

INTERNATIONAL CONFERENCE ON
DENTISTRY & DENTAL MATERIALS
MARCH 15-16, 2023 | (Hotel Crowne Plaza Dubai - Deira)



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Preventive Periodontics : A Personalized Approach in Managing Periodontal Diseases and Conditions

An impressive progress in dentistry has been recorded in the last decades. In order to reconsider guidelines in dentistry, it is required to introduce new concepts of personalised patient treatments: the wave of predictive, preventive and personalised medicine is rapidly incoming in dentistry. The first cause of tooth loss in industrialised world is periodontitis, a Gram-negative anaerobic infection whose pathogenesis is genetically determined and characterised by complex immune reactions. Chairside diagnostic tests based on saliva, gingival crevicular fluid and cell sampling are going to be routinely used by periodontists for a new approach to the diagnosis, monitoring, prognosis and management of periodontal patients. The futuristic '5Ps' (predictive, preventive, personalised and participatory periodontology) focuses on early integrated diagnosis (genetic, microbiology, host-derived biomarker detection) and on the active role of the patient in which networked patients will shift from being mere passengers to responsible drivers of their health. In this paper, we intend to propose five diagnostic levels (high-tech diagnostic tools, genetic susceptibility, bacterial infection, host response factors and tissue breakdown-derived products) to be evaluated with the intention to obtain a clear picture of the vulnerability of a single individual to periodontitis in order to organise patient stratification in different categories of risk. Personalised therapy tailored with respect to the particular medical reality of the specific stratified patient will be the ultimate target to be realised by the 5Ps approach.

Biography:

Dr Sharayu R Dhande, has expertise in the field of Periodontology and Oral Implantology and has been associated with M. A Rangoonwala College of Dental Sciences and Research Centre, Pune since her BDS. She was awarded " Special Jury Award " for "The Best UG student" by Famdent Excellence in Dentistry Awards (FEDA). She also received "Best Paper Presentation" at 27th Annual National Conference of Indian Society of Oral Implantologists, 2021. She has numerous National and International Scientific Research publications to her credit till date. She has been invited as a guest speaker at national and international levels. She has keen interest in Periodontal Regeneration and Oral Implantology especially Basal Implantology. She has interest in research too and has been currently working on one of the topic of her interest : Dentinal Hypersensitivity. Recently, she has been invited as a 'Guest Speaker' at "World Dental Science Congress" which will be held during June 13-15, 2022 in Orlando, USA. She has authored and contributed in many textbooks. Recently, one of her manuscript titled "Air Powder Polishing : An Update" has been selected as a book chapter in book titled : Recent Advances in Medicine and Medical Research". She has been a part of numerous health camps.