



Yohannes Woldeamanuel

Instructor, Neurology & Neurological Sciences

Bio

BIO

Dr. Yohannes W. Woldeamanuel M.D. is an Expert Physician and Medical Scientist, currently Instructor at Department of Neurology and Neurological Sciences and Senior Fellow at the Center for Innovation in Global Health, Stanford University School of Medicine. He obtained his M.D. from Addis Abeba University Medical Faculty in January 2007. Following graduation, Dr. Woldeamanuel was Head of Department of Anatomy, Histology, Embryology at Jimma University School of Medicine where he successfully instructed medical students and other health profession disciplines for a year and a half. Afterwards, he did Clinical Neurology residency training at Addis Abeba University Medical Faculty combined with Basic Science and Clinical Research Fellowships concentrating in the areas of Neuroinfectious Diseases, Neuropathic Pain, Epilepsy, and Neuroepidemiology at Karolinska Institutet - Sweden, Albert Einstein College of Medicine - USA, University of Heidelberg - Germany, and Imperial College London - UK. He completed his PostDoctoral Fellowship in Headache Medicine at the Stanford Headache Program. He is Awardee of several prestigious Fellowships, namely, the International Brain Research Organization (IBRO) John G. Nicholls 2012, International Association for the Study of Pain (IASP) Scan|Design Foundation 2010, European Neurological Society (ENS) 2011, and International Headache Society (IHS) 2014. He also has vested interest and expertise in Digital Health as shown by his recent developments of clinically-validated self-management apps for neuropathy (CHANT) and migraine. He has strong track record of publishing many peer-reviewed first-authored articles in several high impact medical journals including The Lancet Oncology, Neurology, Pain, Journal of Neurology, Cephalalgia, and Journal of Neurological Sciences. While serving as Head of Department in Human Anatomy at Jimma University, he successfully trained medical students for two years from 2007 - 2009. Dr. Woldeamanuel's track of strong, productive, industrious, and entrepreneurial leadership skills has enabled him to team up with colleagues and found Propria Health Solutions Co. where he is the Founder and CEO. Dr. Woldeamanuel consults for his clinic in Addis Abeba, Advanced Clinical & Research Center, where he provides his expertise to neurological and general medical patients.

ACADEMIC APPOINTMENTS

- Instructor, Neurology & Neurological Sciences

ADMINISTRATIVE APPOINTMENTS

- Liaison, Stanford Center for Digital Health, (2017- present)

HONORS AND AWARDS

- Emerging Leader in Global Health, Innovation Award 2016, Consortium of Universities for Global Health & The Velji Family Foundation (April 10, 2016)
- International Headache Society (IHS), International Headache Society (IHS) (2014)
- John G. Nicholls Fellowship, International Brain Research Organization (IBRO) (2012)
- European Neurological Society (ENS) Fellowship, European Neurological Society (ENS) (2011)
- International Association for the Study of Pain (IASP) Scan|Design Foundation, International Association for the Study of Pain (IASP) Scan|Design Foundation (2010)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Senior Fellow, Center for Innovation in Global Health (2015 - present)
- Affiliated Member, Stanford Center for Population Health Sciences (2015 - present)

COMMUNITY AND INTERNATIONAL WORK

- Advanced Clinical Consultation - Doctor on Demand - Ethiopia, Addis Abäba
- The Life's Second Chance Foundation

LINKS

- My Lab Site: https://www.researchgate.net/profile/Yohannes_Woldeamanuel2
- My Interview with MDLinx, June 10, 2016: <http://www.mdlinx.com/pediatrics/conference-interview/article/541>
- My interview with MedPage, Oct 17, 2016: <http://www.medpagetoday.com/clinical-context/migraines/60955>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

1. Testing the Efficacy of Regular Exercise to Manage Chronic Migraine
2. Examining Biological Mechanisms Behind Efficacy of Exercise in Chronic Migraine Utilizing Multi-omics
2. Understanding the Link Between Clinical Phenotypes, Neuroimaging, Serum, and Cerebrospinal Fluid Data in Headache Disorders.
3. Developing Lifestyle-Based Digital Tool for Personalized Migraine Self-Management
4. Development and Clinical Validation of a Digital Tool for Headache Disorders

PROJECTS

- Development of Digital Tool for Regular Lifestyle Behavior in Migraine Self-management
- Global Clinico-epidemiologic Study on Measuring the Burden of Migraine Headache - Stanford University
- Imaging, Behavioral, and Biomarker Understanding of Chronic Headache Disorders - Stanford University; HMRI
- Determining the Place of Corticosteroids in the Management of Migraine Attacks
- Spontaneous Hemorrhagic Phenomena in Primary Headache Disorders - a 120-year Systematic Review and Pooled Analysis of Published Case Studies - Stanford University
- Studying the Association between Migraine and Complex Regional Pain Syndrome - a Cross-Sectional Clinical Study
- Nationwide Cancer Burden Assessment in Ethiopia
- Central Autonomic Symptoms among Primary Headache Disorders - a Cross-Sectional Clinical Study
- Case-Fatality of Adult Tetanus in Africa - Systematic Review and Meta-Analysis
- Headaches Secondary to Infections - Book Chapter
- Examining the Association between Joint Hypermobility Syndrome, Primary Headaches, Postural Hypotension Tachycardia Syndrome - a Cross-Sectional Clinical Study
- Digit Skin Wrinkling in Distal Peripheral Neuropathy: Early Diagnostic Tool - University of Heidelberg in Mannheim; Stanford University; Addis Ababa University
- Physical Inactivity in Africa: Burden from Community-based Studies in Africa - Stanford University
- CHANT - Clinical HIV-Associated Neuropathy Tool

Publications

PUBLICATIONS

- **Exploring Natural Clusters of Chronic Migraine Phenotypes: A Cross-Sectional Clinical Study.** *Scientific reports*
Woldeamanuel, Y. W., Sanjanwala, B. M., Peretz, A. M., Cowan, R. P.
2020; 10 (1): 2804
- **Clinical Features Contributing to Cortical Thickness Changes in Chronic Migraine - A Pilot Study.** *Headache*
Woldeamanuel, Y. W., DeSouza, D. D., Sanjanwala, B. M., Cowan, R. P.
2018
- **Migraine affects 1 in 10 people worldwide featuring recent rise: A systematic review and meta-analysis of community-based studies involving 6 million participants** *Journal of the Neurological Sciences*
Woldeamanuel, Y. W., Cowan, R. P.
2017; 372: 307-315
- **Migraine and Complex Regional Pain Syndrome: A Case-Referent Clinical Study.** *BioMed research international*
Woldeamanuel, Y. W., Cooley, C., Foley-Saldana, K., Cowan, R. P.
2017; 2017: 5714673
- **Headache in Resource-Limited Settings.** *Current pain and headache reports*
Woldeamanuel, Y. W.
2017; 21 (12): 51
- **Development, Validation, and Field-Testing of an Instrument for Clinical Assessment of HIV-Associated Neuropathy and Neuropathic Pain in Resource-Restricted and Large Population Study Settings** *PLOS ONE*
Woldeamanuel, Y. W., Kamerman, P. R., Veliotes, D. G., Phillips, T. J., Asboe, D., Boffito, M., Rice, A. S.
2016; 11 (10)
- **The impact of regular lifestyle behavior in migraine: a prevalence case-referent study** *JOURNAL OF NEUROLOGY*
Woldeamanuel, Y. W., Cowan, R. P.
2016; 263 (4): 669-676
- **The place of corticosteroids in migraine attack management: A 65-year systematic review with pooled analysis and critical appraisal.** *Cephalalgia*
Woldeamanuel, Y. W., Rapoport, A. M., COWAN, R. P.
2015; 35 (11): 996-1024
- **Prevalence of migraine headache and its weight on neurological burden in Africa: a 43-year systematic review and meta-analysis of community-based studies.** *Journal of the neurological sciences*
Woldeamanuel, Y. W., Andreou, A. P., Cowan, R. P.
2014; 342 (1-2): 1-15
- **A 22-year-old Male Farmer from Rural Ethiopia with Difficulty Walking** *CLINICAL CASES IN TROPICAL MEDICINE. Manson's Tropical Diseases, 23rd Edition (ISBN: 978-0-7020-5101-2)*
Woldeamanuel, Y. W.
edited by Rothe, C.
Elsevier Science Health Science div.2014; 1st Edition: 261-265
- **Cancer in Ethiopia** *LANCET ONCOLOGY*
Woldeamanuel, Y. W., Girma, B., Teklu, A. M.
2013; 14 (4): 289-290
- **Tetanus in Ethiopia: Unveiling the Blight of an Entirely Vaccine-Preventable Disease** *CURRENT NEUROLOGY AND NEUROSCIENCE REPORTS*
Woldeamanuel, Y. W.
2012; 12 (6): 655-665
- **Neurolathyrism: two Ethiopian case reports and review of the literature** *JOURNAL OF NEUROLOGY*
Woldeamanuel, Y. W., Hassan, A., Zenebe, G.
2012; 259 (7): 1263-1268

- **Expression profile of neuropeptide Y, its receptors and its role in seizures on mouse models of toxoplasmosis and African trypanosomiasis** *22nd Meeting of the European-Neurological-Society*
Woldeamanuel, Y. W.
SPRINGER HEIDELBERG.2012: S54–S55
- **Case Study: Watch for Tuberculous Encephalopathy in Endemic Areas** *WORLD NEUROLOGY*
Gebremichael, S. G., Adeb, M. D., Woldeamanuel, Y. W.
2009; 24 (6): 12
- **Exploring naturally occurring clinical subgroups of post-traumatic headache.** *The journal of headache and pain*
Chan, T. L., Woldeamanuel, Y. W.
2020; 21 (1): 12
- **Endogenous Glucocorticoids may be Potential Biomarkers for Migraine Chronification**
Woldeamanuel, Y. W., Sanjanwala, B. M., Cowan, R. P.
SAGE PUBLICATIONS LTD.2019: 379–80
- **Aberrant Structural Network Architecture in Chronic Migraine**
DeSouza, D. D., Woldeamanuel, Y. W., Sanjanwala, B. M., Bissell, D., Bishop, J. H., Cowan, R. P.
SAGE PUBLICATIONS LTD.2019: 392
- **Exploring Natural Cohorts of Chronic Migraine Phenotype**
Woldeamanuel, Y., Sanjanwala, B., Peretz, A., Cowan, R.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Altered structural brain network topology in chronic migraine.** *Brain structure & function*
DeSouza, D. D., Woldeamanuel, Y. W., Sanjanwala, B. M., Bissell, D. A., Bishop, J. H., Peretz, A., Cowan, R. P.
2019
- **Importance of Controlling for Comorbidities in Migraine Association Studies.** *Pain medicine (Malden, Mass.)*
Woldeamanuel, Y. W.
2019
- **Obesity-Related Cortical Thickness Changes in Chronic Migraine**
Woldeamanuel, Y. W., DeSouza, D. D., Sanjanwala, B. M., Cowan, R. P.
WILEY.2018: S83
- **Headache Due to Infections and Disorders of Homeostasis** *Modern Day Management of Headache: Questions and Answers*
Woldeamanuel, Y. W.
Jaypee Brothers Medical Publishers (P) Ltd. .2017 ; 1st: 291–301
- **Headache Secondary to Nonvascular Intracranial Disorders** *Modern Day Management of Headache: Questions and Answers*
Woldeamanuel, Y. W.
Jaypee Brothers Medical Publishers (P) Ltd..2017; 1st : 280–290
- **Spontaneous extracranial hemorrhagic phenomena in primary headache disorders: A systematic review of published cases** *CEPHALALGIA*
Peretz, A. M., Woldeamanuel, Y. W., Rapoport, A. M., Cowan, R. P.
2016; 36 (13): 1257-1267
- **Journal Club: Change in brain network connectivity during PACAP38-induced migraine attacks.** *Neurology*
DeSouza, D. D., O'Hare, M., Woldeamanuel, Y. W., Cowan, R. P.
2016; 87 (16): e199-e202
- **Journal Club: Exacerbation of headache during dihydroergotamine for chronic migraine does not alter outcome.** *Neurology*
Woldeamanuel, Y. W., O'Hare, M., DeSouza, D. D., Cowan, R. P.
2016; 87 (16): e196-e198
- **Case fatality of adult tetanus in Africa: Systematic review and meta-analysis.** *Journal of the neurological sciences*
Woldeamanuel, Y. W., Andemeskel, A. T., Kyei, K., Woldeamanuel, M. W., Woldeamanuel, W.
2016; 368: 292-299

- **Indomethacin Responsive Headaches: Exhaustive Systematic Review With Pooled Analysis and Critical Appraisal of 81 Published Clinical Studies** *HEADACHE*
Bordini, E. C., Bordini, C. A., Woldeamanuel, Y. W., Rapoport, A. M.
2016; 56 (2): 422-435
- **Spontaneous extracranial hemorrhagic phenomena in primary headache disorders: A systematic review of published cases.** *Cephalalgia*
Peretz, A. M., Woldeamanuel, Y. W., Rapoport, A. M., Cowan, R. P.
2015
- **Sensory, psychological, and metabolic dysfunction in HIV-associated peripheral neuropathy: A cross-sectional deep profiling study** *PAIN*
Phillips, T. J., Brown, M., Ramirez, J. D., Perkins, J., Woldeamanuel, Y. W., Williams, A. C., Orengo, C., Bennett, D. L., Bodi, I., Cox, S., Maier, C., Krumova, E. K., Rice, et al
2014; 155 (9): 1846-1860
- **Contributing towards the betterment of translational epilepsy research in Africa: needs, challenges, resources, and opportunities.** *Current neurology and neuroscience reports*
Woldeamanuel, Y. W., Girma, B.
2014; 14 (8): 480-?
- **A 43-year systematic review and meta-analysis: case-fatality and risk of death among adults with tuberculous meningitis in Africa** *JOURNAL OF NEUROLOGY*
Woldeamanuel, Y. W., Girma, B.
2014; 261 (5): 851-865
- **The Socioeconomic and Neurological Burden of Neuroleptism in Ethiopia - the saga continues** *Cassava Cyanide Diseases and Neuroleptism Network News*
Woldeamanuel, Y. W.
2014: 3-6
- **EHMTI-0318. The place of corticosteroids in migraine attack management: systematic review and critical appraisal** *Abstracts from the 4th European Headache and Migraine Trust International Congress: EHMTIC 2014*
Woldeamanuel, Y. W., Rapoport, A. M., Cowan, R. P.
2014: G42
- **What is the evidence for the use of corticosteroids in migraine?** *Current pain and headache reports*
Woldeamanuel, Y. W., Rapoport, A. M., Cowan, R. P.
2014; 18 (12): 464
- **Tetanus Weighs on Neurological Burden in Ethiopia** *WORLD NEUROLOGY*
Woldeamanuel, Y. W., Hassan, A.
2010; 25 (5): 14