

Search Our Scientific Publications & Authors

FIND PUBLICATIONS BY CATEGORY +

Translate page:  Select Language |

a randomized clinical trial on the efficacy of 5% fluorocalcium phosphosilicate containing novel bioactive glass toothpaste.

AUTHORS:

 **Vivek Rajiv Patel**
Manjunatheshwara College of Dental Sciences and Hospital

 **Leena Shettar**
SDM College of Dental Sciences and Hospital

 **Srinath Thakur**
SDM College of Dental Sciences & Hospital
India

 **PROFESSIONAL SITES THAT STAND OUT** [CREATE YOUR WEBSITE](#)  June 2019  32 Reads

J Oral Rehabil 2019 Jun 24. Epub 2019 Jun 24.
Department of Periodontology and Implantology, Sri Dharmasthala, Manjunatheshwara College of Dental Sciences and Hospital, Dharwad, Karnataka, India.

Background And Aim: Dentin hypersensitivity (DH) is a common and harrowing dental condition. A Novel Biomin-F technology that contains 5% Fluorocalcium phosphosilicate bioactive glass has been introduced. It forms Fluorapatite which is more stable towards acid erosion. There is a lack of literature with the utility of this toothpaste in treating DH. Therefore, the authors of this randomized clinical trial have aimed to compare and evaluate the efficacy of 5% Fluorocalcium Phosphosilicate with an 8% Arginine and Calcium carbonate and Placebo toothpaste.

Methods: A total of 75 patients clinically diagnosed with DH were randomly divided into Group A: 5% Fluorocalcium Phosphosilicate, Group B: 8% Arginine and Calcium carbonate, and Group C: Placebo. The DH was evaluated by tactile and evaporative stimuli and a visual analog scale (VAS) was used for evaporative stimuli at Pre-baseline, Baseline (15 days) and Post-baseline (1 month).

Results: The results showed symptoms of DH were reduced in all three groups. However, Group A showed a better reduction of DH than the other two groups.

Conclusion: The toothpaste containing 5% Fluoro Calcium Phosphosilicate was reported to be more efficacious than the other two toothpastes in managing DH.

Practical Implications: This novel development opens up a unique opportunity in the prevention and management of DH and may also be beneficial in preventing acid erosion of the tooth surface and in the maintenance of oral hygiene by reducing the effects of plaque accumulation and gingival inflammation. This article is protected by copyright. All rights reserved.

Download full-text PDF

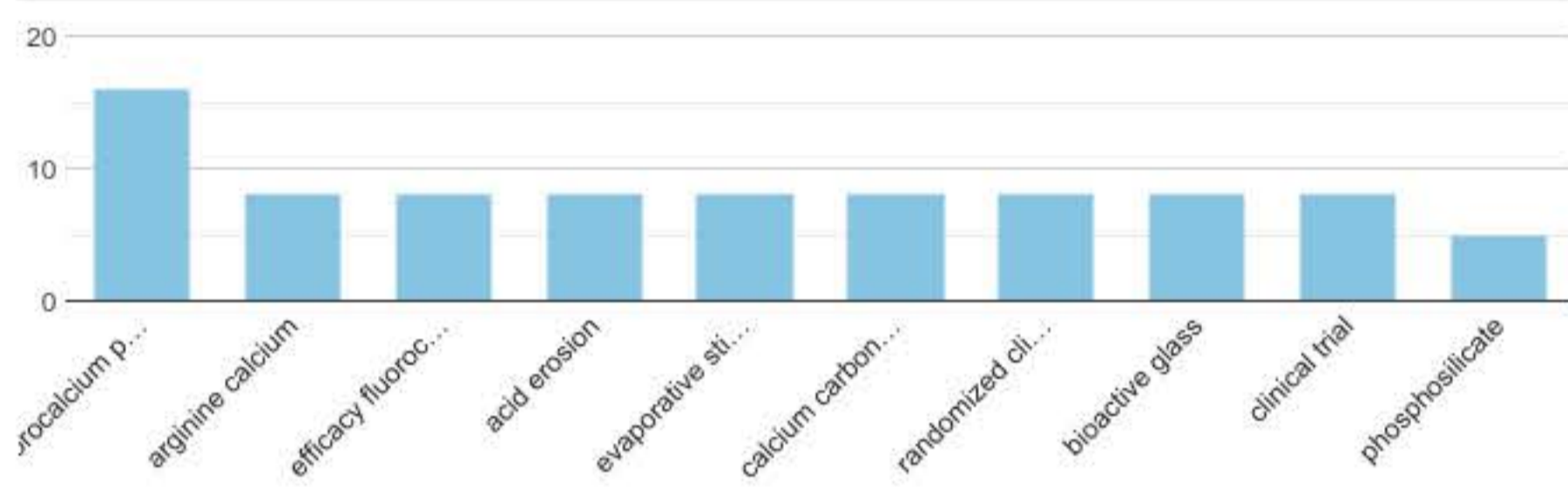
Source

<http://dx.doi.org/10.1111/joor.12847>

DOI Listing

PUBLICATION ANALYSIS

Top Keywords



fluorocalcium phosphosilicate

- 16
- arginine calcium
- 8
- efficacy fluorocalcium
- 8
- acid erosion
- 8
- evaporative stimuli
- 8
- calcium carbonate
- 8
- randomized clinical
- 8
- bioactive glass
- 8
- clinical trial
- 8
- phosphosilicate
- 5
- analog scale
- 4
- days post-baseline
- 4
- baseline days
- 4
- pre-baseline baseline
- 4
- vas evaporative
- 4
- stimuli pre-baseline
- 4
- scale vas
- 4
- reduced three
- 4
- groups group
- 4
- group better
- 4

MEMBER ARTICLES

Laparoscopic repair of ventral/incisional hernias with the "Slim-Mesh" technique without transabdominal fixation sutures: preliminary report on short/midterm results



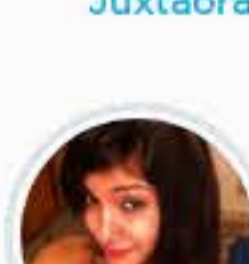
Dr. Silvio Alen Canton
MD
University of Padova
PADOVA, Italy | italy

As, Cr, Hg, Pb, and Cd Concentrations and Bioaccumulation in the Dugong and Manatee : A Review of Body Burdens and Distribution.



Dr Gabriel Nunez-Nogueira
DacBiol-UJAT
Villahermosa, Tabasco | Mexico

Juxtaoral organ of Chievitz: An innocuous organ to be known.




Sushma Bommanavar
MDS
Assistant professor school of dental sciences KIMDSU Karad
Karad , Maharashtra | India

SIMILAR PUBLICATIONS


We recommend

Arginine, Calcium Toothpaste Combats Dental Caries 

Laird Harrison, Medscape

Have there been any clinical trials about dry mouth? See the research on Allmedx.com. 


AllMedX

Acidic Toothpaste Shows Promise for Reducing Fluorosis 

Laird Harrison et al., Medscape

Effect of Oral L-Arginine Supplementation on Blood Pressure 

Jia-Yi Dong et al., Medscape

Is Strontium Useful for Osteoporosis? 

Gayle Nicholas Scott et al., Medscape

Calcium Plus Vitamin D Supplementation and Height Loss 

Carolyn J. Crandall et al., Medscape

Efficacy and safety of Amla (Phyllanthus emblica L.) in non-erosive reflux disease: a double-blind, randomized, placebo-controlled clinical trial 


Shahnaz Karkon Varnosfaderani et al.- Dabaghian, Gholamreza Amin, Mahbubeh Bozorgi, Ghazaleh Heydarirad, Esmail Nazem, Mohsen Nasiri Toosi, Seyed Hamdollah Mosayat, Journal of Integrative Medicine, 2018

Efficacy and safety of abediterol, a long-acting beta2-adrenergic agonist (LABA); three phase II trials in asthma 

Julia Beier et al., European Respiratory Journal, 2014

Arginine as an adjuvant to chemotherapy improves clinical outcome in active tuberculosis 

T. Schön et al., European Respiratory Journal, 2003

Bronchodilator response and airway cytology as parameters for asthma control: A randomized clinical trial Protocol ID: APITA, NCT00597064, on August 1st, 2008 

Ana Luisa Fernandes et al., European Respiratory Journal, 2012