Web of Science™

☰✕
MENU

Results for DEVELOPING AN… ›

Developing an Ordered Logistics Regression Model for Denture Hygiene am…

👤

Developing an Ordered Logistics Regression Model for Denture Hygiene among Elderly in Residential Care Homes

By

Ahmad, WMAW (Ahmad, Wan Muhamad Amir W.) ; Hasan, R (Hasan, Ruhana) ; Adnan, MN (Adnan, Mohamad Nasarudin) ; Ghazali, FMM (Ghazali, Farah Muna Mohamad) ; Bin Shahzad, H (Bin Shahzad, Hazik) ; Aleng, NA (Aleng, Nor Azlida) ; Ibrahim, MSM (Ibrahim, Mohamad Shafiq Mohd)

View Web of Science ResearcherID and ORCID   (provided by Clarivate)

Document Type   Article

Abstract

With a global aging population, the oral hygiene of elderly individuals in institutional settings requires unique management. Maintaining adequate denture hygiene is a critical aspect of their

overall well-being, while neglecting denture hygiene can lead to various oral health issues, malnutrition, and further impacting their overall health. Objective: : This paper aims to provide a preliminary overview of denture hygiene care among the elderly using an ordered logistics model. Methods: : Data was obtained from 174 participants in two government institutional homes in Malaysia. The Principle Components Analysis (PCA) was used to identify significant variables and an ordered logistic model showed the relationships between these variables and denture hygiene. Results: : PCA identified three significant variables: calf circumference, age, and appetite. The ordered logistic model shows that lower calf circumference, lower age groups and severe loss of appetite, all were associated with significantly poorer denture hygiene. The model's fitting and goodness-of-fit was also assesed and found to be satisfactory. Conclusion: : Poor denture hygiene is prevelant among institutionalized elderly. Addressing these issues is crucial for caregivers and healthcare providers to enhance the well-being of the aging population. This research provides a foundation for future interventions to improve denture hygiene and, by extension, overall health and quality of life for institutionalized elderly individuals.

Keywords	Author Keywords: denture hygiene; elderly; oral hygiene; ordered logistics model; principal components plot; the goodness of fit
	Keywords Plus: PRINCIPAL COMPONENT ANALYSIS; ORAL-HEALTH; NUTRITIONAL-STATUS; MALNUTRITION; ASSOCIATION

Addresses	[1] Univ Sains Malaysia, Sch Dent Sci, Hlth Campus, Kubang Kerian, Kelantan, Malaysia
	[2] Univ Oxford, Dept Surg Sci, Headington, England
	[3] Univ Malaysia Terengganu, Fac Comp Sci & Math, Kuala Terengganu, Malaysia
	[4] Int Islamic Univ Malaysia, Kulliyyah Dent, Kuala Lumpur, Malaysia

Categories/ Classification	Research Areas: Dentistry, Oral Surgery & Medicine
	Citation Topics: 1 Clinical & Life Sciences › 1.49 Dentistry & Oral Medicine › 1.49.468 Oral Health
	Sustainable Development Goals: 03 Good Health and Well-being

Web of Science Categories	Dentistry, Oral Surgery & Medicine

+ **See more data fields**

Citation Network

In Web of Science Core Collection

0 Citations

35
Cited References

How does this document's citation performance compare to peers?
Data is from InCites Benchmarking & Analytics

Use in Web of Science

1
Last 180 Days

1
Since 2013

This record is from:

Web of Science Core Collection

- Emerging Sources Citation Index (ESCI)

Suggest a correction
If you would like to improve the quality of the data in this record, please **Suggest a correction**

Clarivate™
Accelerating innovation