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**Corresponding Author:**

Pongsak Saleedaeng, Bandanlanhoi  
Hospital, Sukhothai 64140, Thailand  
E-mail: dentiste.tete@gmail.com

# Development and Evaluation of Satisfaction with an Innovative Dental Home Visit Care Kit for Enhancing Oral Health Care in Dependent Older Adults

Pongsak Saleedaeng, Panali Phloiman

Bandanlanhoi Hospital, Thailand

## Abstract

**Objectives:** This study aimed to develop and evaluate the satisfaction of an innovative dental home visit care kit from the perspectives of both dentists and dental public health professionals.

**Methods:** The development of an innovative dental home visit care kit—which contains essential dental tools and educational aids organized in a lightweight, water-resistant bag designed for ergonomic home use—was rigorously evaluated by a panel of three experts using the Index of Item-Objective Congruence (IOC). A total of 38 participants assessed the kit's functionality, convenience, durability, and safety through a satisfaction questionnaire after using it to provide oral health care to dependent older adults during home visits.

**Results:** The kit achieved a high IOC score of 0.85. Among 38 participants (86.84% female, 68.42% aged 20-30 years), equal numbers were dentists and dental public health professionals. High satisfaction scores were reported for functionality (4.74/5, 94.74%) and convenience (4.59/5, 91.21%), with slightly lower scores for durability (4.20/5, 84.07%) and safety (4.40/5, 88.55%). No significant differences ( $p>0.05$ ) were found between the two professional groups.

**Conclusions:** The kit effectively supports dental professionals in delivering home-based oral care to dependent older adults. Its adaptable design enhances usability across diverse community settings.

**Keywords:** dental home visit care kit, dependent older adults, innovative, satisfaction