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Thailand introduces toothpaste prototype to improve oral health

July 10, 2023 | News

Over 50% of Thai children currently suffer from tooth decay, and more than 60% of adults suffer from gingivitis



The Assistive Technology and Medical Devices Research Centre (A-MED), a division under the National Science and Technology Development Agency (NSTDA), Ministry of Higher Education, Science, Research and Innovation, together with the Faculty of Dentistry, Chulalongkorn University, Thailand has unveiled an innovative toothpaste prototype with nano-hydroxyapatite that helps to replenish minerals and strengthen tooth enamel.

This novel material was created via a mechanical chemical method and has a structure similar to human bones and teeth. Nano-hydroxyapatite can be used as a component in toothpaste due to its compatibility with human tissues and capability to promote tooth enamel remineralization. By focusing on nano-sized hydroxyapatite, Thai researchers can help reduce reliance on imports, improve access to domestically manufactured high-quality medical materials, and maintain international medical standards that align with BCG medical device policy objectives.

The project aims to promote and develop oral health and dental care products to improve the quality of life and oral healthcare for Thai people, as well as address disparities among consumers. By fostering the development of dental advancements by Thai dentists and academics, the collaboration aims to strengthen Thailand’s medical sector and reduce dependence on imported resources.