Tobacco intervention research in low- and middle-income countries: lessons learned and future directions

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Treating tobacco dependence is paramount for global tobacco control efforts, but is often overshadowed by other policy priorities. As stated by Jha (2009), “cessation by current smokers is the only practical way to avoid a substantial proportion of tobacco deaths worldwide before 2050.” Its importance is codified in Article 14 of the Framework Convention on Tobacco Control (FCTC), and in the WHO’s MPOWER package of effective country-level policies. Unfortunately, only 15% of the world’s population have access to appropriate cessation support (WHO, 2015). Moreover, parties to the FCTC have implemented only 51% of the indicators within Article 14, on average, which is far lower than many other articles (WHO, 2014). Further, commenting on the use of “O” measures (Offer help to quit tobacco use) in the MPOWER acronym, WHO recently concluded, “while there has been improvement in implementing comprehensive tobacco cessation services, this is nonetheless a most under-implemented MPOWER measure in terms of the number of countries that have fully implemented it” (WHO, 2015). To the detriment of global tobacco control efforts, only one in eight countries provides comprehensive cost-covered services, only one in four provide some cost coverage for nicotine replacement therapy, and fewer than one third provide a toll-free quit line (WHO, 2015).

Recently in the Lancet, three renowned global tobacco control experts—Martin Raw, Judith Mackay, and Srinath Reddy—recommended that it is “time to take tobacco treatment seriously,” and they urged that FCTC parties implement Article 14 guidelines and “prioritise measures that will reach their entire populations, using measures that are affordable” (Raw, Mackay, & Reddy, 2016).

This theme issue of the Journal of Smoking Cessation demonstrates that tobacco treatment, and research to support effective treatment, is being taken seriously in several low- and middle-income countries (LMICs). Several case studies and original empirical contributions from prominent tobacco intervention research groups working in LMICs, as well as international funders, highlight the important work being conducted in several global quarters, and share important lessons learned to help guide future work.

In his commentary for this theme issue, Professor Harry Lando reminds us that “providing tobacco cessation treatment is feasible even in countries with the fewest resources”, and he does a laudable job of recommending a path forward to accomplish this (Lando, 2016). He places strong emphasis on building capacity for research and treatment, and disseminating low cost cessation strategies. There is a growing body of evidence supporting low cost nation-wide cessation interventions, including national automated text message support programs, which have been successfully implemented recently in Costa Rica (Gomez, 2015), the low-cost medication Cytisine (Walker et al., 2014; West et al., 2011), and routinizing the delivery of brief cessation advice during healthcare encounters (West et al., 2015).

The papers in this theme issue describe many challenges and successes around the globe in building capacity and adapting, evaluating, and disseminating effective treatments in LMICs. One strikingly common challenge is how to effectively integrate brief cessation counselling into healthcare practice. Patients view physicians as highly credible interventionists. However, although physicians can help patients quit (West et al., 2015), as a profession, they do not consistently or effectively provide cessation services (Abdullah & Husten, 2004; Aung et al., 2014). The problem is multi-layered: many LMICs have high rates of tobacco use by physicians and other healthcare providers (Abdullah, Qiming, Pun, Stillman, & Samet, 2013, Abdullah et al., 2014; Asfar, Al-Ali, Ward, Vander Weg, & Mazia, 2011), which make them reluctant to champion their patients’ quit attempts. Beyond this motivational issue, many physicians are skeptical that patients want their advice to quit smoking (Ossip et al., 2016; Prucha et al., 2015), do not view cessation as part of their jobs (Dozier
et al., 2009; Tee, & Hairi, & Hairi, 2012), and misunderstand the harms of tobacco (Abdullah & Husten, 2004; Asfar et al., 2011; Dogar, Elsey, Khanal, & Siddiqi, 2016; Lando, 2016).

Medical students have similar knowledge deficits as their mentors about cigarette smoking (Dania, Ozoh, & Bandele, 2015; Jardi & Al-Shehri, 2014), and about emerging tobacco use methods, such as waterpipe (Alzayani & Hamadehm, 2015; Babar & Riaz, 2015). An obvious solution is to educate and train physicians in tobacco treatment early in their careers. The first step is to discourage medical students from using tobacco given that many physicians begin smoking during medical school (Abdullah et al., 2014; Alzayani & Hamadehm, 2015; Senol, Donmez, Turkay, & Aktekin, 2006). It also is important to improve tobacco treatment training in medical schools, but this is challenging. A recent group-randomized trial of tobacco treatment education in 10 US medical schools found little evidence that an intensive multi-modal curriculum (a web-based course, classroom demonstrations, and a clerkship booster session) improved treatment delivery skills compared to traditional (and less intensive) brief, didactic tobacco education (Ockene et al., 2016). There have been some recent efforts to improve tobacco training among medical and other healthcare professional students in LMICs, such as Project Quit Tobacco in India and Indonesia (Nichter, Nichter, & Muramoto, 2010) and the Smokescreen Education Program in China (Richmond, 2004). However, researchers need to evaluate the effectiveness of these programs, and adapt them to different cultural settings.

Bolstering healthcare providers’ motivation and skills is only one of several useful approaches to improve tobacco treatment in LMICs (Raw et al., 2016; WHO, 2008), but it represents “low hanging fruit” in terms of cost-effectiveness and reach. This theme issue highlights progress on several fronts that is relevant to efforts to better integrate tobacco treatment into healthcare. Global Bridges is a global alliance of healthcare providers to expand the reach of evidence-based tobacco dependence treatment, and to facilitate implementation of FCTC Article 14 (Kemper et al., 2016). Funded by Pfizer Medical Education Group and organized by Mayo Clinic, in its five years of existence, Global Bridges has trained more than 22,000 healthcare providers in 62 countries (e.g., Hawari & Bader, 2014). A major goal of Global Bridges is to foster communication amongst network members to achieve broad reach; early evidence indicates this is being accomplished (Leischow et al., 2016). Ever-improving technology makes global communication easier, and lowers the cost of training interventionists and intervention researchers. Global Bridges has created a multilingual website and virtual community (www.globalbridges.org), and this and other systems are being used to remotely train, supervise, and mentor tobacco interventionists (Asfar, Ward, Al-Ali, & Maziak, 2016; Selby et al., 2015). Another web-based resource, www.treatobacco.net, spon-
Conflicts of interest

None.

References


