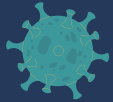
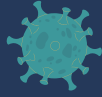


# TOSCANA VIRUS: A PATHOGEN TRANSMITTED BY SAND FLIES



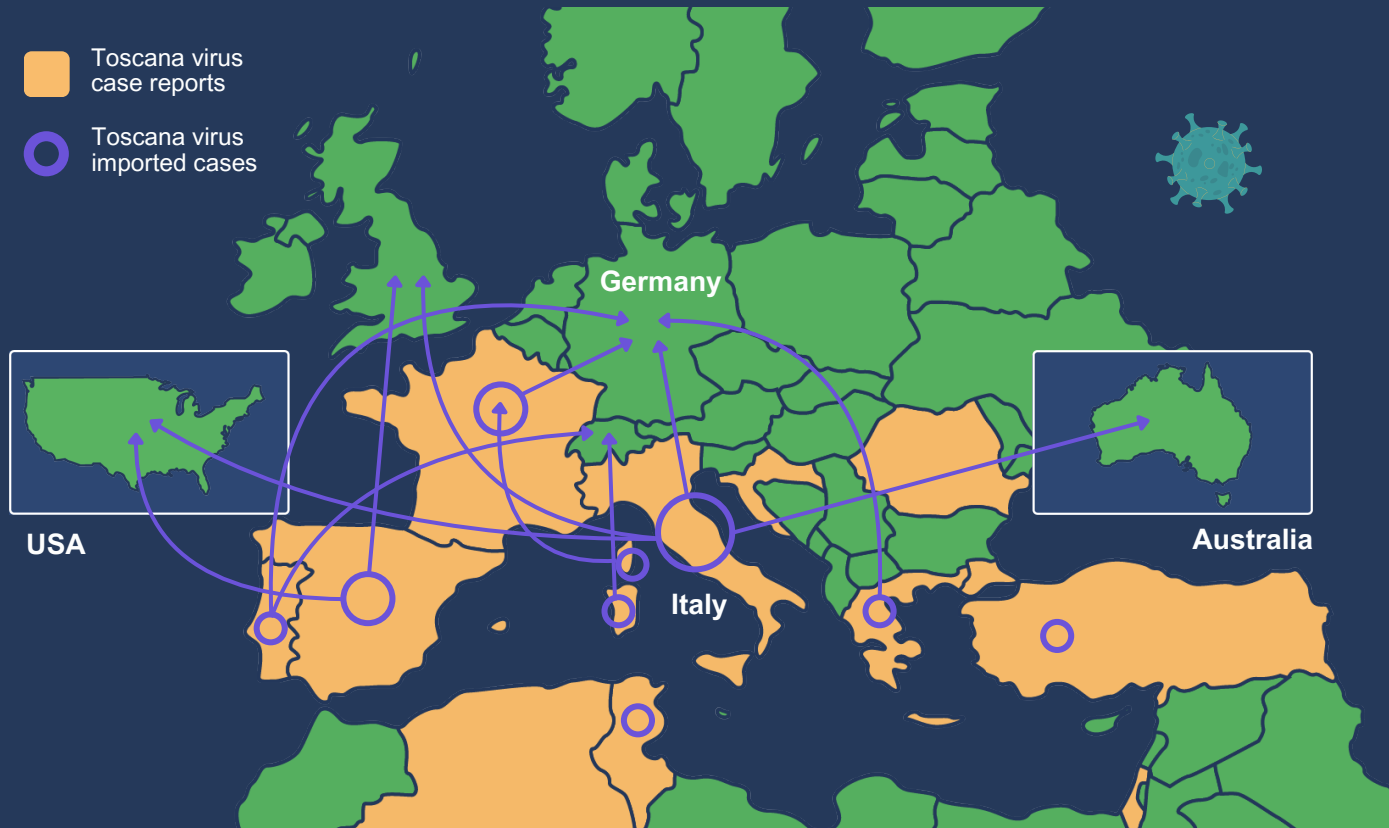
- TOSV is transmitted by sand flies.
- TOSV is reported in many Mediterranean countries.
- TOSV common symptoms include fever, headache, and retro-orbital pain.
- TOSV can cause neurological manifestations (meningitis, encephalitis, peripheral signs).
- TOSV can effect all age groups and males are more susceptible to TOSV infections.



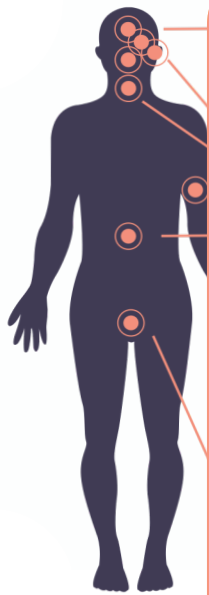
## TOSCANA VIRUS

Toscana virus (TOSV) infections occur exclusively during the period of activity of phlebotomine sand flies, typically from March to November in the Mediterranean basin.

- Toscana virus case reports
- Toscana virus imported cases



Human cases were reported from 12 different countries of which the majority occurred in Italy.



## Clinical Manifestations

### Typical Clinical Manifestations

- Fever
- Headache
- Nausea / Vomiting
- Fatigue
- Photophobia
- Muscle weakness
- Febrile episode
- Rash
- Stiff neck

### Neurological Manifestations

- Guillain-Barré like syndrome
- Hydrocephalus
- Hearing loss
- Impaired speech
- Myositis/fasciitis
- Paresis

### Other Manifestations

- Diffuse intravascular coagulation
- Testicular manifestations

## TOSV SIGNS AND SYMPTOMS

TOSV represents an emerging infectious threat that warrants inclusion in the diagnostic protocols for patients presenting with Central Nervous System signs, particularly within the Mediterranean basin or for those with recent travel history to endemic regions during warmer months when sandflies are actively circulating.



Genetic studies have depicted the existence of three genotypes in TOSV; lineages A, B and C.



There are no approved drugs or vaccines for TOSV infections.



**PARTNERS**



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