

Dynamics Of Cholera Outbreaks In Endemic Areas Of Kenya

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Dynamics Of Cholera Outbreaks In

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.

Dynamics of Cholera Outbreaks in Great Lakes Region of ...

Dynamics of cholera outbreaks in Great Lakes region of Africa, 1978-2008. Bompangue Nkoko D(1), Giraudoux P, Plisnier PD, Tinda AM, Piarroux M, Sudre B,Horion S, Tamfum JJ, Ilunga BK, Piarroux R. Author information: (1)Université de Franche-Comté, Besançon, France. Cholera outbreaks have occurred in Burundi, Rwanda, Democratic Republic of Congo,Tanzania, Uganda, and Kenya almost every year since 1977-1978, when the diseaseemerged in these countries.

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

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

Genome Dynamics of Vibrio cholerae Isolates Linked to Seasonal Outbreaks of Cholera in Dhaka, Bangladesh Ramani Baddam , a Nishat Sarker , a Dilruba Ahmed , a Razib Mazumder , a Ahmed Abdullah , a Rayhan Morshed , a Arif Hussain , a Suraiya Begum , a Lubaba Shahrin , a Azharul Islam Khan , a Md Sirajul Islam , a Tahmeed Ahmed , a Munirul Alam , a John D. Clemens , a and Niyaz Ahmed a

Genome Dynamics of Vibrio cholerae Isolates Linked to ...

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.

RESEARCH Dynamics of Cholera Outbreaks in Great Lakes ...

Different models based on alternative sets of assumptions may be able to fit observations equally well. For example, simple SIR models of cholera can produce outbreak dynamics nearly indistinguishable from those that include ciclo largo transmission. However, a particular intervention may target one of these routes of transmission more than the other.

Modeling cholera outbreaks

In endemic situations, cholera transmission is influenced by complex factors including multiple co-circulating strains, local immunity from past outbreaks, 9 weather cycles (both seasonal and climatic oscillations 10-12), and phage that destroy V. cholerae. 13 In epidemic outbreaks in susceptible populations, many of these factors are ignored; models assume a single infecting strain, an entirely susceptible population, and a short time scale for the epidemic such that climatic and phage ...

Cholera Modeling: Challenges to Quantitative Analysis and ...

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

In 2017, the exacerbation of an ongoing countrywide cholera outbreak in the Democratic Republic of the Congo resulted in >53,000 reported cases and 1,145 deaths. To guide control measures, we analyzed the characteristics of cholera epidemiology in DRC on the basis of surveillance and cholera treatment center data for 2008-2017.

Recurrent Cholera Outbreaks, Democratic Republic of the ...

Dynamics of Cholera Outbreaks in Great Lakes Region of Africa, 1978-2008 Didier Bompangue Nkoko, Patrick Giraudoux, Pierre-Denis Plisnier, Annie Mutombo Tinda, Martine Piarroux, Bertrand Sudre, Stephanie Horion, Jean-Jacques Muyembe Tamfum, Benoît Kebela Ilunga, and Renaud Piarroux

Figure 2 - Dynamics of Cholera Outbreaks in Great Lakes ...

Japan suffered at least seven major outbreaks of cholera between 1858 and 1902. Between 100,000 and 200,000 people died of cholera in Tokyo in an outbreak in 1858-60. In 1854, an outbreak of cholera in Chicago took the lives of 5.5 percent of the population (about 3,500 people).

Cholera outbreaks and pandemics - Wikipedia

All people (visitors or residents) in areas where cholera is occurring or has occurred should be aware of the basic cholera facts and follow these five basic cholera prevention steps to protect themselves and their family 1, 2.. The risk for cholera is very low for people visiting areas with epidemic cholera.When these simple precautions are observed, contracting the disease is very unlikely.

Five Basic Cholera Prevention Steps | Cholera | CDC

Genome Dynamics of Vibrio Cholerae Isolates Linked to Seasonal Outbreaks of Cholera in Dhaka, Bangladesh The temporal switching of serotypes from serotype Ogawa to Inaba and back to Ogawa was identified in <i>Vibrio cholerae</i> 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 ...

The disease dynamics of cholera are modeled with a difference equation of the form: where I t is the number of infected individuals, S t is the number of susceptible individuals, N t is the population size, and β t is the transmission rate of the pathogen, all at time t. The schematic of this mathematical model is shown in Fig. 2.

The impact of climate on the disease dynamics of cholera ...

Cholera outbreaks have been repeatedly reported far from the coasts: from 2009 through 2011, three-quarters of all cholera cases in Africa occurred in inland regions. Such outbreaks are either influenced by rainfall and subsequent floods or by drought- and water-induced stress. Their concurrence with global climatic events has also been observed.

Environmental Determinants of Cholera Outbreaks in Inland ...

The 2014 cholera epidemics probably evolved from a local outbreak in northern Uganda to a national outbreak in South Sudan; population movement, living conditions, and events in the capital, Juba, most likely played a key role in the spread of the disease to other areas in South Sudan and beyond.

Cholera Epidemic in South Sudan and Uganda and Need for ...

From 1991-1997, cholera spread following a multi-wave pattern, with weekly incidence concentrated during warm seasons. The epidemic first hit the coastal departments of Peru and subsequently spread through the highlands and jungle regions. The correlation between model predictions and observations was high (range in R2: 58% to 97%).

Spatial dynamics and the basic reproduction number of the ...

But it can help better understand the dynamics of the outbreak. And it can inform government decisions on future interventions. ... cholera, measles, Lassa fever and Yellow fever. On a positive ...

Nigeria: Getting to Grips With the Covid-19 Outbreak in ...

A mathematical model is developed to describe the dynamics of the spread of a waterborne disease among communities located along a flowing waterway. The model is formulated as a system of reaction-...

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