BEST PRACTICES 1:

Title of the practice
Chettinad's Learning Management System. Version 2.

The context that required initiation of the practice
Training and teaching via an LMS to outfit the students to gear up education during current pandemic situation.
To provide consistency of training: Training and course delivery via an LMS is consistent since it is centralized. It is required to deliver a consistent training and learning quality to all students by supplying a single source for content, course materials and instructions.
To easily track learner progress and performance: LMSs allow the company to easily generate training reports on an overall or user/student level basis. By utilizing an LMS for eLearning courses and/or online training, students can easily track goal progress, knowledge gains, and more.
To   meet regulatory compliance.

Objective of the practice
The main objective of the LMS is to organise and pursue online learning. Providing a virtual fulcrum where learners can access training resources, an LMS aims to make training accessible for remote learners and provide a central location for training across the institution. It is a system which works in an automated, pre-determined way based on the guideliness with international standards set by Chettinad dental college and research institute.

The Practice
Learning management system is a software application that provides the framework that handles all aspects of the learning process. All teaching staff have been trained adequately to use LMS adopted by the institution for managing and delivering learning material to all students of Chetinaad dental college and research institute. The institution incorporates revolutionary policies, change in your geographical presence, creating new plan and customizing the system for   unique organizational requirements and overall expansion.
It is a eLearning practices and, in its most common form, consists of two elements: a server that performs the base functionality and a user interface that is operated by instructors, students and administrators..
Typically, learning management system provides an instructor with a way to create and deliver content, monitor student participation and assess student performance. A learning management system also provide students with the ability to use interactive features such as threaded discussions, video conferencing and discussion forums.
LMS is an effective system will allow instructors and administrators to efficiently manage elements such as user registration, content, calendars, user access, communication, certifications and notifications.
The Advanced Distance Learning using LMS during pandemic enables to conduct online examinations.
LMS version 2 helps to keep the course up-to-date with some knew knowledge, a change in the content, or do some parts of the course where some more in-depth material is required is added .
LMS provides ease of distribution of the course content   which is just uploaded by the users in the LMS. It is an ever-improving technology, new rules and regulations, increased student demands, and a changing workforce are all factors that create an

environment where professors must efficiently and effectively deliver and manage learning experiences for their students. These experiences are easily accessible and easily traceable.

Evidence of Success:

Centralized Learning Environment has Ensured Consistency:

The LMS ensures consistency in delivery and evaluation since each user sees the exact same material in the exact same manner and can be evaluated through common pre-testing and/or post-testing methods. An LMS allows users to easily design and deploy customized courseware. This feature is especially important when hard topics are in for exams, previous years' materials to be made available, or keeping track of students' progress is significant. This feature also applies to updates to circulars and new rules. Students can no longer say, ―no one told me that…‖ or ―no one ever gave it to me…‖ and make education very transparent.

Tracking and Reporting for Enhanced Performance:

The LMS allows students to view all required learning paths, track progress against the learning path, review records of examinations and attendance, and ask doubts online. Teachers can offer this material through various media including instructor-led videos, slide shows, or video conferencing. Institution can access the same records of success and can also analyze the records data to determine areas of success and areas for needed improvement.

Immediate Capabilities Evaluation:

The LMS allows users to be evaluated prior to taking an assignment, while participating in the course, and upon topic completion. Teachers can evaluate retention by periodically administering scheduled assessments via the LMS. They can review the records of the results to determine success levels and the actual time taken to complete each course and its components. Apart from the above, the student usage of this facility is also measured for its effectiveness Continuous Product and Service Proficiency for Employees who Interact with Customers and Clients The LMS provides a central point for the institution to change information, specifications, requirements, forms, and to allow easy uploading of new content or assignments. Students will access the same training courses and the same evaluation materials. Teachers set predetermined course completion dates and monitor the number of students downloading the course at any given point in time. The LMS also allows teachers to administer updates and evaluations online and assess knowledge levels and abilities.

Obstacles faced if any and strategies adopted to overcome them:

Modern and technically LMSs provide pre-built templates for content creation, extensions, and customization.LMSs should ensure customization of courses to organizational needs. It should provide provision to build in-house courses using the LMS tools and features. Having a tailor-made solution may provide a good way to enhance overall performance. Other obstacles faced are technical problems,obstacles with scaling, security issues.

Resources Required :

A computer with any operating system which has a browser Internet connectivity with a minimum speed of 128 kbps.

One server with basic features

Software-Visual basic run time

Manpower (for power point preparation)

BEST PRACTICES 2:

Title of the practice:
Teledentistry

Intiation of the practice:

      The COVID-19 pandemic has challenged the existing healthcare systems across the globe.Ensuing this, the impact on the provision of dental care has been profound, with routine care restricted. As a dental institution Chettinad dental college and hospital comprehends the importance of providing routine dental care to patients during the current pandemic. If routine dental care was suspended, one could anticipate progression of undiagnosed oral disease. The natural progression of oral

diseases is inevitable without professional diagnosis and management. The institution wanted to provide

best possible dental care for the patients, but at the same time, appreciate the possible risk of virus transmission to the dental team and the public. Hence, the institiution obliged to reorganize dental practice and innovate to continue dental care with minimal risk of crossinfection.Teledentistry can provide an innovative solution to continue dental practice during the current pandemic.

Objective of Practice:

Teledentistry is the remote facilitating of dental care, guidance, education or treatment via the use of information technology rather than directly confronting the patient. Teledentistry satisfies the need for social distancing as has been advocated by the health authorities to contain the spread of SARS-COV-2 virus. Teledentistry can be offers a wide range of applications such as remote triaging of the suspected COVID-19 patients for dental treatment and decreasing the unnecessary exposure of healthy or uninfected patients.

## Obstacles faced if any and strategies adopted to overcome them:

1. Lack of face-to-face communication lead to perturbation of patients regarding inadequacy of proper communication of their problems to their dentists. It is a known fact that patient acceptance is the key to success of any module. These challenges will take time to overcome, even if not fully replace, at least teledentistry can complement the existing compromised dental system during the current pandemic.

2. The lack of acceptance of teledentistry by the dentists can be attributed to the fact that they may find it complex and maybe resistant to new skills as it is technologically challenged, requiring adequate training, technical support and expertise. These challenges are overcome by framing a proper guidelines, coordination between remote and core center, adequate training given to all dentist and educated about this technology, which will increase the acceptance of teledentistry. During the current pandemic, the dental curriculum is updated regarding infection control measures, teledentistry is routinely taught as a solution for prevention of infection transmission.

Practice:

Dental consulation in the form of teleconsultation in chettinad dental college and research institute in which patients seeks consultation from dental specialists using telecommunication. Telediagnosis is done by the use of technology to exchange images and data to make a diagnosis of an oral lesion. The use of smartphones for

detection of dental caries is usually advocated. It has also served as a reliable adjunct for screening of oral potentially malignant lesions. As most of the oral lesion are often directly evident telediagnosis can be made by dental photography thus reducing the need of close clinical examination. Teletriage involves the safe, appropriate and timely disposition of patient symptoms via smartphone by specialists. It has been used

for remote assessment and prioritize those requiring dental care without unnecessary travel regardless of socio-economic and geographical difficulties in many places. The use of telemonitoring can replace the frequent physical visits by virtual visits for regular monitoring of treatment outcomes and disease progression.
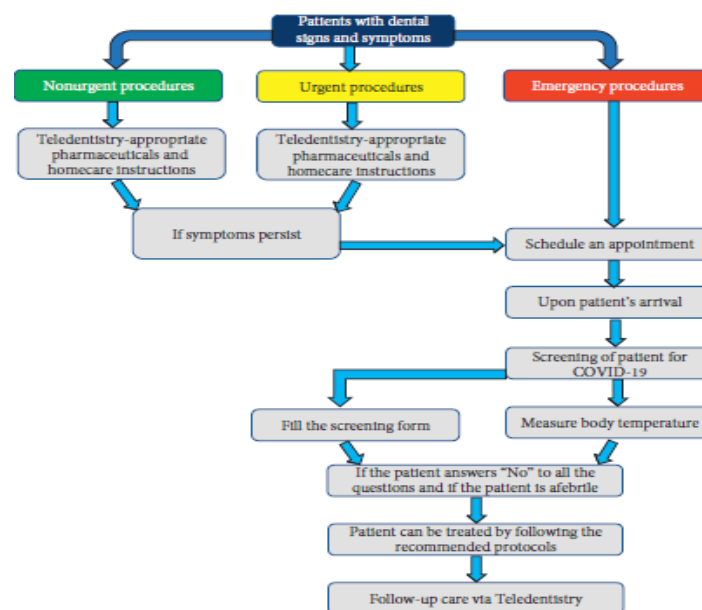
Impact of the practice:

Teledentistry holds the prospects to attend the treatment needs of the patients without confrontation. Teledentistry helps in patient education by influencing patient behavior and producing the changes in knowledge, attitudes and skills necessary to maintain or improve dental health. Teledentistry has changed the outlook of dentistry and never has it gained a stronger foothold in the practice as it probably holds during these times. New approaches such as Teledentistry will help dentists assist

patients without adding the risk of cross infection. This recent state of affairs obligates the need to strike a balance between the safety of the healthcare professionals yet providing optimum dental care to the patients requiring emergency intervention.

Resources Required:

Teledentistry system consists of – a computer with substantial hard drive memory, adequate RAM, and a speedy processor;
A fax machine, a scanner, and a printer may also be required
To enable live videoconferencing, standalone IP/ISDN videoconferencing solution, or install a PCI codec board into the system.
If a live group session is desired, a multipoint control unit that bridges three or more parties is required. The codec must be able to accommodate audio and visual functions.