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Abstract
Influenza A (H1N1) caused significant mortality and morbidity globally. We identified the hotspots for H1N1 influenza in India using cases and deaths reported in the Integrated Disease Surveillance Program between 2010 and 2017. A total of 114,667 cases and 8543 deaths were reported from across India, at an overall case fatality rate of 7.5%. While Maharashtra accounted for 21% of cases and 31% of deaths, Delhi and Gujarat were ranked the highest based on the population-adjusted ranks for morbidity and mortality, respectively. The current analysis identified states and union territories in western India (Delhi, Punjab, Rajasthan, Gujarat and Maharashtra) to be especially vulnerable.

Keywords
H1N1, influenza hotspots, pandemic, India

Introduction
H1N1, which reached pandemic status in June 2009, also affected India, a recognised hotspot for emerging infectious diseases (EIDs). We analysed publicly available data on H1N1 from the Integrated Disease Surveillance Program (IDSP), the national disease surveillance and monitoring program of India, to identify the reported hotspots of H1N1 outbreaks.

Materials and methods
H1N1 cases were reported to the IDSP from all 36 states and union territories (S/UTs) through a network of laboratories from 2010 to 2017. These data are available in the public domain through the IDSP. We undertook a descriptive analysis to identify the burden of the disease across different states and computed the case fatality rates (CFRs). Based on the population reported in the 2011 census, we reported the number of cases and deaths per 100,000 people. Based on this population-adjusted value, each S/UT was given a rank for the reported cases and deaths for each year between 2010 and 2017. Two average ranks for the state, for reported cases and reported deaths were computed and the mean of these two average ranks was calculated to create an index rank representative of the burden of H1N1 in the S/UTs. States with higher estimates received a higher rank; thus, a state with a higher burden would have a higher rank, indicated by a smaller numerical value. For S/UTs which had tied ranks, the mean rank (mr) was accorded to all tying members.

Results
Between 2010 and 2017, there were a reported 114,667 cases and 8543 deaths due to H1N1 from India, at an overall CFR of 7.5%. While Maharashtra accounted for 21% of cases (n=23,812) and 31% of deaths (n=2648), Delhi (mr=3; total cases=11,703) and Gujarat (mr=3.75; total deaths=1651) were ranked the highest based on the population-adjusted ranks for morbidity and mortality, respectively.

Discussion
It is apparent that there are slight deviations in the heat map generated based on the current analysis than
the ones generated using the burden of lower respiratory infections estimated by the India State-Level Disease Burden Initiative.\(^4\) This discrepancy may be explained by the difference in laboratory capacity across various regions in diagnosing H1N1 using polymerase chain reaction (PCR) technology. In addition, the capacity of providing healthcare services and access to diagnostic and therapeutic facilities, as well as efficiency of reporting mechanisms for cases to the IDSP is also likely to vary across S/UTs, affecting these estimates. Finally, as recent evidence has shown, other types of influenza (like type B, H3N2) also circulate in India, often dominating seasonal trends, thus possibly resulting in the slight differences from the hotspots identified previously.\(^5\)

The continuing spate of cases and deaths from H1N1 demands that a renewed focus be accorded to this issue. Vaccination in susceptible populations needs to be explored as a potential public health response. Strengthening of surveillance to improve reported estimates is a priority as it would advise the process of investing in the public health response to H1N1 in India.

*Figure 1.* Heat map of India showing States and Union Territories of India vulnerable to H1N1 influenza. States and Union Territories which have a lower rank, and hence a higher vulnerability to H1N1 influenza, have been shown in red, and those with a higher rank, indicating a lower vulnerability to H1N1 influenza have been shown in light blue. States and Union Territories with intermediate vulnerability has been shown in decreasing shades of blue. Vulnerability was computed as the average of the mean rank for reported cases and reported deaths over the eight-year period (2010–2017).
Home grown: the development and structure of urological training in the Caribbean

Satyendra Persaud1, Lawson Douglas2, William Aiken2, Belinda Morrison2 and Lester Goetz1

Abstract
Training in general surgery at the University of the West Indies commenced in Jamaica in 1972 and urology training followed just over a decade later. Since then, the ‘Doctor of Medicine’ diploma offered by the university has also expanded to include the Trinidadian campus. Most urologists in the English-speaking Caribbean are, in fact, graduates of this programme. Residents follow a two-part training plan and two years of core surgical training are followed by four years of urology training. Despite the tremendous regional impact of this training programme, there is a lack of awareness of its existence among the wider urology community. This article reviews the history, development and structure of urology training in the English-speaking Caribbean.

Keywords
Urology, training, residency, West Indies, Caribbean

Introduction
The University of the West Indies (UWI) was founded in 1948 with its first campus located in Mona, Jamaica.1 Originally developed as a branch of the University of London, called the University College of the West Indies, it was subsequently renamed and received independent university status in 1962. The St Augustine campus was opened in 1960 and the Cave Hill Campus in Barbados followed in 1963. The most