ACTIVE SURVEILLANCE FOR CANINE LEISHMANIASIS IN EMILIA-ROMAGNA PUBLIC KENNELS:

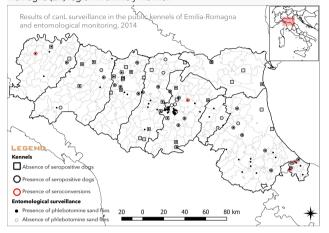
A WEB-BASED INFORMATION SYSTEM



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DEJECTIVE Enhancing data quality, collection & dissemination, providing information on the epidemiology of canine leishmaniasis (canL) in Emilia-Romagna (ER) region in a timely manner.



INTRODUCTION Active surveillance for canL has been implemented since 2007 in the public kennels of ER region with the aim of providing health guarantees for dog adoptions [1]. Veterinary Officials perform entomological and serological surveillance to assess the presence of **phlebotomine sand flies** and **canL infected dogs**. These risk factors are used to rank kennels in four canL risk classes, to implement **specific risk mitigation actions**. Routinary serological surveillance (IFAT; [2]) is performed on all dogs on admittance to the kennel; on clinical suspects (syndromic surveillance) and on sentinel dogs.



SPECIFIC RISK MITIGATION ACTIONS

Anti-vector measures on all dogs Medical treatment when IFAT ≥ 1:160 Sentinel surveillance Sentinel surveillance

CLASS 1

CLASS 3



Anti-vector measures when IFAT ≥ 1:40 Medical treatment when IFAT ≥ 1:160 Entomological surveillance

Entomological surveillance

CLASS 2

CLASS 4

SENTINEI DOGS

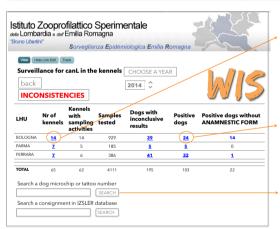
CAN-L RISK-CLASSES OF KENNELS & RISK MITIGATION ACTIONS

ADMITTANCE

METHOD In 2014 we developed a web-based information system (WIS) as a tool to support canL surveillance in the 65 ER public kennels. The WIS displays data of the 8 Local Health Units (LHU): for each LHU you can click on kennels & see the summary of the sampling activities in all kennels. Clicking on a single kennel you will access a list of all tested dogs results. WIS is available online for authorized users only, at http://seea.izsleen.iz

Municipal kennel

Kennel ID



									SUMMAI	RY - KENNELS
Kennel ID	Consign ment ID	Sampling date	Sample NR	Dog microchip	Reson for sampling	Technique	Result - description		Date of Anamnestic form update	INSERT/UPDATE ANAMNESTIC FORM
009BO082	176461	02-11-2014	27	380260020030828	2 - admittance	IFAT	POSITIVE	>320	11-07-2014	Insert / update

Municipality

LIST OF POSITIVE DOGS IN THE KENNELS OF A LHU

Kennel ID	Consignment ID	Sampling date	Sample NR	DOG microchip	Reson for sampling description	Technique	Result - description	Result - titre
057BO198	214361	08/09/2011	2	380260000556214	2 - admittance	IFAT	Negative	N
057BO198	107657	22/04/2014	7	380260000556214	3 - sentinel dog	IFAT	Positive	>320

SEROLOGICAL TESTING OF A SINGLE DOG

REBULTS The WIS is available since may 2014 and currently collects data on more than 28,000 univocally identified dogs. The system displays the results of individual serological testing of all positive & inconclusive dogs of each LHU, all dogs tested in single kennel, all serological tests of a single dog or a single consignment.

RELEVANCE

Easier planning of surveillance activities: lists of dogs with positive and inconclusive test results facilitate the planning of further serological testing, of the appropriate therapy and of the adoption of risk mitigation actions. Timely information: IFA tests are carried out in a single officially recognized laboratory and test results are daily uploaded.

Data quality: possibility to upload and to update the anamnestic form of seropositive dogs. Clicking on the button INCONSISTENCIES WIS highlights possible conflicting data concerning dog identification or the reason for sampling.

ANAMNESTIC FORM

Kennel ID Ulcer Onychogryphosis Date of entrance Pale mucous membranes Size Fur Breed Origin Splenomegaly Sympthoms Loss of weight Enlargement of lymph nodes Other symptoms Popliteal lymphadenomegaly Therapy Therapy products pular lymphadeno Therapy dosage Date of exit



INCONSISTENCIES - DETAIL

Kennel ID	Consignment ID	Sampling date	Sample NR	Microchip	Microchip length	Reson for sampling	Technique	Result - description	Result - titre	
007FC676	96968	09-04-2014	2	380260100002948	15	0-	IFAT	Negative	N	
007FC676	182256	10-07-2014	1		0	2 - admittance	IFAT	Negative	N	
007FC676	208171	07-08-2014	2	380260040	9	3 - sentinel dog	IFAT	Negative	N	



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