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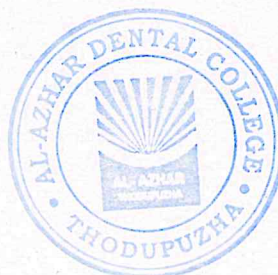
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**3.3.4 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings indexed in UGC-CARE list on the UGC website/Scopus/Web of Science/PubMed/ during the last five years**

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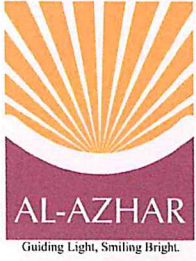
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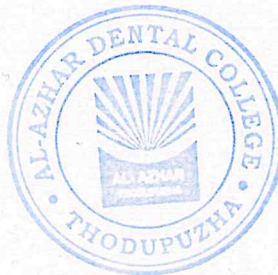
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PRINCIPAL

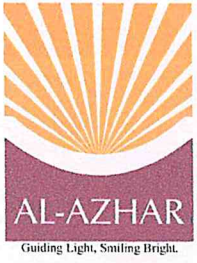
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Number of books and chapters published	1	2	1	1	0
Total number of teachers	86	90	75	67	61



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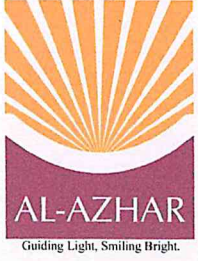
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**ACADEMIC YEAR 2022-23**



# A Brief Review on Magnetic Resonance Imaging Versus Cone Beam Computed Tomography in Diagnosis of Periapical Pathosis

Pavithra Prabakaran <sup>a\*</sup>, Laxmipriya C. H. <sup>b</sup>, Nanditha S. K. <sup>a#</sup>, Manasa K. N. <sup>a\*</sup>, Rameshwari B. <sup>c</sup> and Surya Suprabhan <sup>d\*</sup>

DOI: 10.9734/bpi/ist/v7/2667C

## ABSTRACT

**Objective:** The diagnosis of any dental pathology can range from simple to difficult. While cone beam computed tomography (CBCT) is widely used, magnetic resonance imaging (MRI) is still a proof of concept. The purpose of this review is to compare the diagnostic ability of MRI and CBCT in the diagnosis of periapical pathosis.

**Materials and Methods:** To identify relevant articles from 2010 to 2020, a systematic search was conducted using the electronic databases MEDLINE, Cochrane Library, Google Scholar, and Science Direct. Magnetic resonance imaging, cone beam computed tomography, diagnosis, and periapical diseases were the search terms used.

**Results:** There were 3218 potentially relevant abstracts and titles identified in total. Following the removal of duplicates, 1288 articles were reviewed for titles and abstracts, and 29 were chosen for full-text reading. From those, 19 articles were chosen for the systematic review, which included original research studies, case reports, and case series. The majority of the studies included in this review suggested that combining CBCT and MRI is required for a better and more precise diagnosis of complex periapical pathoses. The primary advantage of MRI is its ability to image soft tissues with nonionizing radiation, whereas the primary disadvantage of CBCT is overdiagnosis of the lesion.

**Conclusion:** MRI has several advantages over CBCT in terms of diagnostic utility. When diagnosing periapical pathogens, both MRI and CBCT are needed for an accurate diagnosis.

*Keywords: Cone beam computed tomography; magnetic resonance imaging; diagnosis; periapical pathology.*

## 1. INTRODUCTION

A disease diagnosis is required to develop a treatment plan [1]. To arrive at a correct diagnosis, dental and medical records alone are insufficient [2]. It is critical to collect and organise data in order to make an accurate diagnosis [3]. Radiography is crucial in the diagnosis of periapical pathosis. Because conventional radiography produces two-dimensional images, it has several limitations. Other drawbacks include anatomical noise and geometric distortion masking the area of interest. These disadvantages must be addressed through advancements in three-dimensional imaging (3D) techniques [4].

The jaw bone and other bones surround the teeth at a distance from the root apices. These structures become superimposed onto the anatomic features of diagnostic interest, sometimes to the

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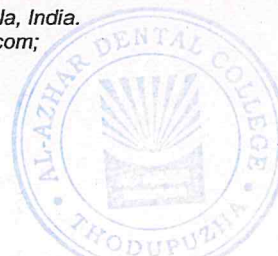
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**Special Award:** Finalist at Elsevier Olympiad in 2016.

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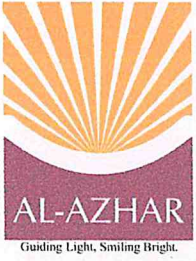
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**ACADEMIC YEAR 2021-22**



# MCOs in Clinical Dentistry – 2021

A Guide to Competitive  
Examinations in  
Dentistry

Edited by  
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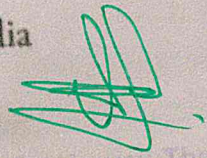
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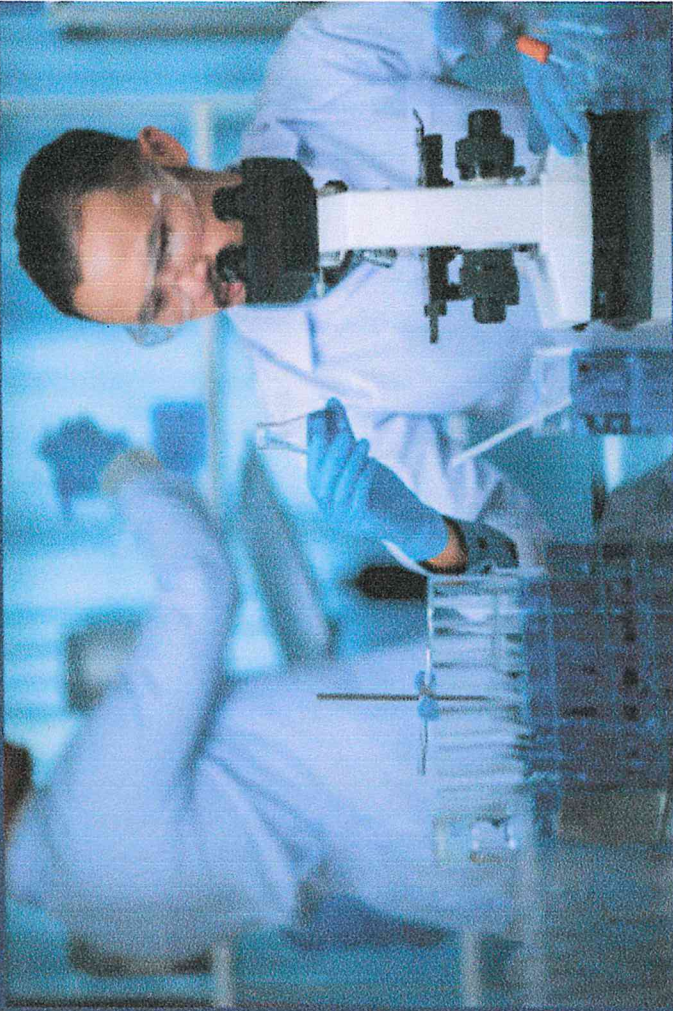


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The concept used in tissue engineering is that the repair and regeneration of biological tissues can be guided through application and control of cells, matrices, and chemoactive proteins. Tissue engineering is a novel and highly exciting field of research by which it may be possible to repair damaged tissues or even create replacement organs. Thus, it is a field of functional restoration of tissue structure and physiology for impaired or damaged tissues because of cancer, disease and trauma. It is said that it can help in the regeneration of enamel and dentin to restore the lost tooth structure in future. Thus Tissue engineering holds the promise of solution to a number of compelling clinical problems in dentistry that have not been adequately addressed.

This book focuses on tissue engineering to restore periodontal tissue function through the delivery of stem cells, bioactive molecules, or synthetic tissue constructs engineered in the laboratory.



Dr. Surya Suprabhan is a Consulting Periodontist in Alappuzha. She has one her BDS from Sree Sankara dental college, Trivandrum and MDS from R.V. Dental College, Bangalore. She has published 10 articles and 1 book in various National and International platforms.

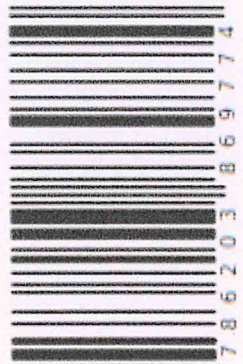
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Dr. Suchetha A  
Dr. Apoorva S. M

# Tissue Engineering-A Substitute Prototype for Periodontal Regeneration

Suprabhan, A., S. M.

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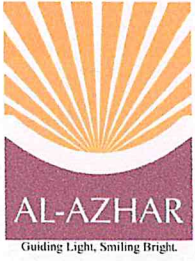
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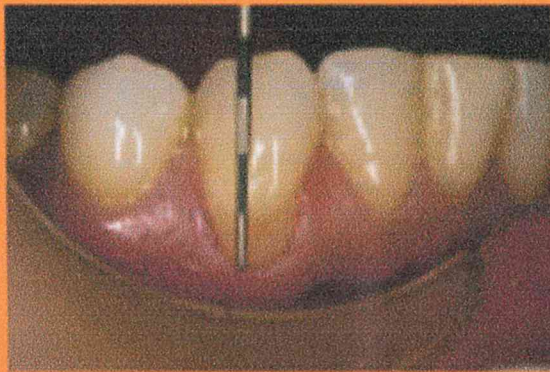
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**ACADEMIC YEAR 2020-21**



For Post-Graduate Examinations

# Supportive Periodontal Therapy A Comprehensive Review



**Dr. Suchetha Aghanashini**

**Dr. Surya Suprabhan**

**Dr. Darshan B.M.**

**Dr. Sanna N**



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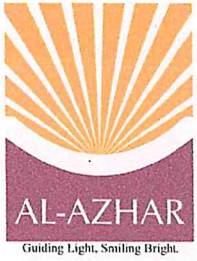
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**ACADEMIC YEAR 2019-20**





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# **ORAL MEDICINE & RADIOLOGY**

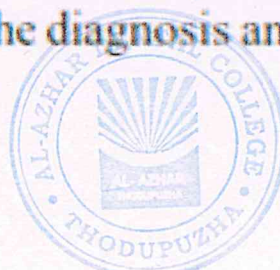
## **- AN OVERVIEW**

**Dr L. S Sreela, Dr Tinky Bose C,**

**Dr Rema Jayalekshmy, Dr Haris P. S, Dr Nileena R Kumar**

Oral Medicine is a specialized discipline within dentistry that focuses on provision of dental care for medically complex patients, and the diagnosis and non-surgical management of medical disorders and diseases involving the mouth, jaws, and salivary glands. Oral medicine and radiology as a specialty was introduced into the dental curriculum for the first time in India in the year 1971 at the Government Dental College, Bangalore. The past decade has heralded a lot of interest amongst medical and dental professionals toward the specialty of Oral Medicine. This can be partially attributed to the increased incidence of patients reporting with oral lesions to the outpatient clinics. The rise in medical awareness amongst the general population, environmental changes due to various reasons, and allergic reactions to newer drugs may all be attributed to the occurrence of such lesions. So the need for a competent oral physician to handle these oral diseases has been felt to a great extent in the recent times. An oral physician is identified as a dentist who is adequately trained in the field of Oral Medicine and Radiology and is competent to manage such oral lesions. Here is an attempt to outline the application of this specialty in the field of medical sciences.

Oral Medicine deals with the following: 1) Recognition of the interaction of oral & systemic health, 2) Integration of medical & oral health care, 3) Management of Pharmaco-therapeutics necessary for treatment of oral & systemic diseases and 4) Investigation of the etiology & treatment of oral diseases through basic science & clinical research. Specialist in Oral Medicine and Radiology are experts in the diagnosis and management of patients with:



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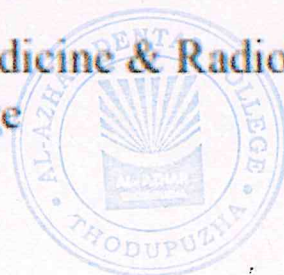
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