**Research**

## Countries’ response to WHO’s travel recommendations during the 2013–2016 Ebola outbreak

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### Objective
To determine how, during the 2013–2016 Ebola outbreak in western Africa, States Parties to the World Health Organization’s (WHO) 2005 International Health Regulations (IHR) followed the IHR’s international travel recommendations.

### Methods
In 2015, we used the Google search engine to investigate the 196 States Parties to the 2005 IHR. Information detailing Ebola-related travel regulations or restrictions of each State Party was sourced first from official government websites and then from travel and news websites. When limited, conflicting or no relevant information was found on a government website, an email inquiry was sent to a corresponding embassy in an Anglophone country.

### Findings
We collected relevant and non-conflicting data for each of 187 States Parties. Of these, 43 (23.0%) prohibited the entry of foreigners who had recently visited a country with widespread Ebola transmission and another 15 (8.0%) imposed other substantial restrictions on such travellers: the requirement to produce a medical certificate documenting no infection with Ebola \((n = 8)\), mandatory quarantine \((n = 6)\) or other restrictions \((n = 1)\).

### Conclusion
In responding to the 2013–2016 Ebola outbreak, countries had variable levels of adoption of the 2005 IHR’s international travel recommendations. We identified 58 (31.0%) States Parties that exceeded or disregarded the recommendations. There is a need for more research to understand and minimize deviations from such recommendations.

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### Abstracts in العربية, 中文, Français, Русский and Español at the end of each article.

## Introduction

Ebola virus disease – previously known as Ebola haemorrhagic fever – was first identified in 1976 in Zaire – the country now known as the Democratic Republic of Congo. The disease is severe and often fatal. The causative virus is initially transmitted from wild animals to humans but is then spread through the human population by direct contact with infected, symptomatic individuals or their blood, body fluids or secretions. Infected individuals are only infectious when symptomatic and become symptomatic two to 21 days after infection.

The 2013–2016 Ebola outbreak in western Africa was the longest and largest on record. The index case was identified as a boy, aged two years, who became ill, on 28 December 2013, in the remote Guinean village of Meliandou. The virus spread to neighbouring countries via travellers crossing land borders. By 20 January 2016, the World Health Organization (WHO) had reported 28,602 confirmed, probable or suspected cases of Ebola virus disease, including 11,301 fatal cases, in the outbreak. The end of an Ebola outbreak in a country is declared 42 days after the blood of the country’s last confirmed case has twice tested negative for the virus. On 14 January 2016, WHO declared Liberia to be free of transmission and, in consequence, the outbreak in western Africa to be ended. However, one day later, WHO confirmed the presence of a new case of Ebola in Sierra Leone – a country that had been declared Ebola-free on 7 November 2015. Guinean had been declared free of Ebola transmission on 29 December 2015. During the outbreak, small numbers of cases were reported in Mali, Nigeria and Senegal and also beyond western Africa – e.g. in Italy, Spain, the United Kingdom of Great Britain and Northern Ireland and the United States of America (USA).

The pattern of spread in western Africa suggested that international travel was key to the widespread transmission of Ebola virus in the outbreak. Nigeria’s index case flew from Liberia to the Nigerian city of Lagos after caring for a sibling who subsequently died from Ebola and, from this case, another 19 individuals in Nigeria became infected. Similarly, the index case in Senegal had direct contact with an Ebola patient in Guinea before travelling, by road, to Dakar – the capital city of Senegal. The index case in the United States presented, in September 2014, after having flown from Liberia – although the level of contact this case had with any Ebola cases in western Africa remains unclear. Two nurses who had cared for this case, in the American city of Dallas, developed Ebola virus disease. In October 2014, a health-care worker in Spain tested positive for the disease after caring for a repatriated medical missionary who had previously worked in a hospital in Sierra Leone. This Spanish index case was the first known case of secondary transmission of Ebola virus outside Africa. The index cases in Italy and the United Kingdom were both health-care workers who had returned from working in Ebola treatment centres in Sierra Leone.

In the 2005 International Health Regulations (IHR), which were implemented on 15 June 2007, 196 States Parties to the IHR agreed that early detection of – and response to – a disease can decrease the rate of transmission and lessen the negative impacts on health and society. Each of the States Parties to the IHR agreed to maintain disease surveillance, share public health information of international significance and support other countries. During public health emergencies, the IHR help to guide the WHO Director-General’s recommendations about international trade and travel.

The so-called public health emergency of international concern is an innovation of the 2005 IHR regarding global

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emergency responses to certain public health dangers. Such an emergency is defined as “an extraordinary event which is determined to constitute a public health risk to other States through the international spread of disease and to potentially require a coordinated international response.” When an emergency of this type is anticipated, WHO’s Director-General convenes a group of experts – known as the IHR Emergency Committee – to advise on the determination of a public health emergency of international concern and temporary recommendations on public health measures. To prevent disease spread and minimize the impact of the emergency on international travel and trade, each State Party is expected to follow this advice and implement appropriate disease surveillance and control at national level.

On 8 August 2014, WHO’s Director-General declared the Ebola outbreak then occurring in western Africa to be a public health emergency of international concern. This was the third such emergency to be declared; the fourth, for the spread of Zika virus, would not be declared until February 2016. Countries with Ebola transmission were advised to begin exit screening, at all international airports, land crossings and seaports, for febrile illness of unknown origin, that was consistent with Ebola virus disease. The advice included travel restrictions for all confirmed, probable, suspected or contact cases of Ebola virus disease until either Ebola virus disease could be ruled out or recovery verified – unless the travel formed part of a medical evacuation plan. General bans on international travel were not advised and, although such screening was not recommended, countries that implemented entry screening were asked to share any lessons learnt.

As soon as the Ebola-related public health emergency was declared and the recommendations publicized, most countries began to respond and make implementation decisions. National responses to the declaration varied from complete adoption to complete disregard – including implementation of general travel bans. There is little information available on how countries respond in general to WHO’s declarations of emergencies and, as yet, there has been no comprehensive study on national responses to such declarations.

In the present study, our aim was to investigate the compliance of the States Parties to the 2005 IHR with the international travel recommendations made by WHO when declaring the Ebola-related public health emergency. We were particularly interested in how such States Parties intended to handle foreign travellers who had recently visited countries with widespread Ebola transmission.

Methods

Between 9 March 2015 and 8 April 2015, we used the Google search engine (Google, Mountain View, USA) to search websites for relevant information on each of the 196 States Parties to the 2005 IHR. The initial search terms were the name of a State Party plus “Ebola” and at least one of the following: “WHO”, “World Health Organization”, “IHR” and “International Health Regulations”. For each State Party, a minimum of 20 and a maximum of 100 hits were visited. If an official website for the State Party – e.g. a website with a uniform resource locator that included the domain name gov – could not be found, the search terms were expanded to cover (i) the name of a State Party plus “Ebola” and “travel” and at least one of the following: “regulations”, “restrictions” and “recommendations” or (ii) the name of a State Party plus both “Ebola” and “travel” and at least one of the following: “of Health”, “of foreign affairs”, “of health and welfare” and “of immigration”.

The search was stopped when an official government site was found that gave details on Ebola-related travel regulations or restrictions. If an official government site was not identified, then travel and news websites were checked. Google Translate (Google, Mountain View, USA) was used for the translation of web pages into English as well as the translation of the search terms from English into a country’s official language. When limited, conflicting or no relevant information was found on a State Party’s official government website, we sent an email to an embassy of the State Party in an Anglophone country – i.e. Australia, Canada, the United Kingdom or the United States – inquiring about any travel regulations or restrictions for travellers who had been working in Ebola-affected countries.

If no useful information on a State Party was gathered after web searches and emails to embassies or if conflicting reports could not be clarified, the search for information on that State Party was halted.

We used Excel (Microsoft, Redmond, USA) databases to store the information we collected. States Parties were categorized according to WHO region and income grouping. As well as details of the Ebola-related measures enforced by each State Party, we recorded the date information was sourced, the date the information was posted on the website, the website address and any information from emails that assisted with identifying the regulations. We separated measures into those that permitted unconditional entry of all foreign travellers who had recently visited countries with widespread Ebola transmission and those in which entry was conditional. We collected data on whether and, if so, how screening was done on entry, whether a medical certificate was required, whether information on Ebola was distributed and if any monitoring or quarantine was implemented. Case studies, to illustrate each main category of response, were also assembled.

James Cook University Human Research Ethics Committee, Townsville, Australia, approved the study protocol, via approval H6043.

Results

We collected relevant non-conflicting data on 187 (95.4%) of the 196 States Parties to the 2005 IHR. We were unable to collect such data for Guinea, Guinea-Bissau, Libya, Niger, Palau, Somalia, Timor-Leste, Vanuatu or Yemen. For 126 (67.4%) States Parties, the main source of the data we analysed was an official government website. A travel website was the main source for 26 (13.9%) States Parties, while a news website and email correspondence with an embassy or health department were the main source for 22 (11.8%) and 13 (7.0%) States Parties, respectively.

Overall, we found that 58 (31.0%) of the States Parties in our analysis had exceeded or disregarded the 2005 IHR’s international travel recommendations. Entry of foreigners who had departed from a country with widespread transmission of Ebola was prohibited in 43 (23.0%) Table 1 and another 15 (8.0%) of the States Parties had applied exclu-
Table 1. Countries banning entry of travellers from countries with widespread Ebola virus transmission or allowing entry with substantial restrictions, March–April 2015

| Country                              | Entry restrictions                      | Data source                                      |
|--------------------------------------|-----------------------------------------|--------------------------------------------------|
| Afghanistan                          | Exclude if no certificate                | Government website                               |
| Algeria                              | Exclude if no certificate                | Travel website                                   |
| Antigua and Barbuda                  | No entry                                | Government website                               |
| Australia                            | No entry                                | Government website                               |
| Bahrain                              | No entry                                | Government website                               |
| Belize                               | No entry                                | Government website                               |
| Botswana                             | No entry                                | Government website                               |
| Cabo Verde                           | No entry                                | Travel website                                   |
| Cameroon                             | No entry                                | Travel website                                   |
| Canada                               | No entry                                | Government website                               |
| Central African Republic             | No entry                                | Travel website                                   |
| Chad                                 | No entry                                | Travel website                                   |
| Colombia                             | No entry                                | Government website                               |
| Democratic People’s Republic of Korea| Entry but mandatory quarantine          | Travel website                                   |
| Dominica                             | No entry                                | Government website                               |
| Dominican Republic                   | No entry                                | Government website                               |
| Equatorial Guinea                    | No entry                                | Travel website                                   |
| Gabon                                | No entry                                | Travel website                                   |
| Gambia                               | No entry                                | Travel website                                   |
| Guyana                               | No entry                                | News website                                      |
| Haiti                                | No entry                                | Government website                               |
| Indonesia                            | Exclude if no certificate                | Email correspondence with embassy                |
| Iraq                                 | Exclude if no certificate                | Travel website                                   |
| Jamaica                              | No entry                                | Government website                               |
| Kazakhstan                           | Exclude if citizen of Ebola-affected country | Email correspondence with embassy              |
| Kenya                                | No entry                                | Travel website                                   |
| Kiribati                             | Entry but mandatory quarantine          | Email correspondence with health department     |
| Kuwait                               | No entry                                | News website                                      |
| Maldives                             | No entry                                | Government website                               |
| Mauritania                           | No entry                                | Travel website                                   |
| Mauritius                            | No entry                                | Government website                               |
| Micronesia (Federated States of)     | No entry                                | Government website                               |
| Mongolia                             | No entry                                | Travel website                                   |
| Namibia                              | No entry                                | Travel website                                   |
| Nauru                                | No entry                                | Government website                               |
| Nepal                                | Exclude if no certificate                | Email correspondence with embassy                |
| Nicaragua                            | Entry but mandatory quarantine          | Travel website                                   |
| Panama                               | No entry                                | Government website                               |
| Peru                                 | Exclude if no certificate                | Email correspondence with embassy                |
| Philippines                          | Entry but mandatory quarantine          | Travel website                                   |
| Qatar                                | No entry                                | News website                                      |
| Republic of Korea                    | Entry but mandatory quarantine          | Government website                               |
| Romania                              | No entry                                | Government website                               |
| Rwanda                               | No entry                                | Government website                               |
| Saint Kitts and Nevis                | No entry                                | Government website                               |
| Saint Lucia                          | No entry                                | Government website                               |
| Saint Vincent and the Grenadines     | No entry                                | Government website                               |
| Sao Tome and Principe                | No entry                                | Travel website                                   |
| Saudi Arabia                         | No entry                                | Government website                               |
| Serbia                               | Entry but mandatory quarantine          | Government website                               |
| Seychelles                           | No entry                                | Government website                               |
| South Africa                         | No entry                                | Government website                               |
| South Sudan                          | No entry                                | Government website                               |

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sions or substantial restrictions to such travellers. Eight had the requirement to produce a medical certificate documenting no infection with Ebola, six had mandatory quarantine and one allowed the entry of foreigners who had been working in Ebola-affected countries while denying the entry of citizens from such countries (Table 1).

Details on monitoring after entry of foreigners from countries with widespread transmission were provided by 107 (74.3%) of the 144 States Parties allowing entry (Table 2).

Our analysis covered every high-income country and the majority of countries in each of the lower income groupings (Table 3). Within each income group there was at least one country that prohibited entry of foreigners who had departed from a country with widespread transmission of Ebola (Table 3).

Case studies
The following case studies provide examples of States Parties to the 2005 IHR that had fully adopted WHO’s recommendations on the Ebola-related public health emergency, had prohibition of entry that disregarded the recommendations or appeared to have other restrictions that exceeded WHO’s recommended response.

Full adoption of recommendations
On 8 August 2014, in a joint statement by the Minister of Foreign Affairs and International Development and the Minister of Social Affairs and Health, France welcomed the decisions and recommendations made, by the IHR Emergency Committee and WHO, on Ebola-related responses.23 France agreed to meet all WHO recommendations when implementing Ebola-related preventative measures, treatment preparations and public health information campaigns.20 Temperature screening was started for passengers on direct flights or ships from Ebola-affected countries, and, on arrival, such passengers were provided with information leaflets on Ebola, in case they became ill in the following 21 days.29

Prohibition of entry
On 28 October 2014, the Australian Department of Immigration announced the temporary suspension of all visa application assessments for citizens of Ebola-affected countries30 and the possible cancelation of the visas of individuals who were currently outside Australia and had been in an Ebola-affected country within the previous 21 days.31 These restrictions were subsequently extended to cover all individuals who were not Australian citizens or permanent residents – including foreigners who had recently visited Ebola-affected countries.32 If individuals were able to prove that they had not been in an Ebola-affected country within the previous 21 days and did not plan to travel to such a country before entering Australia, they were allowed to reapply or seek revocation of the decision to cancel their visa, pending their examination by a panel physician.32,33 Australia stated that this was not a travel ban and that the new regulations would not impede the assistance that Australia could give to Ebola-affected countries.31

Additional restrictions
From 1 February 2015, Afghanistan required that all foreign passport holders have a visa properly prepared, or in their possession, before their arrival in the country.34 To obtain a visa, each applicant was to have a recent health certificate, from a doctor, that proved that the applicant was free from Ebola.34 Without this certificate of health, a visa could be denied.34

Discussion
Although the Ebola outbreak that formed the basis of our study was the third public health emergency of international concern to be declared, our study appears to be the first attempt to assess the adherence of countries’ responses to the 2005 IHR. Of the States Parties with accessible information relevant to our study, 23.0% had imposed a ban on the entry of foreigners travelling from countries with widespread transmission of Ebola. This response conflicts with the 2005 IHR, which state that there is to be no such general ban on international travel.20 Of the States Parties that allowed entry of such foreigners, 8.0% had other substantial restrictions or entry exclusions, none of which followed the detailed recommendations of the IHR Emergency Committee or WHO on the Ebola emergency. However, the 2005 IHR do not preclude countries from implementing health measures that “achieve the same or greater level of health protection than WHO recommendations” as long as those “measures shall not be more restrictive of international traffic and not more invasive or intrusive to persons than reasonably available alternatives that would achieve the appropriate level of health protection.”29

The consequences of countries creating their own policies and regulations, irrespective of any international recommendations, include the possibility of practices being implemented that are not based on scientific evidence. For example, Afghanistan required a medical certificate stating that the person was free from Ebola.34 However, the incubation period of Ebola virus disease is up to 21 days and diagnostic tests based on the polymerase chain reaction may give a negative result, for an infected individual, until the third day of symptoms.35 In consequence, a medical certificate based on the result of such a diagnostic test does not guarantee that the person has not been infected or that the person will not develop Ebola.
The result of such certification may be a false sense of security in the traveller, the border officials at the point of entry and the community at large. Another potential consequence of countries choosing to sidestep the intentions of the 2005 IHR is the introduction of discriminatory policies. At one stage of the Ebola outbreak, Australia was restricting the entry of everyone who was not an Australian citizen or an Australian permanent resident. Although the Iraqi government required a health-clearance certificate for almost all travellers entering Iraq who had visited an Ebola-affected country, holders of diplomatic passports were exempt from providing a certificate. Such exemptions for potentially at-risk individuals conflict with the IHR, which encourage countries to work together to prevent and respond to global health emergencies. The lack of any clear negative consequences for States Parties that decide to disregard the recommendations within the 2005 IHR is a weakness of the regulations. WHO states that peer pressure and public knowledge are the best incentives for adoption of the recommendations, since the “consequences of non-compliance include a tarnished international image, increased morbidity/mortality of affected populations, unilateral travel and trade restrictions, economic and social disruption and public outrage”. Given the regulations and restrictions imposed by States Parties during the 2013–2016 Ebola outbreak, many countries appear undeterred by the consequences of their non-adoptions of the recommendations.

In general, access for travellers to information regarding countries’ Ebola-related travel regulations appeared to be inadequate. While information regarding these regulations was available for almost all of the States Parties to the 2005 IHR, a quarter of that information came from unofficial sites, such as news and travel sites, and was sometimes incomplete. Travellers need accurate information on a country’s entry requirements before they arrive at that country’s border.

Our study had several limitations. For nine States Parties we were unable to find relevant information or it was incomplete and of poor quality or reliability. Our approach to data did not take into account the communication of travel regulations and whether or not, in any State Party, the national IHR focal point was consulted during Ebola-related decision-making. We did not attempt to assess the level and consistency of the implementation of the adopted recommendations at international entry points. Furthermore, the information we analysed was collected about seven months after the Ebola-related public health emergency was announced. At that time, with the incidence of Ebola disease in decline, some countries had loosened their restrictions on – and recommendations for – travellers. In addition, our reliance on Google Translate to access information that was not in English may have led to relevant information being missed or misunderstood. In future related studies, we would recommend contact with IHR focal points and/or local agencies for the control of communicable diseases.

In conclusion, our study shows that countries had variable levels of adoption of the WHO international travel recommendations made in response to the 2013–2016 Ebola outbreak. We identified about a third of States Parties that exceeded or disregarded the recommendations. There is a need for more research to understand and minimize deviations from such recommendations.

Competing interests: None declared.

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Table 2. Ebola-related interventions on the borders of 144 countries allowing entry of travellers from countries with widespread Ebola transmission, March–April 2015

| Intervention                        | No. (%) of countries |
|-------------------------------------|----------------------|
| Assessment of risk level            | 4 (2.8)              |
| EVD information provided            | 15 (10.4)            |
| Investigation of travel health history | 22 (15.3)            |
| Medical examination                 | 5 (3.5)              |
| Monitoring                          |                      |
| Only by travellers                  | 12 (8.3)             |
| Only by health department           | 25 (17.4)            |
| By both travellers and health department | 1 (0.7)              |
| Quarantine                          | 6 (4.2)              |
| Recording of body temperature       | 24 (16.7)            |
| Registration                        | 3 (2.1)              |
| Screening                           | 85 (59.0)            |

Table 3. Prohibition of the entry of foreign travellers from Ebola-affected countries, March–April 2015

| Country classification | No. of countries | Countries with data available No. (%) | Countries prohibiting entry No. (%) |
|------------------------|------------------|---------------------------------------|------------------------------------|
| WHO region             |                  |                                       |                                    |
| African Region         | 47               | 44 (93.6)                             | 18 (38.3)                          |
| Region of the Americas | 35               | 35 (100.0)                            | 15 (42.9)                          |
| South-East Asia Region | 11               | 10 (90.9)                             | 1 (9.1)                            |
| European Region        | 53               | 53 (100.0)                            | 1 (1.9)                            |
| Eastern Mediterranean Region | 21       | 18 (85.7)                             | 4 (19.0)                           |
| Western Pacific Region | 27               | 25 (92.6)                             | 4 (14.8)                           |
| All                    | 194              | 185 (95.4)                            | 43 (22.2)                          |
| Country income group   |                  |                                       |                                    |
| High                   | 55               | 55 (100.0)                            | 10 (18.2)                          |
| Upper middle           | 36               | 32 (88.9)                             | 7 (19.4)                           |
| Lower middle           | 57               | 55 (96.5)                             | 18 (31.6)                          |
| Low                    | 46               | 43 (93.5)                             | 8 (17.4)                           |

WHO: World Health Organization.

* Excluding two of the States Parties to the 2005 International Health Regulations – i.e. the Holy See and Lichtenstein – as they only have observer status for the European Region.

virus disease up to three weeks later. The result of such certification may be a false sense of security in the traveller, the border officials at the point of entry and the community at large.

Another potential consequence of countries choosing to sidestep the intentions of the 2005 IHR is the introduction of discriminatory policies. At one stage of the Ebola outbreak, Australia was restricting the entry of everyone who was not an Australian citizen or an Australian permanent resident. Although the Iraqi government required a health-clearance certificate for almost all travellers entering Iraq who had visited an Ebola-affected country, holders of diplomatic passports were exempt from providing a certificate. Such exemptions for potentially at-risk individuals conflict with the IHR, which encourage countries to work together to prevent and respond to global health emergencies. The lack of any clear negative consequences for States Parties that decide to disregard the recommendations within the 2005 IHR is a weakness of the regulations. WHO states that peer pressure and public knowledge are the best incentives for adoption of the recommendations, since the “consequences of non-compliance include a tarnished international image, increased morbidity/mortality of affected populations, unilateral travel and trade restrictions, economic and social disruption and public outrage”. Given the regulations and restrictions imposed by States Parties during the 2013–2016 Ebola outbreak, many countries appear undeterred by the consequences of their non-adoptions of the recommendations.

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Competing interests: None declared.
Responses to travel recommendations during Ebola outbreak

Wendy Rhymer & Rick Speare

Abstract

Aims Investigating countries’ responses to WHO travel recommendations during the 2013–2016 Ebola outbreak.

Methods We searched the Google search engine for 196 countries’ responses to the WHO’s 2005 International Health Regulations (IHR). As a measure of the quality of the IHR, we compared national responses with the WHO’s 2015 guidance in 82 countries.

Results 15 (8.0%) countries allowed entry to recently travelled individuals, and 58 (31.0%) implemented other measures. Eight countries (4.1%) required medical certification, and 58 (31.0%) required other measures. Among the 15 countries that allowed entry, 10 required a medical certificate, but 5 allowed medical certification only for returning nationals. Among the 58 countries that implemented other measures, the most common was self-quarantine for up to 21 days.

Conclusions Countries’ responses varied widely, and the majority disregarded or ignored WHO guidance.

Résumé

Mesures prises par les pays suite aux recommandations de l’OMS aux voyageurs lors de la flambée de maladie à virus Ebola de 2013–2016

Objectif Déterminer comment, lors de la flambée de maladie à virus Ebola qui a sévi de 2013 à 2016 en Afrique de l’Ouest, les États parties au Règlement sanitaire international (RSI) de 2005 de l’Organisation mondiale de la Santé (OMS) ont suivi les recommandations du RSI concernant les voyages internationaux.

Méthodes En 2015, nous avons utilisé le moteur de recherche Google pour mener une enquête sur les 196 États parties au RSI de 2005. Nous avons d’abord recherché des informations sur la réglementation ou les restrictions relatives aux voyages appliquées par chaque État partie pour faire face à la flambée de maladie à virus Ebola sur les sites Internet officiels des gouvernements, puis sur des sites Internet de voyage et d’information. Lorsque les informations disponibles sur le site Internet de l’État étaient insuffisantes, contradictoires ou non pertinentes, une demande a été envoyée par e-mail à l’ambassade correspondante dans un pays anglophone.

Résultats Nous avons recueilli des données pertinentes et non contradictoires sur 187 États parties. Sur ces 187 États parties, 43 (23.0%) ont interdit l’entrée sur leur territoire aux étrangers ayant récemment séjourné dans un pays où la transmission de la maladie à virus Ebola pernait une ampleur considérable et 15 (8.0%) ont imposé d’autres restrictions importantes à ce type de voyageurs: présentation obligatoire d’un certificat médical attestant que le voyageur n’est pas infecté par le virus Ebola (n = 8), quarantaine obligatoire (n = 6) ou autres restrictions (n = 1).

Conclusion Face à la flambée de maladie à virus Ebola qui a sévi entre 2013 et 2016, les pays ont adopté à différents niveaux les recommandations du RSI de 2005 concernant les voyages internationaux. Nous avons repéré 58 (31.0%) États parties ayant dépassé ou ignoré les recommandations. Il est nécessaire de mener davantage de recherches pour comprendre et réduire les entorses faites à ces recommandations.

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Цель Определить, как во время вспышки лихорадки Эбола в Западной Африке в 2013–2016 годах страны-участники соблюдали рекомендации по международным поездкам в рамках Международных медико-санитарных правил (ММСП) от 2005 года.

Методы В 2015 году с помощью поисковой системы Google было проведено исследование 196 стран-участников соблюдения ММСП 2005 года. Из каждой страны-участника была получена информация о постановлениях или ограничениях поездок в связи с лихорадкой Эбола, в первую очередь с официальных правительственных, а затем с туристических и новостных веб-сайтов. В случае если информация на правительственном сайте была неполной, противоречивой или не освещала исследуемую тему, в соответствующее посольство в англоговорящей стране направлялся запрос по электронной почте.

Результаты Релевантные и непротиворечащие данные были получены для каждой из 187 стран-участников соблюдения ММСП.

Вывод В ответ на вспышку эпидемии Эбола в 2013–2016 годах страны в разной степени внедрили рекомендации в отношении международных поездок, предложенные в рамках ММСП 2005 года. Авторы установили, что 58 стран-участников (31,0%) вышли за рамки данных рекомендаций или вовсе проигнорировали их. Требуются дополнительные исследования, чтобы понять и минимизировать данные отклонения исследования, чтобы понять и минимизировать данные отклонения.

Resumen

Respuesta de los países a las recomendaciones sobre viajes de la OMS durante el brote de ebola entre 2013 y 2016

Objetivo Determinar cómo los Estados Partes del Reglamento Sanitario Internacional (RSI) de la Organización Mundial de la Salud (OMS) siguieron las recomendaciones sobre viajes internacionales del RSI de 2005 durante el brote de ebola en el oeste africano entre 2013 y 2016.

Métodos En 2015, se utilizó el motor de búsqueda de Google para investigar los 196 Estados Partes del RSI de 2005. La información que detallaba los reglamentos sobre viajes relacionados con el ebola o las restricciones de cada Estado Parte se obtuvo primero de los sitios web gubernamentales oficiales y, posteriormente, de sitios web sobre viajes y noticias. Cuando la información era escasa, contradictoria o no se encontraba en el sitio web gubernamental, se envía un correo electrónico de solicitud a la embajada correspondiente de un país angloparlante.

Resultados Se recopilaron datos importantes y coherentes de 187 Estados Partes. Entre ellos, 43 (23,0%) prohibieron la entrada de extranjeros que habían visitado recientemente un país con un nivel generalizado de contagio del ebola y otros 15 (8,0%) impusieron otras restricciones importantes para dichos viajeros: el requisito de obtener un certificado médico que documentara que el individuo no estaba infectado con el virus (n=8), cuarentena obligatoria (n=6) u otras restricciones (n=1).

Conclusión Como respuesta al brote de ebola entre 2013 y 2016, los países contaban con distintos niveles de adopción de las recomendaciones sobre viajes internacionales del RSI de 2005. Se identificaron 58 (31,0%) Estados Partes que superaron o incumplieron las recomendaciones. Existe la necesidad de una búsqueda más exhaustiva para comprender y minimizar los incumplimientos de dichas recomendaciones.

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