

# Event Based Surveillance

Overview of Verification and  
Assessment Tools: GIDEON



# Establishing a Baseline

- To conduct event-based surveillance, a baseline of what is “expected” disease activity is paramount to appreciating what is unexpected or above baseline
- Key tool for background data: GIDEON



# GIDEON

- GIDEON is the “Global Infectious Disease and Epidemiology Network”
- Global infectious disease database
- GIDEON’s Infectious Disease section contains information on over 350 infectious diseases globally
- Able to display the epidemiologic profile of a selected disease and list diseases that fit a set of epidemiological parameters
- Able to review over 20,000 country specific notes and pre-travel information for travelers and medical practitioners for over 35,000 outbreaks



# GIDEON

- Draws data from a variety of sources including peer-reviewed literature, ProMED, MMWR, WER to establish baseline data




# GIDEON Sign-In Page

- GIDEON is a subscription based website.
- URL:  
<http://search.ebscohost.com/login.aspx?authtype=uid>

EBSCO EBSCO Support Site

Sign In

 Sign in with Google

Or

User ID

Password

**Sign In**

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[OpenAthens Login](#)

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# GIDEON start page

Diagnosis Diseases Travel Drugs Vaccines

**Suggestions**

**Clinical Summary**

**Diagnosis results**

**Clinical Presentation**

Country < Worldwide > [S]

Incubation Period (reset)

Outbreak or case cluster

The patient is an adult

The patient is a child

Severe (hospitalized, hemorrhagic fever, fatal, etc)

Fever

Illness is recurrent or  $\geq 3$  weeks (warning)

Compromised host or nosocomial acquisition

Jaundice

GI and intraabdominal - disease or dysfunction

Pulmonary, thoracic, chest wall or cardiac

Skin and soft tissue - rash, wound, lesion, IV device

Lymphadenopathy

Splenomegaly or splenic lesion(s)

Neurological - headache, meningitis, etc

Ophthalmological

Ears, nose, throat and oral cavity

Musculoskeletal - muscle, bone and joint

Genitourinary

Laboratory tests

Exposure - animal, food, sex, blood products

# Select: Travel

Diagnosis Diseases **Travel** Drugs Vaccines

Region:  
All Regions  
Africa, Central  
Africa, East  
Africa, North  
Africa, Southern  
Africa, West  
Asia, East  
Asia, South  
Asia, Southeast  
Australia and the South Pacific  
Caribbean  
Eastern Europe and Northern Asia

Region: All S  
< Worldwide >  
Afghanistan  
Albania  
Algeria  
American Samoa  
Andorra  
Angola  
Anguilla  
Antigua & Barbuda  
Argentina  
Armenia  
Aruba  
Australia  
Austria  
Azerbaijan  
Azores  
Bahamas  
Bahrain  
Bangladesh  
Barbados  
Belarus  
Belgium  
Belize  
Benin  
Bermuda  
Bhutan  
Bolivia  
Bosnia and Herzegovina  
Botswana  
Brazil  
British Virgin Islands  
Brunei  
Bulgaria  
Burkina Faso  
Burundi  
Cambodia  
Cameroon

231 of 231 listed



Diseases

Travel-related events for specific diseases\*

African tick bite fever  
Alkhurma hemorrhagic fever  
Amoeba - free living  
Amoebic colitis  
Anaplasmosis  
Angiostrongyliasis  
Angiostrongyliasis - abdominal  
Anisakiasis  
Anthrax  
Babesiosis  
Barmah Forest disease  
Bartonellosis - South American  
Bertiella and Inermicapsifer  
Blastomycosis  
Botulism  
Campylobacteriosis  
Capillariasis - intestinal  
Chikungunya  
Cholera  
Clonorchiasis  
Clostridial food poisoning  
Coccidioidomycosis  
Crimean-Congo hemorrhagic fever  
Cryptosporidiosis  
Cutaneous larva migrans  
Cyclosporiasis  
Cysticercosis  
Dirofilariasis  
Dracunculiasis  
Eastern equine encephalitis  
Ebola  
Echinococcosis - American polycystic  
Ehrlichiosis - human monocytic  
Escherichia coli diarrhea  
Fascioliasis  
Gastroenteritis - viral  
Giardiasis  
Glanders  
Gnathostomiasis  
Hantavirus pulmonary syndrome  
Hantaviruses - Old World  
Hepatitis A  
Hepatitis E  
Histoplasmosis  
Histoplasmosis - African  
Hookworm  
Israeli spotted fever

Print  
Email


# Select a Country: Kazakhstan

gideon  EBSCO Research Databases  HOST Databases

Infected Diseases Microbiology

Diagnosis Diseases Travel Drugs Vaccines

Region:  
Asia, East  
Asia, South  
Asia, Southeast  
Australia and the South Pacific  
Caribbean  
Eastern Europe and Northern Asia  
Europe, Western  
Mexico and Central America  
Middle East  
North America  
South America, Temperate  
South America, Tropical

Region: All 

Iraq  
Ireland  
Israel  
Italy  
Ivory Coast  
Jamaica  
Japan  
Jordan  
**Kazakhstan**  
Kenya  
Kiribati  
Kuwait  
Kyrgyzstan  
Laos  
Latvia  
Lebanon  
Lesotho

231 of 231 listed  
Region: Eastern Europe and Northern Asia

Note that on right sidebar, basic information about selected country Kazakhstan shows up:

Diseases

**Yellow fever guidelines for Kazakhstan**  
**Official country requirements**  
Required if traveling from a country with risk of YFV transmission

**CDC recommendations**  
None

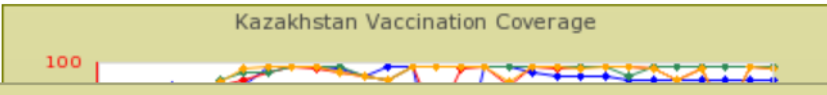
**Malaria guidelines for Kazakhstan**  
**Areas of risk**  
None

**Chloroquine resistance**  
Not applicable

**Prophylaxis - recommendations of the CDC**  
Not applicable

**Routine vaccination schedule of the local population**  
BCG - birth 6 years  
DTaPHibHepIPV - 2,4 months  
DTaPHibIPV - 3, 18 months  
HepA - 2 years  
HepB - birth  
HPV - 11 years  
MMR - 1,6 years  
OPV - 12 months  
Pneumo conj - 2,4,12 months  
Td - 16 years; every 10 years

Kazakhstan Vaccination Coverage





# Select a Disease: Measles

**General** **Distribution** **Images** **Clinical**

Measles found worldwide or in virtually every country

< Worldwide > @  
< Outbreaks > @  
< Surveys > @  
< Bioterrorism simulator >  
United States + @  
Afghanistan + @  
Albania + @  
Algeria + @  
American Samoa + @  
Andorra + @  
Angola + @

**Note**  
+ Endemic or potentially endemic country  
@ country-specific note available

Map

**Measles < Worldwide >**

**Time and Place**  
Measles is the most common cause of vaccine-preventable death in children, and is the eighth leading cause of death worldwide.

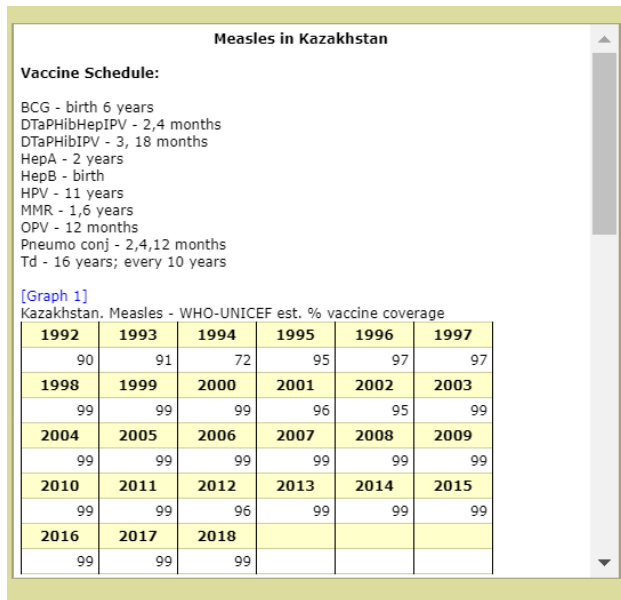
- It has been estimated that over 200 million people died of measles during the 16th through early 20th centuries. <sup>1</sup>
- Before the introduction of measles vaccine in 1963, an estimated 30 million cases occurred globally each year - 2 million fatal.
- Between 1989 and 1996, estimated incidence was reduced by 78%, and mortality by 88%.
- In 1996, the disease accounted for 5% of global mortality from all causes among children under age 15 years.
- During 1999 to 2004, an estimated 1.4 million measles deaths were averted through vaccination; 11 million deaths during 2000 to 2007 <sup>2</sup> ; 17.1 million deaths during 2000 to 2014 <sup>3</sup> ; 21,051,974 (10,402,672 in Africa) during 2000 to 2017. <sup>4</sup>

**Global  
endemicity  
information at  
the top**

**Worldwide data  
available at  
bottom, with  
references**

# Measles in Kazakhstan:

## Vaccine Schedule and Coverage at the top



Kazakhstan. Measles, cases

1980	1981	1982	1983	1984	1985
17,590	23,085	43,126	19,734	19,788	12,213
1986	1987	1988	1989	1990	1991
8,966	3,722	8,124	1,853	273	1,425
1992	1993	1994	1995	1996	1997
647	3,297	1,788	284	146	120
1998	1999	2000	2001	2002	2003
1,935	1,391	245	94	18	24
2004	2005	2006	2007	2008	2009
2,204	16,118	109	13	20	0
2010	2011	2012	2013	2014	2015
4	127	55	73	321	526
2016	2017	2018			
122	2	576			

## Baseline data for Kazakhstan by year at bottom, with references



# GIDEON: other uses

- *Not used for conducting EBS:*
  - GIDEON also provides a point-of-care clinical decision support system provides a current, evidence-based resource for diagnosis, treatment and teaching in the fields of tropical and infectious diseases, epidemiology and microbiology in all countries



# Links

GIDEON:

<http://search.ebscohost.com/login.aspx?authype=uid>



# Thank you!

**Global Disease Detection Operations Center (GDDOC)**  
**Email: GDDOC-Outbreak ([GDDOUTBREAK@CDC.GOV](mailto:GDDOUTBREAK@CDC.GOV))**

