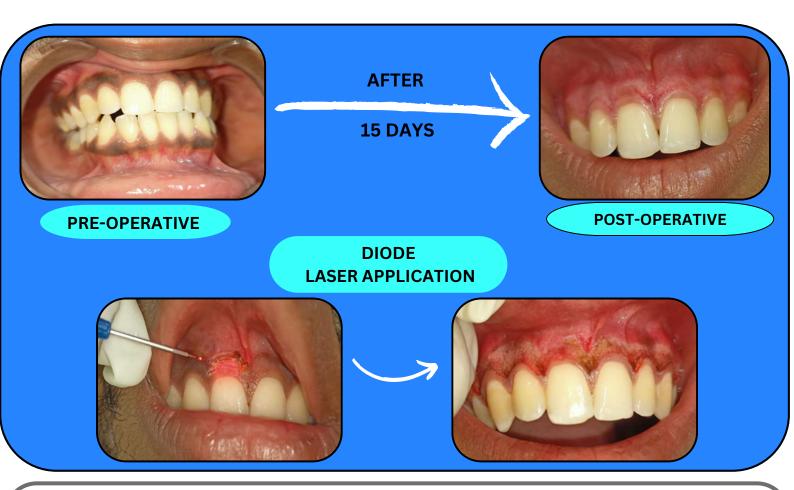
Background: Slow maxillary expansion (SME) has become a popular method for correcting transverse irregularities. Adkins et al. showed that a 1 mm increase in trans-palatal width in the premolar region results in a 0.7 mm increase in maxillary arch perimeter. McNamara et al. found that patients treated with rapid maxillary expansion (RME) and fixed appliances had a net gain of 6 mm in maxillary arch perimeter compared to untreated subjects. Early techniques for maxillary transverse deficiency, once discredited, are now reliable and straightforward. RME, SME, and surgical expansions are common treatments for maxillary expansion, addressing crossbites and crowding issues.

Treatment Plan: A quad-helix appliance was used to expand the arch and create space, followed by four extractions to reduce over jet.

Treatment Done: The quad-helix appliance was used for 6 months, with 3 months of retention. Crowding was resolved, and extractions were necessary for overjet correction and to coorect anterior proclination. An expansion of 3 mm was achieved.

Conclusion: In this case study, we outline the treatment of a 14-year-old male patient diagnosed with Angle's Class I malocclusion and upper lower anterior space deficiency. The treatment approach involved a combination of extraction therapy and expansion of the maxillary arch. Despite the patient being beyond the stage of mid-palatal suture ossification, expanding the transverse arch still resulted in favorable treatment outcomes primarily through dental effects.

Special Case Department of Periodontology GINGIVAL DEPIGMENTATION BY LASER THERAPY



Background: A patient presented to Department of Periodontology at Inderprastha Dental College, Sahibabad, with a chief complaint of blackish gingiva in upper and lower arches since 2 years. Upon clinical examination, Dummet's Grade 2 pigmentation was observed.

Treatment plan: A comprehensive treatment plan was formulated for patient, which included phase 1 therapy and subsequent de- pigmentation using laser.

Phase I therapy: The initial phase of treatment involved full mouth supra and sub-gingival scaling to remove calculus and plaque deposits to reduce microbial load for better post-operative healing.

De-pigmentation procedure: The depigmentation was performed using diode laser under local anesthesia. This procedure aimed to remove pigment containing cells, (melanocytes) by the ability of laser light to get absorb and penetrate tissues.

Post-operative evaluation: After 15 days the patient was evaluated to assess the outcome of the procedure. The evaluation revealed an excellent result of pink gingival aesthetics.

Special Case

Department of Conservative Dentistry and Endodontics

REGENERATIVE ENDODONTIC THERAPY

Background: A 15-year-old girl reported to the Department of Conservative Dentistry and Endodontics with a chief complain of broken upper left front tooth, having history of trauma wrt upper anterior 7 year back. On Clinical Examination Elli's class II fracture was seen wrt left lateral incisor. On Radiographic Examination incomplete root formation with open apex was seen. After doing pulp vitality test it was observed that the tooth was non-vital.

Treatment plan: Several studies have reported the potential of Regenerative Endodontic Therapy (RET) in stimulating the continuous formation of root length and width and preserving the structural integrity of immature necrotic teeth. Regenerative Endodontic Therapy was planned w.r.t 22

Treatment Done:

First appointment: Debridement of the canal followed by calcium hydroxide dressing. **Second Appointment:** Formation of a blood clot by introducing a K-file into periapical space, followed by placement of PRF membrane and MTA, restoring it by composite restoration.

Conclusion: Endodontic rehabilitation with PRF of "necrotic teeth with open apices & apical periodontitis", as well as "nonsurgical endodontic treatment", seems to be anticipated & a promising alternative for periapical tissue restoration. Also, the use of PRF can assist in managing the level of MTA placement. The 12-month follow-up visit revealed evidence of maturation in the apical third of the root and the periapical lesion's healing.



Special Case

Laser-Assisted Frenectomy in a Pediatric Patient

Department of Pediatric and Preventive Dentistry





Immediate Post Operative Picture



1 week Post Operative Picture 1 month Post Operative Picture

Background: A 6-year-old boy presented with speech difficulties and restricted tongue movement. Clinical examination revealed ankyloglossia (tongue-tie), characterized by a short lingual frenulum limiting tongue mobility.

Treatment Plan: The treatment plan involved performing a lingual frenectomy using a diode LASER, chosen for its precision, reduced intraoperative bleeding, and minimal post-operative discomfort.

Treatment Done: Local anesthesia was administered for pain management. A diode LASER was used to precisely incise the frenulum, ensuring excellent hemostasis. The entire procedure was completed in 15 minutes. Post-operative care included maintaining oral hygiene and dietary precautions, with analgesics prescribed as needed.

Conclusion: The patient exhibited immediate improvement in tongue mobility and significant progress in speech articulation during follow-up visits. Healing was complication-free, demonstrating the effectiveness of LASER technology in lingual frenectomy. This minimally invasive approach offers reduced operative time, minimal bleeding, and quick recovery, enhancing patient care at Inderprastha Dental College and Hospital.

Special Case

SURGICAL EXCISION OF NON- MALIGNANT LESION

Department of Oral Surgery



Lesion of the Right Buccal Mucosa



Tissue Bed after Extraction



Surgical Excision of the Lesion



Excised lesion Measuring 2 x 3 cm in size

Background: 55 years old male came to the department of Oral and Maxillofacial Surgery with the chief complaint of old swelling in the inner aspect of the cheek since 5 months. On intra oral examination a solitary well defined sessile swelling on the right buccal mucosa. On palpation, the swelling seemed non-tender, mobile, firm consistency, non-reducible and non-pulsatile.

Treatment Plan: The treatment plan involved performing a surgical excision of the lesion under local anesthesia.

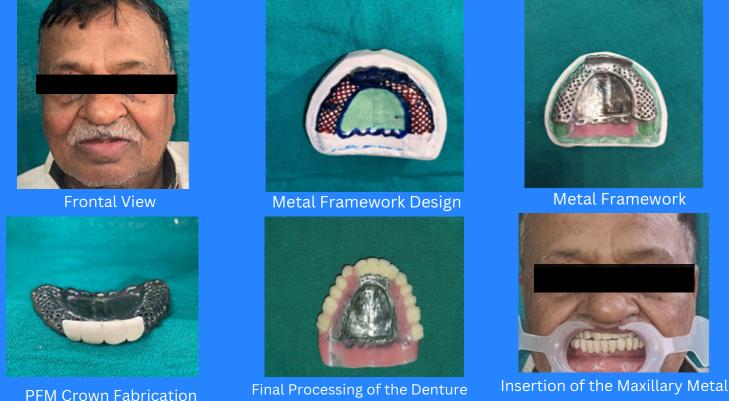
Treatment Done: Local anesthesia was administered for pain management. Surgical excision of the lesion. Size of the excise lesion approximately 2 x 3 cm. 3-Omersilk was used for closure and post-op medications and instructions were given.

Conclusion: The primary goal was to completely remove the fibroma from the affected area. Once removed, the tissue was sent for examination to confirm the nature of the fibroma and ensure no malignancy was present. The surgical site was carefully closed to promote healing. Recovery time approximately 14 days and this depends upon wound care and monitoring for any signs of infection or complications. Patient was scheduled for follow-up appointments to assess healing progress and discuss any further treatment or management, if necessary. fibroma surgery was straightforward and associated with a good prognosis, particularly when the fibroma was benign and had been completely excised.

Special Case

Management of Repeated Midline Fracture of Maxillary Denture Base by Metal denture base with Porcelain Fused to Metal (PFM) Crowns

Department of Prosthodontics and Crowns & Bridges



Base with Acrylic Resin

Denture Base with PFM Crown

Background: A 68-year-old male patient presented with partial edentulism in the maxillary arch and existing PFM crowns on the mandibular arch. The patient desired a stable, aesthetically pleasing maxillary denture that would complement the existing mandibular PFM crowns

Treatment Plan: The treatment plan involved fabrication of maxillary metal denture base with PFM crowns.

Treatment Done: Custom tray fabrication for final impressions, Border moulding and wash impression with Zinc eugenol impression paste. Jaw relation records obtained using wax rims. Shade selection for the PFM crowns using a shade guide to match existing mandibular crown. Selection of appropriate denture teeth for the metal denture base. Pouring final impressions to create master casts. Articulate the master casts on an articulator. Designing the metal framework to provide structural support and retention. Wax pattern creation for the metal framework, followed by casting in a cobalt-chromium alloy. Waxing up the PFM crowns on the metal framework. Casting the metal substructures, applying opaque porcelain, and layering veneering porcelain to achieve the desired shade and translucency. Glazing and polishing the PFM crowns. Try-in done in patient mouth.

Conclusion: Matching the aesthetics and function of maxillary and mandibular prostheses is crucial for patient satisfaction. The use of PFM crowns on a metal denture base provided a durable and aesthetically pleasing solution that integrated well with the patient's existing mandibular restorations. This approach offers a reliable option for patients requiring comprehensive dental rehabilitation with specific aesthetic demand.

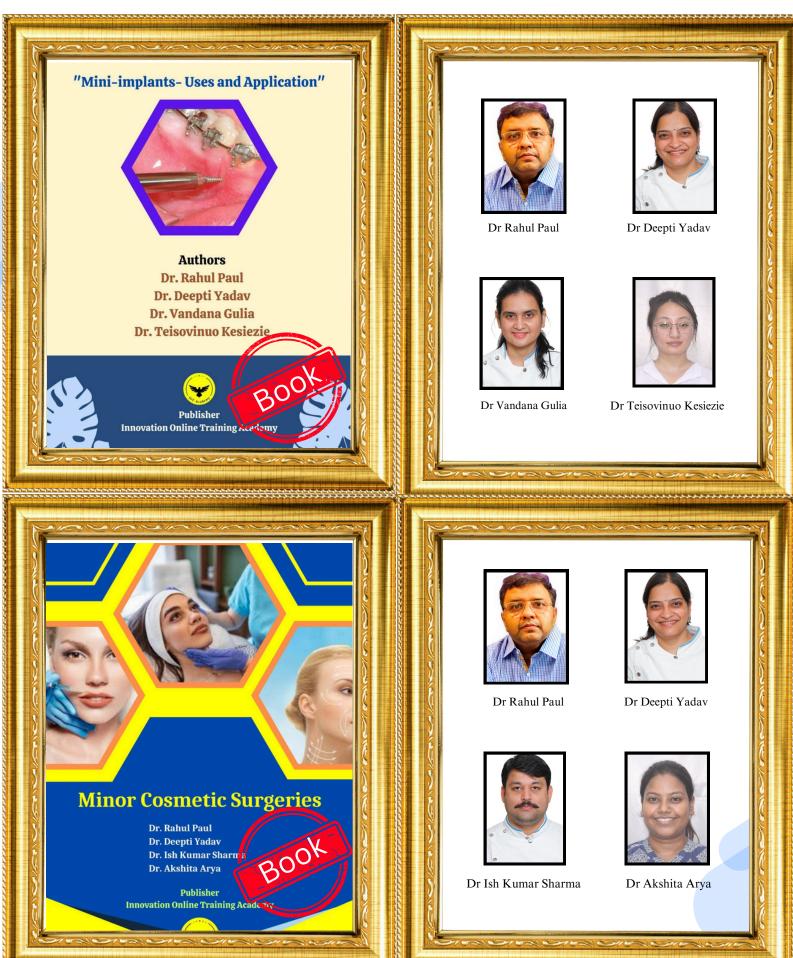
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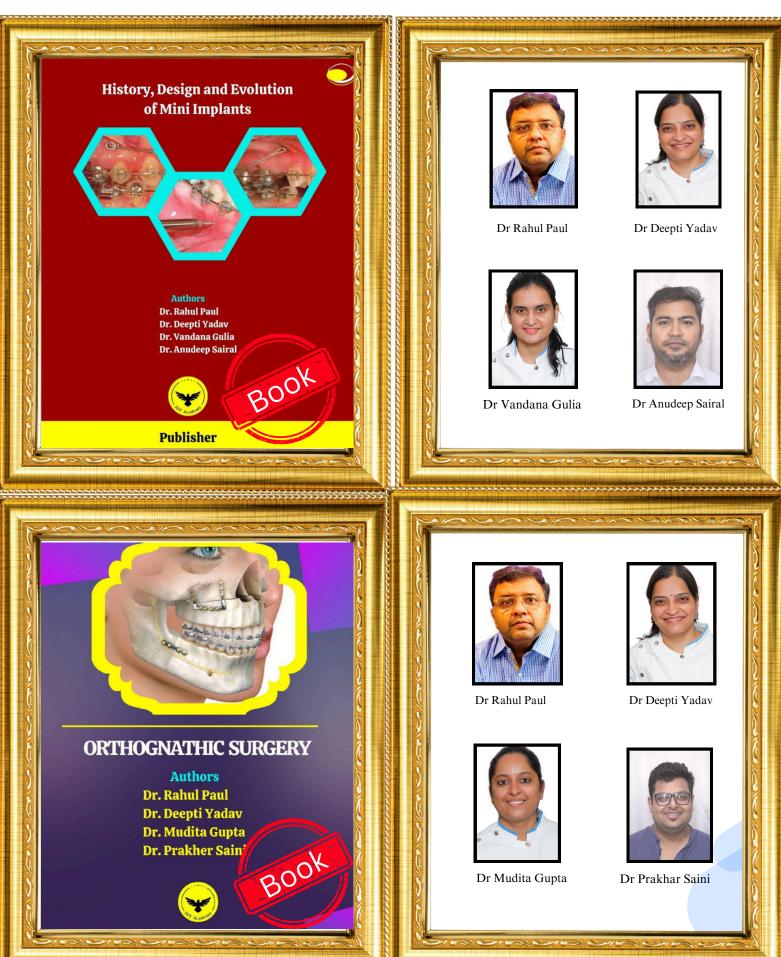
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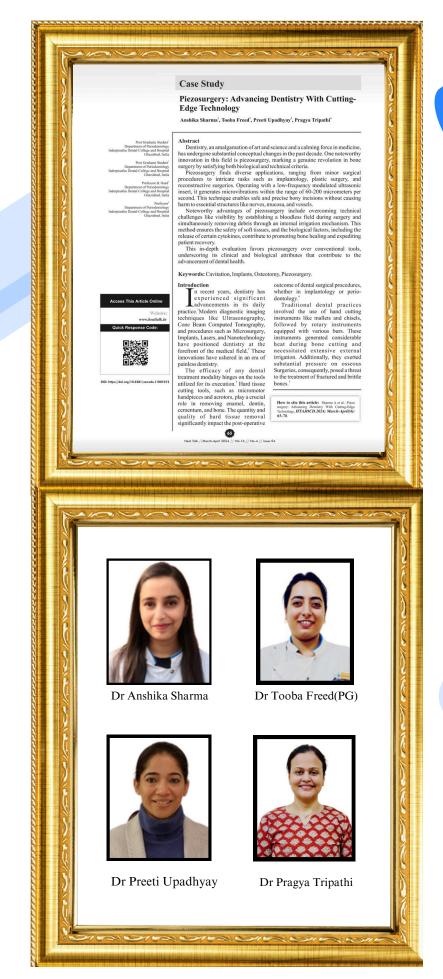
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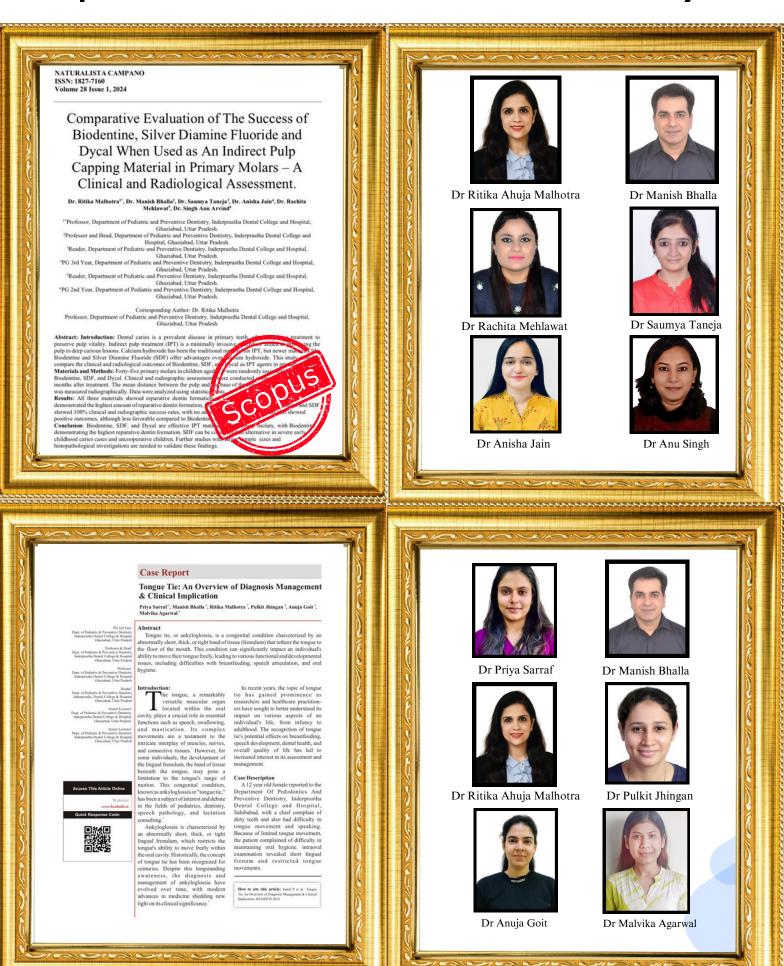
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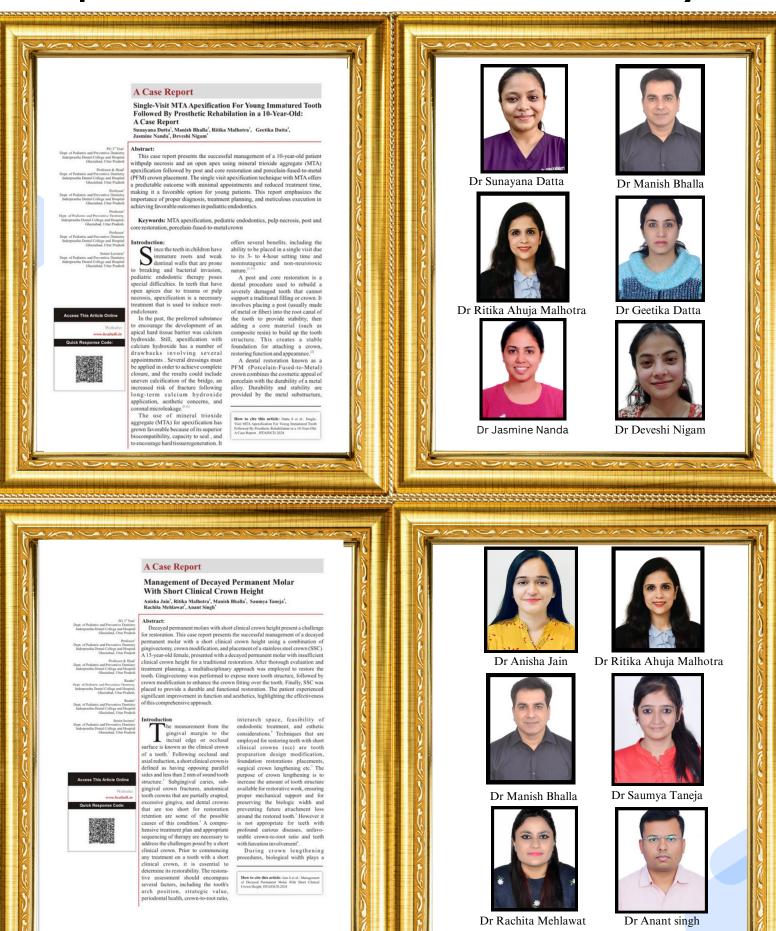
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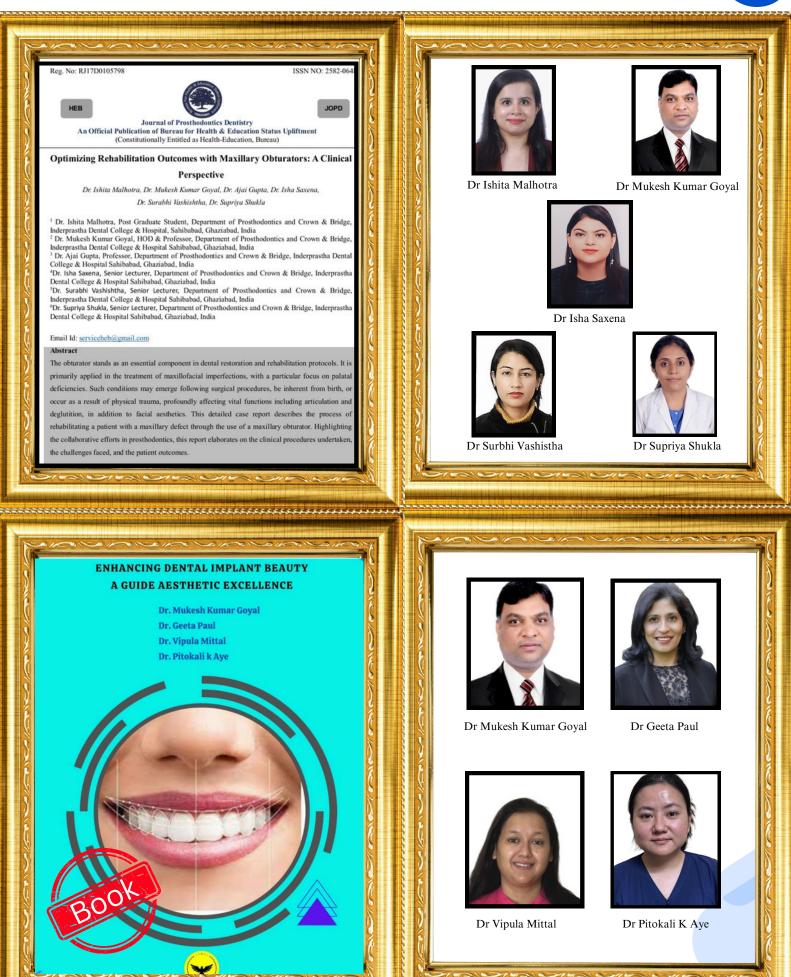
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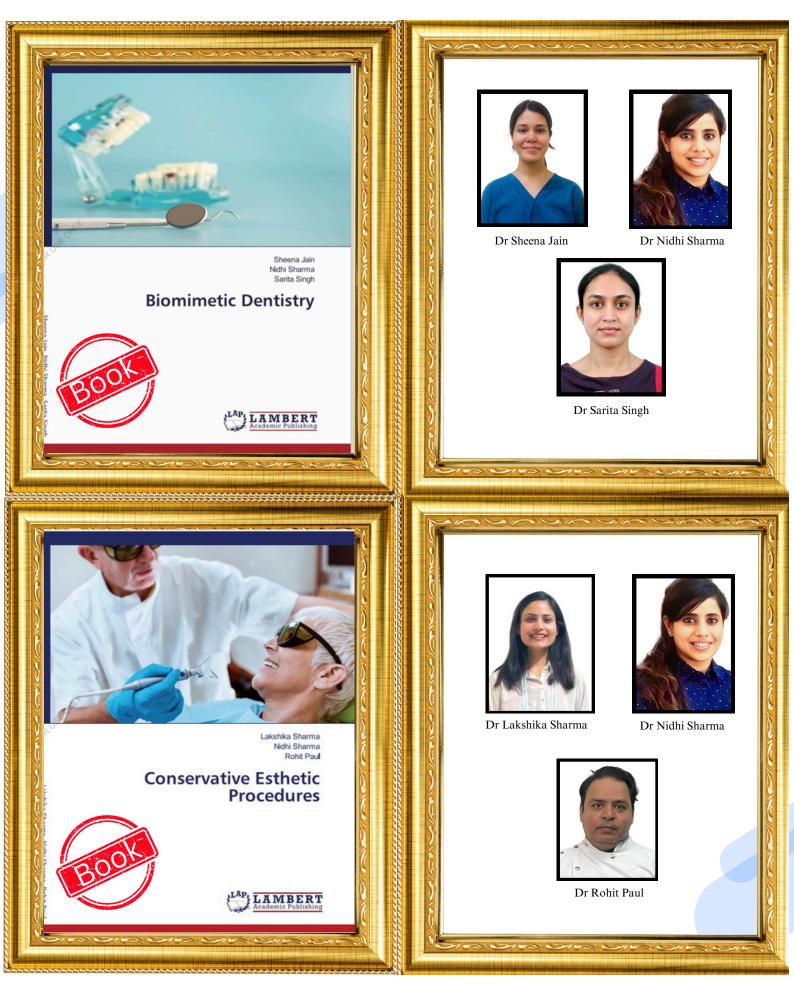
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Department of Prosthodontics and Crowns & Bridges



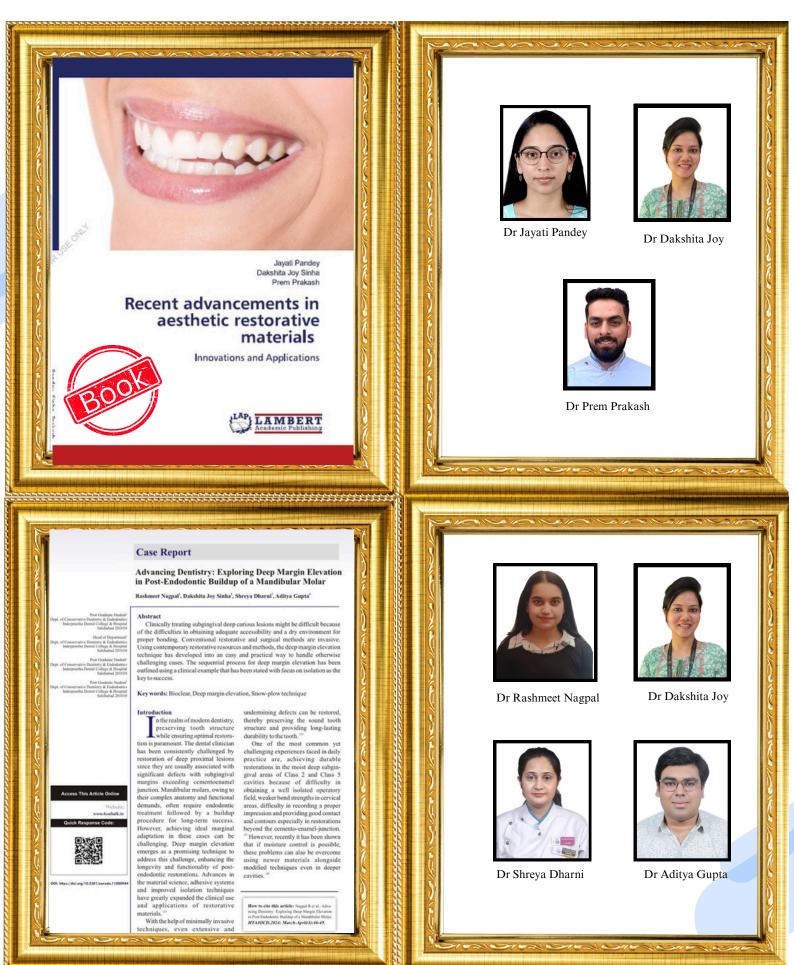
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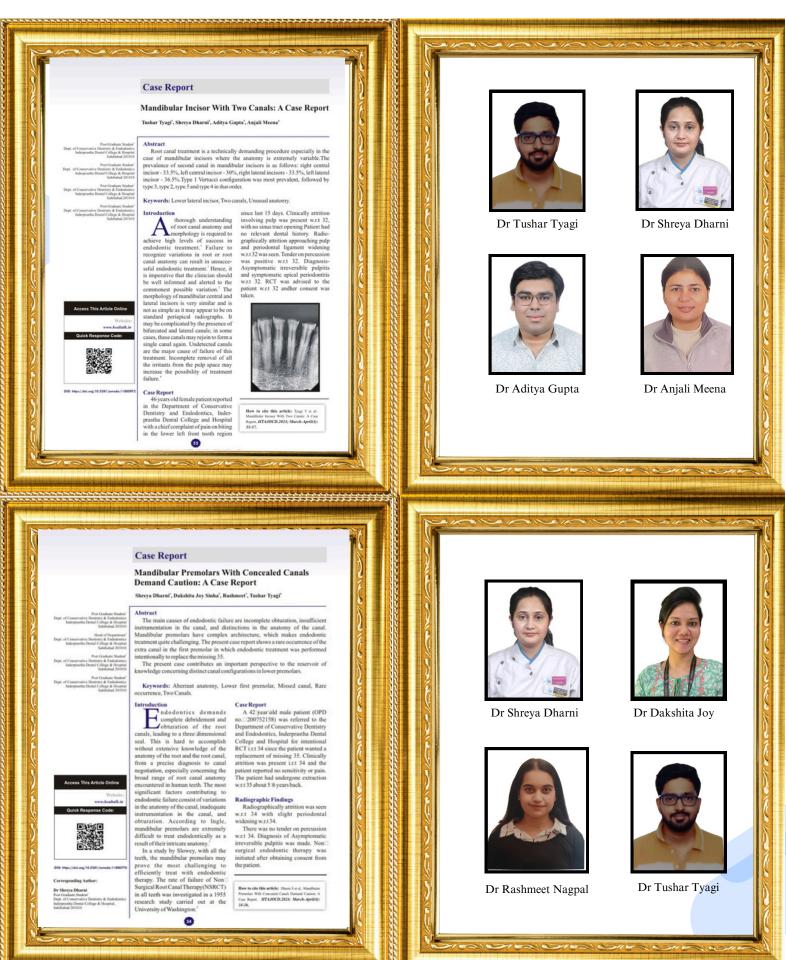
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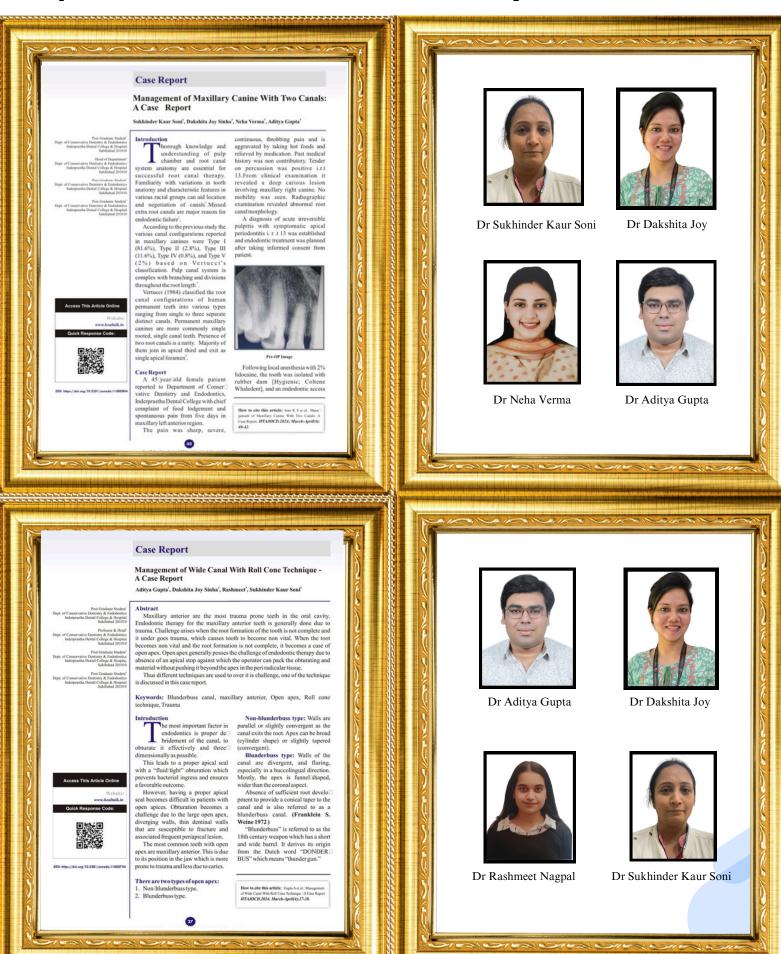
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Department of Conservative Dentistry & Endodontics

Futuristic Trends in Medical Sciences e-ISBN: 978-93-6252-461-4 e-ISBN: 978-93-6252-461-4 IIP Series, Volume 3, Book 15, Part 1, Chapter 4 MAGIC WAND IN THE HANDS OF ENDODONTISTS: GUIDED ENDODONTICS

MAGIC WAND IN THE HANDS OF ENDODONTISTS: **GUIDED ENDODONTICS**

Abstract

and accuracy of root canal procedures. The importance and benefits of using guided endodontics in practice are examined in this

technology improves total treatment efficiency, lowers radiation exposure for practitioners and patients, and lessens the possibility of operational errors. Because guided endodontics is interactive, it facilitates educated decision-making and individualized treatment plane which

individualized treatment plans, which supports a more patient-centric approach. Because of this, endodontists are able to navigate complex canal architecture with

remarkable accuracy, which eventually improves endodontic therapies' success rates and long-term results. The adoption of guided endodontics into endodontic practice is a revolutionary step that gives a viable path toward improving the accuracy and effectiveness of root canal therapy.

Authors Guided endodontics is a cutting-edge technology that revolutionizes the precision Dr. Swati Jha

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chapter. In contrast to conventional techniques, guided endodontics combines accurate instrument tracking, computer-assisted technology, and real-time imaging Dr. Dakshita Joy Sinha Department of Conservative and Endodontics Inderprastha Dental College and Hospital Sahibabad, Ghaziabad, UP, India

to improve procedural results. Cone-beam computed tomography (CBCT) is employed to provide three-dimensional imagery. This allows for accurate navigation through intricate root canal systems and a detailed view of the anatomy of the tooth. Continuous feedback is provided via guided Dr. Anisha Deb Department of Conservative and Endodontics Inderprastha Dental College and Hospital endodontics, which enables endodontists to track the process in real time and guarantee ideal irrigation and instrumentation. This Sahibabad, Ghaziabad, UP, India

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Futuristic Trends in Medical Sciences e-ISBN: 978-93-6252-461-4 IIP Series, Volume 3, Book 15, Part 1, Chapter 6 MICROSURGERY: PRECISION IN ACTION

MICROSURGERY: PRECISION IN ACTION

Abstract

Microsurgical approach is a minimally invasive process that leads in faster healing and a better patient response. Inspection is a critical element of microsurgery that is critical element of microsurgery that its completely lacking in the earlier surgical procedure. Isthmuses frequently cause treatments to fail; consequently, they must be found, cleaned, shaped, and filled with the same care as root canals. Almost all the same care as root canals. Almost all endodontic lesions can be successfully treated by adhering to a precise microsurgical regimen and carefully selecting patients. Endodontic surgery has evolved into microsurgery with strong illumination and magnification under the addition of several microinstruments. Endodontic surgery using microsurgical methods allows doctors to perform endodontic surgery with smaller osteotomics, shallow bevels, isthmus preparation, assessment of resected root surfaces, retropreparation in line with root canal, and precision in placement of new canal, and precision in placement of new filling materials. Each patient's canal, and precision in placement of new filling materials. Each patient's circumstance is unique, and they must be carefully evaluated to see if they are candidates for surgical intervention. The severity of the infection, the state of the surrounding tissues, and the patient's age are all factors to consider. Adopting the latest developments in endodontic microsurgery allows dentists to handle difficult cases and give their patients the best care possible.

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Keywords: Endodontics, Microsurgery, Minimally invasive, Precision

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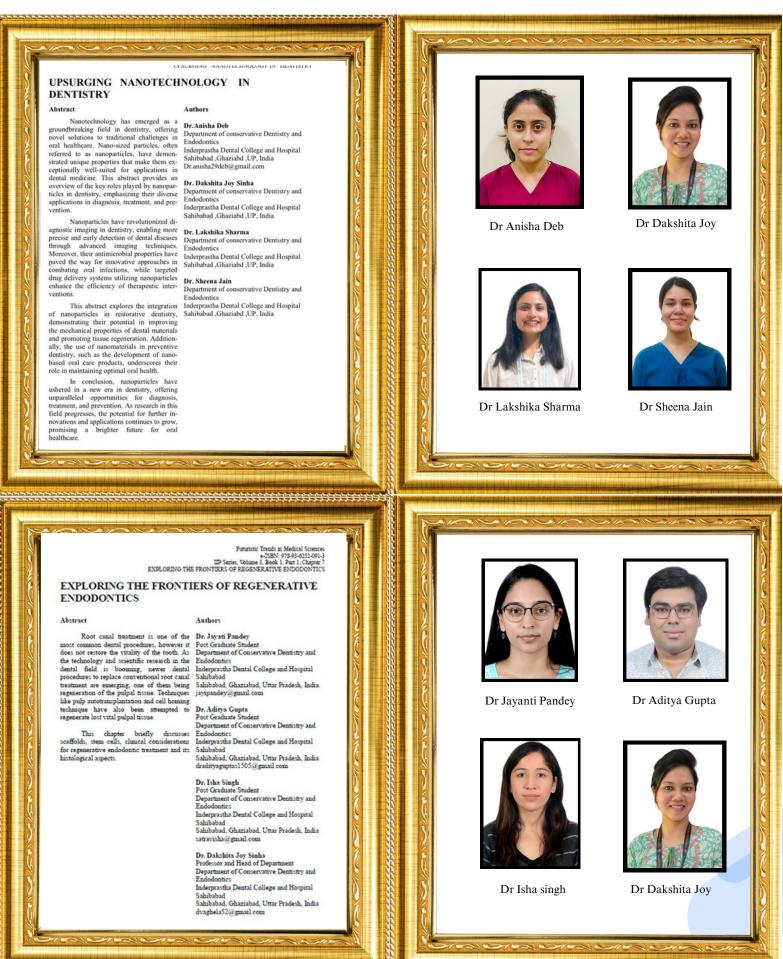
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Publications



Publications

Department of Conservative Dentistry & Endodontics

IIP Series, Volume 3, Book 15 , Part 1, Chapter 12 THE LASER RENAISSANCE: REVOLUTIONIZING DENTISTRY FOR THE MODERN AGE

Authors

THE LASER RENAISSANCE: REVOLUTIONIZING DENTISTRY FOR THE MODERN AGE

Abstract

Traditional dental procedures have

been transformed by lasers in dentistry, which provide accurate and minimally invasive solutions for a variety of applications. This chapter examines the various applications of lasers in dentistry, highlighting its effectiveness in managing both soft and hard tissues. Lasers are both soft and hard tissues. Lasers are particularly good at preventing bleeding and improving vision during soft tissue treatments such as frenectomies and gingivectomies. Furthermore, periodontal therapy makes considerable use of lasers, which effectively disinfect periodontal pockets and stimulate tissue regeneration. Lasers are used in hard tissue applications to precisely ablate enamel, allowing cavities to be prepared with the least amount of harm to the neighboring good tooth structure. They are useful in caries removal because of their capacity to target carious lesions specifically, providing a cautious substitute for conventional drills. Additionally, lasers play a pivotal role in endodontic therapy, disinfecting root canals effectively and enhancing the success of root canal treatments. Beyond clinical applications, lasers in dentistry contribute to patient comfort by minimizing postoperative pain and reducing the need for anesthesia in certain procedures. While challenges such as cost and operator training persist, the continued integration of lasers into dental practice holds promise for advancing patient care, promoting faster healing, and shaping the future of dentistry towards more patient-

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Original Article

Cone-beam computed tomographic evaluation and fracture resistance of endodontically retreated teeth using hyflex remover, Mtwo, and ProTaper retreatment file systems: An in vitro study

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Abstract Introduction: One of the important factors contributing to the success of nonsurgical endodontic retreatment is the efficient removal of the obturating material from the root canal space. However, the fracture resistance of the tooth is likely to be alfected by this procedure. Therefore, the study envisages assessing residual filling material in the root canal and the tooth's resistance to fracture postretreatment using different retreatment files. Materials and Methods's neighbor the success of a single canal were decoronated, followed by chemo-mechanical preparation, and thereafter, using the lateral compaction method, root canals were obturated. The samples were divident to these groups are groups were subjected to the cone-beam computed tomography evaluation to assess fermants of obturating material inside the canals postretreatment, and the same samples were further assessed for fracture resistance, respectively. The collected data were evaluated using the statistical analysis using the Kruskal-Wallis and post hor Bonferroni tests.

Bonferroni tests. Results: There were significant differences in the volume of residual filling among the tested groups in the cervical thirds ($p^{\prime} < 0.05$). The Hyflex remover file showed the highest fracture resistance (427.30 \pm 33.53 N), followed by the Mtwo R (306.90 \pm 27.17 N) and ProTaper R (378.50 \pm 36.82 N). Conclusion: All the tested nick-chainain retreatment files performed satisfactority, hyflex remover left the least amount of filling material in the cervical third and displayed the highest fracture resistance among the aremetics around. the respective group

Keywords: Cone-beam computed tomography, hyflex remover, retreatment Mtwo files, retreatment ProTaper files, tooth fracture resistance

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