

Title (en)
CARBONATED SOLUTIONS FOR TREATING, MINERALIZING AND FLUORIDATING CALCIFIED TISSUES AND METHODS FOR THEIR USE

Title (de)
CARBONISIERTE LÖSUNGEN FÜR DIE BEHANDLUNG, MINERALISIERUNG UND FLUORIDIERUNG VON KALKHALTIGEN GEWEBEN UND VERFAHREN ZU DEREN VERWENDUNG

Title (fr)
SOLUTIONS CARBONATEES DE TRAITEMENT, DE MINERALISATION ET DE FLUORURATION DE TISSUS CALCIFIES ET LEURS MODES D'UTILISATION

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Abstract (en)
[origin: WO9625914A1] This invention involves methods and compositions for preparation of unstable carbonated calcium phosphate solutions, which are supersaturated with respect to calcium phosphate solids and carbon dioxide and the use of such solutions for the treatment of dental tissue and hyposalivation. Specifically the methods include mixing a stable alkaline carbonated solution containing carbonate with a stable acidic calcium solution, either or both solutions also containing phosphate to create an unstable carbonated solution with respect to calcium phosphate and carbon dioxide. Also, the methods include adding aqueous solution to the solids containing calcium salts, phosphate salts and carbonate salts to create an unstable carbonated solution supersaturated with respect to calcium phosphate solids and carbon dioxide. The methods further include using alkaline solutions to remove the acidic residue from dental tissue and maintain cariostatic conditions.

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