

VOLUME 40, NUMBER 9
September 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 – Promoting the Rational use of Antibiotics.....	885
G. E. Erhabor	
ORIGINAL ARTICLES	
Curriculum Development: Postgraduate Diploma in Health Systems Management	887
S. S. Sule, T. M. Akande, A. T. Onajole, M. J. Abubakar	
Lipoprotein-Associated Phospholipase A2 has Comparable Ability as Anthropometric Indices to Discriminate Cardiovascular Disease Risk: A Cross-Sectional Study	902
E. N. Adejumo, J. D. Adefoluke, N. L. Nwobi, C. J. Okafor, S. Y. Lokpo	
Effect of Perioperative Tranexamic Acid on Blood Loss following Open Simple Prostatectomy: A Prospective Review in Nigerian Men.....	909
C. I. Onyeze, T. A. Badmus, A. A. Salako, A. M. Owojuigbe, E. A. Jeje, O. O. Olasehinde, A. Adeyemo, R. A. David	
Odontogenic Tumours: A Clinicopathologic Appraisal of Cases seen in a Nigerian Tertiary Hospital using 2017 WHO Classification	914
A. C. Oluwarotimi, O. M. Ogundana, O. M. Gbotolorun, O. James, O. Adebule	
Profile of Acute Poisoning among Adult Patients at the Emergency Room of a Tertiary Hospital, South-western Nigeria....	920
A. K. Ajieigbe, T. A. Adedeji, O. A. Jeje, O. E. Olukoyejo, M. B. Bello, V. O. Ogra, O. J. Jokanola, O. A. Ajose	
Quality of Drug Prescribing and Dispensing Practices in Primary Healthcare Centres in an Urban Local Government Area in Nigeria.....	925
D. S. Ogaji, D. Nwaejike, O. Ebiekuraju	
Correlation between Lipid Profile and Left Ventricular Geometry and Function in Children with Chronic Kidney Disease	935
D. K. Adiele, J. M. Chinawa	
The Prevalence of Musculoskeletal Symptoms among Welders and Non-Welders in Ikenne, Ogun State, Nigeria: A Comparative Cross-Sectional Study	943
E. F. Bamidele, V. C. Okebalama, J. K. Sodeinde, J. O. Ogunkoya, A. Oshinaike, N. O. Adefala, C. Amaike, O. Abiodun, O. K. Monday, N. Obinna-Chinatu, I. C. Mbon, K. W. Ndinne, C. C. Abaenowa, C. C. Nwankpa	
Serological Profiles of SARS-CoV-2 among Adult Outpatients and Caregivers of a Family Medicine Clinic in Northern Nigeria	950
A. K. Suleiman, A. L. Olawumi, Z. A. Umar, A. Aminu, F. Y. Muhammad	
Survey on the Knowledge and Management of Cancer-Associated Thrombosis (CAT) in Haemato-Oncology Patients with Thrombocytopenia among Haematologists and Haematology Residents in Nigeria.....	956
H. C. Okoye, K. I. Korubo, H. E. Omunakwe, C. C. Efobi, N. M. Onodingene, N. I. Ugwu	
Antibiotic Guidelines for Critically Ill Patients in Nigeria	962
R. O. Oladele, A. O. Ettu, N. Medugu, A. Habib, E. Egbagbe, T. Osinaike, O. B. Makajuola, B. Ogunbosi, O. O. Irowa, J. Ejembi, N. S. Uwaezuoke, G. Adeleke, B. Mutiu, F. Ogunsola, V. Rotimi	
Eisenmenger Syndrome: A Revisit of a Hidden but Catastrophic Disease.....	973
J. M Chinawa, I. Arodiwe, J. T. Onyia, A. T. Chinawa	
Prevalence of Pica amongst Pregnant Women attending Antenatal Clinic of a Tertiary Clinic in South-East, Nigeria	982
S. I. Ezemenahi, E. Adinma, A. V. Nworah, A. L. Obi-Nwosu, S. C. Ezemenahi	
Effect of Chronic Obstructive Pulmonary Disease Severity on Inspiratory Flow Rates via Inhaler Devices	989
A. O. Adetiloye, A. A. Akor, O. F. Awopeju, O. O. Adewole, O. A. Adewuya, G. E. Erhabor	
Relationship between Serum Uric Acid and Hypertension among Secondary School Adolescents in Ekiti State, Nigeria.....	997
O. B. Fayemi, W. A. Ajetunmobi, O. B. Bolaji, C. E. Onyema, O. A. Lawal, A. O. Adaje, C. T. Omisakin, B. A. Adeleke, E. O. Adeyemi, S. O. Ajigotosho, O. J. Adebami. O. O. Adeodu	
CASE REPORT	
Report of a Rare Case of Primary Pericardial Malignancy	1003
T. O. Folorunso, E. A. Adedeji, A. E. Folorunso, I. V. Oluwarotimi	
INDEX TO VOLUME 40, NO. 9, 2023	
Author Index	1007
Subject Index	1008



ORIGINAL ARTICLE

The Prevalence of Musculoskeletal Symptoms among Welders and Non-Welders in Ikenne, Ogun State, Nigeria: A Comparative Cross-Sectional Study

La Prévalence des Symptômes Musculo-Squelettiques chez les Soudeurs et les non-Soudeurs à Ikenne, État d’Ogun, Nigéria: une Étude Transversale Comparée

¹E. F. Bamidele, ^{2*}V. C. Okebalama, ¹J. K. Sodeinde, ¹J. O. Ogunkoya, ¹A. Oshinaike, ¹N. O. Adefala, ¹C. Amaike, ¹O. Abiodun, ³O. K. Monday, ⁴N. Obinna-Chinatu, ⁵I. C. Mbon, ⁶K. W. Ndinne, ⁷C. C. Abaenowa, ⁸C. C. Nwankpa

ABSTRACT

BACKGROUND: Musculoskeletal symptoms in welders may affect their health and quality of life. This study determined the prevalence of musculoskeletal symptoms among welders compared to non-welders and determined the body part(s) mostly affected.

METHODOLOGY: The study is a comparative cross-sectional study. 142 welders and 136 security officers in Ikenne local government area of Ogun State, Nigeria were included in the study. The Nordic Musculoskeletal Questionnaire (NMQ) was used to obtain information on the prevalence of musculoskeletal disorders (MSDs). Descriptive statistics methods were used to summarize the data. Chi-square bivariate analysis was conducted to test for associations between welders' occupational characteristics and the 12-month prevalence of back pain.

RESULTS: The mean age of respondents was 36.8 ± 13.9 years and 36.7 ± 9.4 for non-welders. Two-fifth (40.8%) of the welders had less than 10 years of work experience. About half (50.7%) of them worked six days a week, and many (54.9%) worked more than eight hours daily. The prevalence of back pain was higher among welders (74.6%) than in security officers (33.8%). This finding was significant ($P < 0.001$). Also, knee pain was more common among welders (31.7%) compared to security officers (16.2%). The 12-month prevalence of back pain among welders and control was 74.6% and 33.8% respectively and knee pain among welders and control was 31.7% and 16.2% respectively. Both were statistically significant ($p = 0.001$). In the last seven days, back pain was present more among welders than in controls (50.0% Vs 26.5%).

CONCLUSION: The study shows a high prevalence of musculoskeletal symptoms among welders compared to non-welders. The lower back is the part of the body most affected. Training and health education of the workers on the negative effect of musculoskeletal symptoms on the body, and the right posture to adopt at work would go a long way in reducing the occurrence of these symptoms. **WAJM 2023; 40(9): 943–949.**

Keywords: Musculoskeletal symptoms, Welders, Nigeria, Nordic Musculoskeletal Questionnaire.

RÉSUMÉ

CONTEXTE: Les symptômes musculo-squelettiques chez les soudeurs peuvent affecter leur santé et leur qualité de vie. Cette étude a déterminé la prévalence des symptômes musculo-squelettiques chez les soudeurs par rapport aux non-soudeurs et a déterminé la ou les parties du corps les plus touchées.

MÉTHODOLOGIES: L'étude est une étude transversale comparée. 142 soudeurs et 136 agents de sécurité dans la zone de gouvernement local d'Ikenne de l'État d'Ogun, au Nigéria, ont été inclus dans l'étude. Le questionnaire nordique sur les troubles musculo-squelettiques (NMQ) a été utilisé pour obtenir de l'information sur la prévalence des troubles musculo-squelettiques (TMS). Des méthodes statistiques descriptives ont été utilisées pour résumer les données. Une analyse bivariée du chi carré a été effectuée pour vérifier les associations entre les caractéristiques professionnelles des soudeurs et la prévalence des maux de dos sur 12 mois.

RÉSULTATS: L'âge moyen des répondants était de $36,8 \pm 13,9$ ans et de $36,7 \pm 9,4$ ans pour les non-soudeurs. Les deux cinquièmes (40,8 %) des soudeurs avaient moins de 10 ans d'expérience de travail. Environ la moitié (50,7 %) d'entre eux travaillaient six jours par semaine, et beaucoup (54,9 %) travaillaient plus de huit heures par jour. La prévalence des maux de dos était plus élevée chez les soudeurs (74,6 %) que chez les agents de sécurité (33,8 %). Ce résultat était significatif ($P < 0,001$). De plus, la douleur au genou était plus fréquente chez les soudeurs (31,7 %) que chez les agents de sécurité (16,2 %). La prévalence à 12 mois des maux de dos chez les soudeurs et les témoins était de 74,6 % et 33,8 % respectivement, et la douleur au genou chez les soudeurs et le groupe témoin était de 31,7 % et 16,2 % respectivement. Les deux étaient statistiquement significatifs ($p = 0,001$). Au cours des sept derniers jours, les maux de dos étaient plus présents chez les soudeurs que chez les témoins (50,0 % contre 26,5 %).

CONCLUSION: L'étude montre une prévalence élevée de symptômes musculo-squelettiques chez les soudeurs par rapport aux non-soudeurs. Le bas du dos est la partie du corps la plus touchée. La formation et l'éducation sanitaire des travailleurs sur l'effet négatif des symptômes musculo-squelettiques sur le corps, et la bonne posture à adopter au travail contribueraient grandement à réduire l'apparition de ces symptômes. **WAJM 2023; 40(9): 943–949.**

Mots clés: Symptômes musculo-squelettiques, Soudeurs, Nigeria, Questionnaire nordique sur les troubles musculo-squelettiques.

¹Department of Community Medicine, Babcock University Teaching Hospital, Ilisan-Remo, Ogun State, Nigeria. ²Department of Histopathology, Babcock University Teaching Hospital, Ilisan-Remo, Ogun State, Nigeria. ³Emergency Medicine Department, Norfolk and Norwich University Teaching Hospital, U.K. ⁴Department of Paediatrics, Royal Stoke University Hospital, UHNM NHS Trust, U.K. ⁵Department of Surgery, Babcock University Teaching Hospital, Ilisan-Remo, Ogun State, Nigeria. ⁶Faydat Athqab Primary Healthcare Center, Hail, Saudi Arabia. ⁷Nabhaniyah General Hospital, Al-Nabhaniyah, Saudi Arabia. ⁸Department of Obstetrics and Gynaecology, Babcock University Teaching Hospital, Ilisan-Remo, Ogun State, Nigeria.

*Correspondence: Dr. Okebalama Victor Chimezie, Department of Histopathology, Babcock University, Teaching Hospital, Ilisan-Remo, Ogun State, Nigeria. Email: okebalasvictor@gmail.com Phone number: +2348062995816.