

VOLUME 40, NUMBER 6
JUNE 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 – Diagnosis of Invasive Aspergillus Infections, Challenges of Neurocritical Care and Increased Risk of Hearing Loss in Diabetic Patients.....	571
G. E. Erhabor	
– Malaria: Burden and Challenges of Eradication.....	572
I. S. Bello, A. A. Ahmed	
ORIGINAL ARTICLES	
An Evaluation of the Knowledge and Utilization of the Essential Medicines List among Health Professionals in Six Tertiary Institutions in Nigeria.....	575
S. A. Ayinbuomwan, A. O. Opadeyi, J. O. Ohaju-Obodo, P. E. Akhiden, S. O. Oghuvwu, P. O. Nwani, B. O. James, A. O. Isah	
Socio-economic and Lifestyle Determinants of Functional Capacity of the Senior Attendees of an Outpatient Clinic in Northern Nigeria: A Cross-Sectional Study	581
A. L. Olawumi, B. A. Grema, A. K. Suleiman, G. C. Michael, Z. A. Umar, F. M. Damagum, A. I. Haruna, Z. Abdulkadir, A. Kwaku	
Hormonal Profile of Women Attending Fertility Clinic in Zaria, North-west, Nigeria.....	590
I. A. Isah, A. A. Akande, I. S. Aliyu, A. G. Adesuyin	
Determinants of Choice of Facility-Based Delivery among Mothers in Kwara State, Nigeria.....	594
M. A. Ijaiya, M. J. Saka, S. A. Aderibigbe, H. O. Raji, A. S. Adeniran, Z. B. Ijaiya, H. A. Ameen, M. M. B. Uthman, B. Kayode, I. Abdulraheem, O. A. Bolarinwa, R. Saidu	
Family Circle and Willingness to Subscribe to Community-based Health Insurance (CBHI) for the Elderly in a Rural Community in South-South Nigeria.....	601
F. Archibong, U. E. Asibong, A. E. Ayuk, A. Atangwho, S. S. Uriah	
Determinants of Choice of Specialty by Resident Doctors: A Multi-Center Based Study in South-West Nigeria.....	607
O. O. Ojewuyi, O. A. Kolawole, A. R. Ojewuyi, A. K. Alao	
Invasive Aspergillosis among Haematological Malignancy Patients in Ghana: A Pilot Study on Prevalence and Antifungal Prophylaxis at the National Referral Hospital.....	613
B. K. Ocansey, B. Otoo, H. Gbadamosi, J. A. Opintan, Y. Dei-Adomakoh, C. Kosmidis, D. W. Denning	
Nasopharyngeal Carcinoma in Childhood: Evidence of a Malfunctioning Oncology Ecosystem: A Case Series from a Low Resource Setting.....	619
U. O. Fakile, A. M. Akinsete, A. O. Joseph, T. O. Fashola, T. A. Oladipo, A. Akinsulie	
Pure Tone Audiometry and Otoacoustic Emission Evaluation of Hearing Loss in Diabetic Patients in a Selected Urban Population of South-West Nigeria.....	623
S. K. Aremu, G. O. Ajani, S. A. Atolani, O. B. Fawole	
Neurocritical Care in Nigeria.....	630
M. A. Komolafe, A. O. Idowu, M. E. Peter, H. W. Oyinlola, A. A. Sanusi, S. A. Balogun, S. O. Olateju, A. A. Adebawale, M. B. Fawale, E. O. Komolafe	
Clinical Profile and Determinants of Loss to Follow-Up in Patients Enrolled in an Urban Antiretroviral Treatment Programme in Northwestern Nigeria.....	634
H. M. Liman, S. H. Tambuwal, A. Abbas, K. J. Awosan, C. E. Udegbonam	
Assessing the Burden of Kidney Disease among Type 2 Diabetic Subjects attending a Semi-Urban Tertiary Health Facility in South-West Nigeria.....	640
R. T. Ikem, A. T. Lawal-Bello, D. O. Soyoye, A. N. Fasanu, B. A. Kolawole	
Assessment of Perceived and Objective Quality of Care received by Insured versus Uninsured Adult Patients Attending a Tertiary Hospital in Nigeria.....	646
O. C. Ekwueme, L. A. Moses, O. G. Ogunfowokan	
Intimate Partner Violence and Risk Factors among Women during the COVID-19 Movement Restriction in Nigeria: An Online Survey.....	654
O. C. Ezechi, G. A. Ohihoin, D. A. Oladele, T. A. Bamidele, T. A. Gbajabiamila, A. O. Salako, Z. A. Musa, E. Ohihoin, O. O. Odubela, C. V. Gab-Okafor, P. M. Ezeobi, A. N. David, N. N. Odunukwe, B. L. Salako	
CASE REPORT	
Penile Fracture following Penile Manipulation during Nocturnal Penile Tumescence – A Case Report.....	663
T. O. Adeleke, A. O. Durodola, M. O. Oyelami, I. A. Okunade, S. I. Oloruntoba	
INDEX TO VOLUME 40, NO. 6, 2023	
Author Index	666
Subject Index	667



Pure Tone Audiometry and Otoacoustic Emission Evaluation of Hearing Loss in Diabetic Patients in a Selected Urban Population of South-West Nigeria

Audiométrie Tonale et Émission Otoacoustique : Évaluation de la Perte Auditive Chez les Patients Diabétiques dans une Population Urbaine Sélectionnée du Sud-Ouest du Nigeria

¹S. K. Aremu, ²G. O. Ajani, ³S. A. Atolani, ⁴O. B. Fawole

ABSTRACT

BACKGROUND: Diabetes Mellitus (DM) is a clinical condition which is characterized by persistent hyperglycemia resulting from insulin deficiency and/or insulin resistance. The spectrum of hearing impairments among patients with diabetes is wide with majority of the hearing problems not specific to patients with DM. The current study is aimed to evaluate the hearing loss in Diabetic Mellitus patients in a selected urban population of south-west Nigeria using pure tone audiometry and otoacoustic emission evaluation. It will correlate the audiological findings with factors such as age, gender, glycemic status, and duration of DM.

METHODS: A cross sectional progressive study was carried out from January 2021 to December 2021 on randomly selected 95 consecutive diabetic patients visiting the departments of Otorhinolaryngology and Medicine.

RESULTS: A total of 95 DM patients attending the ENT clinics of the hospital consented and participated in the study. Their ages ranged from 43 to 82 years and had a mean of 65.3 ± 8.4 years. Majority of the patients were females (73.7%); female-to-male ratio was approximately 3:1. About half of them were already retired (49.5%) while more than half had at least a tertiary level of education (53.7%). 8.4% were reported to have discharge from their ears, 24.2% had itchy sensations and 5.3% had recurrent nasal discharge. The prevalence of hyperglycemia was 36.8% in the subjects; while another 5.3% were hypoglycemic.

CONCLUSION: Hearing impairment is significantly associated with the DM and other risk factors in DM patients including older age, occupation, poor glycemic controls, undue noise and alcohol consumption. **WJMJ 2023; 40(6): 623–629.**

Keywords: Diabetic Mellitus, Hearingloss, Audiometry, Otoacoustic emission.

RÉSUMÉ

CONTEXTE: Le diabète sucré (DM) est un état clinique caractérisé par une hyperglycémie persistante résultant d'une carence en insuline et/ou d'une résistance à l'insuline. L'étude actuelle vise à évaluer la perte auditive chez les patients atteints de diabète sucré dans une population urbaine sélectionnée du sud-ouest du Nigeria en utilisant l'audiométrie tonale et l'évaluation de l'émission otoacoustique. Elle mettra en corrélation les résultats audiolgiques avec des facteurs tels que l'âge, le sexe, le statut glycémique et la durée du diabète.

MÉTHODES: Une étude transversale progressive a été menée de janvier 2021 à décembre 2021 sur 95 patients diabétiques consécutifs sélectionnés au hasard et se rendant dans les départements d'oto-rhino-laryngologie et de médecine.

Résultats: Au total, 95 patients diabétiques consultant les cliniques ORL de l'hôpital ont consenti à participer à l'étude. Leur âge variait de 43 à 82 ans, avec une moyenne de $65,3 \pm 8,4$ ans. La majorité des patients étaient des femmes (73,7 %) ; le rapport femmes-hommes était d'environ 3:1. Environ la moitié d'entre eux étaient déjà à la retraite (49,5 %), tandis que plus de la moitié avaient au moins un niveau d'éducation tertiaire (53,7 %). 8,4 % des patients ont déclaré avoir des écoulements dans les oreilles, 24,2 % des démangeaisons et 5,3 % des écoulements nasaux récurrents. La prévalence de l'hyperglycémie était de 36,8 % chez les sujets, tandis que 5,3 % étaient hypoglycémiques.

CONCLUSION: La déficience auditive est significativement associée au diabète et à d'autres facteurs de risque chez les patients atteints de diabète, notamment l'âge avancé, la profession, les mauvais contrôles glycémiques, le bruit excessif et la consommation d'alcool. **WJMJ 2023; 40(6): 623–629.**

Mots-clés: Diabète sucré, Perte auditive, Audiométrie, Émission otoacoustique.

¹Department of Ear Nose and Throat, College of Medicine and Health Sciences, Afe Babalola University, Ado-Ekiti, Ekiti State, Nigeria. ²Endocrinology Unit, Department of Medicine, College of Medicine and Health Sciences, Afe Babalola University, Ado-Ekiti, Ekiti State, Nigeria. ³Endocrinology Unit, Department of Medicine, Federal Teaching Hospital, Ido-Ekiti, Ekiti State, Nigeria. ⁴Department of Ear Nose and Throat, Federal Teaching Hospital, Ido-Ekiti, Ekiti State, Nigeria.

*Correspondence: Dr. Shuaib Kayode Aremu, Department of Ear Nose and Throat, College of Medicine and Health Sciences, Afe Babalola University, Ado-Ekiti, Ekiti State, Nigeria. Email: aremuska@abuad.edu.ng Phone: +2348033583842, Fax: +2348033583842, Postal Code: 371101