PLAGUES IN MAN

CHOLERA
John Snow & his famous map (1854)
The Agent

*Vibrio cholera*

1 X 4 µm

Bent rods: “comma bacillus”

With polar flagella
The Agent

You have CHOLERA.
Colonization

Vibrio

Digestive system

Bacteria
Colonization

Attachment fimbriae
Toxinosis

STRUCTURE OF TOXIN
Toxinosis

ACTION OF TOXIN

[Diagram showing the action of toxin on epithelial cells, with pathways involving cholera toxin, CFTR, and cAMP.]
SYMPTOMS
PREVENTION & TREATMENT

COMPOSITION OF AN E. COLI CELL
PREVENTION & TREATMENT
PREVENTION & TREATMENT

Cholera: Building a Better Vaccine

DUKORAL™
Oral, Inactivated Travellers' Diarrhea and Cholera Vaccine
Vaccin oral, inactivé, contre la Diarrhée des Voyageurs et le Choléra
Oral suspension and effervescent granules.
For oral use only.
Suspension orale et granules effervescentes.
Par voie orale.
PANDEMICS

The seventh (current)
PANDEMICS

The seventh (current)
PANDEMICS

History

King Cholera
Pandemics

History

Cholera posters - 1831 The 2nd Pandemic

TO THE INHABITANTS OF THE PARISH OF CLERKENWELL.

The Board of Health have ordered an inspection of all the streets and houses, and have also ordered the killing of all the horses and cattle in the parish. They have also ordered the shutting up of all the windows and doors of all the houses in the parish.

Symptoms of the Disorder:

Slightness of fever, rapid pulse, deep breathing, coughing, pains in the sides, weakness, and thirst. The patient's skin is cold and clammy, and his breath is offensive. The patient's urine is dark and offensive, and his stools are watery and offensive.

REMEDIES:

All persons are recommended to take a glass of cold water every day, and to drink a glass of milk every day. All persons are recommended to take a glass of cold water every day, and to drink a glass of milk every day.

CHOLERA MORBUS.

THE London Gazette of FRIDAY, contains an Official Document, issued by the Board of Health, for the prevention of this Dreadful Disorder, the MAYOR OF NEWCASTLE, particularly requests, that the Inhabitants of this Town, and more especially in the narrow Chares, and Streets, will observe the greatest CLEANLINESS, and that they will open their WINDOWS, and Ventilate their Houses, during the Day.

Mansion House, Oct. 24th, 1831.

J. Clark, Printer, 31, Newgate Street.
Pandemics

History

Jonh Snow’s map
The 3rd Pandemic
Pandemics

History

Sixth Pandemic - 1899-1923