## AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Rajiv Gandhi University of Health Sciences Bangalore & Recognized by Dental Council of India (New Delhi)

### Report of the collaborative research activity with HKE's SN Institute of Dental sciences & Research and other institutes, 2016-2017.

Dr. Rahul Halkai. Prof & HOD, Department of Conservative Dentistry & Endodontics of our institute has collaborated for research activity with Dr Kiran R. Halkai, Prof Dr. Jayashree A. Mudda, Departments of Conservative Dentistry & Endodontics, and Periodontics, HKE's SN Institute of Dental sciences and Research, Dr Vandana Rathod Department of Microbiology Gulbarga University, Kalaburgi, and Prof Dr Vasundhara Shivanna, Department of Conservative Dentistry and Endodontics, College of Dental Sciences, Davangere, Karnataka, India. The project was self-supported for a duration of 1 year. As a result of their joint research, they published article titled "Halkai, K. R., Mudda, J. A., Shivanna, V., Rathod, V., & Halkai, R. Biosynthesized Silver Nanoparticles from Fungi as Antimicrobial Agents for Endo-Perio Lesions - A Review. Annual Research & Review in Biology 2016; 10(6): 1-7."



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Biosynthesised Silver Nanoparticles from Fungi as Antimicrobial Agents for Endo-Perio Lesions

Kiren R. Halkal<sup>1\*</sup>, Jayashree A. Mudda<sup>2</sup>, Vasundhara Shivanna<sup>3</sup>, Vandana Rathod<sup>4</sup> and Rahul Halkai<sup>5</sup>

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ABSTRACT

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### Biosynthesised Silver Nanoparticles from Fungi as Antimicrobial Agents for Endo-Perio Lesions A Review

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#### Authors' contributions

This work was carried out in collaboration between all authors. Authors KRH and RH designed the study, wrote the protocol and wrote the first draft of the manuscript. Authors JAM, VS, VR and RH managed the analyses of the study. Author RH managed the literature searches. All authors read and approved the final manuscript.

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#### **ABSTRACT**

Even after rapid development in the treatment modalities and contemporary dental practice, still we encounter the failures due to endodontic, periodontal or combined lesions. Complete elimination of bacteria is the key for successful treatment. The emerging new microorganisms, increase in the

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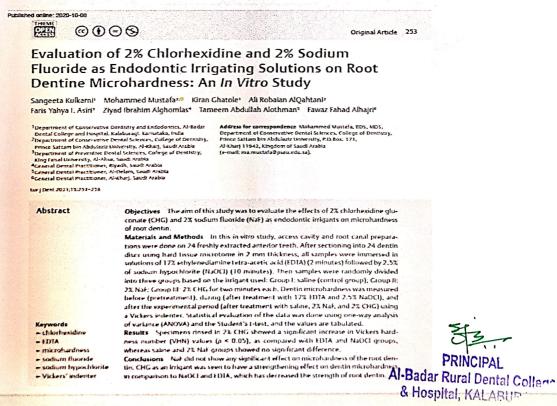




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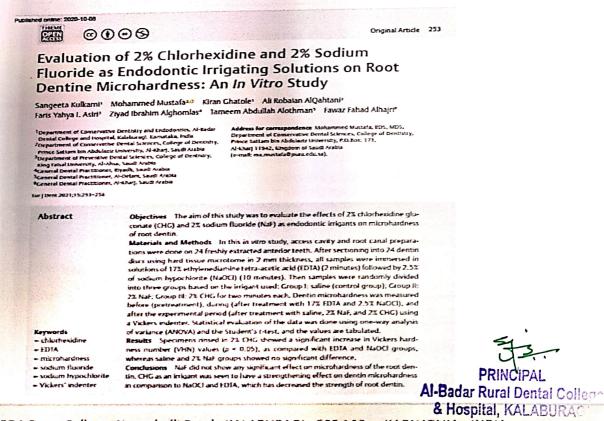


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## Juation of 2% Chlorhexidine and 2% Sodium worlde as Endodontic Irrigating Solutions on Root pentine Microhardness: An In Vitro Study

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Eur J Dent 2021;15:253-258

#### Abstract

**Objectives** The aim of this study was to evaluate the effects of 2% chlorhexidine gluconate (CHG) and 2% sodium fluoride (NaF) as endodontic irrigants on microhardness of root dentin.

Materials and Methods In this in vitro study, access cavity and root canal preparations were done on 24 freshly extracted anterior teeth. After sectioning into 24 dentin discs using hard tissue microtome in 2 mm thickness, all samples were immersed in solutions of 17% ethylenediamine tetra-acetic acid (EDTA) (2 minutes) followed by 2.5%of sodium hypochlorite (NaOCI) (10 minutes). Then samples were randomly divided into three groups based on the irrigant used: Group I: saline (control group); Group II: 2% NaF; Group III: 2% CHG for two minutes each. Dentin microhardness was measured before (pretreatment), during (after treatment with 17% EDTA and 2.5% NaOCI), and after the experimental period (after treatment with saline, 2% NaF, and 2% CHG) using a Vickers indenter. Statistical evaluation of the data was done using one-way analysis of variance (ANOVA) and the Student's t-test, and the values are tabulated.

Results Specimens rinsed in 2% CHG showed a significant increase in Vickers hardness number (VHN) values (p < 0.05), as compared with EDTA and NaOCl groups, whereas saline and 2% NaF groups showed no significant difference.

Conclusions NaF did not show any significant effect on microhardness of the root dentin. CHG as an irrigant was seen to have a strengthening effect on dentin microhardness in comparison to NaOCl and EDTA, which has decreased the strength of root dentin.

#### Keywords

- chlorhexidine
- ► EDTA
- → microhardness
- ► sodium fluoride
- ► Vickers' indenter

#### Introduction

The strength of remaining dentin in the crown and root as well as better quality of postendodontic restoration is responsible for achieving treatment of root canal in a successful

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manner. It includes that a tooth is subjected for loss of radicular as well as coronal tissue because of performed endodontic treatment, pathology, or restorative processes previously. However, it has been analyzed that different root canal irrigants have dissolution effects, which results into

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Evaluation of cytotoxic effects of fungal origin nanosilver particles on oral cancer cell lines: An *in vitro* study

Kiran R Halkai<sup>1</sup>, Rahul Halkai<sup>1</sup>, Supriya Patil<sup>2</sup>, Jameela Alawadi<sup>3</sup>, Wafa Saeed Alawadhi<sup>4</sup>, Narender Reddy Marukaia<sup>5</sup>, Nassreen Hassan Mohammad Albar<sup>6</sup>, Shreeshail Indi<sup>1</sup>

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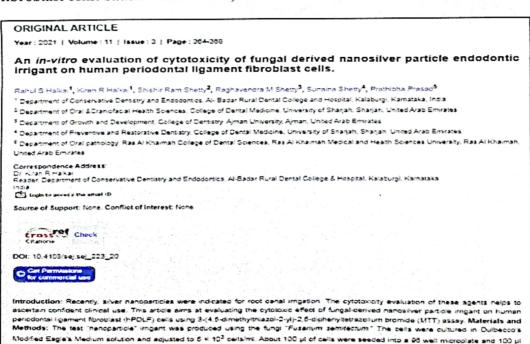


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test impant ranging from 5 to 640 µg/ml concentrations was added to a microplate and incubated at 37°C, 5% CO<sub>2</sub> humidified conditions to 24 h. Untreated cells were used as a control group, About 5 mg/mi NTT was added to the plates and incubated at 37°C in 5% CO2 conditions for 4 h. The viability of cells and the percentage inhibition of cell were determined. Results: The 50% inhibition of cells was found

to be around 320 µg/ml concentration. Cytotoxicity was found to be dose dependent and increased with nigher concent nanosolution Conclusion: Fungal-derived nanositiver impant is safe to hPDLF cells "in vitro" at a concentration of <220 µg/ml.

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ncentration. Cytotoxicity was found to be dose dependent and increased with higher concentrations of the



### An In-vitro evaluation of cytotoxicity of fungal derived nanosilver particle endodontic irrigant on human

periodontal ligament fibroblast cells.

Rahul S. Halkai, Kiran R. Halkai, Shishir Ram Shetty<sup>1</sup>, Raghavendra M. Shetty<sup>2</sup>, Sunaina Shetty<sup>3</sup>, Prathibha Prasad<sup>4</sup>

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### Abstract

Introduction: Recently, silver nanoparticles were indicated for root canal irrigation. The cytotoxicity evaluation of these agents helps to ascertain confident clinical use. This article aims at evaluating the cytotoxic effect of fungal-derived nanosilver particle irrigant on human periodontal ligament fibroblast (hPDLF) cells using 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide (MTT) assay.

Materials and Methods: The test "nanoparticle" irrigant was produced using the fungi "Fusarium semitectum." The cells were cultured in Dulbecco's Modified Eagle's Medium solution and adjusted to  $5 \times 10^3$  cells/ml. About 100 µl of cells were seeded into a 96 well microplate and 100 µl test irrigant ranging from 5 to 640 µg/ml concentrations was added to a microplate and incubated at 37°C, 5% CO<sub>2</sub> humidified conditions for 24 h. Untreated cells were used as a control group. About 5 mg/ml MTT was added to the plates and incubated at 37°C in 5% CO<sub>2</sub> conditions for 4 h. The viability of cells and the percentage inhibition of cell were determined.

Results: The 50% inhibition of cells was found to be around 320 µg/ml concentration. Cytotoxicity was found to be dose dependent and increased with higher concentrations of the nanosolution.

Conclusion: Fungal-derived nanosilver irrigant is safe to hPDLF cells "in vitro" at a concentration of  $< 320 \mu g/ml$ .

Keywords: Biosynthesized silver nanoparticles, cell culture, cytotoxicity, endodontic disinfection, periodontal ligament fibroblast cells

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#### INTRODUCTION

Rapid advancements in nanotechnology have led to a significant increase in the application of nanoparticles, especially the silver nanoparticles (AgNPs) in various

Access this article online Quick Response Code: Website: www.saudiendodj.com 10.4103/sej.sej\_223\_20 fields including dentistry.[1] AgNPs possess unique physicochemical and biological properties. Owing to the smaller particle size (usually 1-100 nm) and large surface

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## Report of the collaborative research activity with MGV's KBH Dental College & Hospital 2020-2021.

Prof Dr Shailedra Mashalkar, Prof & HOD, Department of Conservative Dentistry & Endodontics of our institute has collaborated for research activitiy with Dr Swapnil J. Kolhe, Dr. Priyanka S. Kolhe, Dr. Meenal N. Gulve, Dr. Gayatri B. Aher, and Chetan J. Bhadage, Department of Conservative Dentistry and Endodontics, MGV's KBH Dental College and Hospital, Nashik, Maharashtra, India. The project was self-supported for a duration of 1 year. As a result of their joint research they published article titled "Kolhe SJ, Kolhe PS, Gulve MN, Aher GB, Bhadage CJ, Mashalkar SS. Microcomputed tomographic evaluation of shaping ability of two thermo mechanically treated single-file systems in severely curved roots. J Conserv Dent. 2020 May-Jun;23(3):244-248."

## Microcomputed tomographic evaluation of shaping ability of two thermo mechanically treated single-file systems in severely curved roots

Swapnil J. Kolhe, Priyanka S. Kolhe, Meenal N. Culve, Gayatri B. Aher, Chetan J. Bhadage, Shailendra S. Mashalkas<sup>1</sup>

Department of Conservative Dentistry and Endodontics, MGV's KBH Dental College and Hospital, Nashik, Maharashtra, <sup>1</sup>Department of Conservative Dentistry and Endodontics, Al-Sadar Dental College and Hospital, Gulbarga, Karnataka, India

#### Abstract

Contest: Canal shaping abilities such as conal transportation, centering ability, and preparation time are important and have to be considered before using any Nickel-Titanium file system.

Aim: This in vitro study aimed to evaluate and compare the amount of canal transportation, centering ability, and time required for the shaping of severely curved canals with WaveOne Gold (WOG) Primary Reciprocating file and One Curve (OC) Rotary file using the micro computed tamography (µCT).

Materials and Methods: Thirty intact mesial roots of extracted human mandibular first molars having severe curvature (25°–35°) were selected. Samples were divided into two groups. Samples in Group I and II were shaped with WOG primary reciprocating files and OC rotary files, respectively, to the working length. Time required to prepare each canal was recorded. µCT pre- and post-instrumentation scans of all samples were taken. The cross-sectional images at 3, 6, and 9 mm from the radiographic apex were selected for analysis. Statistical analysis was performed using the Kruskal–Wallis and unpaired t-test.

Results: At 3 mm, OC showed statistically lower canal transportation with mean value (0.17  $\pm$  0.10) than WOG (0.55  $\pm$  0.42). Furthermore, OC showed statistically significant better centering ability (0.59  $\pm$  0.25) than WOG (0.39  $\pm$  0.20) at 3 mm level. However, the differences between both instruments were not statistical significant at 6 and 9 mm level for canal transportation and centering ratio. WOG reciprocating file required less time for canal preparation than OC file.

Conclusions: OC ratary file showed less canal transportation and better conal centring ability than WOG file, during the preparation of severely curved canals. However, WOG required less time for canal preparation.

Keywords: Canal centering; micro-computed tomography; one curve; transportation; WaveOne gold

#### INTRODUCTION

Schilder emphasized that the root canal should have a continuously tapering conical form, from the access cavity till the apex, with the narrowest cross-sectional diameter

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Maharastera, india. E-mail: dr\_swapnilkolhe@rediffmail.com

Date of submission: 20.07.2020 Review completed: 26.07.2020 Date of acceptance: 25.08.2020 Published: 04.12.2020 at the apex and the largest at the orifice, preserving the apical foramen but not altering the original canal curvature as this is the most appropriate canal shape for irrigation and obturation. However, these objectives are difficult to achieve because of the highly variable root canal anatomy. Achieving a proper taper in a curved canal becomes difficult as there are the chances of canal transportation and loss of centering ability of endodontic files.

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### Original Article

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Swapnil J. Kolhe, Priyanka S. Kolhe, Meenal N. Gulve, Gayatri B. Aher, Chetan J. Bhadage, Shailendra S. Mashalkar<sup>1</sup>

Department of Conservative Dentistry and Endodontics, MGV's KBH Dental College and Hospital, Nashik, Maharashtra, <sup>1</sup>Department of Conservative Dentistry and Endodontics, Al-Badar Dental College and Hospital, Gulbarga, Karnataka, India

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## Report of the collaborative research activity with SVS Institute of Dental Sciences and other institutes, 2020-2021.

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Case Report

Unusual Variant of Unicystic Ameloblastoma with CEOT-Like Areas: A Rare Case Report with Review of Literature

Venkata Ramanand Oruganti (5,1 Shylaja Sanjeevareddygari (5,1 Manay Srinivas Munisekhar (5,2 Sharath Kumar Reddy Eppalapalli (5,1 Raghu Vamshi Vishwakarma (5,1 Kiran Kumar Ganji (5,3 Kiran R. Halkai (5,4 and Rahul Halkai (5,4 )

Department of Oral Pathology, SVS Institute of Dental Sciences, Mahabubnagar, Telangana, India
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### Case Report

## Unusual Variant of Unicystic Ameloblastoma with CEOT-Like Areas: A Rare Case Report with Review of Literature

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Ameloblastoma is an epithelial odontogenic neoplasm with clinical and histological diversity. They are locally invasive tumors with 3 clinical variants such as solid, unicystic, and peripheral ameloblastomas, and the unicystic variant constitutes only 13%. Histologically, it shows diverse microscopic patterns that may occur isolated or in combination with other patterns. The granular cell variant accounts for 3.5% of all ameloblastoma cases. The eosinophilic granules seen in the cytoplasm of the tumor are thought to be lysosomes and presumably contribute to the pathogenesis of the tumor. Although such a phenomenon is rare in unicystic ameloblastoma, granular cell differentiation in solid multicystic ameloblastoma is a well-established phenomenon. In this paper, we present a unique case of unicystic ameloblastoma with granular cell differentiation with a brief review.

#### 1. Introduction

Ameloblastoma is a true benign odontogenic tumor of epithelial origin containing enamel organ-like tissue without any hard tissue formation. It was defined by Robinson as "unicentric, nonfunctional, intermittent in growth, anatomically benign and clinically persistent" tumor [1]. It is a locally invasive tumor accounting for 11% among odontogenic tumors in Caucasians [2]. Histologically, plexiform and follicular variants are the two chief patterns, and when certain changes like granular transformation and squamous metaplasia may be noted, they are referred to as granular cell and acanthomatous variants, respectively [3]. The granular cell variant is the least common, but the most aggressive histological type with higher incidence of malignant transformation and distant metastasis [4]. WHO clinically categorized ameloblastomas

into solid multicystic, unicystic, desmoplastic, and peripheral ameloblastomas. However, they are similar histologically. Rarely do they present interesting variations microscopically. However, unicystic ameloblastoma (UA) rarely presents with a myriad of histopathological patterns. In this article, an interesting case of UA is presented along with a literature review relevant to its unique microscopic features [5].

### 2. Case Report

A 45-year-old female patient reported with a swelling in the mandibular anterior region since 4 years. It began as a peanut-sized swelling which progressed to about 6 cm and has increased rapidly during the last two months. Extraoral examination revealed that there was facial asymmetry (Figure 1) with the swelling extending from the right

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Report of the collaborative Activities with HKE'S ,S.Nijalingappa Institute of Dental Sciences and Research, Bapuji Dental College & Hospital, Davangere, HKE's Matohree College of Pharmacy

### 2018

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CURCUMUN MUCCARMESIVE GEL IN MANAGEMENT OF OSMF: A CLINICAL AND HISTOPATHOLOGICAL STUDY

Syeda Arshiya Ara\*, Jayashree A.Mudda, Ashok L., Purushotham Roo and Syed Zakaullah 

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EFFICACY OF COMBINATION CURCUMIN THERAPY IN ORAL SUBMUCOUS FIBROSIS - A CLINICAL AND HISTOPATHOLOGICAL STUDY

Syeda'Arxhiya Ara¹., Jayashree Mudda¹., Ashok Lingappa¹., Purushotham Rao⁴ and Syed zakaullah⁵

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Potentially malignant disorders, OSMF,

A B S T R A C T

Introduction: Oral submissecous fibronis (OSMF) is a potentially malignant disorder carrying a high risk of malignant wandimension. A wide range of treatment modalities have been proposed for oral submissecous fibronis but none have proved curative or enduced have been proposed for oral submissecous fibronis but none have proved curative or enduced the martinest and identificative. Shankar and co authors have reviewed the mast common amount distracts and identified the current treatment approaches systemically and focally. Systemic bouncalability of corcumns is less. Loral drug delivery may provide a more trageted and efficient drug-delivery opinis when systemic lending of the provider of the contract of the

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Department of Oral Medicine & Radiology Al-Badar Royal
Dental College & Hospital Gulbarga, India

INTRODUCTION

Oral submucous fibrosis (OSMF) has been described as "an insidious chronic disease affecting any part of the oral cavity and sometimes the pharynx. Although, occasionally preceded as an analysis of the oral micros and causing tributes and mability to eat. [1]

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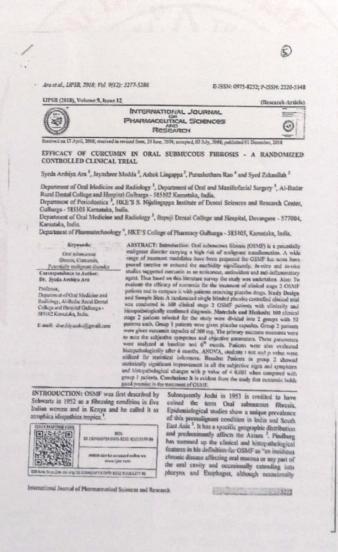
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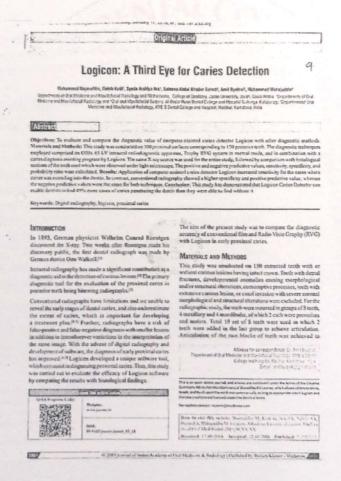
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## Report of the collaborative Activities with College of Dentistry, Jazan University, Jazan, Saudi Arabia

### 2019

Dr. Syeda Arshiya Ara, faculty in Department of Oral medicine & Radiology of our institute has collaborated for research activities with College of Dentistry, Jazan University, Jazan, Saudi Arabia. As a result of their joint research they published the article titled "Najmuddin M, Katti G, Ara S.A, Saheb SAK, Byatnal A, Wahajuddin M. Logicon: A Third eye for caries detection Journal of Indian academy of oral medicine and radiology. 2018,30,(4),381-384





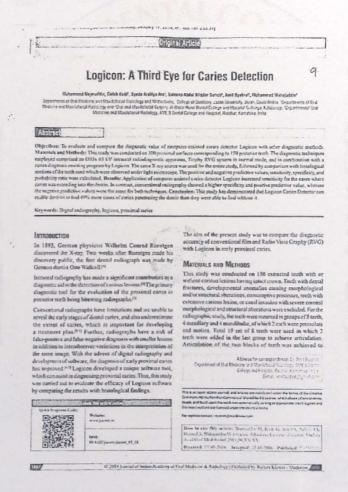
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#### 2016

Dr. Syeda Arshiya Ara, faculty in Department of Oral medicine & Radiology of our institute has collaborated for research activities with Al-Farabi college Jeddah, Saudi Arabia. As a result of their joint research they published the article titled "Shireen A, Ara SA. Odontometric analysis of permanent maxillary first molar in gender determination. Journal of forensic dental sciences 2016, vol 8(3),145-149

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Ayesha Shireen, Syeda Asshiya Ara'l Dipartment of Guid and Al-Sraph Associational Sciences Association Construction of Cold Medicine und Healthings, Al-Batel Rural Donal College And Heaping, Guitarga, Romatak, India  Address for correspondence: Dr. Ayesha Shireen,	meslocitat (MD) as Subjects and Meti- and Fluvialings, ALF 600 subjects (200 on the inclu- bellemed consens, using failured and unpside of pained and unpside of PA 0.00 was core's massiley motar was 16.40 ± 0.6255 mm of the limit massiley in males and 11.20 The offerences be were statistically 41 deepphism of 1.22 designment of 1.20 designment of 1.2	was conducted to assess the sex determination potential from of becoldbroad (BL) descriptions of permission of permission of the model that study has conducted in the Expandren of that Mexicons bridge that are considered to the Mexicons bridge that are considered to the Mexicons bridge that are considered to the medium and an artificial content of the study. After obtaining hereaful medium and evidualize restant set forth for the study. After obtaining hereaful evidualized that the study. After obtaining hereaful evidualized that the study. After obtaining hereaful evidualized the study of the study of the study of the study of the set of the study of the stud
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PRINCIPAL
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### AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Rajiv Gandhi University of Health Sciences Bangalore & Recognized by Dental Council of India (New Delhi)

Report of the collaborative Activities with HKE'S S.Nijalingappa Institute of Dental Sciences and Research, Bapuji Dental College & Hospital, Davangere, HKE's Matohree College of Pharmacy

### 2016

Dr. Syeda Arshiya Ara, faculty in Department of Oral medicine & Radiology of our institute has collaborated for research activities with HKE'S S Nijalingappa Institute of Dental Sciences and Research, Bapuji Dental College & Hospital, Davangere, HKE's Matoshree College of Pharmacy. As a result of their joint research they published the article titled "Ara SA, Mudda JA, Ashok L, Rao P. Research on curcumin: A meta-analysis of Journal of Cancer Research malignant disorder. therapeutics.(JCRT),2016,12,175-181

Original Article

### Research on curcumin: A meta-analysis of potentially malignant disorders

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CURCUMIN MUCOADHESIVE GIT. IN MANAGEMENT OF OSME: A CLINICAL AND HISTOPATHOLOGICAL STUDY

Syeda Arshiya Ara". Jayashree A.Mudda, Ashuk L., Purushatham Rao and Syed Zakanhal

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#### INTRODUCTION

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### AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Rajiv Gandhi University of Health Sciences Bangafore & Recognized by Dental Council of India (New Delhi)

## Report of the collaborative Activities with College of Dentistry, Jazan University, Jazan, Saudi Arabia

#### 2019

Dr. Wahajuddin, faculty in Department of Oral and Maxillofacial Surgery of our institute has collaborated for research activities with College of Dentistry, Jazan University, Jazan, Saudi Arabia. As a result of their joint research they published the article titled "Najmuddin M, Katti G, Ara S.A, Saheb SAK, Byatnal A, Wahajuddin M. Logicon: A Third eye for caries detection Journal of Indian academy of oral medicine and radiology. 2018,30,(4),381-384

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INTRODUCTION In 1895, German physicist Withelm Courad Rocutges	The aim of the present study was to compare the diagnost accuracy of conventional film and Radio Visio Graphy (RV with Logicon in early proximal carres.	
discovered the X-107. Two weeks after Rosengeo made his	Same colored as carly bearing cases	
discovery public, the first dental callograph and made by German dentist One Walker I.14	MATERIALS AND METHODS	
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Conventional radiographs have limitations and are unable to	morphological and saturated alterations were excluded. For	
reveal the early stages of destal carries, and also underestimate	ratiographic study, the treth were mounted in groups of 3 tec	
the extent of caries, which is important for developing a treatment plan. 197 Further, radiographs have a risk of	4 marillary and 4 mandibular, of which 2 each were premail and motors. Total 19 set of 8 teeth were used in what	
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Report of the collaborative Activities with HKE'S S.Nijalingappa Institute of Dental Sciences and Research, Bapuji Dental College & Hospital, Davangere, HKE's Matohree College of Pharmacy

### 2018

Dr. Syed Zakaullah, faculty in Department Of Oral and Maxillofacial Surgery of our institute has collaborated for research activities with HKE'S S.Nijalingappa Institute of Dental Sciences and Research, Bapuji Dental College & Hospital, Davangere, HKE's Matoshree College of Pharmacy. As a result of their joint research they published the article titled "Ara SA, Mudda JA, Ashok L, Rao P, Zakaullah S. Efficacy Of Curcumin Combination Therapy In Management Of OSMF - A Clinical And Histopathological Study. International Journal of Current Advanced Research 2018;7(10C): 15890-15899

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EFFICACY OF COMBINATION CURCUMIN THERAPY IN ORAL SUBMUCOUS FIBROSIS - A CLINICAL AND HISTOPATHOLOGICAL STUDY

Syedd'Arshiya Ara', Jayashree Mudda', Ashok Lingappa', Purushotham Rao' and Syed zakaullah'

<sup>1</sup>Department of Oral Medicine & Radiology Al-Badar Bural Dental College & Hospital Gulbarga, India strument of Periodontics HKST S.Nipilingappia lassituite of Dental Scientes & Research Center Gulbarga <sup>2</sup>Department of Oral Medicine & Radiology Bappil Dental College & Hospital Davangere, India <sup>3</sup>Department of Thormatechnology IKETS College of Pharmacy Gulbarga, India <sup>4</sup>Department of Oral & Maxillofacial Surgery Albadar Rural Dental College & Hospital Gulbarga, India

#### ARTICLE INFO

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#### ABSTRACT

Introduction: Oral submicces fibrous (USMF) is a potentially oraligner carrying a high risk of malignam transformation. A wade range of treatment have been proposed for earl submiccious faircost but note have proved curaries the morbidity significantly. Shahar and our submits have reviewed the most mixtured that the current treatment approaches systemically a the morbidity significantly. Shashar amproved the morbidity significantly of the current treatment appropriate and discases and shoutsfeel the current treatment appropriate discases and shoutsfeel the current treatment appropriate significant discases and shoutsfeel the current treatment appropriate, and clinical three-choicing operations are specifically as the case of efficient of the critically a rotated by systemic and local therefore any protection, due to the case of the oral constraints and constraints and local therefore any protection of the start shows the efficiency of currents as combination of systems and targeted least drug delivery in oral submanes the efficiency of currents 250 mg capation and Aline. The sin of the study was planned and of the study of the constraints and the study of the constraints and the study and the constraints and the study of the constraints and the study of the constraints and the study of the constraints and the constraints and the study of the constraints and the constraints are constraints and the study of the constraints and the constraints were there are currently to take 2 capation per day and 3's concurrent measurements are another than the study of the constraints and the subjective and objective and object

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#### INTRODUCTION

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\*Corresponding author Syeda Arabiya Ara Department of Oral Medicine & Radiology A Dental College & Hospital Gulbarga, India gy Al-Dadar Rural by and/or estociated with vesicle formation, it is always associated with a juxta-epithelial inflammatory reaction followed by a fits occlusive change of the familiar propria, with critical striples of the oral mucota and counting tributus and mability to call [1].

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Syedd'Arshiya Ara', Jayashree Mudda', Ashok Lingappa', Purushotham Rao' and Syed zakaullah'

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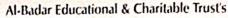
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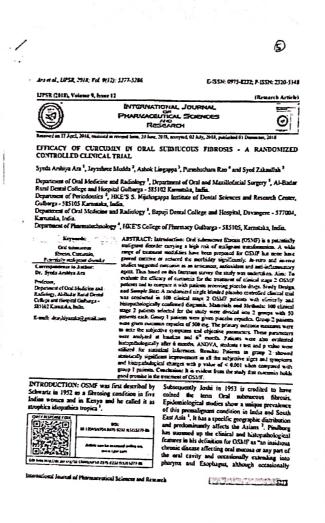


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### AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

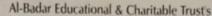
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Affiliated to Rajiv Gandhi University of Health Sciences Bangalore & Recognized by Dental Council of India (New Delhi)

### Report of the collaborative activities with Chirayu hospital, court road, Kalaburgi.

### 2018

Dr Mithlesh Bhagat, Post Graduate student In Department of Periodontics of our college has collaborated for research activities with Chirayu hospital, Kalaburgi. As a result of their joint research, they published the article titled "Dr Mithlesh Bhagat, Dr Roopali Tapashetti, Dr Ghousia Fatima and Dr Neha Bhutani. Assessment of periodontal status in Nephrotic syndrome. International Journal of science and research: volume 8 Issue 7, July 2019

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### Assessment of Periodontal Status in Nephrotic Syndrome

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Port Gradeste Station, Department of Periodostics, Al-Badar Hard Dental College And Hoserial, Kaldborregi, Kamutaka, India

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Professor & Hod. Department of Pattodottess. Al-Badar Dental College & Hospital

\*Render, Department of Periodomics, Al-Budar Dental College & Hospital, Kalaburagi, Kartonik

Abstract, Jam Te evidente the Gred Hygiene Index (1911), Previount Index, Ginginot Index, Servine athunin levels and Assurances of Maximal Leston in Nephronic Syndrome patients, Marinal methods. A Trial number of 20 Nephronic syndrome patients in Marinal method neither and previous patients in white the angle grey of 15.50 years were included in the index. By the means of the deviational of previously addicated impairy we obtain extensive data regarding the common hands intens. (for refereion of coat, heard on the inclusion deviations except the advances of the advanc

Keywards: Nephrotic renderms, and health, marriers, perudontal index, married index. Off

#### 1. Introduction

As technology and medicine advances, the oral health can professionals also have to actain a holistic approach to the monagement of patients with complete medical problems management of patients with complete medical problems. Among all the systemic disorders, diseases of the rena system pose a major cause of mechanic with worldwale', as the kidneys are visal organs for maintaining, acade internal oversonment it chosenostasms, listin, as now becoming a major reservoir of chronic diseases like diabete and hypertisminint. This benefit is expected to rise and thus broabit care; problemsionals need to take care of them. The health care problemsionals need to take care of them, the health care problemsionals need to take care of them. The health care problemsionals reserved to take care of them, the health care problemsionals reserved to take care of them. The health care problemsional strength of the problems of the problems.

these are combined with anti-pyretic medicines and non-second anti-inflaminators drugs.

Septimic Syndrome is one of the chrimic illeness and is characterized by increase amount of protein in the same hyperfipidhemats, hypopoleminarius, discreased princin in the blood, high cholesterid reselv and swelling. Various studies have reported oral manifestantions with chronic rand fadian and End stage rend disease (ESRD) due to decreased best immune response and periodostal diseases are associated with various systems, diseases, "but there are very few randow systems, diseases," but there are very few randow shocks shown oral health problems with Nephroit Syndrome. Hence provint study is undertaken in evaluate the highest properties with Nephroit Syndrome. Hence provint study is undertaken in evaluate the province of graphysic conditions, mucowal status in patient suffering from Nephroite-Syndrome and to provide a good dental as warences for these patients.

#### 2. Material and Methods

The present shely was conducted in the department of Nephrislogy at CHRAYU Hospital, Kalaburgt, Kuranaka, A total number of 20 patients were selected based on the inclusion and exclusion criteria. Informed and writincriteria were taken prior to the commencement of the study from the patient.

#### Inchesion Criteria

- Patients should be aged above 20-30 years.
- Patients diagrassed by Nephrotogen / Physician / perfectly conference published

Volume 8 Issue 7, July 2019

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### AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Rajiv Gandhi University of Health Sciences Bangalore & Recognized by Dental Council of India (New Delhi)

### Report Of The Collabrative Acitivities With Mediscan Diagnostic Care Gulbarga

2016-2017

Dr Shaima Postgraduate student in Department Of Oral Pathology And Microbiology of our institute has collabrated for reseach acitivites with Mediscan Diagnostic Care\_Gulbarga. The project was self supported for a duration of 1 year. As result of their joint resreach, they published article titled A Comparative Study To Assess Risk Of Oral Candidiasis In Pregnant And Nonpregnant Women. JOMFP2021;25:118-23.

#### Original Article

A comparative study to assess risk of oral candidiasis in pregnant and nonpregnant women

Shaimaa, Heena Zainab, Deepa Hugar, Ameena Sulta

biology. Al Bader Dental College and Hospital, Guibarga, Karnataka, India

Abstract
Background: The major hormonal changes observed in pregnant women lead to an imbalance in the oral emorronment. Hence, recent studies suggest that the placenta may harbor a unique microbiome that may have originated in the maternal oral microbiome.

Aim: The present study aimed to assess the risk factor of oral candidiasis in pregnancy and to evaluate the prevalence of Condide species in the oral cavity of pregnant women in all three trimesters. The comparison was also done between pregnant and noopregnant women to evaluate the cause of the prevalence of

candidal species.

Materials and Methods: Thirty pregnant and thirty nonpregnant women aged between 20 and 30 years were included in the study that were healthy and who did not have any obvious lesion in the oral cavity. The sterile musts were used to collect samples from the eral cavity from both the groups by brushing the dorson of the tongue and buccal mucosa. The pregnant women were followed throughout the pregnancy, i.e., in every brimester, for the sample collection. The samples were then collected on absourced Destrose Agar media. The positive growth on culture plates was then inoculated on HiCrome agar differential agar media for speciation.

Results: Datistical analysis was done by comparing the positive growth in pregnant and nonpregnant women using Fisher's exact text. The pregnant women were compared in three trinesters using the McNemar Chrisquare text.

Conclusion: The study concludes that there was no significant presence of Candidal species when compared between pregnant and nonpregnant groups. The prevalence of Candida species also remained the same.

ds: Condido, culture, media, microbiology, oral cavity, pregnancy, prevalence

#### INTRODUCTION

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	DOI: 10.4103/jungs.JOMPP_200_20	

induce the harmless tapcophyte to become a true pathogen.
These psedisposing factors are aging, psegnancy, AIDS,

ow to diffe this efficie: Briannas, Zainati H, Hugar D, Bultana A comparative shaly to element risk of oral candidusts in pregnant and opengnant women. J Oral MacEulev Pathol 2021; 25:118–29.



Affiliated to Rajiv Gandhi University of Health Sciences Bangalore & Recognized by Dental Council of India (New Delhi)

## Report Of The Collabrative Acitivities With Bharti Vidyapeeth Deemed Dental College And Hospital, Sangli Maharashtra

2015-2016

Dr Deepa Hugar faculty in Department Of Oral Pathology And Microbiology of our institute has collabrated for reseach acitivites with Dr Santosh Hugar associate professor Department Of Conservative Endodontics Bharti Vidyapeeth Deemed Dental College And Hospital, Sangli Maharashtra India. The project was self supported for a duration of 1 year. As result of their joint resreach, they published article titled efficiency of bleaching over enamel bond strength of newer generation bonding agents and of 10% sodium ascorbate on reversing the compromised bond strength. Iranian endodontic journal in June 2016.730-73



Efficiency of bleaching over enamel bond strength of newer generation bonding agents and of 10% sodim ascorbate on reversing the compromised bond strength.

Dr Santosh Hugar, Dr Deepa Hugar Dr Sangamesh Sajjanshetty, Dr Prahlad saraf, Dr Suma Saraf, Dr Sridesi Tamagond

#### ARTICLEINFO ABSTRACT ncle Type: riginal Article Aim: The purpose of the study was to check the effect of bracking agent on enamel bond strength of newer generation bonding agent and efficacy of 10% sodium ascorbate on ved 20 MARCH 2016 Setting and design: Eighty freshly extracted human anterior teeth were collected and stored in 10% formalin. These were assigned into two groups of 40 teeth each as group A and group B. Again both groups were subdivided into 4 sub groups with 10 teeth in each group. Two bonding agents that are 5th generation and 7th gener to check the enamel bond strength on unbleached and bleached tooth surface using Hi-lite in-office bleach. Role of sodium ascorbate in reversing the compromised bond strength on bleached teeth were also assessed Methods and material: All the specimens were bonded with resin compos to bond strength testing machine.

Statistical analysis used: Duta were and statistically analysed using ANOVA followed by Duncan Multiple Range Text

A discresse in bond strength was soon with 7th generation adhersor systems compared to 5th generation bonding system. When bunding procedure was done after 24 hours Storage in water and treatment swith 10% sodium associate; the enamed bond strength of both the groups.

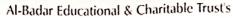
Conclusions: States strength of a single bond was significantly higher as comparto althout on blooched and unblooched notine. 16% welcome second has an ability to reverse the compromised band strength on bloocher normal sanital. Key-words

Single Bond, iBond. Hi-Lite bleaching agent 10% sodium accelute

Key Message

Despite simplification of bounding products, bechauge sensitivity, substante variability, concern about round bond strength were a bleached both law uncreased. With respect to the bleached caused outlace, for compensated bond strength that were choseved with different bording system, effectively revented with an attendant such as IVPs, solidom accordant, when it was used for at least one third of the time of application of the oxiditing blocking

IEJ transan Endoduntic Journal 2016;11(3): 234-340





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### Report of the collaborative research activitiy with Y.M.T Dental College and Hospital. 2020-2021.

Dr. Rahul Halkai. Prof & HOD, Department of Conservative Dentistry & Endodontics of our institute has collaborated for research activitiy with Prof. Dr. Rizwan M. Sanadi, Dr. Priyanka Jain and Dr. Kavita Pol Nalawade, Department of Periodontics, Department of Periodontics, Dr. G.D. Pol Foundation's Y.M.T Dental College and Hospital, Kharghar, Navi Mumbai, Maharashtra, India. The project was self-supported for a duration of 1 year. As a result of their joint research, they published article titled "Sanadi RM, Jain PP, Nalawade KP, Halkai KR, Halkai Gingival Crevicular Fluid An Update. International Journal of Research and Analytical Reviews (IJRAR) 2020; 7 (4): 724-

730"

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#### GINGIVAL CREVICULAR FLUID-AN UPDATE

Dr. Rizwan M. Sanadi, Dr. Privanka P. Jain. Dr. Kavita Pol Nalawade, Dr. Kiran Rahul Halkai, Dr. Rahul Halkai \*Professor, \*2nd year Post graduate undear, \*Professor, \*Professor, \*Associate Professor spariment of Periodonics, Dr. G.D. Pol Foundation's Y.M.T. Deand College and Hospital, Kharghar, Navi Mumbri, Markathar, John Makrathar, John Markathar, January Markathar, Ja

Abstract: The existence of graginal everticular fluid (GCF), o finid that emerges between the surface of the tooth and the epithelial integration, that have become for own many years. GCF is a complex metters of substances derived from serum, leakogues, to tractaric left of the periodomanum and oral bocteria. This review highlights about the graginal everticals fluid in detail and also in function as a petential biomarket.

Index Terms - Ginghal erevicular fluid, exudate, biomarkers, Periodonitàs

#### L INTRODUCTION

The existence of GCF, a finid that emerges between the surface of the tooth and the epithelial integrment, has been recognized for over many years. GCF is a complex mixture of substances desived from serum, lenkocytes, structural cells of the periodicumus and oral barrens. It contains a large repeatoire of serum proteats, inflammatory mediators, bost cell degradation products and mutrobial membolities i Gragaral conventir fluid (GCF) along with leakocytes, cabra, epithelial barnes of the gingival status are generally effective in controlling the deletenous effect of the heavy concentration of barrens froud in destril plaque. If this balance between host and parasite is slightly changed, the result can be progressive periodicinal breakdown.

#### II. HISTORICAL BACKGROUND

Researchers	Studies	
Waerhang 2 (1952)	Focused on anatomy of the sulcus and its transformation into magic pocket during the course of Periodogicus.	
Brill and Erasse (1958)	Physiology of GCF formation and its composition.	
Loe and Holm-Pederson *(1965)	Explored the use of GCF as an indicator of periodontal diseases.	
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Sueda, Bang and Cimasoni (1969) 5	Presence and functions of proteins, especially enzymes in GCF.	
Ohlsson (1973), Gelub (1976) & Unto (1978) 8-48	Discovered collagenise and elastise in GCF & its correlation withfaring arou	

III. PERMEABILITY OF JUNCTIONAL & ORAL SULCULAR EPITHELIA

The man pathway for the transport of substances across the punctional and sulcular epithelia seems to be the intercellular spaces which, according to Schronder and Manual-Pederacial (1990), form 18% of the total volume of the punctional epithelia and the of that of drail solicitie epitheliam. Square (1971) and Vogel et al. (1981) showed fast, degree of permeability does not depend on the

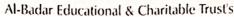
Three routes have been described for permeability:

- 1. Passage from connective these into the values: In a series of experiment, Brill verified the assumption that, interninal fitted entered the jungwed sulcus through its epithelial will by showing that the tracer material, codium fluorescent, administered parameterly or percently, could be recovered from the apprict action that not from other and apprical calculate two and from other parallel calculates are founded and apprical gradual and Kraste, 1919. Brill and 1919, in 1919. Brill was also the first to thow the presence of plasma proteins in the gampusi fluid. The fundamental observations of Brill have been confirmed in other experiments, where it was shown that entraceous materials each as that a tak [Rascheff, 1965] have been delumined to leaked themsecon [Brown-Gradua and Browns, 1965], strucyclina [Bade and Collabor, 1965] and succhasted monomials (Weinstein et al. 1967] could be seen to pass from the graginal vessels must be granted solution or pocket.
- Passage from the valcus into the connective tissue; Plaque components, even of relatively high molecular willowed to accumulate in the sulcus [Cimasoni et al., 1977] ist weight, could pass within the gingival connective tissue, when

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### Report of the collaborative research activity with Y.M.T Dental College and Hospital. 2020-2021.

Dr. Kiran R. Halkai. faculty in Department of Conservative Dentistry & Endodontics of our institute has collaborated for research activitiy with Prof. Dr. Rizwan M. Sanadi, Dr. Priyanka Jain and Dr. Kavita Pol Nalawade, Department of Periodontics, Department of Periodontics, Dr. G.D. Pol Foundation's Y.M.T Dental College and Hospital, Kharghar, Navi Mumbai, Maharashtra, India. The project was self-supported for a duration of 1 year. As a result of their joint research, they published article titled "Sanadi RM, Jain PP, Nalawade KP, Halkai KR, Halkai Gingival Crevicular Fluid An Update. International Journal of Research and Analytical Reviews (IJRAR) 2020; 7 (4): 724-

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### GINGIVAL CREVICULAR FLUID-AN UPDATE

Dr. Rizwan M. Sanadi, Dr. Priyazka P. Jain, Dr. Kavita Pol Nalawade, Dr. Kıran Rahul Halkai, Dr. Rahul Halkai Professor. "2" year Post graduate student, "Professor, "Professor, "Associate Professor 12.1 Department of Periodonics, Dr. G.D. Pol Foundation's Y.M.T. Dennil College and Hosylini, Kharghar, Nevs Mambri,

Spartment of Periodomics, Dr. O.D. Pur Communication in the Salaman, India

Mishrashim, India

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Department of Endodomics, Al-Bader Dentil CoDege and Hospital, Kalaburgi, Gulbarga, Karnataka, India

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III. PERMEABILITY OF JUNCTIONAL & ORAL SULCULAR EPITHELLA?

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# GINGIVAL CREVICULAR FLUID-AN UPDATE

<sup>1</sup>Dr. Rizwan M. Sanadi, <sup>2</sup>Dr. Priyanka P. Jain, <sup>3</sup>Dr. Kavita Pol Nalawade, <sup>4</sup>Dr. Kiran Rahul Halkai, <sup>5</sup>Dr. Rahul Halkai <sup>1</sup> Professor, <sup>2</sup> 2<sup>nd</sup> year Post graduate student, <sup>3</sup> Professor, <sup>4</sup> Professor, <sup>5</sup> Associate Professor Department of Periodontics, Dr. G.D. Pol Foundation's Y.M.T Dental College and Hospital, Kharghar, Navi Mumbai,

Abstract: The existence of gingival crevicular fluid (GCF), a fluid that emerges between the surface of the tooth and the epithelial integument, has been recognized for over many years. GCF is a complex mixture of substances derived from serum, leukocytes, structural cells of the periodontium and oral bacteria. This review highlights about the gingival crevicular fluid in detail and also its function as a potential biomarker.

IndexTerms - Gingival crevicular fluid, exudate, biomarkers, Periodontitis

### I. INTRODUCTION

The existence of GCF, a fluid that emerges between the surface of the tooth and the epithelial integument, has been recognized for over many years. GCF is a complex mixture of substances derived from serum, leukocytes, structural cells of the periodontium and oral bacteria. It contains a large repertoire of serum proteins, inflammatory mediators, host cell degradation products and microbial metabolites. Gingival crevicular fluid (GCF) along with leukocytes, saliva, epithelial barrier of the gingival sulcus are generally effective in controlling the deleterious effect of the heavy concentration of bacteria found in dental plaque. If this balance between host and parasite is slightly changed, the result can be progressive periodontal breakdown.

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Ohlsson (1973), Golub (1976) & Uitto (1978) 8-10	Discovered collagenase and elastase in GCF & its correlation with
Ohlsson (1973), Golde (1774)	inflammation.

### III. PERMEABILITY OF JUNCTIONAL & ORAL SULCULAR EPITHELIA 5

The main pathway for the transport of substances across the junctional and sulcular epithelia seems to be the intercellular spaces which, according to Schroeder and Miunzel-Pedrazzoli [1970], form 18% of the total volume of the junctional epithelium and 12% of that of oral sulcular epithelium. Squier (1973) and Vogel et al (1981) showed that, degree of permeability does not depend on the degree of keratinization.

### Three routes have been described for permeability:

### 1. Passage from connective tissue into the sulcus:

In a series of experiments, Brill verified the assumption that, interstitial fluid entered the gingival sulcus through its epithelial wall by showing that the tracer material, sodium fluorescein, administered parenterally or perorally, could be recovered from the gingival sulcus but not from other oral epithelia [Brill and Krasse, 1959; Brill and Björn, 1959]. Brill was also the first to show the presence of plasma proteins in the gingival fluid. The fundamental observations of Brill have been confirmed in other experiments, where it was shown that extraneous materials such as India ink [Ratcliff, 1966], labeled albumin or labeled fluorescein [Brown-Grant and Browne, 1966], tetracycline [Bader and Goldhaber, 1966] and saccharated iron oxide [Weinstein et al, 1967] could be seen to pass from the gingival vessels into the gingival sulcus or pocket.

### Passage from the sulcus into the connective tissue:

Plaque components, even of relatively high molecular weight, could pass within the gingival connective tissue, when allowed to accumulate in the sulcus [Cimasoni et al, 1977].

<sup>4.5</sup> Department of Endodontics, Al-Badar Dental College and Hospital, Kalaburgi, Gulbarga, Karnataka, India



### AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

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### Report of the collaborative activity with Army College of Dental sciences, 2018-2019.

Dr Gladson Selvakumar, post graduate student, Department of Conservative Dentistry & Endodontics of our institute has collaborated with Department of Conservative Dentistry & Endodontics, Army College of Dental sciences, Hyderabad for participation in student exchange programme for upgrading the knowledge and skills in the subject. The programme was self-funded by the student for a duration of 3 days from 27-08-2018 to 30-08-2018.



### AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, KALABURAGI

Affiliated to Rajiv Gandhi University of Health Sciences Bangalore & Recognized by Dental Council of India (New Delhi)

### Report of the collaborative activity with Army College of Dental sciences, 2018-2019.

Dr Sarita Bhandari, post graduate student, Department of Conservative Dentistry & Endodontics of our institute has collaborated with Department of Conservative Dentistry & Endodontics. Army College of Dental sciences. Hyderahad for participation in student exc 

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### STUDENTS EXCHANGE PROGRAM 2018



Certificate of Participation

This certificate is presented to

### Dr. SARITA BHANDARI

for her active and valuable participation in the Students Exchange Program held at Army College of Dental Sciences from 27-08-2018 to 30-08-2018

Dr. Kidiyoor .K.H

Dr. B. Mohan Hon.Gen.Sec

Dr. K.V. Ramana Reddy

Dr. Mamia Kaushik Prolessor & Head