

RABIES BULLETIN EUROPE

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CONTENTS

1	Editorial	3
2	Summary of rabies cases in Europe	4
3	Miscellaneous Article	
3.1	Bites of a rabid wolf in 67-old man in north-eastern part of Croatia	5
3.2	Letter regarding the article "Oral Rabies Vaccination (ORV) campaigns in jeopardy!?"	8
4	Distribution of rabies in Europe	
4.1	Country summaries of rabies cases, 3rd quarter 2009	10
4.2	Rabies cases per country and administrative units, 3rd quarter 2009	11
4.3	Trend tables	
4.3.1	Comparison of the reporting quarter (III/2009) with the previous quarter (II/2009)	17
4.3.2	Comparison of the reporting quarter (III/2009) with the same quarter of the previous year (III/2008)	18
5	List of contributors	19

Map of rabies cases in Europe, 3rd quarter 2009

Principal Editor: Dr. Conrad Freuling
Associated Editor: Dr. Thomas Müller
Technical Support: Anke Kliemt
Heike Kubitzka
Contact: WHO Collaborating Centre for Rabies Surveillance and
Research
Institute of Epidemiology, Friedrich-Loeffler-Institute
- Federal Research Institute for Animal Health -
Seestr. 55, D-16868 Wusterhausen, Germany
tel: ..49 33979 80186/158
fax: ..49 33979 80200
email: who-rabies@fli.bund.de
Print: Fine Cards & Papers Limited & Co. KG
Bernhard und Georg Zerbe
Kinzigstraße 18
10247 Berlin
tel: .. 49 30 612 10 85
fax: .. 49 30 618 30 33
email: finecards@t-online.de
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1. Editorial

During the reporting period (3rd quarter 2009) less than 1300 rabies cases were reported from European countries. Interestingly, for the first time rabies was confirmed in a bat in Finland. This puts the historical human rabies case of EBLV-2 origin into new perspectives. We hope to provide additional information on this once it is available. Also, this quarter is the first in which no cases of classical rabies were detected and reported in Poland – a result of its long-term commitment to rabies control by large scale oral rabies vaccination of wildlife (foxes). On the other hand, fox rabies as re-emerged recently in the Northeast of Italy seems to persist in this area with additional cases reported. Counteractions of the Italian authorities will hopefully show effects in the near future.

The first miscellaneous article covers the diagnosis of rabies in a wolf which attacked a man in Croatia. This problem has been described before in other countries and is clearly a reflection of the severe rabies situation in the country. Therefore, additional information on the situation of rabies in Croatia is also provided. In issue 1/2009 we presented our view on the problems of tendering for oral rabies vaccine baits in the article "Oral Rabies Vaccination (ORV) campaigns in jeopardy!?". In this issue we publish the opinion of our French colleagues. Despite differences in opinion we should never lose sight of the penultimate goal, the elimination of rabies from the fox population.

Conrad Freuling
Thomas Müller

2. SUMMARY OF RABIES CASES IN EUROPE

RABIES CASES

3th QUARTER 2009

01.07.09-30.09.09

Name	Code	Total	Wildlife	Domestic animals	Bats	Human
ALBANIA	ALB	0	0	0	0	0
AUSTRIA	AUT	0	0	0	0	0
BELARUS	BLR	205	130	75	0	0
BELGIUM	BEL	0	0	0	0	0
BOSNIA - HERCEGOVINA	BIH	6	4	2	0	0
BULGARIA	BGR	9	7	2	0	0
CROATIA	HRV	134	126	8	0	0
CYPRUS	CYP	0	0	0	0	0
CZECH REPUBLIC	CZH	0	0	0	0	0
DENMARK	DNK	0	0	0	0	0
ESTONIA	EST	1	1	0	0	0
FINLAND	FIN	1	0	0	1	0
FRANCE	Frau	7	0	0	7	0
GERMANY	DEU	2	0	0	2	0
GREECE	GRC	0	0	0	0	0
HUNGARY	HUN	1	0	0	1	0
ICELAND	ISL	0	0	0	0	0
IRELAND	IRE	0	0	0	0	0
ITALY	ITA	11	11	0	0	0
LATVIA	LVA	19	14	5	0	0
LITHUANIA	LTU	19	15	4	0	0
LUXEMBOURG	LUX	0	0	0	0	0
MACEDONIA	MKD	0	0	0	0	0
MALTA	MLT	0	0	0	0	0
MOLDOVA	MDA	9	5	4	0	0
MONTENEGRO	MNE	4	3	1	0	0
NETHERLANDS	NED	7	0	0	7	0
NORWAY	NOR	0	0	0	0	0
POLAND	POL	1	0	0	1	0
PORTUGAL	PRT	0	0	0	0	0
ROMANIA	ROU	75	47	27	1	0
RUSSIAN FEDERATION	RUS	502	313	189	0	0
SERBIA	SRB	29	24	5	0	0
SLOVAK REPUBLIC	SVK	0	0	0	0	0
SLOVENIA	SVN	2	2	0	0	0
SPAIN	ESP	0	0	0	0	0
SWEDEN	SWE	0	0	0	0	0
SWITZERLAND + LIEC.	CHE	0	0	0	0	0
TURKEY	TUR*	0	0	0	0	0
UKRAINE	UKR	253	110	143	0	0
UNITED KINGDOM	UNK	1	0	0	1	0
TOTAL		1298	812	465	21	0

Wildlife: excluding bats

* no data

3. Miscellaneous Articles

3. 1 Bites of a rabid wolf in 67-year old man in north-eastern part of Croatia

Lojkić I.¹, Galić M.², Čač Ž.¹, Jelić I.², Bedeković T.¹, Lojkić M.¹, Cvetnić Ž.¹

¹ Croatian Veterinary Institute, Zagreb, Croatia

² General Hospital "Dr. Ivo Pedišić", Sisak, Croatia

On 22 of March 2009 a female grey wolf (*Canis lupus*) attacked a 67-year old man in his backyard in Donji Žirovac in Sisacko-Moslavacka County in north-eastern part of Croatia. He suffered from amputation of his left hand, nose, upper lip and a part of the maxilla. He was also severely bitten in his right arm and leg.

The victim was administered anti-rabies IgG (HRIG) in two doses of 1940 and 1880 I.U., respectively, tetanus antiserum, and a course of anti-rabies vaccine as complex post exposure prophylaxis. Wounds on his face and arm were surgically treated. After 14 days the patient was released from the hospital. Three months later the last plastic surgery was performed.

During police investigation, early after attack, the wolf came back and tried to attack the police officer, who shot the wolf in self-defence. In the same evening, five lambs and one sheep were slaughtered by the "wild animal". Brain samples from the wolf and three lambs were submitted to the Laboratory for Rabies and General Virology at the Croatian Veterinary Institute, Zagreb.

The brain sample from the wolf tested positive in the fluorescent antibody test (FAT) for rabies virus. The virus was isolated on murine neuroblastoma cell culture (1), and was confirmed by RT-PCR using specific primers (2). The 606 bp PCR fragment of the gene encoding the nucleoprotein (N) was sequenced (GenBank Acc.Number

GU134624) and a 400 nt part was aligned with the sequences available in GenBank. Phylogenetic analysis was performed using the maximum parsimony method with 500 bootstrap replicates, as implemented by the Mega 4 programme (3). As expected, brain samples from three lambs submitted the next day to our laboratory tested negative in FAT. Phylogenetic analysis (Figure 1) clustered our wolf isolate in the Western European group (4).

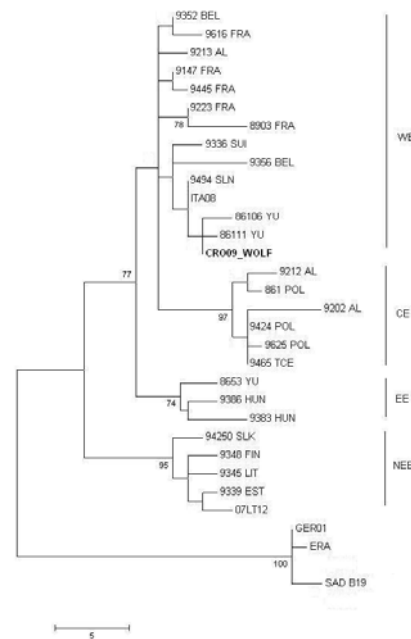


Figure 1. Phylogenetic analysis of the RABVs based on a 400 bp region of the nucleoprotein gene with the Croatian wolf isolate highlighted in bold. The abbreviations: CE, WE, EE and NEE represent main European phylogenetic groups.

As expected, it was closely related to rabies viruses isolated from neighbouring countries and shared 99% identity with a 400bp fragment of the N gene sequence of the Italian dog strain 09RS-1459/Udine/2009 and red fox strain 08RS-1981/Udine/2008, Slovenian strains 94100SLN 9494SLN, and red fox isolates from former Federal Republic of Yugoslavia. Like in most European countries, rabies in Croatia is strictly silvatic,

differences in incidence, and only islands have been spared so far (5). According to the data submitted to the Rabies Bulletin Europe rabies is an increasing problem in Croatia during last few years. Almost 25% of all fox brain samples analyzed in our laboratory tested rabies positive (6). During the period 2001-2006, cases of rabies in red foxes submitted for testing had a positivity rate of about 20 % per year. However, in the last two years

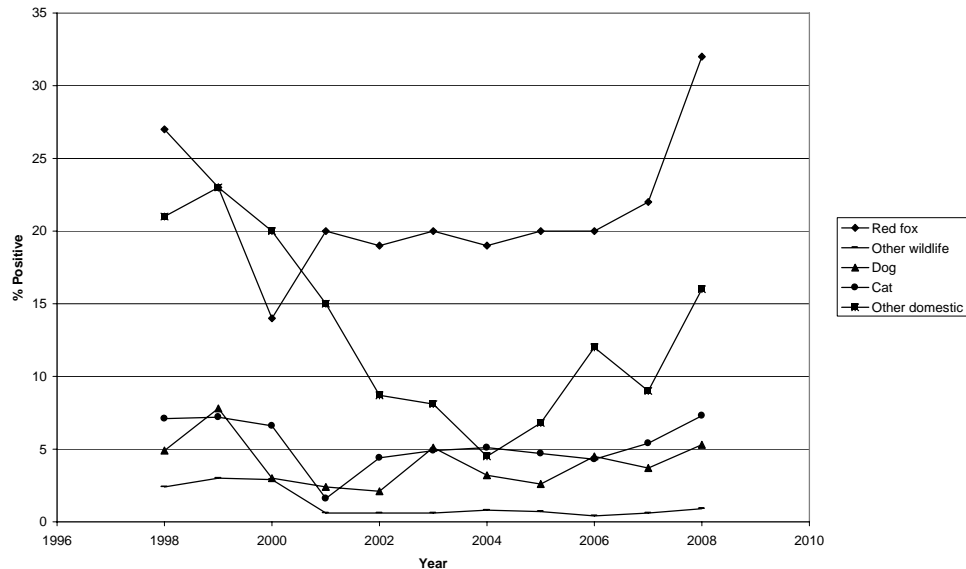


Figure 2: Positivity rate in laboratory submissions of wildlife and domestic animals in Croatia from 1998 to 2008

with the red fox (*Vulpes vulpes*) as the main reservoir. Although the disease is mostly perpetuated within the fox population, foxes occasionally transmit disease to other wild and domestic animal species. Starting in spring 1977 when the first rabies case was diagnosed in a fox from Koprivnicko-Krizevacka county close to Hungarian border, cases of fox rabies have been diagnosed in every county, covering the entire territory of Croatia. In the last 10 years the disease has become enzootic in many counties with some

this proportion strongly increased (Figure 2). The hunting practise and the submission of foxes did not change over time, so an increase in the rabies incidence among foxes could be suggested. Rabies detection in other wildlife had a relatively stable but low rate. The rate increased from 0.4 to 0.9% in the last two years (Figure 2) but due to the few numbers this is statistically not significant. The number of positive dogs and cats remained stable. Cases in dogs might be due to ignorance of current vaccination regulations. For

cats, however, vaccination is not mandatory.

In the last decade, four wolves tested rabies positive, of which three were involved in attacks on humans. According to the IUCN (International Union for Conservation of Nature and Natural Resources), the grey wolf is on the Red List of endangered species. However, the wolf population in Croatia is considered stabile, with approximately 205 individuals organized in 50 packs.

Since oral vaccination of foxes is still not implemented in Croatia, mandatory vaccination of dogs according to the regulation is still the only efficient way of preventing rabies cases in dogs and cats with goal to protect humans from the infection.

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3.2 Letter regarding the article "Oral Rabies Vaccination (ORV) campaigns in jeopardy!?" published in RBE (33) 1/2009, 7-8.

Cliquet, F¹ and Meslin, F.X.²

¹ AFSSA-Nancy, WHO Collaborating Centre for Research and Management in Zoonoses Control, OIE Reference Laboratory for Rabies, Community Reference Laboratory for Rabies Serology, Community Reference Laboratory for Rabies, Nancy, France.

² Secretary of the WHO Rabies Expert Committee meetings/consultations, World Health Organization Headquarters, Geneva, Switzerland

We read with interest the article entitled "Oral Rabies Vaccination (ORV) campaigns in jeopardy!?" written by the editorial team of the WHO Rabies Bulletin Europe and published in its first quarterly issue for 2009 (accessible at http://www.who-rabies-bulletin.org/Journal/Archive/Bulletin_2009_1.PDF). The authors of this paper working in an institute which is both a WHO Collaborating Centre for Rabies Surveillance and Research and an OIE reference laboratory for rabies intended to provide advice to national authorities developing tender requirements for oral rabies vaccine baits. As a conclusion the authors made the following statement : "We therefore strongly suggest that countries within EU that purchase baits through public tender procedures will limit the technical specifications of the vaccine baits to the requirements as listed in the European Pharmacopoeia (EP) monograph". This short article below discusses the above statement on the basis of most recent WHO and OIE international guidelines on selection of oral vaccines for animal rabies control.

As indicated by the RBE editorial team, the rabies situation has been greatly improved in European Member States over the past 10 years thanks to the implementation of rabies control programmes using

oral vaccine baits destined mostly to the immunization of foxes, the main rabies host species in these countries. This success is the result of control programmes executed every year and sustained over as many years as required until rabies elimination is achieved. It is therefore of utmost importance that each and every country involved establishes technical specifications for the procurement of the quantities of oral vaccine baits needed by the vaccination programme.

The European Pharmacopoeia (EP) monograph [1] for live rabies vaccine, as all standards published by the European Pharmacopoeia, provides requirements for use mainly by manufacturers on quality control during vaccine development, production and marketing. Several points covered by this monograph are not in line with more recent WHO [2] and OIE [3] recommendations and guidelines. These WHO and OIE guidance documents were issued or updated in 2005 and 2008, respectively, whereas the EP monograph content was edited in 1997 (to our knowledge, only editorial changes in the presentation have been made in 2002 and 2008). It should be noted in particular that both WHO and OIE guidance, acknowledging the fact that vaccines have different residual pathogenicity related to the level of

attenuation of the seed viral strain, encourage the use of oral rabies vaccines that do not induce any adverse signs and have the lowest residual pathogenicity in target and non-target animals.

In addition the European Commission (EC) in 2001 asked six European experts to collectively produce draft specific recommendations for validation by a larger panel of experts for oral vaccination programme implementation in Europe. This document, published in 2002, contains 21 practical recommendations related to types of vaccines and baits, methods of release of vaccine baits, bait density, bait distribution pattern and seasonal pattern of the releases [4] that can be used to design technical specifications.

It therefore appears that the current EP monograph cannot be considered as the only source of information for elaborating technical specifications for oral vaccine bait tenders. Specifications must be updated using most recent expert recommendations elaborated collectively on the basis of the best science available and endorsed by consensus. Should this update not be possible or represent too long a process, it is absolutely necessary to use in the tendering procedures the EP monograph together with the more recent WHO and OIE recommendations and/or standards as well as those from the EC report.

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4 DISTRIBUTION OF RABIES IN EUROPE

4.1 Country summaries of rabies cases, 3rd quarter 2009

01.07.09-30.09.09

Country		Domestic animals									Wildlife											bat	Human cases	total			
		dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer				fallow deer	other	subtotal
Name	Code																										
Albania	ALB									0														0			0
Austria	AUT									0														0			0
Belarus	BLR	25	24	20	6					75	113	12					5							130			205
Belgium	BEL									0														0			0
Bosnia - Hercegovina	BIH			2						2	4													4			6
Bulgaria	BGR	1	1							2	7													7			9
Croatia	HRV	3	3		1	1				8	122						1			3				126			134
Cyprus	CYP									0														0			0
Czech Republic	CZH									0														0			0
Denmark	DNK									0														0			0
Estonia	EST									0	1													1			1
Finland	FIN									0														0	1		1
France	FRA									0														0	7		7
Germany	DEU									0														0	2		2
Greece	GRC									0														0			0
Hungary	HUN									0														0	1		1
Iceland	ISL									0														0			0
Ireland	IRE									0														0			0
Italy	ITA									0	11													11			11
Latvia	LVA	1	4							5	6	4		4										14			19
Lithuania	LTU	2		2						4	5	7		1	1								1	15			19
Luxembourg	LUX									0														0			0
Macedonia	MKD									0														0			0
Malta	MLT									0														0			0
Moldova	MDA		1	2		1				4	4							1						5			9
Montenegro	MNE			1						1	3													3			4
Norway	NOR									0														0			0
Poland	POL									0														0	1		1
Portugal	PRT									0														0			0
Romania	ROU	4	9	12		1	1			27	44					2	1							47	1		75
Russian Federation	RUS	84	68	29		7			1	189	251	40		3	2	3	5	2					7	313			502
Serbia	SRB	1	4							5	24													24			29
Slovak Republic	SVK									0														0			0
Slovenia	SVN									0	2													2			2
Spain	ESP									0														0			0
Sweden	SWE									0														0			0
Switzerland + Lichtenstein	CHE									0														0			0
The Netherlands	NED									0														0	7		7
Turkey	TUR									0														0			0
Ukraine	UKR	37	71	31		4				143	101	3	2	1	1	1							1	110			253
United Kingdom	UNK									0														0	1		1
TOTAL		158	185	99	7	14	1	0	1	465	698	66	2	4	8	5	13	3	1	3	0	0	9	812	21	0	1298
PER CENT		12.2%	14.3%	7.6%	0.5%	1.1%	0.1%	0.0%	0.1%	35.8%	53.8%	5.1%	0.2%	0.3%	0.6%	0.4%	1.0%	0.2%	0.1%	0.2%	0.0%	0.0%	0.7%	62.6%	1.6%	0.0%	100%

* NO CASES

** NO DATA

4.2 Rabies cases per country and administrative units, 3rd quarter 2009

01.07.09-30.09.09

Location	Domestic animals										Wildlife											bat	Human cases	total		
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer				other	subtotal
BELARUS																										
Brest	1	2	2	1					6	12						2							14			20
Gomel	9	2	5						16	19	1												20			36
Grodno	2	6	5	1					14	24	2					1							27			41
Minsk	5	7	4						16	26	1					2							29			45
Mogelev									0	14													14			14
Vitebsk	8	7	4	4					23	18	8												26			49
TOTAL	25	24	20	6	0	0	0	0	75	113	12	0	0	0	0	5	0	0	0	0	0	0	130	0	0	205
PER CENT	12,2%	11,7%	9,8%	2,9%	0,0%	0,0%	0,0%	0,0%	36,6%	55,1%	5,9%	0,0%	0,0%	0,0%	0,0%	2,4%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	63,4%	0,0%	0,0%	100%
BOSNIA - HERCEGOVINA																										
Bosansko-podrinjski									0	1													1			1
Tuzlanski									0	1													1			1
Unsko-sanski			2						2														0			2
Zenicko-dobojski									0	2													2			2
TOTAL	0	0	2	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	4	0	0	6	
PER CENT	0,0%	0,0%	33,3%	0,0%	0,0%	0,0%	0,0%	0,0%	33,3%	66,7%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	66,7%	0,0%	0,0%	100%	
CROATIA																										
Bjelovarsko - Bilogorska									0	10													10			10
Brodsko - Posavska									0	1													1			1
Istarska									0	14													14			14
Karlovacka		2							2	9													9			11
Koprivnicko - Krizevaska									0	9									1				10			10
Krapinsko - Zagorska	1	1							2	10													10			12
Licko - Senjska									0	3													3			3
Medimurska									0	3													3			3
Osjesko - Baranjska									0										1				1			1
Pozesko - Slovanska									0	2													2			2
Primorsko - Goranska									0	2									1				3			3
Sibensko - Kninska									0	3													3			3
Sisacko - Moslovska	1								1	6													6			7
Splitisko - Dalmatinska									0	1													1			1
Varazdinska									0	7					1								8			8
Viroticko - Podravska									0	2													2			2
Vukovarsko - Srijemska									0	2													2			2
Zadarska									0	4													4			4
Zagreb	1								1	7													7			8
Zagrebacka				1	1				2	27													27			29
TOTAL	3	3	0	1	1	0	0	0	8	122	0	0	0	0	0	1	0	0	3	0	0	0	126	0	0	134
PER CENT	2,2%	2,2%	0,0%	0,7%	0,7%	0,0%	0,0%	0,0%	6,0%	91,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,7%	0,0%	0,0%	2,2%	0,0%	0,0%	0,0%	94,0%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 3rd quarter 2009

01.07.09-30.09.09

Location	Domestic animals										Wildlife												bat	Human cases	total			
	dog	cat	cattle	equine	goat	sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer				other	subtotal	
ESTONIA																												
Polva									0	1															1			1
TOTAL	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	0,0%	100%	
FINLAND																												
Varsinais-Suomi									0															0	1		1	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	100%		
FRANCE																												
Aquitaine									0															0	1		1	
Bretagne									0															0	1		1	
Franche-Comté									0															0	1		1	
Lorraine									0															0	3		3	
Poitou-Charentes									0															0	1		1	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	7		
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	100%		
GERMANY																												
Bremen,Stadt									0															0	1		1	
Lüneburg									0															0	1		1	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2		
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	100%		
HUNGARY																												
Budapest									0															0	1		1	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1		
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	100%		
SERBIA																												
Central Serbia		2							2	18														18			20	
Vojvodina	1	2							3	6													6			9		
TOTAL	1	4	0	0	0	0	0	0	5	24	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	29		
PER CENT	3,4%	13,8%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	17,2%	82,8%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	82,8%	0,0%	0,0%	100%		
UNITED KINGDOM																												
West Lothian									0															0	1		1	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1		
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	100%		

4.2 Rabies cases per country and administrative units, 3rd quarter 2009

01.07.09-30.09.09

Location	Domestic animals									Wildlife											bat	Human cases	total			
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer				fallow deer	other	subtotal
LATVIA																										
Aizkraukles r.		1							1														0			1
Balvu r.									0	1													1			1
Daugavpils r.									0		1												1			1
Gulbenes r.									0		1												1			1
Kuldigas r.									0					1									1			1
Ludzas r.	1								1	1	1												2			3
Preiļu r.		1							1	2													2			3
Saldus r.									0					2									2			2
Talsu r.		2							2	1													1			3
Tukuma r.									0	1	1												3			3
TOTAL	1	4	0	0	0	0	0	0	5	6	4	0	0	4	0	0	0	0	0	0	0	0	14	0	0	19
PER CENT	5,3%	21,1%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	26,3%	31,6%	21,1%	0,0%	0,0%	21,1%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	73,7%	0,0%	0,0%	100%
LITHUANIA																										
Alytaus									0	1				1								1	3			3
Kauno	1								1		1												1			2
Marijampoles			1						1														0			1
Taurages									0				1										1			1
Telsiu	1								1														0			1
Utenos			1						1	3	4												7			8
Vilniaus									0	1	2												3			3
TOTAL	2	0	2	0	0	0	0	0	4	5	7	0	0	1	1	0	0	0	0	0	0	1	15	0	0	19
PER CENT	10,5%	0,0%	10,5%	0,0%	0,0%	0,0%	0,0%	0,0%	21,1%	26,3%	36,8%	0,0%	0,0%	5,3%	5,3%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	5,3%	78,9%	0,0%	0,0%	100%
MOLDOVA																										
Moldova		1	2		1				4	4								1					5			9
TOTAL	0	1	2	0	1	0	0	0	4	4	0	0	0	0	0	0	0	1	0	0	0	0	5	0	0	9
PER CENT	0,0%	11,1%	22,2%	0,0%	11,1%	0,0%	0,0%	0,0%	44,4%	44,4%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	11,1%	0,0%	0,0%	0,0%	0,0%	55,6%	0,0%	0,0%	100%
MONTENEGRO																										
Montenegro			1						1	3													3			4
TOTAL	0	0	1	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	4
PER CENT	0,0%	0,0%	25,0%	0,0%	0,0%	0,0%	0,0%	0,0%	25,0%	75,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	75,0%	0,0%	0,0%	100%
BULGARIA																										
Burgas	1								1	2													2			3
Kyustendil									0	2													2			2
Shumen		1							1	2													2			3
Targovishte									0	1													1			1
TOTAL	1	1	0	0	0	0	0	0	2	7	0	0	0	0	0	0	0	0	0	0	0	7	0	0	9	
PER CENT	11,1%	11,1%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	22,2%	77,8%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	77,8%	0,0%	0,0%	100%	

4.2 Rabies cases per country and administrative units, 3rd quarter 2009

01.07.09-30.09.09

Location	Domestic animals										Wildlife												bat	Human cases	total		
	dog	cat	cattle	equine	goat	sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer				other	subtotal
POLAND																											
Mazowieckie									0															0	1		1
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	100%	
ROMANIA																											
Alba			2						2	2							1							3		5	
Arad									0									1						1		1	
Arges									0	2														2		2	
Bacau		1							1	4														4		5	
Bistrita-Nasaud									0	5							1							6		6	
Brasov		1							1	7														7	1	9	
Buzau			4				1		5	1														1		6	
Cluj									0	1														1		1	
Covasna									0	1														1		1	
Galati			1						1	2														2		3	
Giurgiu		1							1															0		1	
Gorj									0	1														1		1	
Harghita									0	1														1		1	
Iasi									0	2														2		2	
Maramures	1	2							3	1														1		4	
Mehedinti									0	1														1		1	
Mures									0	2														2		2	
Neamt									0	1														1		1	
Olt	3					1			4	3														3		7	
Prahova									0	1														1		1	
Salaj									0	1														1		1	
Sibiu				2					2	1														1		3	
Suceava				1					1	1														1		2	
Teleorman									0	1														1		1	
Tulcea		2	1						3															0		3	
Valcea			1						1															0		1	
Vaslui		1							1	1														1		2	
Vrancea		1							1	1														1		2	
TOTAL	4	9	12	0	1	1	0	0	27	44	0	0	0	0	0	0	2	1	0	0	0	0	0	47	1	0	75
PER CENT	5,3%	12,0%	16,0%	0,0%	1,3%	1,3%	0,0%	0,0%	36,0%	58,7%	0,0%	0,0%	0,0%	0,0%	0,0%	2,7%	1,3%	0,0%	0,0%	0,0%	0,0%	0,0%	62,7%	1,3%	0,0%	100%	
ITALY																											
Udine									0	11														11		11	
TOTAL	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	11
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	0,0%	100%	

4.2 Rabies cases per country and administrative units, 3rd quarter 2009

01.07.09-30.09.09

Location	Domestic animals										Wildlife											bat	Human cases	total			
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer				other	subtotal	
RUSSIAN FEDERATION																											
Adygeja resp.									0								2							2			2
Astrahanskja obl.	3	3							6				1		1	1								2			5
Belgorodskaja obl.	4	12	2						18	6														7			25
Brjanskaja obl.	1								1	10				1										1			12
Cecenskaja resp.			1						1															0			1
Cuvasskaja resp.	1	3							4	4					1									4			8
Ivanovskaja obl.		1							1	2												1		3			4
Jaroslavskaja obl.		1							1	2	2													4			5
Kabardino-Balkanskaja resp.	2								2															0			2
Kaliningradskaja obl.									0	2						1								3			3
Kalmykija resp.	2								2							1								0			2
Kaluzskaja obl.	3				1				4	2														2			6
Karacaevo-Cerkesskaja resp.	1		1						2	1														1			3
Krasnodarskij kr.	2	2							4													1		1			5
Kurskaja obl.		3	2						5	3														3			8
Lipeckaja obl.		2							2	2														2			4
Marij El resp.									0	1														1			1
Mordovija resp.			2						2	17				1	1									19			21
Moskovskaja obl.	6	6	2		1				15	37	15													52			67
Nizgorodskaja obl.	5	4	1		2				12	59					1	1								61			73
Novgorodskaja obl.		1							1															0			1
Orlovskaja obl.		4	1						5	4														4			9
Penzenskaja obl.	6	3	6						15	24			1			1								26			41
Pskovskaja obl.	1	2							3	2														2			5
Rjazanskaja obl.									0	1														1			1
Rostovskaja obl.	4		2						6							1								1			7
Saratovskaja obl.	6	4	3						13	12														12			25
Severnaja Osetija-Alanija resp.	5	3	1					1	10															0			10
Smolenskaja obl.	2								2	13	4		1											18			20
Stavropol'skij kr.	5	1							6	3														3			9
Tambovskaja obl.	1		1						2	6														6			8
Tul'skaja obl.	3		1						4	6	1													7			11
Tverskaja obl.	5	8	1		1				15	17	16											1		34			49
Ul'janovskaja obl.	4								4	2														2			6
Vladimirska obl.	3	2			1				6	5	1													6			12
Volgogradskaja obl.	3								3															0			3
Voronezskaja obl.	6	3	2		1				12	8												1		9			21
TOTAL	84	68	29	0	7	0	0	1	189	251	40	0	3	2	3	5	2	0	0	0	0	0	7	313	0	0	502
PER CENT	16,7%	13,5%	5,8%	0,0%	1,4%	0,0%	0,0%	0,2%	37,6%	50,0%	8,0%	0,0%	0,6%	0,4%	0,6%	1,0%	0,4%	0,0%	0,0%	0,0%	0,0%	0,0%	1,4%	62,4%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 3rd quarter 2009

01.07.09-30.09.09

Location	Domestic animals										Wildlife											bat	Human cases	total		
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer				other	subtotal
SLOVENIA																										
Podravska									0	1													1			1
Savinjska									0	1													1			1
TOTAL	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
PER CENT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
THE NETHERLANDS																										
Drenthe									0														0	1		1
Groningen									0														0	4		4
Noord-Holland									0														0	1		1
Zuid-Holland									0														0	1		1
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	7	
PER CENT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100%	
UKRAINE																										
Crimea									1														0			1
Volynskaya o.		1							1	3													3			4
Cherkasskaya o.	2	5							7	1													1			8
Chernigovskaya o.	2	7	1						10	3													3			13
Chernovitskaya o.		1							1												1		1			2
Dnepropetrovskaya o.	3	3	3		1				10	8	3												11			21
Donetskaya o.	9	2	3						14	8													8			22
Kharkovskaya o.	6	13	6		1				26	5													5			31
Khersonskaya o.	1	4	2						7	8		1											9			16
Khmel'nitskaya o.	2	4	3						9	13													13			22
Kirovogradskaya o.		1							1														0			1
Kiyevskaya o.		8							8	4			1										5			13
Luganskaya o.	2	4	1		1				8	2													2			10
L'vovskaya o.		1							1	4													4			5
Nikolayevskaya o.		2							2	1													1			3
Odesskaya o.	2	3	2						7	6			1	1									8			15
Poltavskaya o.		2							2	1													1			3
Rovenskaya o.	2	1	1						4	2													2			6
Sumskaya o.		4	4						8	3													3			11
Ternopolskaya o.	1		1						2	3													3			5
Vinnitskaya o.	4	3			1				8	14													14			22
Zaporozhskaya o.			2						2	5													5			7
Zhitomirskaya o.	1	1	2						4	7		1											8			12
TOTAL	37	71	31	0	4	0	0	0	143	101	3	2	2	1	0	0	0	0	0	0	0	1	110	0	0	253
PER CENT	14.6%	28.1%	12.3%	0.0%	1.6%	0.0%	0.0%	0.0%	56.5%	39.9%	1.2%	0.8%	0.8%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	43.5%	0.0%	0.0%	100%

4.3 Trend tables

4.3.1 Comparison of the reporting quarter (III/2009) with the previous quarter (II/2009)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	III 2009 (no.)	II 2009 (no.)	Difference	III 2009 (no.)	II 2009 (no.)	Difference	III 2009 (no.)	II 2009 (no.)	Difference	III 2009 (no.)	II 2009 (no.)	Difference	III 2009 (no.)	II 2009 (no.)	Difference
Albania															
Austria															
Belarus	205	200	5	130	128	2	75	72	3						
Belgium															
Bosnia - Hercegovina	6	5	1	4	4		2	1	1						
Bulgaria	9	17	-8	7	12	-5	2	5	-3						
Croatia	134	122	12	126	112	14	8	10	-2						
Cyprus															
Czech Republic															
Denmark															
Estonia	1	2	-1	1	2	-1									
Finland	1		1							1		1			
France	7	5	2					1	-1	7	4	3			
Germany	2		2							2		2			
Greece															
Hungary	1		1							1		1			
Iceland															
Ireland															
Italy	11	5	6	11	4	7		1	-1						
Latvia	19	21	-2	14	16	-2	5	5							
Lithuania	19	14	5	15	11	4	4	3	1						
Luxembourg															
Macedonia															
Malta															
Moldova	9	3	6	5		5	4	3	1						
Montenegro	4	18	-14	3	16	-13	1	2	-1						
Norway															
Poland	1	4	-3		3	-3				1	1				
Portugal															
Romania	75	88	-13	47	61	-14	27	27		1		1			
Russian Federation	502	557	-55	313	321	-8	189	231	-42		1	-1		4	-4
Serbia	29	45	-16	24	32	-8	5	13	-8						
Slovak Republic															
Slovenia	2	7	-5	2	7	-5									
Spain		4	-4					3	-3		1	-1			
Sweden															
Switzerland + Lichtenstein															
The Netherlands	7	4	3							7	4	3			
Turkey*															
Ukraine	253	147	106	110	47	63	143	100	43						
United Kingdom	1		1							1		1			
TOTAL	1298	1268	30	812	776	36	465	477	-12	21	11	10	0	4	-4

Wildlife: excluding bats

III/2009 (no.), II/2009 (no.): number of cases

Difference: no. of cases in III/2009 minus cases in II/2009

* no data

4.3.2 Comparison of the reporting quarter (III/2009) with the same quarter of the previous year (III/2008)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	III 2009 (no.)	III 2008 (no.)	Difference	III 2009 (no.)	III 2008 (no.)	Difference	III 2009 (no.)	III 2008 (no.)	Difference	III 2009 (no.)	III 2008 (no.)	Difference	III 2009 (no.)	III 2008 (no.)	Difference
Albania															
Austria															
Belarus	205	235	-30	130	189	-59	75	46	29						
Belgium															
Bosnia - Hercegovina	6	13	-7	4	9	-5	2	4	-2						
Bulgaria	9	11	-2	7	10	-3	2	1	1						
Croatia	134	217	-83	126	197	-71	8	20	-12						
Cyprus															
Czech Republic															
Denmark															
Estonia	1		1	1		1									
Finland	1		1							1		1			
France	7	3	4							7	3	4			
Germany	2	8	-6							2	8	-6			
Greece															
Hungary	1	2	-1		2	-2				1		1			
Iceland															
Ireland															
Italy	11		11	11		11									
Latvia	19	20	-1	14	20	-6	5		5						
Lithuania	19	28	-9	15	20	-5	4	8	-4						
Luxembourg															
Macedonia															
Malta															
Moldova	9	12	-3	5	2	3	4	10	-6						
Montenegro	4	11	-7	3	10	-7	1	1							
Norway															
Poland	1	5	-4		1	-1		1	-1	1	3	-2			
Portugal															
Romania	75	143	-68	47	110	-63	27	33	-6	1		1			
Russian Federation	502	592	-90	313	329	-16	189	260	-71					3	-3
Serbia	29	46	-17	24	38	-14	5	8	-3						
Slovak Republic															
Slovenia	2	7	-5	2	7	-5									
Spain		1	-1					1	-1						
Sweden															
Switzerland + Lichtenstein															
The Netherlands	7	11	-4							7	11	-4			
Turkey	*	79		*	6		*	73		*			*		
Ukraine	253	391	-138	110	127	-17	143	264	-121						
United Kingdom	1		1							1		1			
TOTAL	1298	1835	-458	812	1077	-259	465	730	-192	21	25	-4	0	3	-3

Wildlife: excluding bats

III/2009 (no.), III/2008 (no.): number of cases

Difference: no. of cases in III/2009 minus cases in III/2008

* no data

5. LIST OF CONTRIBUTORS

ALB Albania

Ass. Prof. Dr. Dragush Mati
Ministry of Agriculture and Food
Directorate of Veterinary Service
Tirana /Albania
Tel: +355 4 222 539
Fax: +355 4 222 539
E-mail: vetdirector@albaniaonline.com

AUT Austria

Mag. Ulrich Herzog, CVO
Bundesministerium für Gesundheit und
Frauen
Bereich IV/B (Verbraucher-Gesundheit)
Radetzkystraße 2
A-1030 Wien
Tel. +43-1-7 11 00-4824
Fax +43-1-7 10 41 51
E-mail: ulrich.herzog@bmgf.gv.at

BLR Belarus

Dr. A.M. Axenov
Head of the Central Board of Veterinary
Medicine
Ministry of Agriculture and Food
Kirova 15
Minsk /Belarus
Tel: +375-17-227 6623
Fax: +375-17-227 42 96
+375-17-227 57 54
E-mail: vetinsp@mshp.minsk.by

BEL Belgium

Dr. L. Lengelé, CVO
SPF Santé publique, Sécurité de la
Chaîne alimentaire et Environnement
Place Victor Horta, 40 – b. 10 – 1060
Brussels, Belgium
Tel: +32-2-524 73 00
Fax: +32-2-524 73 49

Dr. Renaud Poizat
AFSCA – Agence fédérale pour la
Sécurité de la Chaîne alimentaire
Direction Général de la Politique de
Contrôle
WTC III, boulevard Simon Bolivar, 30,
bureau 19/50
B-1000 Bruxelles/Belgique
Tel. +32-2-208 38 52
Fax +32-2-208 36 12

Responsible expert:
Dr. Ingrid Le Roux
Dr. Steven Van Gucht

Rabies Laboratory, Contagious and
Transmittable Diseases
Rue Engelandstraat 642; 1180 Brussels
Tel: +32(0)2 373 3256
Fax: +32(0)2 373 3286

BIH Bosnia and Herzegovina

Dr. Ramiz Velic
Department of Infectious Diseases
Veterinary Faculty Sarajevo
Zmaja od Bosne 90
Sarajevo 71000 /Bosnia and
Herzegovina
Tel: +387-61-160 361
E-mail: vetzar@bih.net.ba

Dr. Sc. Drago N. Nedic
Ministry Agriculture, Forestry and
Water Management of Republika Srpska
Milosa Obilica 51
76300 Bijeljina, Republika Srpska
Bosnia and Herzegovina
Tel: +387-55-401 812,
-211 506
-403 508
Fax: +387-55-403 508
-472 353
E-mail: nedicd@rstel.net
nedicd@vetservice.org
Web: www.vetservice.org

BUL Bulgaria

Dr. Petya Petkova
National Veterinary Service
Animal Health Directorate
15A "Pencho Slaveikov" blvd.
1606 Sofia, Bulgaria
Tel: +359 2 915 98 42
Fax: +359 2 952 38 35

HVR Croatia

Dr. Ljerka Zeba
Veterinary Administration
Ministry of Agriculture and Forestry
Vukovarska 78
10000 Zagreb, Republic of Croatia
Tel: +385 1 6106207
Fax: +385 1 6109207
E-mail: ljerka.zeba@mps.hr

CYP Cyprus

Dr. P. Economides, CVO
Director of Veterinary Services
Ministry of Agriculture, Natural
Resources

and Environment - Veterinary Services -
1417 Nicosia /Cyprus
Tel. +357-2-80 52 0
Fax +357-2-33 28 03
E-mail vet.services@cytanet.com.cy

CZH Czech Republic

MVDr. Josef Vitásek
State Veterinary Administration CR
Slezská 7
CZ - 120 00 Praha 2 / Czech Republic
Tel.: +420 - 227 010 144
Fax : +420 - 227 010 195
E-mail: j.vitasek@svscr.cz

Responsible expert:
Responsible expert for CZH
MVDr. Ivan NágI
National Reference Laboratory for Rabies
State Veterinary Institute Prague
Sídlištní 136/24
CZ -165 03 Praha 6 - Lysolaje
Tel. +420 251 031 281
Fax +420 220 920 655
E-mail:i.nagl@svupraha.cz

DNK Denmark

Dr. Preben Willeberg, CVO
Pia Vestergaard, Veterinary Officer
Devison of animal health
Danish Veterinary and Food
Administration
Tel: +45 33 95 65 96
E-mail: pv@fvst.dk

EST Estonia

Dr. Matti Nautras, CVO
Head of Animal Health Department
Veterinary and Food Broad of Estonia
Väike-Paala-Street 3
11415 Tallinn /Estonia
Tel. +372-605 1732
Fax +372-638 0210
E-mail nautras@vet.agri.ee

Responsible expert:
Dr. Külli Must
Head of Department
Veterinary and Food Laboratory
Kreutzwaldi 30
51006 Tartu /Estonia
Tel: +372-742 1246
Fax: +372-742 1730
E-mail: kylli@vetlab.ee

FIN Finland

Dr. Matti Aho, CVO
Dr. Tiia Tuupanen
Ministry of Agriculture and Forestry

Department of Food and Health, Animal
Health
PO BOX 30
FIN-00023 Government
Finland
Tel: +358-9-16001,
+358-9-1605 2787
Fax: +358-9-1605 4777,
+358-9-1605 3338
E-mail cvo-finland@mmm.fi
tiia.tuupanen@mmm.fi
Web: www.mmm.fi

FRA France

Dr. Florence Cliquet
Agence Francaise de Securite Sanitaire
des Aliments (afssa) - Site de Nancy
Domaine de Pixérécourt
Boite Postale 9
F-54220 Malzéville /Republique
Francaise
Tel: +33-3-83.29.89.50
Fax: +33-3-83.29.89.59
E-mail: f.cliquet@nancy.afssa.fr
Web: www.afssa.fr

DEU Germany

Prof. Dr. Werner Zwingmann, CVO
Fed. Ministry of Food, Agriculture and
Consumer Protection
PF 14 02 70, D-53103 Bonn, Germany
Tel: +49 228 529 41 57
Fax: +49 228 529 35 53
E-mail: poststelle@bmelv.bund.de

Responsible experts:
Dr. Thomas Müller
Conrad Freuling
Friedrich-Loeffler-Institute
Federal Research Institute for Animal
Health
WHO Collaborating Centre for Rabies
Surveillance and Research,
Wusterhausen, Seestr. 55
D-16868 Wusterhausen/Germany
Tel: +49-33979-80 0
Fax: +49-33979-80 200 and 222
E-mail: who-rabies@fli.bund.de
Web: www.fli.bund.de

GRC Greece

Dr. B. Styilas
Ministry of Agriculture

Responsible expert:
Dr Olga Mangana
Head of Institute of Infectious and
Parasitice disease

25 Neapoleos street. Agia Paraskevi
15310
Greece
Tel, Fax: +30 210 6011499
viruslab.ath@gmail.com

HUN Hungary

Dr. Tibor Balint
Dr. Zsolt Földi
Ministry of Agriculture and Regional
Development
Animal Health and Food Control
Department
H-1860 Budapest 55. Pf. 1
Tel. +36-1 3014329 and 332 7986
Fax +36-1 301 4669
E-mail foldiz@oai.hu

ISL Iceland

Dr. Halldor Runolfsson
Chief Veterinary Officer
Ministry of Agriculture, Veterinary
Services
Solvholsgrata 7
150 Reykjavik /Iceland
Tel. +354-560 9750
Fax +354-552 1160
E-mail halldor.runolfsson@lan.stjr.is

IRE Ireland

Dr. J. Melville
Superintending Veterinary Inspector
Department of Agriculture, Food and
Forestry
Agriculture House
Dublin 2/Ireland
Tel: +353-1-607 2981
Fax: +353-1-661 2440

Responsible expert:

Dr Patrick Lenihan
Senior Superintending Research Officer
Virology Division
Central Veterinary Research Laboratory
Abbotstown, Blanchardstown
Dublin 15

ITA Italy

Dr. Franco Mutinelli
Istituto Zooprofilattico
Sperimentale delle Venezie
Viale dell'Università, 10
I-35020 Legnaro (PD) /Italy
Tel: +39-049-80 84 259
Fax: +39-049-80 84 258
E-mail: fmutinelli@izsvenezie.it

LVA Latvia

Dr. Mareks Samohvalovs
Dr. Emils Jegers

Food and Veterinary Service
Peldu Street 30,
Riga, LV-1050, Latvia
Tel: +371 67095230
Fax: +371 67322727
E-mail: pvd@pvd.gov.lv

LTU Lithuania

Dr. K. Lukauskas
Dr. V. Kiudulas,
Animal Health Department
State Food and Veterinary Service
Siesikų 19, LT-07170 Vilnius
E-mail: vvt@vet.lt
vkiudulas@vet.lt

LUX Luxembourg

Dr. Arthur Besch, CVO
Inspection Vétérinaire
Grand-Duché de Luxembourg
Administration des Services vétérinaires
93, rue d'Anvers
Boîte postale 1403
L-1014 Luxembourg
Tel: +352-478 2539
Fax: +352-407 545
E-mail: Arthur.Besch@asv.etat.lu

MKD Macedonia

Sloboden Cokrevski, DVM
Ministry of Agriculture, Forestry and
Water Economy
Veterinary Directorate
Republic of Macedonia
Leninova 2
1000 Skopje/Macedonia
Tel: + 389 2 3210468
Fax: + 389 2 3210315
E-mail: scokrevski@veterina.gov.mk

Responsible expert:

Prof. Dr. Misho Hristovski
Veterinary institute Skopje
Department of Biology and Pathology of
Fish, Bees and Wild Animals
Lazar Pop Trajkov 5-7
1000 Skopje/Macedonia
Tel: +389 2 3115125
Fax: +389 2 3114619
E-mail: hristovskim@hotmail.com

MNE Montenegro

Mevlida Hrapovic
Veterinary administration of the Republic
of Montenegro
Bulevar Sv.Petra Cetinjskog br 9
81000 Podgorica, Montenegro
Tel: +38 2 81 201 945;
Fax: +38 2 81 201 946
e-mail: mevlida.hrapovic@vu.gov.me

MDA Moldova
Vsevolod Stamati,
Animal Health Division
Department of Veterinary Medicine
Ministry of Agriculture and Food Industry
Republic of Moldova
E-mail: dmv@maia.gov.md

NED Netherlands
Dr. P.W.de Leeuw
Dutch Ministry of Agriculture, Nature and
Food
Bezuidenhoutseweg 73 - P.O. Box 20401
NL-2500 EK's-Gravenhage /Netherlands

Dr. L. Züchner
Food and Consumer Product Safety Authority
De Stoven 22
NL-7206 AX Zutphen /Netherlands
Tel: +31-575-58 8 100
Fax: +31-575-588 8 200
E-mail: lothar.zuchner@vwa.nl

NOR Norway
Dr. Keren Bar-Yaacov, CVO
Norwegian Food Safety Authority, Head
Office
P.O. Box 383
N-2381 Brumunddal, Norway
Tel: +47 23 21 68 00
Fax: +47 23 21 68 01
E-mail: postmottak@mattilsynet.no

POL Poland
Krzysztof Jazdzewski, DVM
Acting Chief Veterinary Officer
General Veterinary Inspectorate
Veterinary Inspection
30, Wspolna Str,
00-930 Warsaw / Poland
Tel.: +4822623208889
+4822626288511
Fax: +48226231408
E-mail: wet@wetgiw.gov.pl

Responsible experts:
Prof. Jan. F. Zmudzinski
National Veterinary Research Institute
Department of Virology
National Reference Laboratory for Rabies
Al. Partyzantow 57
24 -100 Pulawy / Poland
Tel.: +48818863051
Fax: +48818862595
E-mail: jfzmudzi@piwet.pulawy.pl

Magdalena Zietara, DVM
Animal Health and Welfare Office
General Veterinary Inspectorate
Veterinary Inspection

30, Wspolna Str,
00-930 Warsaw / Poland
Tel.: +48226232264
Fax: +48226231408
E-mail:
magdalena.zietara@wetgiw.gov.pl

PRT Portugal
Dr.C.A.M.de Andrade
Fontes
Direccao-Geral da Pecuaria

ROU Romania
Prof. Gabriel Predoi, CVO
General Director of the Sanitary
Veterinary General Direction, National
Sanitary Veterinary and Food Safety
Authority
Bd. Carol I, nr. 24, sector 3
Bucuresti, cod 70.033 /Romania
Tel: +40-21-3157875
Fax: +40-21-3124967
E-mail: predoi@ansv.ro

**RUS Russian Federation
(European part)**
Prof. V.A.Vedernikov
Dr. I.V.Baldina
The Kovalenko All-Russian
Inst.of Exper. Veterinary Medicine
109455, Moscow, Ryazansky prosp., 24
Tel: +495 377-9483
Fax: +495 970-0369
E-Mail: epizootviev@mail.ru

Dr. N.A.Yaremenko
Dr. S.A.Kolomytzev
Department of veterinary and livestock
Ministry of Agriculture
107139, Moscow, Orlikov per., 1/11
Tel: +495 975-5423
Fax: +495 975-5423
E-mail: n.yaremenko@vet.mcx.ru

Responsible expert:
Dr Artem Metlin
Federal Centre for Animal Health,
600901, Vladimir,Russia.
Fax +74 922260753
E-mail artem.metlin@inbox.ru

SRB Serbia
Mr. Budimir Plavsic, DVM
Ministry of Agriculture
Head of the Animal Health Department
E-mail b.plavsic@minpolj.sr.gov.yu

Dr. Jelena Desnica (Director)
Dr. Nenad Vranjes (Head of Rabies Unit,
Epidemiology, Rabies prevention)
Dr. Srdan Stankov (Rabies diagnostics)
Pasteur Institute Novi Sad
Hajduk Veljkova 1 / P.O. Box 208
21000 Novi Sad / Serbia
Tel.: +381 21 6611 003
+381 21 420 528
Fax: +381 21 6611 003
Email: paster-ns@neobee.net

SVK Slovak Republic
Prof. Josef Bires, CVO
Roman Matejčík, DVM
State Veterinary Administration of the
Slovak Republic
Botanická No 17
842 13 Bratislava /Slovak Republic
Tel. +421-2-60 257 227
Fax +421-2-65 411 159
E-mail welfare@svssr.sk

Responsible expert:
Miroslav Mojžiš, DVM
Štátny veterinárny ústav Zvolen
Pod Dráhami No. 918
960 86 Zvolen /Slovak Republic

SVN Slovenia
Aleš Brečelj, MSc, DVM
Ministry of Agriculture, Forestry and
Food
Veterinary Administration of the Republic
of Slovenia
Parmova 53, 1000 Ljubljana / SLOVENIA
Tel: +386-1-300 13 00
Fax: +386-1-300 13 56
E-mail: ales.brecelj@gov.si
Web: www.sigov.si/vurs

Responsible expert:
Peter Hostnik, PhD, DVM
National Veterinary Institute, Unit for the
diagnostic of contagious and other
diseases,
Laboratory of Virology
Gerbičeva 60
1000 Ljubljana / SLOVENIA
Tel: +386-1-477 91 00
Fax: +386-1-477 93 52
E-mail: peter.hostnik@vf.uni-lj.si

ESP Spain
Ilmo. Sr. D. Pedro Angel García González
Subdirector General de Sanidad Exterior
Tel: +34-91-596 20 38
Fax: +34-91-596 20 47
E-mail: pgarciag@msc.es
Sr. D. Carlos Abellán García

Jefe de Servicio de Veterinaria Oficial
Tel: +34-91-596 19 34
Fax: +34-91-596 20 47
E-mail: cabellan@msc.es

Ministerio de Sanidad y Consumo
Dirección General de Salud Pública
Subdirección General de Sanidad
Exterior
C/Paseo del Prado, 18-20
E-28071 Madrid

Responsible expert - Diagnóstico:
Sr. D. Juan E. Echevarría Mayo
Servicio de Microbiología Diagnóstica
Centro Nacional de Microbiología
Instituto de Salud Carlos III
Ministerio de Sanidad y Consumo
Ctra. Majadahonda-Pozuelo s/n
28220 Majadahonda, Madrid
Tel: +34-91-509 79 01
Fax: +34-91-509 79 66
E-mail: jeecheva@isciii.es

Epidemiología:
Sra. Da Luisa Pilar Sánchez Serrano
Centro Nacional de Epidemiología
Instituto de Salud Carlos III
Ministerio de Sanidad y Consumo
C/ Sinesio Delgado, 6
E-28029 Madrid
Tel: +34-91-387 78 02
Fax: +34-91-387 78 16
E-mail: Isanchez@isciii.es

Dr. Ignacio Sanchez Esteban
Subdirector General de Sanidad
Veterinaria
MAPA
Ministerio de Agricultura, Pesca y
Alimentacion
Madrid /Spain
Tel: +34-91-347 82 95
Fax: +34-91-347 82 99
E-mail: isanchez@mapya.es
Web: www.mapya.es

Responsible expert:
D. Fulgencio Garrido Abellan
Tel: +34-958-44 03 75
Fax: +34-958-44 12 00
E-mail: fgarrido@moebius.es

Dña. Teresa Rodríguez-Trenchs
Tel: +34-91-347 83 4
Fax: +34-91-347 82 99
E-mail: trodrigu@mapya.es

SWE Sweden

Dr. Leif Denneberg
 National Board of Agriculture
 Department for Animal Production and Health
 SE-551 82 Jönköping /Sweden
 Tel: +46-36-15 50 00
 Fax: +46-36-30 81 82
 E-mail: leif.denneberg@sjv.se

Responsible expert:
 Professor Anders Engvall
 National Veterinary Institute
 SE-751 89 Uppsala
 Tel: +46-18-67 40 00
 Fax: +46-18-67 44 45
 E-mail: anders.engvall@sva.se

CHE Switzerland

PD Reto Zanoni
 Dr. Urs Breitenmoser
 University of Bern - Swiss Rabies Centre
 Institute of Veterinary Virology
 Länggass Str. 122
 CH-3012 Bern /Switzerland
 Tel: +41-31-631 23 78
 Fax: +41-31-631 25 34
 E-Mail: zanoni@ivv.unibe.ch
 breitenmoser@ivv.unibe.ch
 Web: www.cx.unibe.ch/ivv

TUR Turkey

Asso.Prof.Dr. Muzaffer AYDEMİR
 Ministry of Agriculture and Rural Affairs
 General Directorate of Protection and Control
 Esat cad. No. 3
 06100 Bakanliklar, Ankara /Turkey
 Tel: +90-312-41 82 436
 Fax: +90-312-41 78 209

Responsible expert:
 Dr. Orhan Aylan, Chief of Rabies Laboratory
 Etlik Central Veterinary Control and Research Institute
 06020 Etlik, Ankara /Turkey
 Tel: +90-312-32 60 090 / 154
 Fax: +90-312-32 11 755

UKR Ukraine

Dr. P. Verbytskyi
 Ministry of Agrarian Policy
 State Department of Veterinary Medicine
 Khreshchatik 24
 01001 Kiev /Ukraine
 Tel: +380-44-229 12 70
 Fax: +380-44-229 85 45
 E-mail: uzpr@minap.kiev.ua

Dr. Liudmyla Grishok
 Institute of Veterinary Medicine
 Head of Laboratory for Rabies
 Donetskaja Street 30
 Kiev-151 /Ukraine
 Tel: +380-44-243 72 38
 Fax: +380-44-242-69-81
 E-mail: ivm-kiev@akcecc.kiev.ua

Dr. Zoya Trotsenko
 Head of Virology Department
 State Research Institute of Laboratory Diagnostics and Veterinary Sanitary Expertise
 Donetskaya Street 30
 Kiev-151, Ukraine
 Tel: +380-44-243 37 55
 Fax: +380-44-242-37 55
 E-Mail: biotech@astral.kiev.ua

UNK United Kingdom

Mr Nigel Gibbens BVetMed MSc MRCVS, CVO
 Mr David Mouat BVM&S MSc MRCVS
 Mr Balazs Toth DrMedVet MRCVS
 Department for Environment, Food and Rural Affairs
 Area 5D Nobel House
 17 Smith Square, London SW1P 3JR
 Tel: +44-207-238 6047
 Fax: +44-207-238 5051
 e-mail david.c.mouat@defra.gsi.gov.uk
 balazs.toth@defra.gsi.gov.uk

Responsible expert:
 Prof. Anthony R. Fooks
 Rabies Research and Diagnostic Group,
 WHO Collaborating Centre, Department of Virology, Veterinary Laboratories Agency (Weybridge), New Haw,
 Addlestone, Surrey, KT15 3NB, UK
 Tel: +44 1932-357840
 Fax: +44 1932-357239
 E-Mail: t.fooks@vla.defra.gsi.gov.uk

Please inform the editor about changes of contact details

RABIES CASES EUROPE
3rd QUARTER 2009
1298 CASES REPORTED

21 BAT RABIES CASES INCLUDED

■ rabies free (terrestrial rabies)
□ no data

200 km

Black Sea

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