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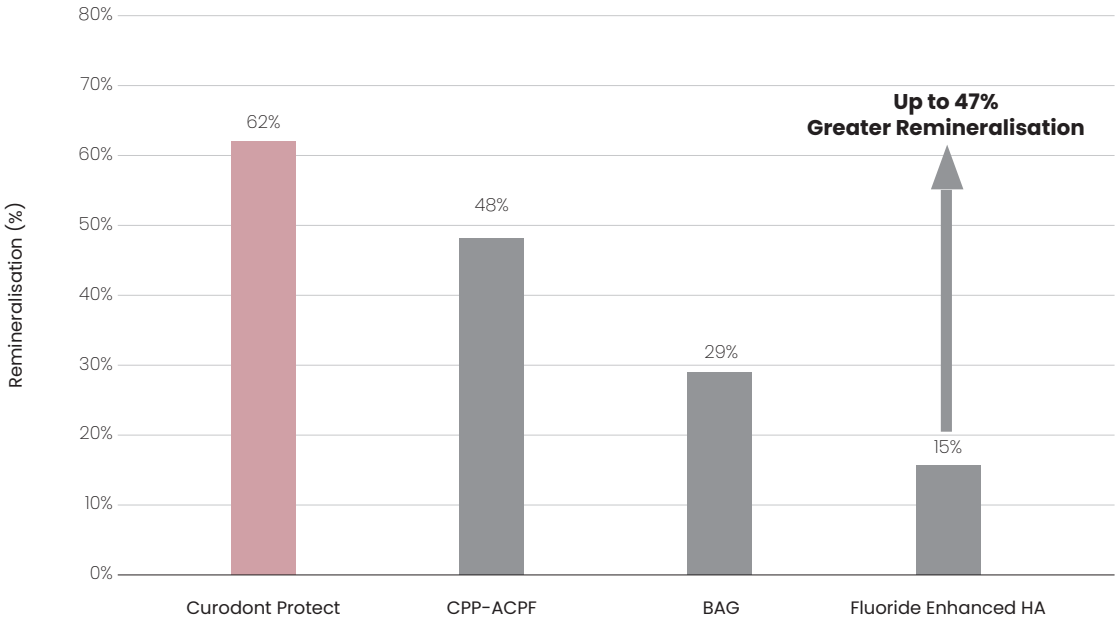
BIOMIMETIC DENTAL SCIENCE

Curodont Protect increases the surface microhardness of demineralized enamel significantly better than competing products

RESULTS

Curodont Protect demonstrate to effectively and significantly remineralize enamel lesions as compared to other test agents: Casein phosphopeptide amorphous calcium phosphate fluoride (CPP-ACPF), Bioactive glass (BAG) and Fluoride enhanced hydroxyapatite (Fluoride enhanced HA). Curodont Protect raised Surface Microhardness to a level where no significant difference to the sound control samples could be found.

Surface Microhardness Analysis



STUDY ESSENTIALS

60 Human Premolars

In Vitro Study

30 Days

Goa, India

How can you use these results in your practice?

One of the manifestations of demineralization is the reduction in the surface hardness of enamel. You can use Curodont Protect in-office and instruct the patient on its home-use to increase the surface hardness of demineralized enamel to a level comparable to that of sound enamel. Most 'remineralizing' products increase the concentration of calcium and phosphate ions in the vicinity of enamel (such as CPP-ACP and BAG) or make the enamel more resistant to dissolution (such as fluoride-based products). Curodont Protect combines the benefits of calcium, phosphpate, and fluoride with the regenerative capacity of the self-assembling peptide technology and thus remineralizes up to 47% more than competing products.

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STUDY INFORMATION

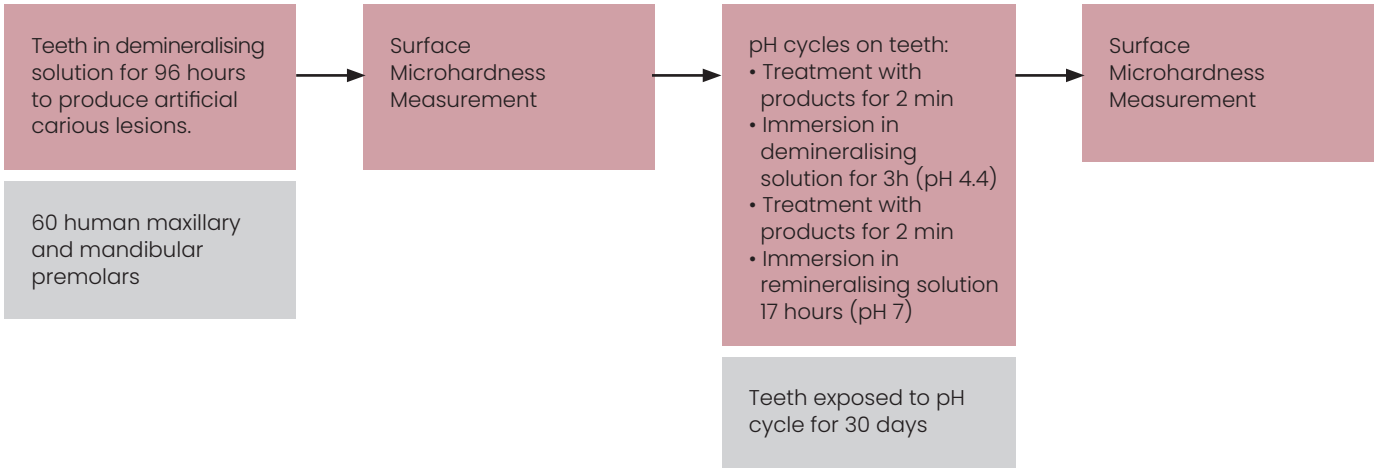
Title: Assessment of Enamel Remineralisation After Treatment with Four Different Remineralising Agents: A Scanning Electron Microscopy (SEM) Study*

Products Tested:
- Curodont Protect
- Casein Phosphopeptide Amorphous Calcium Phosphate Fluoride (CPP-ACPF)
- Bioactive Glass (BAG)
- Fluoride Enhanced Hydroxyapatite (Fluoride enhanced HA)

Scope & Methodology: This in vitro study was designed to evaluate the remineralising capacity of 4 remineralization agents on artificial enamel lesions, through Surface Microhardness (SMH) analysis, tested in a pH cycling model over 30 days.

Samples: 60 human maxillary and mandibular premolars extracted for orthodontic treatment. Teeth with any visible or detectable caries, restorations, hypoplastic lesions, stains, cracks and white spot lesions were excluded from the study.

Procedure:



Conclusion: Curodont Protect demonstrated promising results by effectively and significantly remineralizing the enamel lesions as compared to other test agents based on Fluoride or BAG.

*Reference
Soares R., De Ataide I.D.N., Fernandes M., Lambor R., Assessment of Enamel Remineralisation after treatment with four different remineralising agents: A Scanning Electron Microscopy (SEM) Study, J Clin Diagn Res. 2017 Apr; 11(4): ZC136-ZC141.