

Guidelines title [In English]

**Zanzare e altri insetti: impara a difenderti - Per una strategia integrata di lotta alle zanzare, 2019 - Linee guida per gli operatori dell'Emilia-Romagna.
[Integrated mosquito control strategy, 2019 – Guidelines for operators in the Emilia-Romagna region]**

Year of edition

2019

Summary

Objectives:

- To support the adoption of correct updated technical measures for the mosquito surveillance and control;
- To promote the development and testing of innovative sustainable mosquito control methods;
- To assist the municipalities in the implementation and conduction of mosquito control programmes;
- To stimulate the community participation in the management of mosquito prevention and control in private areas.

Targeted mosquito species: *Aedes albopictus*, *Culex pipiens*, *Aedes japonicus*, *Aedes koreicus*, *Aedes aegypti*.

Methods:

- Surveillance methods:
 - *Aedes albopictus*: a regional surveillance system by ovitraps is in place since 2008.
 - *Culex pipiens*: a regional surveillance network by CO₂ traps is operated since 2010 for the West Nile surveillance.
 - *Aedes japonicus*, *Aedes koreicus*, *Aedes aegypti*: no specific surveillance is in place, but some checking of the eggs collected with the *Aedes albopictus* monitoring system is performed.
- Risk level ranking:
 - Epidemiological risk assessment has been developed considering the *Aedes albopictus* egg density (see Carrieri M., Angelini P., Venturelli C., Maccagnani B., Bellini R., 2012. *Aedes albopictus* (Diptera: Culicidae) population size survey in the 2007 Chikungunya outbreak area in Italy. II: estimating epidemic thresholds. J Med Entomol 49 (2): 388-399, DOI: <http://dx.doi.org/10.1603/ME10259>).
- Period of activation:
 - *Aedes albopictus* and *Culex pipiens* surveillance/monitoring are conducted in the period May-October.
- Other: -

Audience: The document is targeting Public Administration operators (mainly Municipalities and Public Health Services) as well as Pest Control Operators.

Scale (national/local): Regional.

Technical annexes: no, but the document provides a list of useful references and websites.

Specificities: The Emilia-Romagna mosquito management programme is considered one of the most mature programmes operating in Italy as part of the Regional strategy for the arboviruses prevention and control.