Barriers to Access Multiple Sclerosis Disease-Modifying Therapies in Middle East and North Africa: A Regional Survey-Based Study

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Background
- Multiple Sclerosis International Federation (MSIF) Atlas recorded an increase in the prevalence of multiple sclerosis (MS) in Middle-Eastern countries from 24 per 100,000 to 33 per 100,000 between 2013 and 2020.
- Moreover, epidemiological studies from the Middle East and North Africa (MENA) region showed a rising MS prevalence during the first two decades of the 21st Century.
- Despite shifting of the MENA region from low to moderately-high risk zone for MS, the management of the disease still varies markedly between different countries based on disease-modifying therapies (DMTs) availability, accessibility, and reimbursement.
- In general, introduction of novel DMTs in most MENA countries is usually delayed, as drug approval can take several months to years once approved for use by the Food and Drug Administration (FDA) or European Medicines Agency (EMA), depending on the country.

Objective
In order to gain better understanding of treatment accessibility and explore potential common areas of need in our MENA region, we carried an in-depth analysis of the Arab region Atlas of MS data, compiled by the MSIF, focusing on accessibility to originators and off-label DMTs in each country and identifying barriers to MS treatment.

Methods
- This is a descriptive, survey-based study whereby we extracted data collected between October 2019 and April 2020 for countries in the MENA region by the MSIF through their Atlas of MS online survey.

Results
- 16 out of 19 countries in the MENA region were included in this study: Algeria, Egypt, Iraq, Lebanon, Libya, Morocco, Palestine Sudan, Syria, Tunisia, Yemen, Kuwait, Oman, Qatar, Saudi Arabia and United Arab Emirates (UAE).
- Regulatory Approval of DMTs in the MENA region

Conclusion
- Most MENA countries have access to DMTs, including high-efficacy DMTs.
- More than half of MENA countries report problems with treatment continuation with cost being the major barrier to treatment.
- The number of barriers to treatment correlates with the Gross National Income (GNI) per capita – richer countries have fewer barriers to treatment.
- This study highlights unequal access to treatment across the MENA region; therefore, there is an urgent need to improve access to DMTs in lower resource settings where there are barriers to improve health outcomes for patients with MS.