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Periodontal proteins in health and disease

Periodontal Proteins

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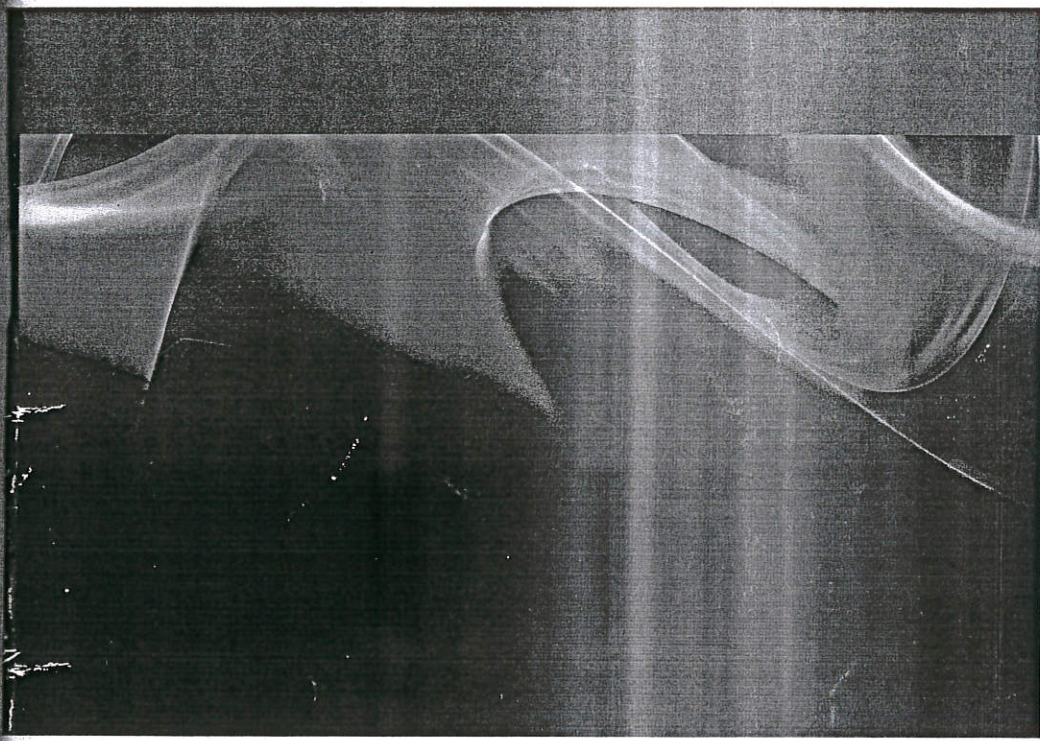
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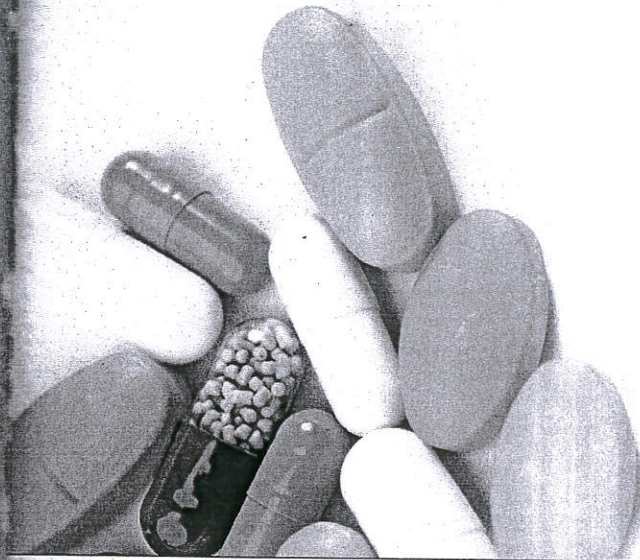
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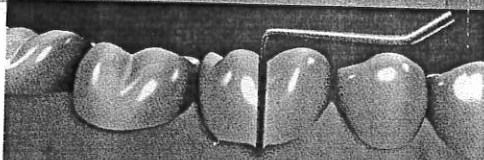
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2017

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Edition

Divya Bhat



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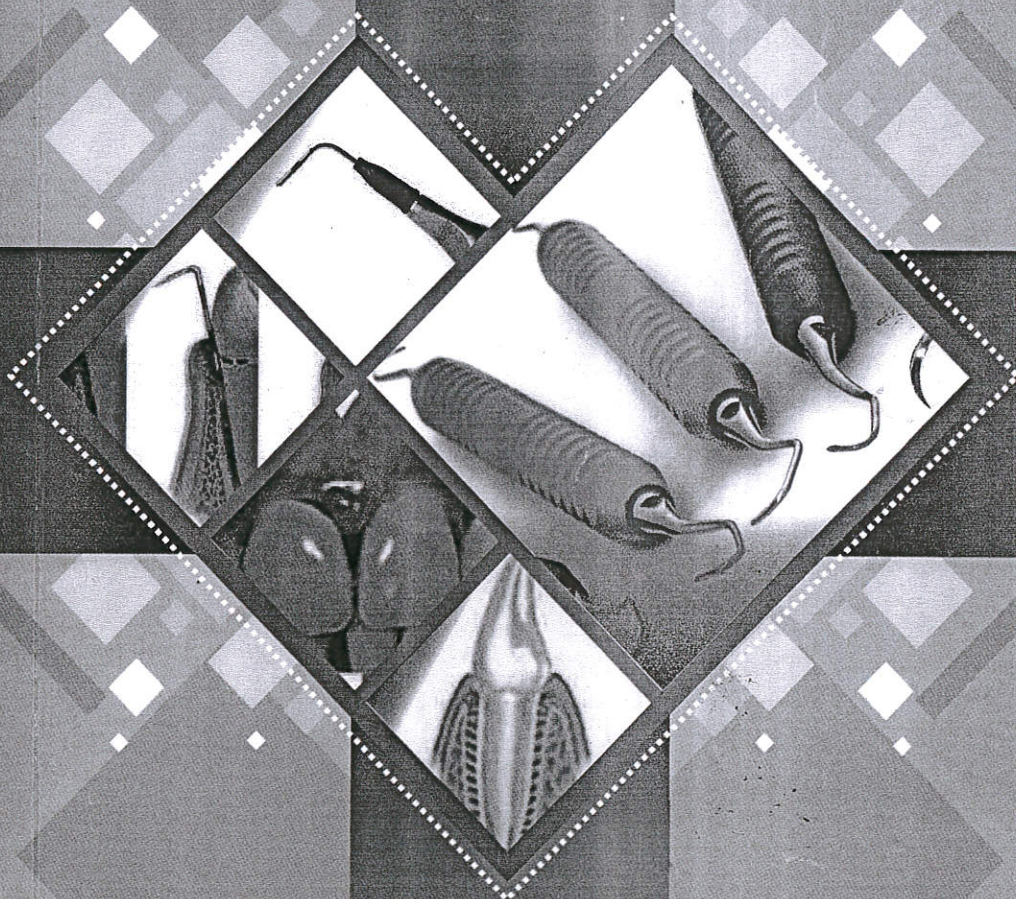
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CLASSIFICATIONS IN PERIODONTICS

- An Update -



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numerous classifications avail
as well as the clinicians. So
expertise have consolidated a
authentic sources relevant to
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concise information will mak
for the students as well as the

Hearty congratulations to the e
work that they have undertak
and in all their future endeavor

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and incubated in two different agar plates. The number of colonies were determined and expressed as CFU per Pradiesher sample.
Results: Conventional method of caries removal reduced Streptococci and Lactobacillus count greater than the Chemomechanical caries removal method.
Conclusion: Conventional method of caries removal is more effective in caries removal than Chemomechanical caries removal.

CAP IT or SEAL IT but CHERISH SMILE

Ramya B.J. A Ananthapur
 D.A.P.M.R.V. Dental College And Hospital, Bangalore, Karnataka

Introduction: Painless treatment of dental caries is a challenge to every pediatric dentist. This paper presents a comparison of two such techniques.
Aim: To check the effectiveness and acceptability of HALL TECHNIQUE and CMCR.
Method: Study population comprised of healthy children aged from 5-7 yrs with mandibular deciduous molars having large carious lesions without involving pulp clinically/radiographically.
 Group A: soft carious lesion was excavated and restored with SS crown using Hall Technique.
 Group B: CMCR was used and caries was excavated and restored with type II GIC.
 Acceptability of treatment was recorded immediately. Patients were recalled at 15 days and 1 month interval to check for occlusion, pain, discomfort and almost swelling. Results were statistically analyzed.
Results: Both HALL TECHNIQUE and CMCR are comparable in restoring carious deciduous mandibular molars however CMCR is more acceptable by patients.
Conclusion: Both HALL TECHNIQUE and CMCR are effective in restoring carious deciduous mandibular molars.

Use of 3d printed models as a surgical aid in treatment planning of minimally invasive surgical procedures.

Neel De Senzo, Paul Chalakkal
 Government Dental college and Hospital, Baraboin, Goa

Introduction: 3D printing had been slowly but surely been making rapid advances in its application in the medical field. Having a tangible model of a patient's anatomy available for a physician to study or use to simulate surgery is preferable to relying solely on MRI or CT scans.
Care Report: This case report describes the use of 3d printed anatomical models for accurate treatment planning of surgical procedures in dentistry. The 3d models were used to accurately simulate the patient's anterior mandible, which assisted in minimally invasive surgical removal of multiple impacted teeth associated with a dentigerous cyst. A mock surgical procedure could be carried out to determine the requisite amount of bone removal as well as the proper extent of the surgical defect post-enucleation.
Uniqueness of the case: This is the first time that 3d printing has been used to accurately locate cyst associated with multiple impacted teeth.

Dental management of a child with Beckwith-Wiedeman syndrome

A. Sankar, C. Vishnu Kekkar, Parvati Narasim, Parvati Narasim,
 Divya Sharmistha, J. Tripurasini

Department of Pediatric & Preventive Dentistry, Meenakshi Ammal Dental College & Hospital, Department of Pediatric & Preventive Dentistry, Sri Chyalamma Dental College & Hospital.
Introduction: Beckwith-Wiedeman syndrome (BWS) is a rare congenital disease of low prevalence. It is due to a rare genetic pathology linked to an alteration on the short arm of chromosome 11. This disease

is characterized by various symptoms, among which is a distinct symptomatic triad: Omphalocele-Macroglossia-Igammaglobulin. **Care Report:** This case report is about a full mouth rehabilitation under general anesthesia for a 6 year old child with Beckwith-Wiedeman syndrome who had repaired omphalocele, macroglossia and mild mental retardation.
Uniqueness of the case: Mental retardation, which occurs in some cases of BWS, is probably due in part to undetected hypoglycemic episodes during infancy. Since this patient had mild mental retardation and history of few hypoglycemic episodes during infancy, careful intraoperative serum glucose monitoring during general anesthesia is particularly important to prevent the neurologic sequelae of unrecognized hypoglycemia.

Comparative evaluation of MTA and Pulpotec in pulpotomy procedure in deciduous teeth

Ahmed Adam Ansari, Arju Jarwal, Rakash Kumar, Jyoti Shrivastava
 KS Medical University

Purpose of Study: This study envisages to compare and evaluate the efficacy, both clinically and radiographically, of MTA and Pulpotec as pulpotomy medicaments in deciduous teeth.
Materials and Method: The twenty deciduous molars were randomly divided into two groups (A and B). Each group consisted of ten deciduous teeth in the age group from 4 to 9 years. Group A was treated with MTA while Group B with Pulpotec. The teeth were evaluated at 2, 6, and 9 months both clinically and radiographically.
Results: It was found that the clinical and radiographic success rates of MTA group over nine month period of observation were 100% and 92.8% respectively while they were 100% and 88.9% respectively in Pulpotec group.
Conclusion: Statistically, success rates of both the medicaments were found to be in the following order:
 Clinical performance: MTA group = Pulpotec group
 Radiographical performance: MTA group = Pulpotec group.

Applicability of Tanaka and Johnston mixed dentition analysis: A systematic review

Ashish Bhattacharjee
 Department of Paediatric and Preventive Dentistry, Dr. Z.A Dental College and Hospital, Aligarh Muslim University, Aligarh

Research question: Tanaka-Johnston method (1974) was developed from a sample of 506 North European orthodontic patients. Hence, it becomes questionable when applied to children of other populations.
Search strategy: *Medline searched key words:* A computerized search were performed in the Medline/Pubmed, EMBASE, and SCIELO electronic databases using a key words as "Mixed Dentition Analysis", "Tanaka and Johnston" for published articles in dental journals from 2006- March 2017.
Results: 237 articles identified in the electronic search and 21 articles fulfilled the inclusion criteria. Among the 21 articles, 15 articles showed that Tanaka-Johnston method overestimated the mesiodistal width of canines and premolars in both the sexes.
Discussion: Tanaka-Johnston method cannot be used accurately to estimate the mesiodistal width of canines and premolars in different populations. The differences in ethnic and racial origins are the biggest reasons for the overestimated mesiodistal width of canines and premolars teeth.

A New Syndrome or Fryns "Anophthalmia-Plus" Syndrome? - A Case Report

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2017

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Abstracts

omatic unless infected. Management of these cysts, varies upon the age of the patient.

Case report: The following is a report of a case of a young child with bilateral non-syndromic dentigerous cysts associated with both the developing second premolars in mandible secondary to over-retained primary molars. The therapeutic approach included extraction of the over-retained primary molars and marsupialization of the lesions. Long-term follow-up revealed good healing of the bony lesion with improved tooth eruption.

Uniqueness of case: bilateral dentigerous cysts are generally rare and if present are generally associated with a syndrome. Ours was a non-syndromic bilateral dentigerous cyst. This case was conservatively treated to preserve the unerupted premolars.

Effects of Various Children's Drinks on the Colour Stability of Different Aesthetic Restorative Materials- In Vitro Study

Prachi Pathak
I.T.S Dental College, Greater Noida

Aim: To evaluate the influence of exposure to various children's drinks on the color stability of different aesthetic restorative material commonly used in pediatric dentistry.

Materials And Method: 128 specimens were prepared from three different restorative materials (Gioner, Nanocomposite and Resin modified GIC). Each material was stored in solution (distilled water, chocolate drink, cola, mixed juice) for 24 hours. Spectrophotometer was used to measure the color change.

Results: For all restorative materials, the lowest ΔE^* values were recorded for specimens stored in distilled water, followed by chocolate drink, mixed juice and cola. Among the three restorative materials tested, Resin modified GIC showed the most color change and Gioner showed the least.

Conclusion: Cola showed more staining and gioner showed least color change.

Assessment of oral health status of children residing in orphanages of Hassan city, Karnataka

Girish Babu KL, Kavayashree G
Hassan Institution of Medical Sciences, Sri Chamarajendra Hospital Campus, Hassan, Karnataka, India

Introduction: According to National Family Health Survey-3 17.3% of the total children in India and 15.3% in Karnataka are orphans. Many significant systemic and oral health problems in them go undetected or if diagnosed are not evaluated and treated.

Aim: To assess the oral health status of children residing in orphanages.

Methods: 103 children aged 6-16 years living in orphanages were selected. Oral hygiene, gingival and dental caries status was assessed.

Results: The mean oral hygiene index was 1.32 ± 0.69 in males and 0.89 ± 0.50 in females. The mean gingival index score was 0.79 ± 0.72 in males and 0.57 ± 0.72 in females. The mean DMFT score was 0.41 ± 0.86 in males and 0.97 ± 1.44 in females.

Conclusion: Oral health programmes should be implemented in orphanages for prevention of oral diseases. Caretakers should be educated, trained and encouraged to implement the oral hygiene practices.

Evaluation of salivary constituents in children with intellectual deficiency

Prahlaad Gadichehla, John T. George
Dept of Pedodontics, Faculty Of Dental Sciences, M.S. Ramaiah University of Applied Sciences, MSR Nagar, Bangalore

Introduction: Though several studies have been conducted on saliva not much is known about Salivary biomarkers in Intellectual deficiency.

Aims: The aim of the study is to evaluate the inorganic constituents, enzyme activities and microorganisms of saliva in children with Intellectual Deficiency.

Methods: Children were selected by a random sampling procedure. Inorganic constituents were analyzed by atomic absorption spectrometry. Estimation of Streptococcus mutans and Lactobacillus levels were done in Microbiological laboratory.

Results: Results show that decreased levels of NO, Amylase activity was higher, concentration of Inorganic phosphate and Magnesium was highest in Autistic group of children. Analysis of salivary counts of Mutans Streptococcus showed no significant differences between Down syndrome and non Down syndrome.

Conclusion: When the results were correlated to dental profiles it was observed that increased enzyme activities and inorganic concentrations were associated with increase in decay.

Comparison of the Effect of Various Storage Media on the Fracture Resistance of the Reattached Incisor Tooth Fragments-An Invitro Study

Prathibha Rani S, Ananthavani A
O.A.Panda Memorial R.V Dental College

Introduction: Reattaching the tooth fragment to its tooth remnant is an ideal and conservative approach for restoring the function and esthetics of a fractured tooth. Hydration of the fragment is an important aspect as there is a time lapse from onset of trauma to provision of treatment, which necessitates the use of appropriate storage media.

Aim: The aim of the study is to identify a suitable storage media for fragment reattachment.

Methods: 60 extracted intact permanent mandibular incisors were sectioned at 3mm from the incisal edge and the fragments were stored in 5 different storage media for 24 hours. The fragments were bonded to the remaining part and the force required to fracture each specimen was measured.

Results: Fracture resistance was recorded highest in milk followed by deionised, coconut water, saline and control(dry) respectively.

Conclusion: Among the different storage media tested, milk proved to be a better storage media for fragment storage.

Assessment of Adverse outcomes with Minimal sedation using Oral Midazolam in children

Poojithi P.C., Srividya Nandimani, Neha Sharma
Department of Pediatric dentistry, Sri Sai college of dental surgery, Vikarabad, Telangana

Introduction: Pharmacological behaviour management plays a major role in providing quality dental care for anxious young children. Oral MIDAZOLAM is widely used oral sedative in children with appropriate margin of safety.

Aim: To assess the adverse outcomes during procedural sedation using oral Midazolam in ASA-I children.

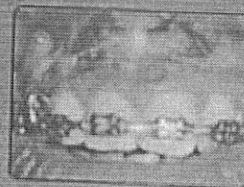
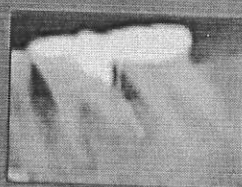
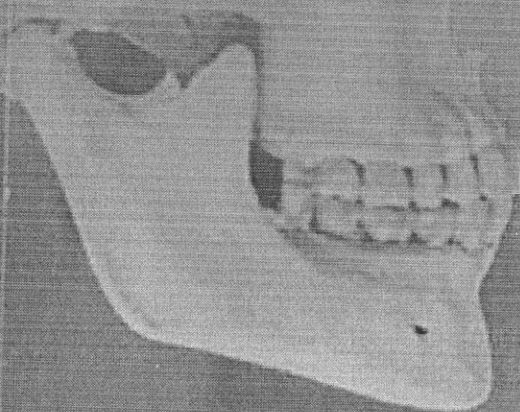
Methods: 50 Healthy pediatric patients with dental problems exhibiting Frankl's behavior rating score II or III between the age group of 1 to 6 years reporting to the hospital requiring dental treatment were enrolled in the study. Oral Midazolam (0.4-0.1mg/kg) is used as a sole sedative agent to achieve minimal to moderate sedation. The outcomes were recorded using World SIVA Adverse Event Sedation Reporting Tool.

Results: Out of 50 children, 43 had no adverse outcomes whereas sedation failed in 6 and one had vomiting.

Conclusion: Within the purview of this study minimal sedation using oral midazolam for short dental procedures is very effective and shows minimal side effects.

Interdisciplinary Periodontics

Suchetha A



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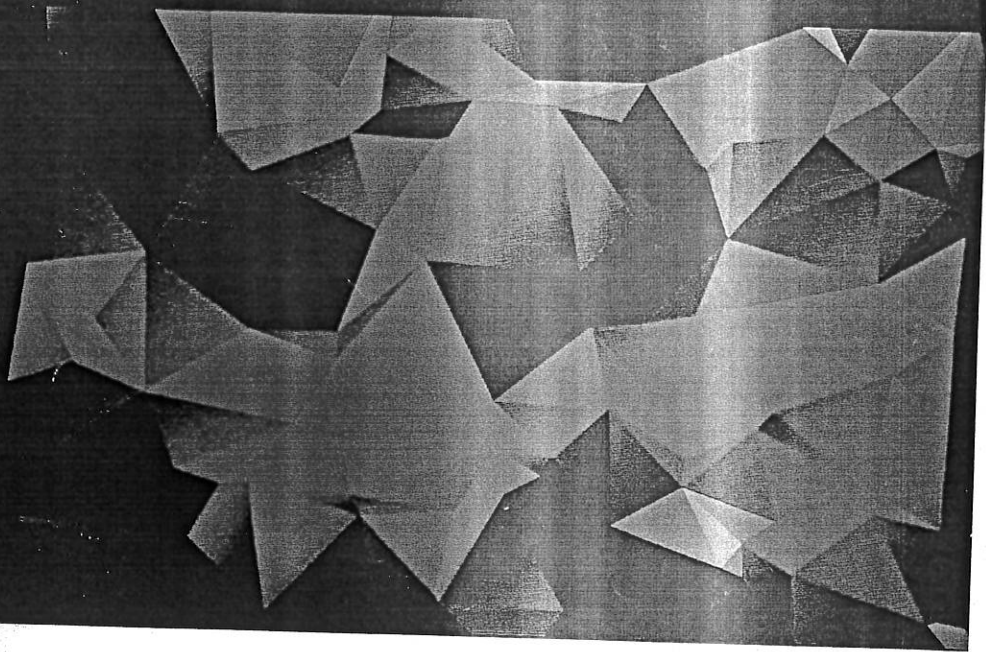
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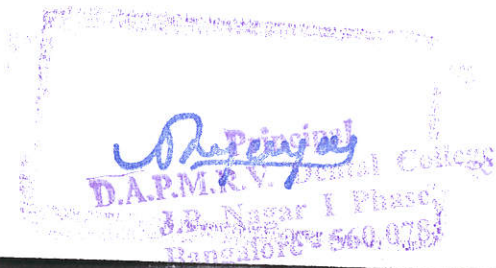
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A VERSATILE FLUID



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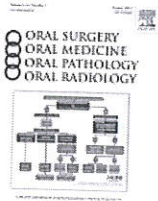
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Objectives: Areca-Nut (AN) induced Oral Premalignant Diseases (OPMDs) are a health burden in Asian countries which causes higher morbidity and mortality. Oral Submucous Fibrosis (OSMF) and Oral Leukoplakia (OL) are the most vulnerable AN induced OPMDs which have a considerable malignant transformation rate. The underline mechanism of the carcinogenesis in OPMDs is still obscure. It was found that the oxidative stress caused by the AN can induce the carcinogenesis in OPMDs. Based on our previous research, it was found that some of these OPMDs have DNA damage caused by oxidative stress. Tropical countries are rich of herbs with antioxidants. Our attempt was to test few herbs as a remedy to reverse the potential carcinogenesis in AN induced OPMDs by reducing the oxidative stress caused by the AN.

Findings: Expression of Phospho histone H2AX, DNA double-strand breaks (DNA DSBs) marker was tested immunohistochemically in OPMDs with the history of AN consumption and compared with normal oral mucosa (NOM) and oral squamous cell carcinoma (OSCC). Phospho histone H2AX was significantly increased in OL and OSMF compared to the NOM ($p < 0.05$). In-vitro studies using immortalized human oral keratinocytes (IHOK) shown that AN induced reactive oxygen species (ROS) production can be significantly reduced by the ethanol extracts of the antioxidant rich herbs *Shumacheria castaneifolia* leaves (SC-extract) and *Solanum nigrum* linn leaves (SN-extract). Antioxidant properties of the herbs were analyzed by DPPH assay. Furthermore, the amount of Phospho histone H2AX in response to 24hr AN treatment was considerably reduced in pretreated IHOK cell with SC extract. Murine model experiment also revealed that the herbal extracts can reduce the AN induced DNA DSBs in oral mucosa.

Conclusions: This study is evident that blocking ROS generation by herbal extracts as a promising approach to reverse DNA DSBs caused by AN. Especially, to prevent malignant transformation in OPMDs

MICRORNA-222 AND MICRORNA-203 SIGNATURES IN ORAL SQUAMOUS CELL CARCINOMA: POTENTIAL ROLE IN PROGRESSION AND AS THERAPEUTIC TARGETS.
DR. MADHURA MG. DAPM R V DENTAL COLLEGE AND HOSPITAL, BENGALURU, KARNATAKA, INDIA

Objectives: To discuss the proposed role of microRNA-222 (miR-222) and microRNA-203 (miR-203) in oral squamous cell carcinoma in the progression and as possible therapeutic targets.

Findings: miR-222 is colocalized as a cluster in the short arm of chromosome X. Luciferase reporter gene assays in oral tongue squamous cell carcinoma (OTSCC) have shown that

hsa-miR-222 regulates the MMP1 expression through both direct cis-regulatory mechanism (targeting MMP1 mRNA) and indirect trans-regulatory mechanism (indirect controlling of MMP1 gene expression by targeting SOD2). Hence, hsa-miR-222 might serve as a novel therapeutic target for OTSCC patients at risk of metastatic disease.

miR-222 has been shown to regulate TRAIL resistance and enhancement of tumorigenicity through PTEN and TIMP3 (Tissue inhibitor of metalloproteinase 3) downregulation.

miR-222 has been implicated to target PUMA (p53 up-regulated modulator of apoptosis) to improve sensitization of UM1 cells to Cisplatin.

miR-203 acts as a molecular switch between keratinocyte proliferation and differentiation in adult epidermis by targeting Δ Np63 mRNA. Following DNA damage, Δ Np63 downregulates and a possible activation of the apoptotic program in head and neck squamous cell carcinoma has been thought of.

miR-203 has been shown to target EIF5A2 in colorectal cancer cells. Serving as a tumor suppressor gene, miR-203 has been thought to be a useful potential therapeutic target in colorectal cancer. miR-203 as a therapeutic target in oral squamous cell carcinoma needs further validation.

Conclusion: In tumour progression, several cellular pathways may be affected by a single microRNA since it can target multiple mRNAs. Much more light is to be shed by developing as well as by tracking the identified microRNA signatures in oral squamous cell carcinoma, to pave the way for their future clinical use in the diagnosis, management, and prognosis.

LADININ-1 IS INVOLVED IN CELL MOTILITY AND PROLIFERATION OF ORAL SQUAMOUS CELL CARCINOMA CELLS. DR. TATSUYA ABE^A, DR. MANABU YAMAZAKI^B, DR. SATOSHI MARUYAMA^C, PROF. YOICHI AJIOKA^A. ^A DIVISION OF MOLECULAR AND DIAGNOSTIC PATHOLOGY, NIIGATA UNIVERSITY GRADUATE SCHOOL OF MEDICAL AND DENTAL SCIENCES, ^B DIVISIONS OF ORAL PATHOLOGY, DEPARTMENT OF TISSUE REGENERATION AND RECONSTRUCTION, NIIGATA UNIVERSITY GRADUATE SCHOOL OF MEDICAL AND DENTAL SCIENCES, ^C ORAL PATHOLOGY SECTION, DEPARTMENT OF SURGICAL PATHOLOGY, NIIGATA UNIVERSITY HOSPITAL

Objectives: Oral squamous cell carcinomas (SCCs) and carcinoma in-situ frequently form the interface between cancer and non-cancerous epithelium. Previously, we identified the altered expression of 7 specific proteins around the interface between cancer and non-cancerous epithelium using proteome analysis of oral SCC tissue sections. Among identified proteins, ladinin-1 (LAD1) expression was significantly increased in the cancer tissue adjacent to non-cancerous epithelium. However, the function of LAD1 in oral SCCs is totally unknown. Thus, the aim of this study was to examine the function of LAD1 in the oral SCCs by in-vitro analysis.

Findings: The gene and protein expressions of LAD1 were confirmed by quantitative PCR and western blotting in three oral SCC cell lines, HSC-2, -3, and -4. Using immunofluorescence, LAD1 was localized in the peripheral area of the cytoplasm of cancer cells. High resolution morphological analysis using structured illumination microscopy revealed that LAD1 was co-localized with actin filament forming "actin arc" in the

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Surgery-First Orthodontic Management

A Clinical Guide to a New
Treatment Approach

Chai Kiat Chng
Narayan H. Gandedkar
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 Springer

M. S. Nagaraj
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Bangalore

2019.



Surgery-First Orthognathic Approach Treatment Protocol: Orthodontic Considerations

5

The secret of getting ahead is getting started. The secret of getting started is breaking your complex, overwhelming tasks into small manageable tasks, and then starting on the first one.
—Mark Twain

5.1 Introduction

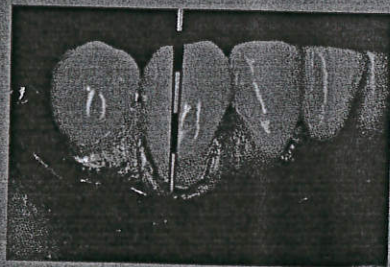
Orthodontic management involving bracket selection, arch wire sequencing, surgical splint duration, and elastic use plays an important role in the success of surgery-first orthognathic approach cases. Considerations during pre-, post-surgery, and pre-surgical preparation phases must be taken into account to take full advantage of RAP for the conversion of transitional occlusion into final occlusion. The aim of this chapter is to describe the different treatment modalities adopted by various authors and also to enumerate our approach.

5.2 Pre-surgical Orthodontics

The pre-surgical orthodontics phase in SFOA involves a much shorter duration as opposed to conventional jaw surgery. In conventional jaw surgery, there is an emphasis on (1) arch coordination (dental expansion of the arches), (2) alleviation of crowding (levelling and alignment), and (3) dental decompensation in the form of up righting retroclined teeth and retraction of proclined teeth. This is done to ascertain the true skeletal deformity, [1] thus making it a time-consuming pre-surgical orthodontic stage. In SFOA, the pre-surgical orthodontic stage is reduced to minimal orthodontics where brackets are bonded but minimal or no orthodontic tooth movement is carried out. The orthodontic tooth movement is carried out post-surgery.

For Post-Graduate Examinations

Supportive Periodontal Therapy A Comprehensive Review



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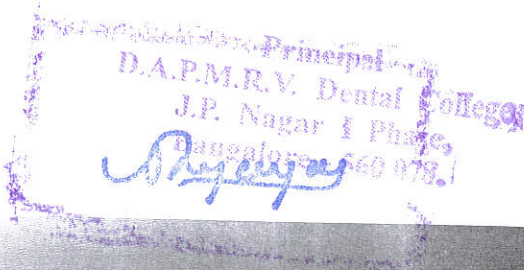
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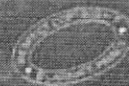


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Etiopathogenesis and management of tumor like lesions of oral cavity – New insights

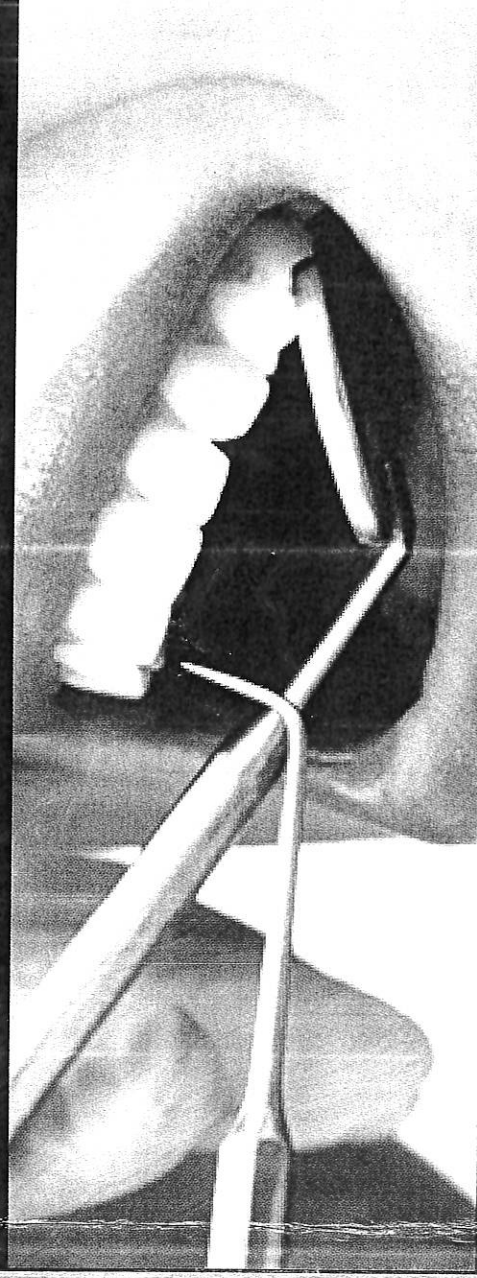
Madhura M G
India

Oral mucosa is constantly exposed to a variety of stimuli and irritants. As a result alterations like hypertrophy, hyperplasia, atrophy and inflammatory changes are common. Some of the hyperplastic / reactive lesions of the oral mucosa and jaw bone simulate tumors and are thus referred to as tumor like lesions. These pseudotumors may appear on any part of the oral cavity involving both soft and hard tissue components. The present paper throws light on clinical presentation, differential diagnosis and also highlights newer concepts in etiopathogenesis and management of important tumor like lesions (pyogenic granuloma, giant cell lesions, peripheral ossifying fibroma, necrotizing sialometaplasia, traumatic neuroma and others) of the oral cavity.

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