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The power of scientific knowledge and strategic business planning for dentists

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The decision of purchasing Hi-Tec dental equipment should not be based on impulse but on strategic business planning. The same should apply if we have already purchased any similar equipment, we must know our environment and ourselves in order to receive our return of investment and make the most out of our purchase as soon as possible! The aim of this presentation is to highlight the main topics that we should be aware of so to apply our high technology dental equipment profitably. Know your market, your industry, your colleagues, your strategy, your resources, your financials and the risks/opportunities if you plan to purchase or you already have such device. Business planning is a necessary tool for all dentists.

The scientific knowledge is crucial but the same applies for a strategic plan so to be profitable and sustainable.

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Formulation and characterization of antimicrobial herbal mouthwash from some herbal extracts for treatment of periodontal diseases

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Purpose: The purpose of the present work was to formulate herbal mouthwash with antimicrobial property which is expected to cure/protect from various periodontal diseases such as periodontitis, gingivitis, and pyorrhea.

Methods: Plant materials, extracted and standardized. Screening of antimicrobial activity was carried out with the help of disk diffusion method. Minimum inhibitory concentration assay was performed by agar dilution method recommended by the National Committee for Clinical Laboratory Standards. Mouthwash was formulated by Dried Extracts of Cuminumcuminum, Beateamonosperma, and Cordiaobliqua. and evaluated on various parameters and Standardization of the formulation was performed. Organoleptic characterization was performed at every stage of the development of the formulation. formulation was standardized by taking HiOra as standard marketed formulation. Total phenolic and flavonoid contents were estimated by folin-Ciocalteu and aluminium chloride method, and stability studies were performed. 40°C and RH 75% ± 5% for 90 days) to assess the effect of temperature and humidity on concentration of phenolic and flavonoid contents.

Results: Results are encouraging, as all other antibiotics were inactive against these strains. extracts from Cordiaobliqua, Beateamonosperma and Cuminumcuminum possess significant antimicrobial activity at very low concentration (15µg/disc, 20µg/disc and 15µg/disc). Chemical tests shown presence of flavonoids, phenolics in the extracts, might be responsible for the activity. Evaluation of the formulation showed all the values in limit. And shown ideal values for all parameters. Accelerated stability studies are indicative of a slight reduction in flavonoids and phenolic contents with time on long time storage. From the results it can be concluded that flavonoid and phenolic contents are reducing with time by the effect of the temperature and moisture. When measured degradation under ambient conditions, degradation was significantly lower than in accelerated stability study.

Conclusion: The results of the study support traditional application of the plants and suggest, plant extracts possess compounds with antimicrobial properties that can be used as potential antimicrobial agents. Developed formulation will cure/protect from various periodontal diseases. Further development and evaluation of mouthwash including the isolated compounds on commercial scale and their clinical and toxicological studies are the future challenges

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