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List of books and chapters in edited volumes/books published with ISBN and ISSN number and papers in national/ international conference proceedings year-wise during the last five years

S.NO	Book name	Name of the staff	Year of publication	ISBN/ISSN	Affiliating institution at the time of publication	Publishers
1.	Textbook of oral pathology, 9 th edition	Dr. B. Sivapathasundharam	2023	978-0-7216-8128-3	Priyadarshini Dental College	Elsevier
2.	Textbook of oral embryology and histology	Dr. B. Sivapathasundharam	2023	978-9354659324	Priyadarshini Dental College	Jaypee Brothers
3.	Dimensional accuracy of Dental casts using various impression methods	Dr. Abby Abraham	2023	978-6206148142	Priyadarshini Dental College	Lambert
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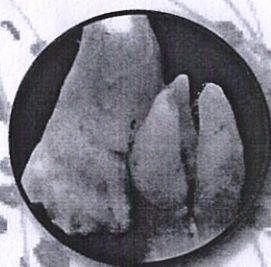
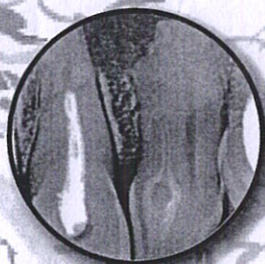


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A Textbook of Oral Pathology, 4e, William G Shafer, Maynard K Hine and Barnett M Levy

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This 9th edition of **Shafer's Textbook of Oral Pathology** is written with sole aim to make teaching and learning oral pathology more interesting. This book deliberates the oral diseases from the fundamental level to the recent concepts. Each disease process is discussed in detail with reference to the etiology, clinical, radiographical and histopathological features. Molecular concepts are given wherever necessary. A note on treatment and prognosis is added to all the lesions. Apart from the diseases, which are usually encountered in clinical practice, abstract of relatively rare lesions are also included.

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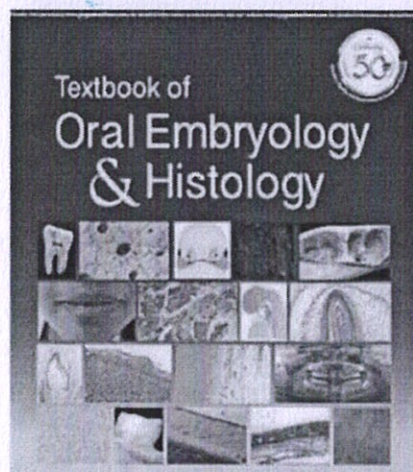
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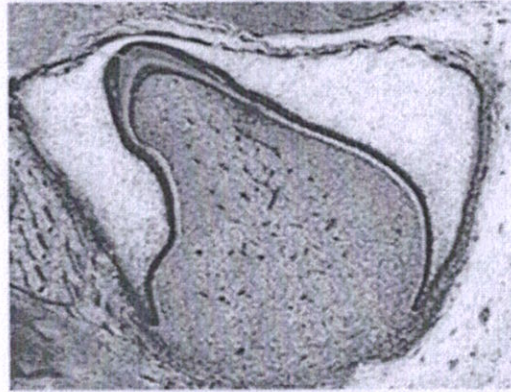
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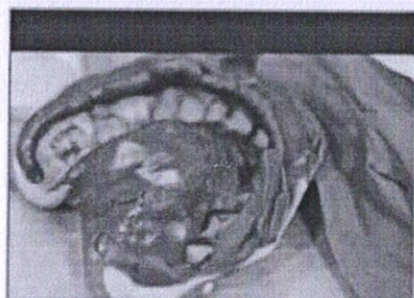
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Dimensional Accuracy Of Dental Casts Using Various Impression Methods

Evaluation of Dimensional Accuracy of Dental Casts
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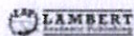
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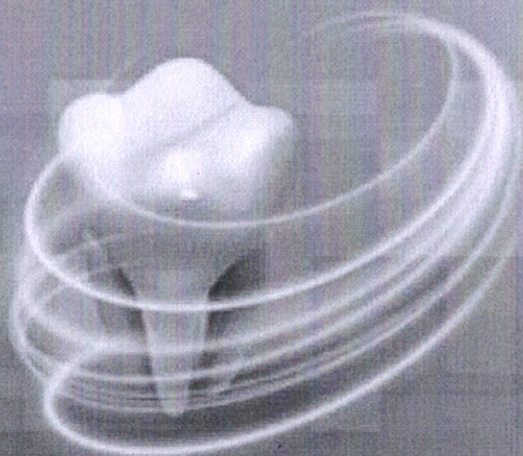
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
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K. Sheela Kumari and Surabhi Halder




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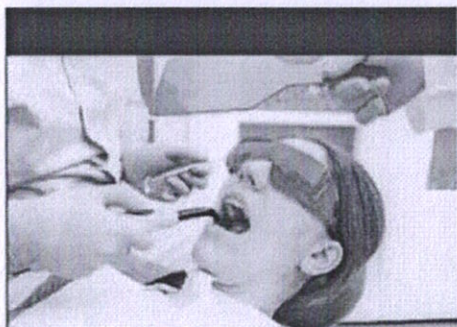
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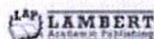
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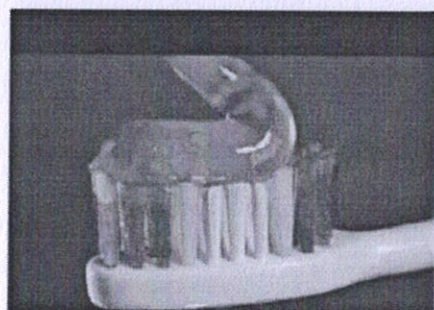
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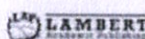
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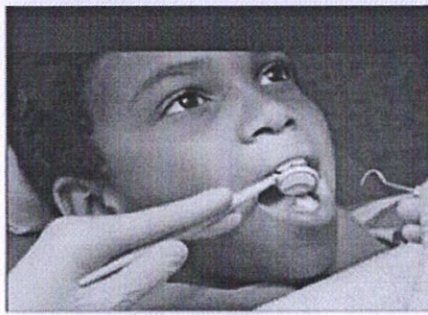
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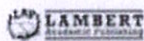
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The book elaborates on the need for periodontal therapy and the therapeutic effects of different herbs used in everyday routine. It focuses on the importance of periodontal health and the management of periodontitis through herbs that are commonly used in day-to-day life. It emphasizes the role of alternate or adjuvant therapy to conventional therapy in periodontal health maintenance. It details on different formulations and combinations that best enable to achieve the periodontal health.



I am Dr. V. Vasanth Ayswarya, Periodontist, Implantologist and Laser specialist. I am an Associate Professor working at Priyadarshini Dental College and Hospital, Tamil Nadu. I enjoy the teaching profession and am passionate about treating different people and serving them. I enjoy my profession which is also my passion.



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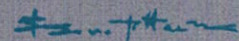
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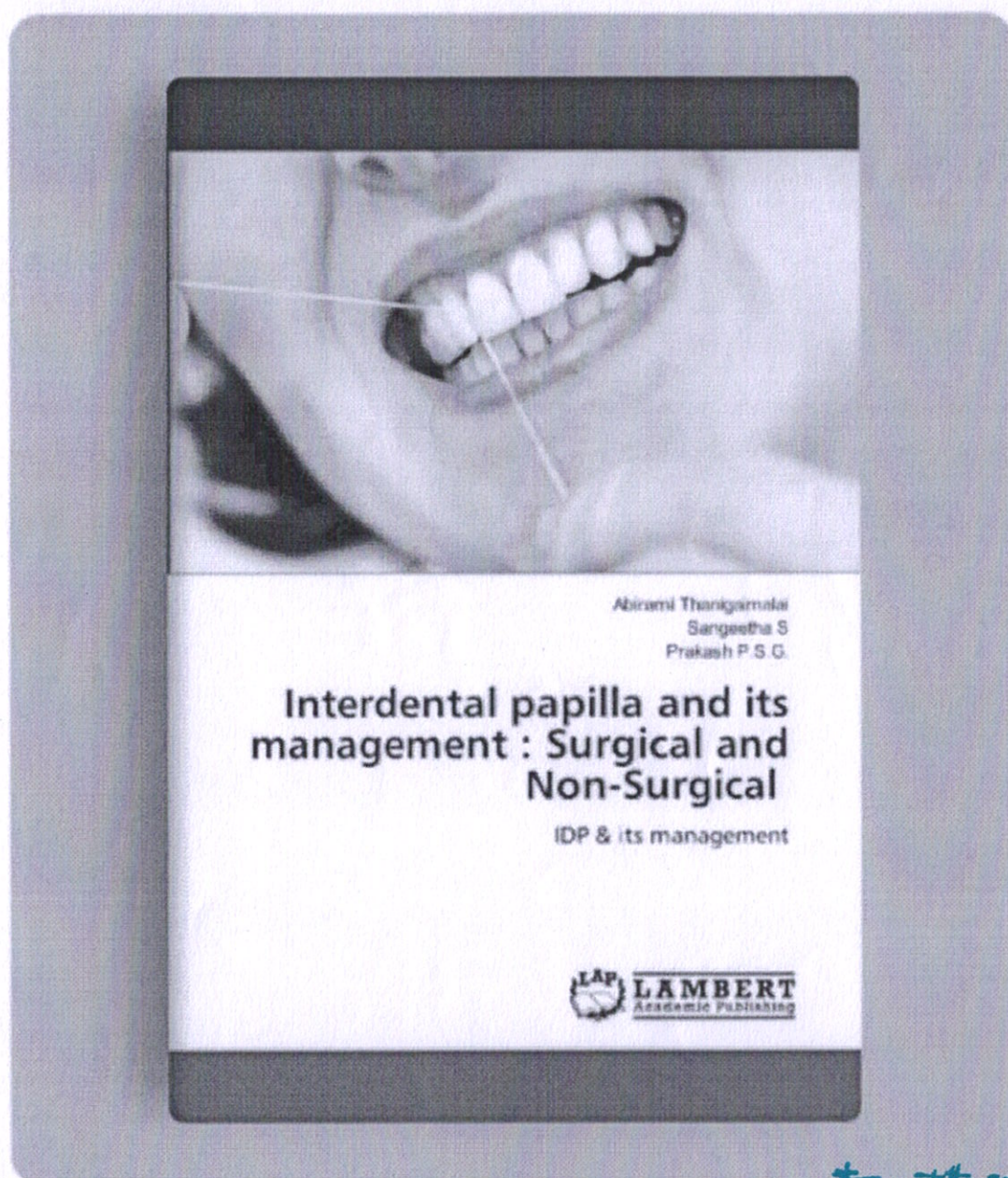
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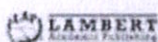
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Periodontitis is a chronic inflammatory disease caused by the initiation of the microorganisms and progression of the host further leading to the destruction of the periodontium. Subgingival microorganisms differ concerning their oxygen sensitivity and tolerance to the toxic effects of oxygen. The use of ozone is a new option for irrigating agents with antimicrobial action without developing resistance which results from the oxidation of microbial cellular components. The aqueous ozone reveals a high level of biocompatibility to fibroblasts, cementoblasts, and epithelial cells. Ozone, in a gaseous or aqueous form, is effective in removing biofilm. Ozone therapy has been more beneficial than present conventional therapeutic modalities that follow a minimally

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Oral Mesenchymal Stem Cells

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Introduction

The development of biotechnologies in recent decades has the potential to revolutionize biomedicine through the use of cutting-edge protocols.^[1] These lofty objectives, which were enthusiastically set in late 1990, appear to have finally been realized in the dentistry area, which may be close to achieving significant outcomes.

For the study of tissue regeneration and the application of regenerative medicine, stem cell biology has grown in importance. Since the identification and characterization of multipotent mesenchymal stem cells (MSCs) from bone marrow (BM), MSC-like populations from different tissues have been assessed in accordance with the 'gold standard' criteria established.^[2,3] These MSCs have the capacity to generate at least three distinct cell lineages, including osteogenic, chondrogenic, and adipogenic. BMMSCs may potentially give rise to other lineages, such as myogenic, neurogenic, and tenogenic. In recent decades, a variety of stem cells have been found in every organ and tissue of the body as a result of the hunt for MSC-like cells in particular tissues.^[4,5]

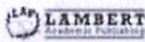
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This Handbook gives insight into composition, physical and chemical characteristics of MTA, its biological properties and scientific evidence regarding its biocompatibility with wide array of its applications in Dentistry. This book will be a useful material for students as well as practitioners as handling, setting characteristics and strength of the material has been discussed with relevant scientific basis.

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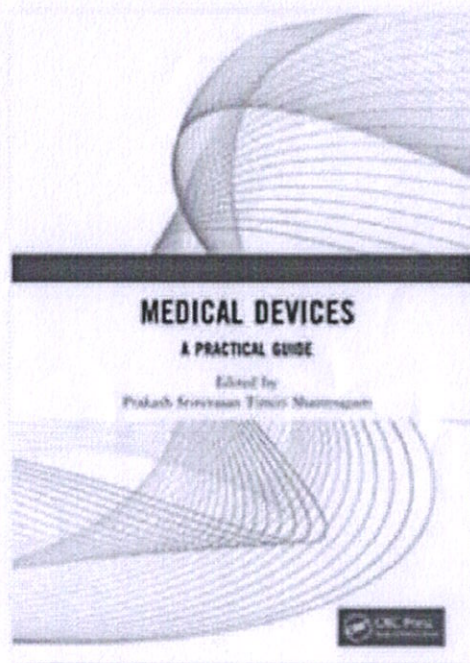


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By B. Karthika, Shamsul Nisa, M. Pavani

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Doddy Lokanathan Balaji

Dental Implants In Esthetic Zone

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ISO 13485: Medical Devices – Quality Management Systems, Requirements for Regulatory Purposes



B. Karthika and A. R. Vijayakumar

Introduction

The International Organization for Standardization (ISO) develops standards for use worldwide, and it is a national standards body for worldwide federation. The effort of setting goals for international standards is carried out through ISO technical committees, and also international, governmental, and nongovernmental organizations are in association with ISO to frame this. In electrotechnical standardization, ISO collaborates with the International Electrotechnical Commission (IEC). ISO 13485 guides companies to do their share in protecting medical devices' consumers and users. ISO 13485 frames criteria for the best quality management system (QMS) in international standard that specifies requirements for a QMS for organization involved in all stages of the medical device, including design and development, production, storage, distribution, installation, servicing, final decommissioning, disposal of medical devices, and provision of associated activities (e.g., technical support). This international standard requirement can also be used by suppliers or other external parties providing product (e.g., raw materials, components, subassemblies, medical devices, sterilization services, calibration services, distribution services, maintenance services) to conform with such organizations to maintain the standard.

International Standard Process Approach

This international standard process approach is for quality management. A process, it could be of any activity that receives input and converts it to output. The output from one process mostly directly forms the input to the next process. For an organization to function efficiently, it performs to identify and manage numerous linked processes. The application for a system of processes in an organization is for the identification and interactions of these processes with their management to produce the desired outcome referred to as the "process approach." The quality management system of process approach emphasizes:

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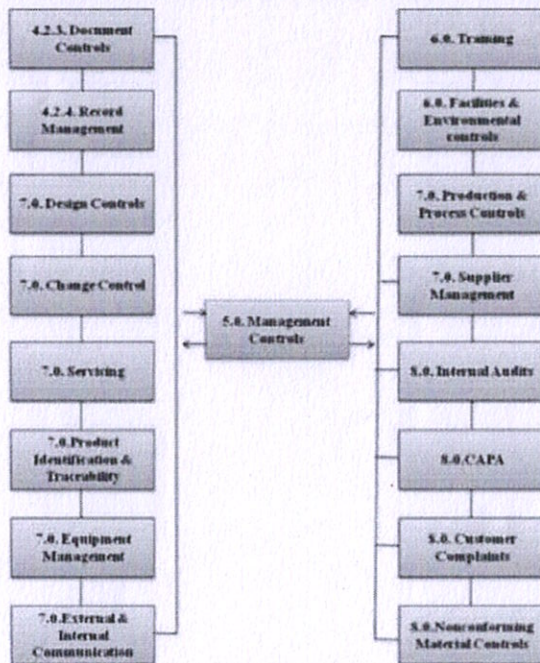


Fig. 4 QMS layout process. (Courtesy: David N. Muehlem, Designing a world-class quality management system for FDA regulated industries: Quality system requirements (QSR) for cGMP. Author House Publisher, Bloomington, Indiana, 2008; Page: 14)

- Statistical techniques to analyze data

8.5. Improvement: Corrective Action and Preventive Action (New Reg's Added)

- Eliminate causes of potential nonconformities (Fig. 4).

Effective on 1 March 2018, ISO 13485:2003 certificates published as an ISO standard on 1 March 2016 will no longer be issued, modified, or revised. Once ISO 13485:2016 published reviewed accepted and voted for Harmonization in Europe.

EU harmonized standards are recognized for "presumed compliance" with EU medical directive requirements (e.g., EN ISO 13485:2016 for CE marketing).

Medical Device Regulation

There are more detailed requirements on everything: previous MD Directive 60+ pages versus new regulation of 566 pages. It will greatly change how approval for products is sought and maintained. Software in a medical device helps in assuring medical device regulation. Established product must comply with this, so standards were used in product development and clinical trial carried out and to rule out market supply issues. This is equivalence level to predicate and contract in place, disproportionately affect start-ups/smaller companies, reduce the number of new products. Some devices will be up classified.

Medical device regulations also deals with clinical data requirements, common specifications, unique device identification system, person responsible, revised economic operator roles, general safety and performance requirements, cosmetic devices/devices without an intended medical purpose, and unannounced audits; MDR states at least once every 5 years. In Europe, additional medical device Periodic Safety Update Reports (PSUR) and Post-Market Surveillance Reports (PMSR) are required.

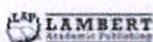
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2. Medical devices—Quality management systems—Requirements for regulatory purposes. Third edition, ISO 13485:2016(E)-03/01
3. Case Study: Clearing the Path to EU MDR Compliance.



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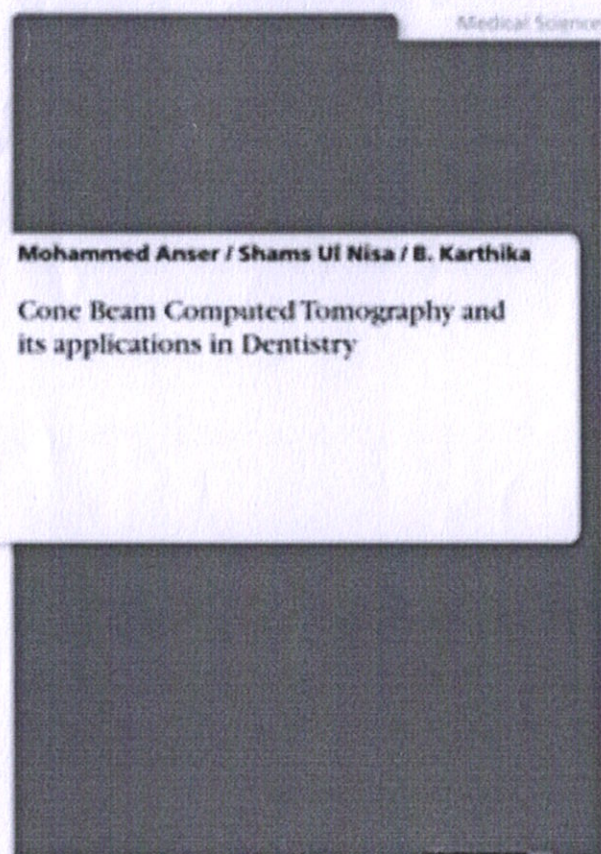
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