Moroccan Health Care: A Link to Radicalization and Proposed Solution

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The relationship between the Kingdom of Morocco and the US began just after the US declared its own independence. It is one of the oldest of US partnerships with a foreign country, and since the end of the First Barbary War in 1805 it has remained one of the most stable. The Utah National Guard (UTNG) has an active state partnership program (SPP) with Morocco, which helps maintain that stability and fosters the relationship. The SPP provides the Kingdom of Morocco assistance in the areas of disaster medicine, prehospital medicine, and rural access to health care.

The objective of this review is to highlight the role of the SPP plays in ensuring Morocco’s continued stability, enhancing its role as a leader among African nations, aiding its medically vulnerable rural populations to prevent recruitment by terrorist organizations, and maintaining its long-term relationship with the US.

BACKGROUND

The Kingdom of Morocco resides in a geologically and politically unstable part of the world, yet it has been a stable constitutional monarchy. Like California, Morocco has a long coastline of more than 1,000 miles. It sits along an active earthquake fault line with a disaster response program that is only in its infancy. The Kingdom has a high youth unemployment rate and lacks adequate public education opportunities, which exacerbate feelings of government indifference. Morocco’s medical system is highly centralized, and large parts of the rural population lack access to basic medical care—potentially alienating the population. The Moroccan current disaster plan ORSEC (plan d’Organization des Secours) was established in 1966 and updated in 2005 but does not provide a comprehensive, unified disaster response. The ORSEC plan is of French derivation and is not a list of actions but a general plan of organization and supply.1

When governments fail to provide basic services—health care being just one—those services may be filled by groups seeking to influence the government and population by threatening acts of violence to achieve political, religious, and ideologic gain; for example, the Taliban in Afghanistan, the Muslim brotherhood in Egypt and in the West Bank, and the Islamic State in Iraq and Syria (ISIS) in Syria.2-5 These groups gain a foothold and legitimacy by providing mosques, youth groups, clinics, hospitals, and schools.2-5

IDENTIFIED NEEDS

Morocco is at risk of experiencing an earthquake and possible subsequent tsunami. In 1755, Morocco was impacted by the Great Lisbon earthquake and tsunami. Witnesses reported 15-meter waves with 24-meter crests.6 Building codes and architecture laws have changed little since the 1960 Agadir earthquake, which killed 12,000 people. The disaster response program—although improved since the 1960s—is still in the early stages of development, and another earthquake and possible subsequent tsunami would result in a disaster that could overwhelm the medical community of Morocco.

Perceived Government Indifference

The Moroccan constitutional monarchy is more stable than are the governments of its North African neighbors. King Mohammed VI presides over the government, and regular elections are held for members of Parliament, which names a prime minister. However, in August 2019, overall unemployment was at 8.5%, and youth unemployment was 22.3%.7 A United Nations report in August 2019 stated that literacy rates for Morocco were 71.7%. These data were from a 2015 census, the last year data were collected.8 These deficits in employment and education can foster anger toward the Moroccan government for not adequately providing these services and
possibly introduce radicalization as a result of the population's perceived government indifference and lack of economic mobility.

Access to Medical Care
Morocco has a 2-tiered medical system for providing services: urban and rural. In 2018 the Legatum Prosperity Index ranked Morocco 103 of 149 countries in health care. The prosperity index measures health variables, which include but were not limited to basic physical and mental health, health infrastructure, and preventive care. Outside the metropolitan areas, emergency medical care is nonexistent, primary care is sporadic, and there is little modern technology available.

Despite humanitarian efforts over many years, there is little to no medical care in the rural “medical desert.” A 2017 study from the University of Washington Institute for Health Metrics and Evaluation compared the global burden of disease in similar countries. The study found that Morocco was significantly higher than the mean in the prevalence of ischemic heart disease and Alzheimer disease, lower than the mean in the areas of neonatal disorders, lower respiratory infections, and tuberculosis, and statistically indistinct from the mean in stroke, congenital defects, road injuries, diabetes mellitus, and hypertensive heart disease compared with the disease prevalence of other countries of similar size and economic measures.10 The study also found a particularly acute disparity in access to health care in rural areas. In 2016, the Oxford Business Group reported staff shortages and disproportionate distribution of resources in the Moroccan health care system.11

Additionally, the lack of trained health care personnel has added to an already over-stressed health care system. A chief stressor in a health care system is an insufficient replacement rate. Health employees working for the Moroccan Ministry of Health retire at a rate of 1,500 per year.10 These shortages may serve to further the feelings of frustration and government indifference. This frustration is momentarily decreased by humanitarian efforts that have taken place in the African continent in the past decades, but this band-aid approach to assisting the population that is medically underserved has done little to alleviate the long-term problem of access to care.

Lack of Health Care and Radicalism
It has been postulated that there is a link between radicalization and lack of medical care. Depression and perceived government indifference are considered contributors to radicalization. In 2005, Victoroff suggested that there are certain psychological traits characteristic of “typical” terrorists: these include high affective valence regarding an ideologic issue, a personal stake (perceived oppression, persecution or humiliation, need for identity, glory, or vengeance), low cognitive ability, low tolerance for ambiguity, and a capacity to suppress instinctive and learned moral constraints against harming innocents.15 In 2009, Lafree and Ackerman suggested that terrorism feeds on the ability of groups to portray governments and their agents as illegitimate.16 It is possible that part of the illegitimacy campaign of radicalization and terrorist recruitment may be identification of the lack of health care by the government thus magnifying feelings of government abandonment in a vulnerable population.

In 2011, the new Moroccan constitution identified access to basic health care as a right of the Moroccan people.17 Additionally, in 2013, a government white paper was produced outlining the need to increase access to health care, particularly in rural areas, including a focus on infant and maternal mortality, diabetes mellitus (DM), heart disease, and respiratory problems.17,18

PROPOSED SOLUTIONS, A BEGINNING
A health outreach program with a regional health professional training center in a relatively stable country within the African Union (AU) would be a step toward delivering health care to Morocco and interested AU members. Interested nations have been and will continue to be invited to train at the Moroccan center and return to their countries and start training programs. This idea was echoed by the World Bank in a 2015 loan proposal to Morocco, which suggested that addressing disparities in access to health care is a social justice issue, with other benefits such as increased productivity, employment, lower out-of-pocket expenditures, and
State Partnership Program

promotion of good governance.17

In 2012, Buhi reported that a positive regard for authorities and healthier influences seemed to be a protective factor against radicalization. He also suggested a public health approach to understanding and preventing violent radicalization.19 The solutions are complex, especially in rural areas and in vulnerable nations common to Africa.

Medical training efforts by the US Department of Defense (DoD), Medical Readiness Training Institute (DMRT), and international health specialists working with the military and civilian entities in neighboring African countries have improved response to regional disasters. However, to address the broader issues, a more permanent, cooperative possible solution may begin with the establishment in Morocco of a regional education center for disaster preparedness and for health care providers (HCPs). This would serve as a training program for disaster first responders. Graduates of the program would receive additional training to become HCPs similar to physician assistant (PA) and nurse practitioner (NP) programs in the US. Morocco is uniquely positioned to accomplish this due to its location, political stability, and ties with other African nations.

The goal of the Moroccan regional education center (within the King Mohammed V Hospital) is to bring together global health experts and increase the intellectual infrastructure of not only Morocco, but also offer this training program to interested countries within the AU. Advancement of the regional education center will require legislative changes to expand prescriptive privileges and scope of practice within each country. The medical element of the SPP as presently constituted without the regional education center will continue its humanitarian goals, but the proposed creation of the regional education center will educate participants to serve the rural communities within each participating country. Eventually the entire educational program will be the responsibility of the Moroccan military and the AU participants. This will require reprioritizing resources from the provision of humanitarian health care services to an HCP education approach.

Disaster Response

Deficits in disaster response capabilities have been identified by members of the Moroc-
Underserved Communities

Finally, from this pool of interested strike team members, a health care provider school will be formed to educate, certify, and service the needs of the underserved communities in Morocco and interested AU countries. This program will be similar to the PA and NP programs in the US and will be geared to those graduates from the previous programs with intense classroom instruction for one year followed by a year of one-on-one preceptorship with an experienced physician. The goal of the program is to prepare individuals with patient care experience to fulfill a bigger role in health care in an underserved (usually austere, rural) area that currently has minimal health care presence. This fills a need identified by the World Bank in 2015 that the Moroccan government needs to respond to the demand for improved access to and quality of health care services—particularly to the rural poor.17

The Moroccan military has a presence in many medically underserved areas. The logical fit for the HCP program will be drawn from a pool of active-duty military individuals who express an interest and qualify through attendance in all phases of the training.

CONCLUSION

This program of disaster medical education, strike teams, and HCPs is currently training more than 200 students a year throughout Morocco. The proposed direction of this cooperative program to produce HCPs in rural areas will increase access to health care for the Moroccan people who are now underserved. Morocco, as a health care training hub in Africa, will increase access to health care for interested African countries. The goal politically will be to reduce feelings of government indifference in vulnerable populations and reduce recruitment into radical ideologies.

Author disclosures

The authors report no actual or potential conflicts of interest with regard to this article.

Disclaimer

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