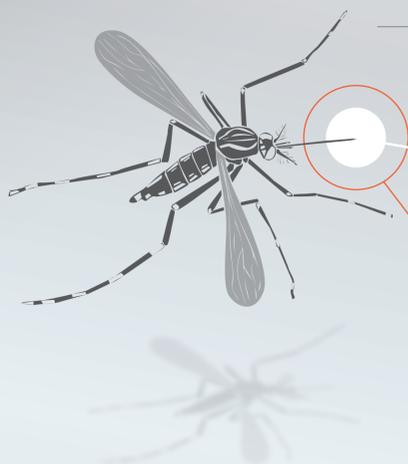


# An emerging threat

## Mosquito-borne diseases in Europe



Mosquitoes can carry infectious diseases from person to person and from place to place.

Some tropical mosquito-borne diseases are endemic in some parts of Africa, the Americas and Asia. They are the cause of substantial illness for more than a billion people worldwide.

## Just one bite away from infection

Different species of mosquitoes can carry different diseases

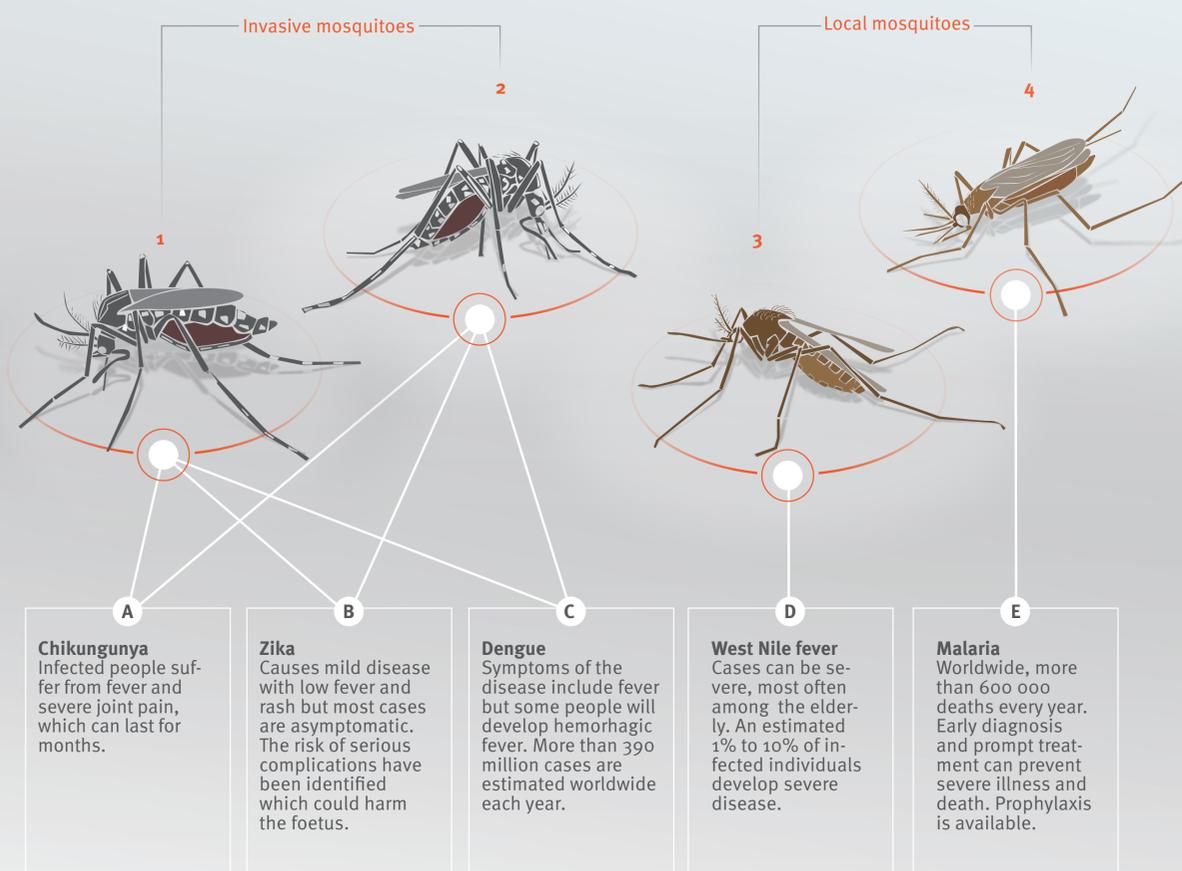
**Invasive mosquitoes** are characterised by their ability to colonise new territories. A considerable increase in the spread of invasive mosquitoes has been observed in Europe since the late 1990s.

**1.** After its disappearance in the 20th century in Europe, *Aedes aegypti* has become established in Madeira and also recently in Cyprus. It is also present in some areas around the Black Sea coast.

**2.** *Aedes albopictus* is considered to be the most invasive mosquito species in the world. It is present in much of central- and southern Europe.

**3.** *Culex pipiens* is the most widespread mosquito in Europe.

**4.** The *Anopheles* mosquito can be found from southern Italy to northern Finland.



## Climate and transportation

Travel, trade and climate change influence mosquito and disease distribution

99% of all malaria cases in Europe are travel-related.

More than 19 million travellers entered Europe from dengue-affected areas in 2022.

It is predicted that future climate trends will increase the risk of establishment of *Aedes albopictus* in northern Europe, due to wetter and warmer conditions.

Rising temperatures can contribute to West Nile fever affecting new areas in Europe.

*Ae. albopictus*  
Aedes albopictus has moved from continent to continent via international trade and transportation.

## Local transmission

Locally transmitted cases of mosquito-borne diseases in Europe

Chikungunya and dengue, France 2022 **C**

*Aedes albopictus* (invasive)

Between June and September 2022, 65 cases were reported in southern France and Corsica.

Zika, France, 2019 **B**

*Aedes albopictus* (invasive)

3 cases were identified in Var department in 2019.

Chikungunya, Italy 2017 **D**

*Aedes albopictus* (invasive)

Between August and November 2017, 270 confirmed and 219 probable cases were reported in the Lazio and Calabria regions.

Dengue, Madeira 2012 **A**

*Aedes aegypti* (invasive)

From 2012 to January 2013, the autonomous province of Madeira, Portugal, reported its first dengue outbreak, with 2 168 dengue cases. 87 patients returning from Madeira were diagnosed in other European countries with dengue infection.