

# ESPETIALLY DANGEROUS INFECTIONS

## Evaluation of arthropod-borne infections in Ukraine

### Description

Arthropod-borne infections affect human worldwide.



Investigating these infections can provide information that will improve disease recognition among physicians caring for patients in affected areas and provide guidance regarding the importance of control measures. It is suspected that arthropod-borne infections are common in Ukraine. The Lviv Research Institute of Epidemiology and Hygiene (LRIEH) has a long history of investigating arthropod-borne infections throughout Ukraine, and has historical data on infections such as epidemic typhus. Further investigation into a wide variety of arthropod-borne infections, utilizing the expertise at the LRIEH, as well as CSES in Kiev and Anti-Plague Institute (API) in Odessa, will provide useful information for Ukrainian public health and medical personnel.

### Innovative Aspect and Main Advantages

LRIEH possesses the unique collection of the Rickettsia strains and the laboratory population of lice, which are estimated by the Cabinet of Ministry of Ukraine as the national property.

The exceptional method of the lice cultivation and the method of the inoculation louse with rickettsia strains are using in LRIEH. This collection and these methods are using for research and study new insecticides and antibiotic. Pediculicidal effect of some wild widespread medical plants of Ukraine was studied for the first time using the laboratory lice population.



### Areas of Application

Further investigation into a wide variety of arthropod-borne infections, utilizing the expertise at the LRIEH, CSES and URAPI, will provide useful information for epidemiological science, public health and medical personnel in Ukraine and other countries.

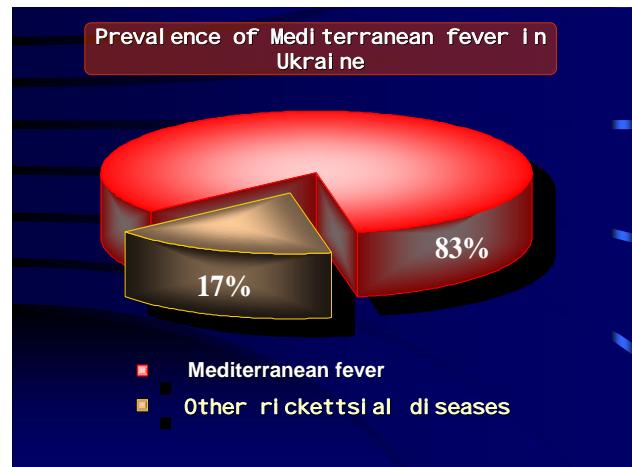


Fig.1.Mediterranean fever has the highest rate and incidence of morbidity among all rickettsial diseases in Ukraine

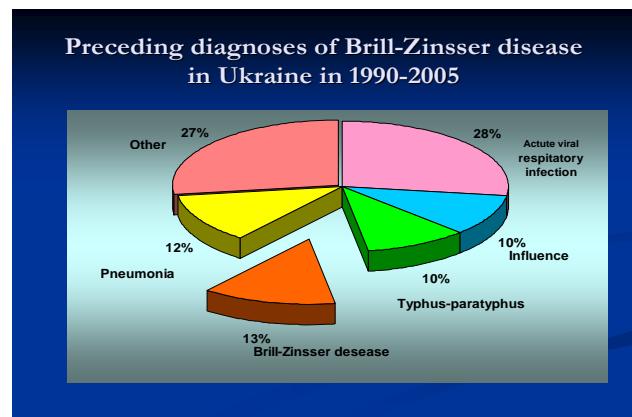


Fig.2 Eased and atypical clinical cases of the Brill-Zinsser disease caused difficulties for preliminary clinical diagnostics. Only 13 % of sick persons came to the hospitals with correct diagnosis

### Stage of Development

Epidemiological surveillance and laboratory investigations

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