Health Paradox of Indigenous people in Bangladesh: Unravelling aspects of mass media campaigns in changing health behaviors to prevent non-communicable diseases

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Abstract

Bangladesh, a developing country, has one of the highest rates of age-standardized mortality due to non-communicable diseases (NCDs). The prevalence of NCDs is steadily increasing within all population groups, including indigenous communities in Bangladesh. Indigenous people, non-dominant communities of society, are individuals having distinctive social, economic or political systems, and preserving own languages, cultures and beliefs. Contemporary research proposes that negative health behaviors, especially tobacco use, unhealthy diets, physical inactivity, and alcohol consumption are becoming escalating problems in Bangladesh. Indigenous communities with low health literacy are less receptive to health information and are unlikely to embrace positive health behaviors. Three major barriers to change health behaviors toward preventing NCDs among indigenous people in Bangladesh are: unawareness of the severity and/or importance of NCDs; absence of health literacy or knowledge on NCDs; and lack of advocacy for health intervention programs for indigenous patients suffering from NCDs. Intertwined within socio-economic delusions and discrepancies, indigenous people miss out on health care to prevent NCDs. Mass media campaigns have both an extensive coverage and an awareness-constructing potential to educate and influence intended audiences’ attitudes on changing health related behaviors. Bangladesh can change health behaviors within indigenous communities by adopting some effective strategies, including using multifaceted mass media to intensify coverage of the health campaigns, underpinning stereotyping health beliefs and conveying unidentified details about NCDs, and developing risk-reduction strategies for indigenous patients suffering from NCDs. Multi-stakeholder and intergovernmental mechanisms and mass media campaigns can be effective options for changing health behaviors of indigenous people in Bangladesh.

Keywords: Non-communicable diseases, Mass media, Health behavior, Indigenous people, Bangladesh.

Introduction

Non-communicable diseases (NCDs) are the leading cause of global morbidity and mortality,1 NCDs, including cardiovascular and chronic respiratory diseases, account for around 60% of overall death in the world, with nearly 80% of the deaths occurring in developing countries.2 South Asia (Bangladesh, India, Pakistan, Nepal, and Sri Lanka) embodies a greater portion of the developing world, and is extensively affected by the upsurge of the burden of NCDs. Some studies were conducted on NCD prevalence in South Asian countries, especially in both industrialized settings,3 and urban and rural regions of India.4,5 Coinciding with aforementioned studies on NCD burden, research was carried out in Indonesia,6 Bangladesh,7,8 and Vietnam.9 However, the most of these studies fell short to identify the underlying risk factors of NCDs among indigenous people. Although there are extensive reports on the intensified prevalence of diabetes and/or hypertension among indigenous populations worldwide,10-11 Few studies have been carried out to change their health behaviors for the prevention of NCDs.

Indigenous people are individuals having distinctive social, economic or political systems, and preserving own languages, cultures and beliefs.12 Recent studies in Bangladesh showed high prevalence of hypertension (23.7%),13 diabetes (7.4%),18 and co-morbid depression among indigenous patients with diabetes (61.9%).15

Practice Points

- NCD prevalence is steadily increasing among indigenous people in Bangladesh.
- Indigenous communities with low health literacy are less receptive to health information and are unlikely to embrace positive health behaviors.
- Three major barriers to change health behaviors toward NCDs among indigenous people are identified: lack of awareness, absence of health literacy, and insufficient advocacy for health intervention programs.
- Bangladesh can change health behaviors among indigenous communities by using multifaceted mass media, underpinning quintessential health beliefs, and conveying unidentified details about NCDs.
- Intergovernmental mechanisms with effective monitoring can play a vital role in changing health behaviors of indigenous people in Bangladesh.

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Bangladesh was 50.3% compared to 34% and 36.5% in Pakistan\(^a\) and India\(^a\) respectively. Additionally, the prevalence of chewing oral smokeless tobacco among men was 16.3% and women was 21.4% in Bangladesh\(^a\), whereas the prevalence of consuming oral tobacco was overall 10% in Pakistan\(^a\). Harnessing with the shifting epidemiological profile, contemporary research proposes that negative health behaviors, including tobacco use, unhealthy diets, physical inactivity, and alcohol consumption are becoming escalating problems in Bangladesh.

Mass media campaigns have both an extensive coverage and an awareness-constructing potential to educate, and influence intended audiences’ attitudes on changing health related behaviors.\(^a\) Most of the mass media campaigns have not only embarked on tobacco use and heart-disease prevention issues, but have addressed cancer, and sexually-transmitted disease preventive methods.\(^\) Several studies have also revealed that exposure to mass media plays an important role in the utilization of maternal health care services (MICS)\(^a\), and NCD preventive services.\(^\) Despite the advantageous of mass media campaigns around the world, Bangladesh is yet to realize the positive facets of mass media campaigns for changing health behaviors to prevent NCDs within indigenous communities.

It is acknowledged that the topic is vast, with many perspectives. Because of limitations of space and indeed, of the existing studies, this review is an overview, based and centered on NCD burden among indigenous people in Bangladesh. The aim of this paper is to scrutinize different facets of mass media campaigns in changing health behaviors to prevent NCDs within indigenous communities in Bangladesh.

A search of PubMed and Ovid Medline (January 1994 to January 2017), and other search engines were conducted to retrieve potentially relevant studies on NCDs among indigenous people. Databases were searched for English-language articles using key words including: ‘Bangladesh’, ‘non-communicable disease’, ‘indigenous people’, and ‘mass media’. The paper excluded any spiritual, emotional, and environmental factors that might be associated with changing health behaviors among indigenous people. Four major areas highlighted in the studies are: an overview of indigenous people in Bangladesh; health care disparities within indigenous communities in Bangladesh; key barriers to change health behaviors among indigenous people; and effective strategies to prevent NCDs.

Indigenous people in Bangladesh

Indigenous communities signify a rich diversity of traditions, religions and histories, but still remain the world's most trivialized people.\(^b\) Sarcity of ethnographical data on indigenous people shrinks the chances of getting a clear picture of the underrepresented communities of Bangladesh. The total population of indigenous communities in Bangladesh was projected to be more than 2 million in 2010.\(^c\) The major tribes, Chakma, Marma, and Tripura, consist of a population of 0.253, 0.154, and 0.08 million people respectively.\(^d\) Around 45 groups of indigenous people live in southeastern, northwestern, north-central and north-eastern areas of the country. The percentage of indigenous population in 64 districts of Bangladesh fluctuates from less than 1% in majority of the districts to 56% in Rangamati, 48.9% in Kagrachari, and 48% in Bandarban in the Chittagong hilly regions.\(^e\)

Majority of indigenous communities live in rural and isolated locations, usually far away from urban opportunities.\(^f\) Local radio and television are two successful communication vehicles among indigenous people in Bangladesh, allowing the values to ramble within their localities. For example, Garo, an indigenous community, is more inclined to listening to radio than watching television due to the popularity of this communication medium.\(^g\) People living in tribal areas are susceptible to ill health due to low socioeconomic status and low levels of awareness, and lack of access to preventive aspects of care, which aggravates their health situation.\(^g\) Existing research has also consistently shown that indigenous people with lower health literacy lack in knowledge about diseases and are incapable of taking care of themselves properly.\(^h\) For instance, Mru and Garo tribes,\(^i\) who live below poverty line, have a tendency to under report their illness and health condition.\(^j\) In addition, several research on Mru\(^k\) and Santal\(^l\) indigenous communities showed that distinctive geographic location and rural lifestyles were influential factors for their insufficient access to health care facilities,\(^m\) as well as unhealthy behaviors leading to NCD risks.\(^n\) Thus, unhealthy practices affect indigenous peoples’ health condition and status adversely.

Health care disparities: nature and dynamics

Indigenous people, the minority communities, are traditionally dominated and discriminated, which has subliminally been affecting their health condition. Studies manifest that indigenous population suffer more from disease burden and health inequalities relative to mainstream population.\(^o\) The disease burden is swayed by numerous factors, including low levels of education, and unwillingness to seek out effective treatment in primary stages of illness.\(^p\) Mru women, for example, are deprived of health facilities as a result of illiteracy, and disparities in health care services.\(^q\) Another significant research on Santal tribe illustrated that insufficient health education and attitude were closely associated with lack of knowledge about predisposing factor for the development of Urinary Tract Infection (UTI).\(^r\) The other reason behind indigenous peoples’ poor health is their sedentary lifestyle and unhealthy food habits.\(^s\) Studies conducted by Biswas \textit{et al.}\(^t\) and Zaman \textit{et al.}\(^u\) on alcohol consumption and unhealthy lifestyle within indigenous communities have embarked on important public health issues. One study showed that indigenous participants (91) who consumed alcohol were mostly geriatric (43.6%) and adults (37.8%).\(^v\) The study further analyzed their smoking behaviors and tea habits, thus displaying 43.2% (99) regular smokers among indigenous participants.\(^w\) Previously the common communicable diseases prevailed within indigenous communities were mostly measles, whooping cough, smallpox and tuberculosis, and pneumonia.\(^x\) In the modern era, however, Bangladesh is undergoing an epidemiologic transition where the burden of disease is shifting toward NCDs, for example, heart disease, hypertension, cancer, kidney

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\(a\) South East Asia Journal of Public Health 2016;6(2):17-22
disease and depression. Indigenous communities are affected by health complications, thus experiencing higher maternal and NCD related morbidity and mortality compared to non-indigenous people. One study showed age-standardized prevalence of diabetes was significantly higher among tribal population (8.4%, 95% CI 6.48–10.37) compared with non-tribal population of Bangladesh (3.8%, 3.12–4.49). Research results (higher cholesterol and obesity) suggest that insulin resistance is perhaps a significant contributor to diabetes among indigenous people. Frequency of diabetes among indigenous people also points toward aggregating trend of NCD burden and complications in Bangladesh. Another research carried out by Fatema et al. on cardiovascular risk factors among Santal population in Bangladesh indicated that the prevalence of hypertension among males and females was 15.6% and 7.2% respectively. Hence, indigenous patients with NCDs are expected to be marginalized, as the disease epidemic matures and paves the way for inequalities in health care.

Barriers to change of health behaviors

The first barrier to change health behaviors toward preventing NCDs among indigenous people in Bangladesh is the unawareness of the severity and/or importance of NCDs. Although chronic obstructive pulmonary disease (COPD) and hypertension are significant public health challenges in Bangladesh, The National NCD Risk Factor Survey of 2010 showed that about 11% of women and 8% of men did not seek any treatment for NCDs in Bangladesh. The avoidance or delay in seeking medical care within indigenous communities remains more acute, especially considering their perception about health and illness. Evidence revealed that health awareness can minimize inequalities through well designed mass media campaigns, explicitly aiming to reach out the disadvantaged social groups or indigenous communities. A study carried out by Rahman et al. on tribal communities in Bangladesh displayed that girls, the most vulnerable group, lacked ample opportunities to discuss about their health and well-being. Health care programs are an effective approach to reduce NCD burden and unhealthy habits, while ensuring universal accessibility to health care services for indigenous people. Indigenous people in Bangladesh, however, are unaware of such behavioral programs and are oblivious in seeking medical treatment for any NCDs.

The second barrier to change health behaviors toward preventing NCDs among indigenous people in Bangladesh is lack of health literacy or ethnic communities with poor health literacy or ethnic communities with insignificant health information and/or education, and a fragile health framework for NCDs, especially a general apathy toward preventive measures. Some significant studies showed that indigenous women’s education was an important factor associated with utilizing MHCS. Indigenous people with poor health literacy or ethnic communities with inadequate access to health information are perhaps doubtful of remedial advices on NCDs, which escalates their negative health behaviors.

The third barrier to change health behaviors toward preventing NCDs within indigenous communities in Bangladesh is insignificant advocacy for health intervention programs. Whilst health messages can be conveyed through an array of channels, including traditional mass media, and social media, traditional mass media (e.g., television/radio, newspapers) has the potential to spread behavior changing messages and/or health messages quicker and farther than other communication approaches. Mass media, predominantly radio and television, have swayed individuals’ attitude, and behaviors concerning reproductive health through diverse educational programmes. Research indicated that exposure to mass media was more relevant than socio-economic factors among Mru indigenous women while using MHCS. Evidence also suggested upholding comprehensive outreach programs with health education to motivate Mru girls to avail MHCS. Nevertheless, the benefits of assimilating mass media with comprehensive outreach programs to prevent NCDs are hardly realized within the indigenous communities in Bangladesh.

Effective strategies to prevent NCDs

The health conditions and outcomes of indigenous people in Bangladesh are embedded within their explicit socioeconomic and cultural settings, where they have been raised in. Adopting some effective strategies, Bangladesh can change health behaviors within indigenous communities. Firstly, Bangladesh should use multifaceted mass media to intensify coverage of the health campaigns among indigenous people. Studies show that using numerous media channels escalates the frequency of exposure to campaign messages. A study on Garo people displayed that they were highly exposed to television messages than radio and newspaper posts, which shines a light on potential use of mass media in conveying NCD related health messages to indigenous people. Secondly, Bangladesh needs to underpin different types of stereotyping health beliefs prevalent within indigenous communities and to deliver unidentified details about NCDs to the target communities through mass media. Finally, Bangladesh should understand the causal pathways of health literacy and develop risk-reduction strategies for indigenous patients suffering from NCDs. Mass media campaigns can disseminate well defined behavior altering messages to large communities; nevertheless, the messages of health campaigns can sometimes provide inaccurate information, which might hinder the purpose of producing health campaigns. Therefore, observing the execution of the mass media campaigns to make sure that the proposal is being monitored and the campaigns have the ability to respond quickly when hitches develop in the arena is crucial in changing health behaviors among indigenous people in Bangladesh.

Conclusion

NCD prevalence is steadily increasing among indigenous people in Bangladesh. The NCD burden within indigenous communities, however, is unnoticed as a public health issue by the ‘development’ agencies in Bangladesh. It is not an instance of mere ignorance, rather a delicacy of...
positive attitude toward indigenous people’s health. Intertwined within socio-economic delusions and discrepancies, indigenous people miss out on essential health care to prevent NCDs. As the debate on inequalities arises and unjust behaviors continue, we should recall that the existence of inequalities hampers to facilitate healthy lifestyles and to deliver universal health coverage in Bangladesh. In response to the growing encumbrance of NCDs, Bangladesh government and non-government institutions can take necessary measures to implement suitable health literacy programs targeting indigenous peoples’ health. Multi-stakeholder and inter-governmental mechanisms and mass media campaigns can be effective options, especially in relation to changing health behaviors of indigenous people. Multi-faced mass media can underpin quintessential health beliefs and convey unidentified details about NCDs in their native languages. With effective monitoring and evaluation of planned mass media health programs or campaigns, Bangladesh can set an example for other developing countries encountered with similar health challenges within indigenous communities. Lessons learning from the national negotiations, it can be concluded that that spiritual, emotional, and environmental factors should be assimilated into the indigenous health agenda to improve their health in the future.

Competing Interest
The author declares that she has no competing interest.

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