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OPTIC BIOPSY

NEW DIAGNOSTIC TECHNIQUE IN DENTISTRY

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introduction

“OPTICAL BIOPSY” IS AN OPTIC-BASED IMAGING TECHNIQUE, BASED ON THE PRINCIPLE OF LOW-COHERENCE INTERFEROMETRY AND PROVIDING STRUCTURAL INFORMATION ABOUT A TISSUE AT A HIGH RESOLUTION COMPARABLE TO HISTOPATHOLOGY. THE APPLICATIONS OF OPTICAL BIOPSY IN DENTISTRY CAN BE BROADLY DIVIDED INTO TWO GROUPS, I.E., ASSESSMENT OF PATHOLOGIES AND ASSESSMENT OF SURFACES AND INTERFACES.

aim

TO EVALUATE IF THIS IS A POSSIBLE WAY TO INCREASE THE ACCURACY OF EARLY DIAGNOSIS OF SERIOUS AND POTENTIALLY LIFE-THREATENING CONDITIONS?

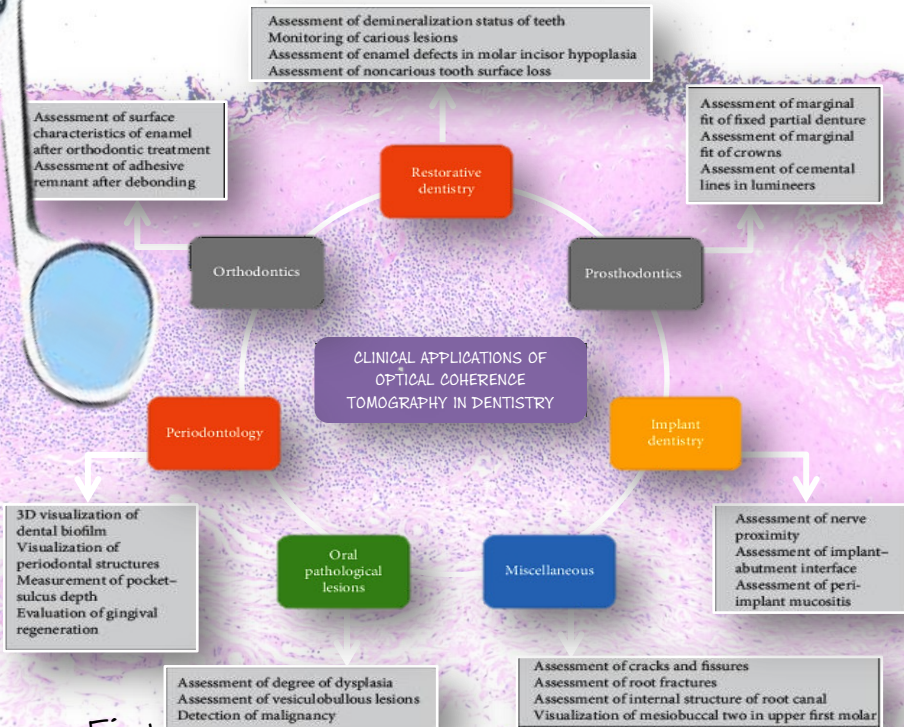


Fig.1

Flow diagram showing applications of OCT in dentistry.

conclusion:

MANY DENTAL SPECIALTIES LIKE ORAL PATHOLOGY, ORAL MEDICINE AND PATHOLOGY, ORAL IMPLANTOLOGY, ORAL AND MAXILLOFACIAL SURGERY, PROSTHODONTICS AND ORTHODONTICS MAY FIND IT A USEFUL TOOL FOR THEIR PRACTICES.

future recommendations:

FASTER AND MORE EFFICIENT ORAL BIOPSY SYSTEMS POSSESSING HIGHER RESOLUTION MAY REPLACE THE NEED FOR SCALPEL BIOPSIES IN MANY CLINICAL SITUATIONS IN FUTURE.

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Declaration of no conflict of interest of the authors!