

VOLUME 40, NUMBER 11
NOVEMBER 2023

ISSN 0189 - 160X

WAJM

WEST AFRICAN JOURNAL OF MEDICINE

ORIGINALITY AND EXCELLENCE IN MEDICINE AND SURGERY



OFFICIAL PUBLICATION OF
THE WEST AFRICAN COLLEGE OF PHYSICIANS *AND*
WEST AFRICAN COLLEGE OF SURGEONS



www.wajmed.org



TABLE OF CONTENTS

GENERAL INFORMATION	1C
INFORMATION FOR AUTHORS	1F
EDITORIAL NOTES – Stigma in Medicine Ibidunni O. Oloniniyi, Gregory E. Erhabor.....	1137
Time to Treat the Climate and Nature Crisis as One Indivisible Global Health Emergency.....	1139
Kamran Abbasi, Parveen Ali, Virginia Barbour, Thomas Benfield, Kirsten Bibbins-Domingo, Stephen Hancocks, Richard Horton, Laurie Laybourn-Langton, Robert Mash, Peush Sahni, Wadeia Mohammad Sharief, Paul Yonga, Chris Zielinski	
ORIGINAL ARTICLE	
Health Resource Utilization among Patients with Type 2 Diabetes Mellitus In Nigeria: An Analysis from the International Diabetes Management Practice Study (IDMPS).....	1145
Kolawole B.A., Anumah F.A., Unachukwu C (for the IDMPS 7 investigators)	
Health-Related Quality of Life and Its Determinants Among Hypertensive Patients in Rural Southwest Nigeria.....	1155
E. A. Afolabi-Obe, S. M. Agboola, A. O. Ibrahim, O. E. Gabriel-Alayode, O. E. Omosanya, O. T. Elegbede, A. O. Ajetunmobi, K. O. Sito, T. M. Olanrewaju	
Metabolic Syndrome and its Correlates among Hypertensive Patients in Abuja, North Central Nigeria.....	1164
H. C. Onyegbutulem, P. I. Henry-Onyegbutulem, D. Dogo, P. E.H. Schwarz, S. R. Bornstein	
Oral health and nutritional Status of Preschool-Aged Children in Maiduguri, North-East Nigeria.....	1173
T. O. Ligali, O. O. Orenuga	
Antibody response to Covid-19 vaccine (AstraZeneca) amongst Healthcare Workers in a Tertiary Hospital in Nigeria.....	1181
Z. G. Habib V. G. Kwaghe, B. A. Ekele, A. A. Akor, U. S. Galadima, N. D. Baamlong, E. K. Olateju, P. C. Onyeka	
Sleep Health amongst Patients Attending Adult Neurology Clinic in Abakaliki Nigeria.....	1192
C. O. Eze, F. C. Okoro, M. Okorie	
Stroke Hexagon; Protocol for Reduction of Stroke Burden in Resource-Poor Settings.....	1199
C. O. Eze	
The Stigma of Epilepsy among Patients attending The Epilepsy Clinic at Connaught Hospital, Sierra Leone.....	1209
Durodami R. Lisk, Aliu Kanu, James B.W. Russell	
Food and Aeroallergen Sensitization, Eosinophils Levels and Risk of Atopic Dermatitis in Abuja.....	1216
P. U. Ibeke, T. I. Otu, E. E. Ekop, P. U. Bassi	
Predictors of Surgical Site Infection in Contaminated Abdominal Surgical Wounds: Our Experience in Irrua Specialist Teaching Hospital.....	1223
E. Tagar, J. Kpolugbo, W. Akerele, A. A. Okomayin, C. Odion	
Overview of Early Childhood Caries in Nigeria and Global Recommended Treatment Guidelines.....	1232
N. K. Onyejaka, A. R. Njokanma, A. Ehizele, A. Adewale	
The Effect of Music on Operative Anxiety markers in patients undergoing Cataract Surgery: A dual centre cross-sectional comparative study.....	1240
O. T. Aribaba, A. A. Adenekan, A. A. Alabi, C. C. Emefu, O. T. Ilo, M. O. Kareem, Y. O. Oshodi, A. O. Onakoya, F. B. Akinsola	
Impact of Anemia on The Quality of Life of Chronic Kidney Disease Patients: A Single Institution Experience.....	1253
A. Odeyemi, O. M. Oladimeji, A. O. Ajibare, A. A. Iyayi, A. B. Oladimeji, O. T. Ojo, A. P. Adebola, J. O. Awobusuyi, A. O. Adekoya	
Intestinal Helminthiasis: Risk factors and relationship with Nutritional status and Anaemia among Institutionalised Children in three States of South-East Nigeria.....	1262
M. O. Njoku, K. K. Iloh, C. O. Okike, G. C. Njoku, O. N. Iloh, N. C. Ojinnaka	
CASE REPORT	
Pyoderma Gangrenosum in a Young Nigerian Male with Severe Ulcerative Colitis: A Case Report.....	1274
C. P. Onyia, P. Asogwa W. Adiri, O. Obienu, U. N. Ijoma S. C. Nwokediuko	
INDEX TO VOLUME 40, NO 11, November, 2023	
Author Index	1280
Subject Index	1281



Oral Health and Nutritional Status of Preschool-aged Children in Maiduguri, North-East Nigeria

Santé Bucco-Dentaire et État Nutritionnel des Enfants d'Âge Préscolaire à Maiduguri, dans le Nord-Est du Nigéria

¹T. O. Ligali, ²O. O. Orenuga

ABSTRACT

BACKGROUND: The most prevalent oral diseases, dental caries and periodontal disease, result in pain, discomfort, and loss of oral functions, often leading to poor nutrition.

OBJECTIVES: To assess the prevalence and relationship between oral health and nutritional status among children aged 2 to 5 years in Maiduguri, North-East Nigeria.

METHODS: A cross-sectional study that assessed caries experience, gingival status and nutritional status of children. Anthropometric measurements of weight-for-age and mid-upper arm circumference (MUAC) were used to assess nutritional status. Participants were randomly selected from three private schools. The MUAC was measured using a standardised tape rule. The weight-for-age by sex of the participants was extrapolated from the weight-for-age WHO chart. Oral health was assessed using the WHO Oral Health Survey Methods. Data were analysed using SPSS for Windows (version 23). Statistical significance was placed at 95% confidence and $p \leq 0.05$.

RESULTS: There were 239 participants with a male:female ratio of 1.2:1 (SE=0.03). Mean dmft was 0.72 (SE 0.09) and 63.2% had healthy gingiva (SE 0.04). The mean weight was 16.8kg (SE=0.15) and mean MUAC was 15.3 cm. Caries prevalence was associated with nutritional status and positively correlated ($r=0.03$, $P=0.64$). Gingival status was associated but inversely correlated with MUAC ($r=-0.02$, $P=0.76$).

CONCLUSION: Normal nutritional status was associated with no caries prevalence and healthy gingiva. Underweight was associated with caries prevalence. Adequate and healthy nutrition promotes good oral health in children. **WAJM 2023; 40(11): 1173 - 1180**

Keywords: Oral health status, Nutritional status, Preschool age, Maiduguri

RÉSUMÉ

CONTEXTE: Les maladies bucco-dentaires les plus prévalentes, la carie dentaire et la maladie parodontale, entraînent des douleurs, un inconfort et une perte de fonctions buccales, conduisant souvent à une mauvaise nutrition.

OBJECTIFS: Évaluer la prévalence et la relation entre la santé bucco-dentaire et l'état nutritionnel des enfants de 2 à 5 ans à Maiduguri, dans le Nord-Est du Nigéria

MÉTHODES: Une étude transversale qui a évalué l'expérience carieuse, l'état gingival et l'état nutritionnel des enfants. Les mesures anthropométriques du poids pour l'âge et le périmètre brachial moyen (MUAC) ont été utilisées pour évaluer l'état nutritionnel. Les participants ont été sélectionnés de manière aléatoire dans trois écoles privées. Le MUAC a été mesuré à l'aide d'une règle graduée normalisée. Le poids pour l'âge en fonction du sexe des participants a été extrapolé à partir du graphique de l'OMS. La santé bucco-dentaire a été évaluée selon les méthodes d'enquête de santé bucco-dentaire de l'OMS. Les données ont été analysées à l'aide de SPSS pour Windows (version 23). La signification statistique était fixée à une confiance de 95 % et $p \leq 0,05$.

RÉSULTATS: Il y avait 239 participants avec un ratio masculin/féminin de 1,2:1 (EE=0,03). La moyenne du dmft était de 0,72 (EE 0,09) et 63,2 % avaient des gencives saines (EE 0,04). Le poids moyen était de 16,8 kg (EE=0,15) et le MUAC moyen était de 15,3 cm. La prévalence de la carie était associée à l'état nutritionnel et corrélée positivement ($r=0,03$, $P=0,64$). L'état gingival était associé mais inversement corrélé au MUAC ($r=-0,02$, $P=0,76$).

CONCLUSION: Un état nutritionnel normal était associé à l'absence de prévalence de caries et à des gencives saines. L'insuffisance pondérale était associée à la prévalence de caries. Une nutrition adéquate et saine favorise une bonne santé bucco-dentaire chez les enfants. **WAJM 2023; 40(11): 1173 - 1180**

Mots-clés: État de santé bucco-dentaire, État nutritionnel, Âge préscolaire, Maiduguri

¹Department of Preventive Dentistry and Child Dental Health, University of Maiduguri, Borno State, Nigeria. Email: drlekanligali@yahoo.com, Phone contact: +2348052528163

²Department of Child Dental Health, Faculty of Dental Sciences, College of Medicine, University of Lagos. Email: lollyreagan@yahoo.com

Corresponding Author: Dr T. O. Ligali, Department of Preventive Dentistry and Child Dental Health, University of Maiduguri, Borno State, Nigeria. Email: drlekanligali@yahoo.com, Phone contact: +2348052528163

Abbreviations: WHO: World Health Organization; MUAC: Mid-upper arm circumference; LMIC: Low medium income country; dmft: Decayed, missing and filled teeth; SE: Standard error; r: correlation coefficient