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Most epidemics occurred in a few hotspots in lakeside areas, where the weekly incidence of cholera varied by season, rainfall, fluctuations of plankton, and fishing activities. During lull periods, persistence of cholera was explained by outbreak dynamics, which suggested a metapopulation pattern, and by endemic foci around the lakes. These links between cholera outbreaks, climate, and lake environments need additional, multidisciplinary study.

Dynamics of cholera outbreaks in Great Lakes region of ...

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Dynamics of Cholera Outbreaks in Great Lakes Region of ...
The second hypothesis explains the persistence of cholera during the lull periods by outbreak dynamics evoking a metapopulation pattern (cholera stability on a regional scale originates from interactions between asynchronous local foci prone to extinction) and by densely populated endemic foci around the lakes.

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Dynamics of cholera outbreaks in Great Lakes region of ...
Merely said, the dynamics of cholera outbreaks in endemic areas of kenya is universally compatible with any devices to read Significance, Prevention and Control of Food Related Diseases-Hussaini Makun 2016-04-13 Food-borne diseases are major causes of morbidity and mortality in the world. It is estimated that about 2.2 million people die

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hours after infection. Cholera outbreaks are generally associated to contaminated food and water supplies. Appropriate sanitation and safe water are the main weapons

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against this disease. Until the 19th century, cholera was confined to the Indian sub-continent [1]. There, cholera outbreaks are seasonal with one or two peaks per year [2]. From this region,

Endemic and epidemic dynamics of cholera: the role of the ...
The countries of West Africa are largely portrayed as cholera endemic, although the dynamics of outbreaks in this region of Africa remain largely unclear. Methodology/Principal findings To understand the dynamics of cholera in a major portion of West Africa, we analyzed cholera epidemics from 2009 to 2015 from Benin to Mauritania.

Dynamics of cholera epidemics from Benin to Mauritania

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Cholera Dynamics This work aims to improve our understanding of *Vibrio cholerae* transmission to inform the design of better prevention and control programs We study cholera transmission dynamics at multiple levels from individual-level data collected during cholera outbreaks to global incidence data, using a variety of methods including statistical and mechanistic models.

Cholera Dynamics | Infectious Disease Dynamics
RESEARCH Dynamics of Cholera Outbreaks in Great Lakes Region of Africa, 1978–2008 Cholera outbreaks have occurred in Burundi, Rwanda, Democratic Republic of Congo, Tanzania, Uganda, and Kenya almost every year since 1977–1978, when the disease emerged in these countries.

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RESEARCH Dynamics of Cholera Outbreaks in Great Lakes

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To understand the dynamics of cholera in a major portion of West Africa, we analyzed cholera epidemics from 2009 to 2015 from Benin to Mauritania. We conducted a series of field visits as well as multilocus variable tandem repeat analysis and whole-genome sequencing analysis of *V. cholerae* isolates throughout the study region.

Dynamics of cholera epidemics from Benin to Mauritania
Cholera outbreaks have occurred in Burundi, Rwanda, Democratic Republic of Congo, Tanzania, Uganda, and Kenya almost every year since 1977-1978, when the disease

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emerged in these countries. We used a multiscale, geographic information system-based approach to assess the link between cholera outbreaks, climate, and environmental variables.

Altmetric □ Dynamics of cholera outbreaks in great lakes ...
Mathematical modeling studies have contributed to better understanding of the cholera transmission dynamics [2,3,4,5,6,7]. Many models during the 2010 Haitian cholera outbreak explicitly accounted for the presence of asymptomatic individuals and also the transmission through water environment, because these features, especially the former have been the issue of unrecognized part of the outbreak [8].

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Transmission dynamics of cholera in Yemen, 2017: a real ...
The temporal switching of serotypes from serotype Ogawa to Inaba and back to Ogawa was identified in *Vibrio cholerae* O1, which was responsible for seasonal outbreaks of cholera in Dhaka during the period 2015 to 2018.

Genome Dynamics of *Vibrio cholerae* Isolates Linked to ...
Cholera outbreaks have occurred in Burundi, Rwanda, Democratic Republic of Congo, Tanzania, Uganda, and Kenya almost every year since 1977-1978, when the disease emerged in these countries. We used a multiscale, geographic information system-based approach to assess the link between cholera outbreaks, climate, and environmental

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Dynamics of cholera outbreaks in Great Lakes region of ...
We find that outbreaks of pathogens with longer incubation periods, such as Ebola, tend to have less predictable spread, whereas pathogens with shorter incubation periods, such as cholera, spread in a more predictable, wavelike pattern.

Incubation periods impact the spatial predictability of ...
In the last decades, attention to cholera epidemiology increased, as cholera epidemics became a worldwide health problem. Detailed investigation of *V. cholerae* interactions with its host and with other organisms in the environment suggests that cholera dynamics is much more complex than

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previously thought.

Endemic and epidemic dynamics of cholera: the role of the ...
Dynamics of an age-of-infection cholera model A new model for the dynamics of cholera is formulated that incorporates both the infection age of infectious individuals and biological age of pathogen in the environment. The basic reproduction number is defined and proved to be a sharp threshold determining whether or not cholera dies out.

Dynamics of an age-of-infection cholera model
As with malaria and dengue, cholera dynamics in Bangladesh also show evidence of seasonal and interannual variability: more individuals become infected with the bacterium during

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the spring and during the autumn than during the summer monsoon season or the dry winter , and outbreaks are much larger in some years than in others .

The impact of climate on the disease dynamics of cholera ...
The disease continues to plague Yemen today in what has become the largest documented cholera epidemic of modern times. We aimed to describe the key epidemiological features of this epidemic, including the drivers of cholera transmission during the outbreak.

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