

RABIES BULLETIN EUROPE

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Principal Editor: 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
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

In this issue we present rabies data for the 1st quarter of 2009. Three miscellaneous articles cover different topics. The first is a joint article by the Italian and Slovenian rabies experts outlining the recent developments of sylvatic rabies in both countries and the respective control measures. Also, in the context of oral vaccination of foxes we took the liberty of addressing problems in public tenders for baits in EU-funded ORV campaigns that may threaten the overall success of rabies control in Europe. Last, we are honoured to provide two articles on the life and successes of Dr. George Martin Baer, one of the foremost international rabies experts who died on June 2, 2009, in Mexico City, Mexico.

Conrad Freuling
Thomas Müller

2. SUMMARY OF RABIES CASES IN EUROPE

RABIES CASES

1st QUARTER 2009

01.01.09-31.03.09

Name	Code	Total	Wildlife	Domestic animals	Bats	Human
ALBANIA	ALB	0	0	0	0	0
AUSTRIA	AUT	0	0	0	0	0
BELARUS	BLR	262	199	63	0	0
BELGIUM	BEL	0	0	0	0	0
BOSNIA - HERCEGOVINA	BIH	13	7	6	0	0
BULGARIA	BGR*	0	0	0	0	0
CROATIA	HRV	323	297	26	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	0	0	0	0	0
FINLAND	FIN	0	0	0	0	0
FRANCE	FRA	0	0	0	0	0
GERMANY	DEU	1	0	0	1	0
GREECE	GRC	0	0	0	0	0
HUNGARY	HUN	1	1	0	0	0
ICELAND	ISL	0	0	0	0	0
IRELAND	IRE	0	0	0	0	0
ITALY	ITA	5	5	0	0	0
LATVIA	LVA	15	15	0	0	0
LITHUANIA	LTU	15	12	3	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	21	10	11	0	0
MONTENEGRO	MNE	14	13	1	0	0
NETHERLANDS	NED	0	0	0	0	0
NORWAY	NOR	0	0	0	0	0
POLAND	POL	3	3	0	0	0
PORTUGAL	PRT	0	0	0	0	0
ROMANIA	ROU	209	181	28	0	0
RUSSIAN FEDERATION	RUS	595	316	279	0	0
SERBIA	SRB	64	53	11	0	0
SLOVAK REPUBLIC	SVK	0	0	0	0	0
SLOVENIA	SVN	12	11	1	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	64	2	62	0	0
UKRAINE	UKR	221	92	129	0	0
UNITED KINGDOM	UNK	1	0	0	0	1
TOTAL		1839	1217	620	1	1

Wildlife: excluding bats

* no data

3. Miscellaneous Articles

3. 1 Update on Fox Rabies in Italy and Slovenia

De Benedictis P.¹, Capua I.¹, Mutinelli F.¹, Wernig J.M.², Arič T.², Hostnik P.³

¹National Reference Centre for rabies, OIE and National Collaborating Centre for diseases at the human-animal interface, Istituto Zooprofilattico Sperimentale delle Venezie, Legnaro, Padova, Italy

²Veterinary Administration of the Republic of Slovenia, Animal Health Department

³University of Ljubljana, Veterinary Faculty, National Veterinary Institute, Ljubljana/Slovenia

In October 2008, the National Reference Centre for rabies at the Istituto Zooprofilattico Sperimentale delle Venezie in Legnaro (Padova), Italy, diagnosed rabies in a red fox (*Vulpes vulpes*) in the municipality of Resia (Province of Udine, North-Eastern part of Italy). The fox had bitten a 69-year-old man on the ankle on 10th October 2008. The victim received first aid assistance for the wounds and complete post-

exposure treatment at the local health unit [1]. The North-Eastern territories of the Italian region of Friuli Venezia Giulia had been affected by rabies in the 1970s and 1980s, and more recently in the period from 1991 to 1995 [2]. In the last 5 years, the annual rabies surveillance carried out in this region consisted of 310 (2004), 210 (2005), 123 (2006), 94 (2007) and 85 (up to October 2008) foxes

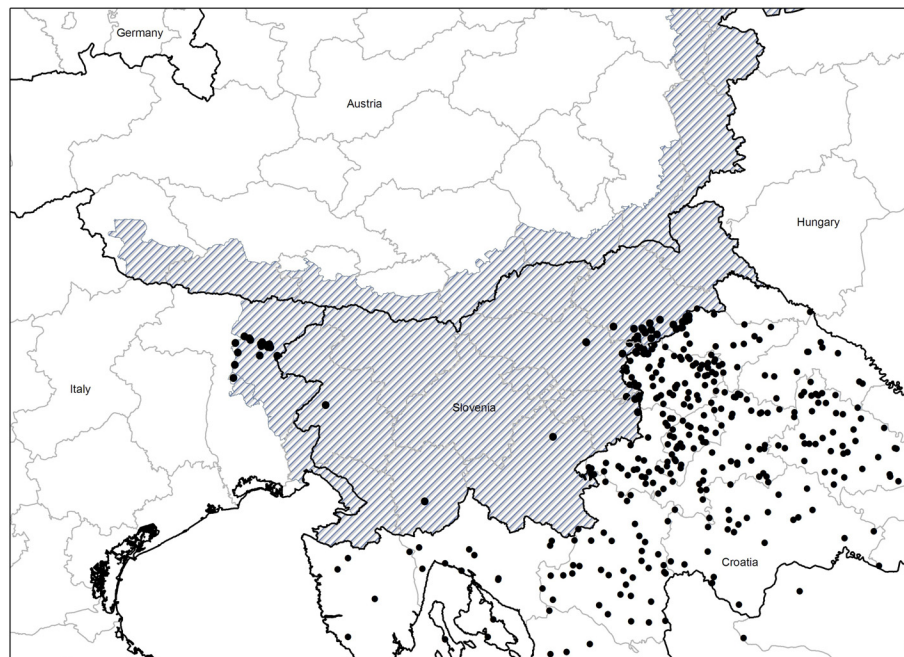


Figure 1 Rabies situation in Italy and Slovenia. Rabies cases detected in 2008 and 2009 (dots) and the resulting ORV campaigns carried out in spring 2009 (shaded area) are shown

analysed. Oral rabies vaccination (ORV) campaigns using SAD B19 vaccine baits have been conducted in this area in 1989 and from 1992 to 2004. The last rabies case in Italy was diagnosed in a fox in the extreme Eastern province of Trieste at the border with Slovenia, in December 1995 and Italy has been classified as rabies-free since 1997. The current 2008-2009 epidemic involves seven Municipalities in the Friuli Venezia Giulia region (Fig. 1), with a total of 16 animals affected: 13 red foxes, 2 badgers and 1 roe deer, the last case being diagnosed on 5th May 2009. As a consequence, preventative measures were implemented in the affected areas of Italy, including compulsory rabies vaccination of dogs and domestic herbivores at risk of infection (i.e. cows, horses, sheep and goats kept outdoors), prohibition of hunting with dogs, enhancement of surveillance in the wild animal population and implementation of ORV campaigns. Furthermore, an informative campaign aiming to increase the risk-awareness of the local population was conducted. In January and February 2009 ORV (emergency vaccination) was organised and managed by the regional Veterinary Service and carried out by hunters' associations in the area covering approx. 1,618 sqkms. A total of 35,000 SAG2 vaccine baits (ca. 20 baits/sqkm) were manually distributed. SAG2 baits were tested for viral stability 4, 8 and 14 days after distribution; at this occasion baits uptake was also assessed. A total of 41 shot or dead foxes were tested for rabies infection, vaccine uptake by tetracycline marker detection and post vaccination immunity by FAVN test (3). The area intended for ORV was selected based on the location of confirmed rabies cases and according to the previous

experience in epidemic control which aimed at keep as small as possible the ORV area. In fact, the majority of them were concentrated in the Resia municipality, in a valley in direct communication with Slovenia. As a matter of fact only a single rabid fox was detected outside the vaccination area. As a consequence of this geographically-distinct case, the second vaccination campaign performed during the last week of May 2009 covered the previous area and the new affected municipality of Buja and neighboring territories (Fig 1).

In October 2008, the competent Slovenian veterinary authority, the Veterinary Administration of the Republic of Slovenia, was notified by the Italian authorities of fox rabies detected in Italy, in an area bordering on Slovenia. The Republic of Slovenia has been conducting rabies eradication programme including ORV of foxes since 1988. From 1995 to 2000 the entire territory of Slovenia was covered with baits twice annually using aircraft distribution. From 2000, ORV was discontinued in the North-West of Slovenia, as no rabies cases had been detected there for a number of years. As a result of ORV the incidence of rabies decreased from 1,089 rabies cases in 1995, down to merely 2 – 3 rabies cases in a year within the more recent number of years, all near the Croatian border. On account of an increased infection pressure from Croatia, where no ORV of foxes is practised, the rabies incidence in Slovenia increased in 2008. Intensive surveillance and monitoring of the ORV programm has been carried out including rabies incidence, bait uptake, seroconversion and bait titration. In 2008, 2,619 animals were subjected to rabies testing, out of which 2.332 were foxes. In ORV areas the bait uptake was 79.62 % and is

regarded satisfactory, as well as the attained immunity of 62.26%. Rabies was diagnosed in 55 animals (51 foxes, 2 badgers, 1 horse, 1 dog), whereof all except one originated from areas bordering the Republic of Croatia. A single rabies case (fox) outside the vaccination area was detected in the municipality of Kanal, bordering a region in Italy, where rabies had been detected by the end of October 2008. No new rabies cases were detected by the intensified controls in this area.

In the light of new developments concerning rabies, Slovenia had decided to re-extend the anti-rabies vaccination area to the entire territory of the country. To this end, a modified rabies eradication programme had been submitted for approval to the European Commission, on which basis Slovenia has been granted the additional funds required for the regular implementation of the programme. Thus, within the spring oral fox vaccination campaign conducted in the second half of May 2009, 450,000 baits (100,000 more than in the preceding campaigns) were distributed in the entire territory of the Republic of Slovenia, at the density of 22 - 24 baits/sqkm. Specific focus was on laying baits in the area that had not been covered in the recent years,

and in the area with prevailing rabies cases detected in Slovenia.

Fox rabies is a transboundary disease and essentially a Veterinary Public Health concern. Its control is successful only when a constant and concerted strategy between the Veterinary and Human Health Authorities from the neighbouring countries is continuously maintained by means of networking and exchange of information, aiming at early detection of infection.

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3. 1 Oral Rabies Vaccination (ORV) campaigns in jeopardy!?

Editorial team of the WHO Rabies Bulletin Europe

In spite of the tremendous progress in wildlife rabies control, nowadays, new very worrisome phenomena have been observed that could jeopardize the successes obtained in certain areas. For instance, in several countries the implementation of oral vaccination

campaigns have been interrupted, postponed or even cancelled due to legal issues. This is a very important matter and could lead to serious set-backs in wildlife rabies control. As a WHO Collaborating Centre for Rabies Control and Surveillance we feel obliged to bring this matter to

your attention and hopefully corrective measures are initiated by the parties involved. As a result of the co-financing of the ORV campaigns by the European Union, Member States are obliged to announce these campaigns and purchase the oral rabies vaccine baits and or distribution means through a public tender procedure. This procedure has unfortunately lead to several incidents whereby the outcome of the public tender has been questioned by parties that have not been rewarded the tender. In other cases, the tender procedure itself has been questioned. In some of these court cases we have been approached to give an expert statement on the issues raised. One of the most important issues debated are the so-called technical specifications of the vaccine baits. It seems that every country wants to establish their own technical specifications that are often not scientifically valid and therefore open for dispute. Unfortunately, in some countries the technical specifications in the tender include additional or even more stringent requirements based on other published and/or unpublished sources. There exists a common misconception that some vaccines are recommended by WHO in favour to others.

Basically, every commercial company can participate in such a public tender as long as its product (in this case an oral rabies vaccine bait) is registered and/or licensed by the national regulatory authorities or has been registered and approved by EMEA. In the European Pharmacopoeia (EP) a monograph concerning oral rabies vaccine for foxes has been incorporated and here the requirements for such oral vaccine bait are described in detail in terms of safety and efficacy.

Of course, every country is entitled to set up their own specifications to meet the particular demands of the country's specific conditions but as seen in recent times this has actually lead to several incidents and postponement of the planned campaigns. Sometimes these additional specifications are questionable and could actually have a negative impact on the success of the vaccination campaigns. We therefore strongly suggest that countries within the EU that purchase baits through public tender procedures will limit the technical specifications of the vaccine baits to the requirements as listed in the EP monograph. Only under special circumstances additional specifications can be incorporated, however these must be supported by appropriate references.

Another issue is the financial burden of an emergency vaccination in case of a re-introduction of the disease. Like in Slovenia and Italy, deadlines for application for financial support by the European Commission may have passed and therefore 100% of the costs will have to be paid by the affected countries. In case those countries are not capable of financing such a program especially considering the current economic crisis, the rabies free status of other neighbouring countries may be in danger. An emergency fund for these events should be made available by the European commission.

All measures should be applied to make sure that the planned campaigns can be implemented without delay so that the great progress made in wildlife rabies control will continue uninterrupted in those countries where oral rabies vaccination (ORV) has been implemented.

3.2 GEORGE M. BAER, MPH, DVM, 1936-2009

"Dr. George Martin Baer died on June 2, 2009, in Mexico City, Mexico, at the age of 73. He was an eminent virologist, veterinarian, and public health scientist. Dr. Baer was born during 1936 in London, England. He grew up in New Rochelle, New York, where he became an accomplished equestrian, and began a lifelong love of animals. He attended Cornell University, where he obtained an undergraduate degree in agricultural sciences in 1954, and a degree in veterinary medicine in 1959. He earned a Master's degree in Public Health from the University of Michigan at Ann Arbor during 1961. Thereafter, Dr. Baer started his career in public health with the CDC in Atlanta, Georgia, USA, via the Epidemic Intelligence Service, and was assigned to the New York State Health Department in Albany, where he focused upon brucellosis, psittacosis, and rabies. In 1964, he worked at CDC's Southwest Rabies Investigations Laboratory in Las Cruces New Mexico on bat rabies. During 1966 to 1969, he was a consultant to the Pan American Health Organization in Mexico. Based upon his efforts, he helped to lay the groundwork for Mexico's public health programs against rabies, an effort he continued throughout the rest of his professional life. In 1969, he returned to Atlanta, and became head of the CDC Rabies Laboratory. Over the next two decades, he made multiple substantive contributions to rabies virus diagnosis, prevention, and control. His considerable expertise made him one of the foremost international experts in this arena. With his team of researchers, he is perhaps best known for development of a method for the

immunization of wildlife, for which he was credited as the "Father of Oral Rabies Vaccination". Of his more than 100 scientific contributions, his 1991 book, *The Natural History of Rabies*, remains a definitive reference in the field. After retirement from CDC, he founded a diagnostic laboratory in Mexico City, and was a member of the Mexican International Steering Committee for the Rabies in the Americas Conference. At the time of his death, he was working on a new vaccine for influenza, a timely project given the recent outbreak of the H1N1 virus. Clearly, Dr. Baer acted from a deeply held belief in the power of preventive medicine, within the 'one health' concept to combat disease both in humans and other animals. He is survived by his wife, Maria Olga Baer, three daughters, Katherine Baer, of Washington, D.C., Alexandra Baer, of New Paltz, New York, and Isabella Baer, of Mexico City, and four granddaughters. Funeral services were held in Mexico City at the Iglesia de Santa Rosa de Lima on June 4, 2009."

Charles C. Rupprecht, CDC, Atlanta

"Dr. George Baer was an extraordinary personality. He was an inventor, a scientist, as well as a visionary. He was ambitious, a polyglot, an art collector, and he liked to surprise. In short, George Baer had too many outstanding qualities to describe them all in this short paragraph. In the early 1960s George Baer discovered that foxes can be immunized by oral application of the live attenuated ERA (Evelyn Rokitniki Abelseth) virus. The discovery did not gather much attention until it was presented by

his colleague W.G. "Jerry" Winkler at a WHO conference to a European audience in 1970. Europe had a significant rabies problem at that time. During World War II a fox rabies epizootic had begun spreading from Russia and Poland toward the West. The epizootic front advanced in a wavelike fashion with a speed of approximately 25 to 60 km per year. After 30 years of wildlife rabies, Europeans had grown tired of the inhumane and ineffective rabies control by fox destruction. Jerry Winkler's message was met by an attentive audience that enthusiastically accepted the CDC's offer for cooperative research. Subsequently, George Baer's Rabies Laboratory in the Center for Disease Control in Lawrenceville provided ERA virus for studies at the "Centre de Recherche sur la Rage" in Nancy, France, the "Staatliches Veterinäruntersuchungsamt" in Frankfurt a.M., Germany, and the Swiss Rabies Center at the Veterinary School in Berne, Switzerland. The manufacturer of the commercial ERA vaccine permitted our experimentation, although we had to rename the virus to SAD (Street Alabama Dufferin). WHO facilitated the cooperation of American, Canadian, and European research groups, primarily by sponsoring conferences. George Baer played a prominent role in many of these meetings, and so did other teams from North America. Our first goals were to establish procedures for producing the vaccine and to perform extensive efficacy and

safety tests with these products. Other live attenuated rabies vaccines were studied as well, but ERA performed best. Not all of us came easily to the conclusion that it would be safe and efficacious for field application. Field studies on rabies epidemiology and fox population biology and mathematical modeling supported the different theoretical outcomes. In 1978, the late Franz Steck, leader of the Swiss team, concluded that the time was right for a first field application. Switzerland was joined five years later by Germany, by Italy in 1984, and by other European countries after 1985. With the expansion of oral fox immunization in Western Europe, rabies in terrestrial carnivores disappeared from the area. George Baer was aware of the great significance of the European successes and devoted a chapter to these accomplishments in the second edition of his "Natural History of Rabies". At this time he also devoted his attention to other goals, such as the initiation of the "Rabies in the Americas (RITA)" conferences whose goal was to develop stronger collaboration between rabies research groups. RITA has continued to be a success and this year celebrates its 20th annual conference in Quebec City, Canada."

*Alex Wandeler, Ottawa Laboratory
Fallowfield (OLF)*

4 DISTRIBUTION OF RABIES IN EUROPE

4.1 Country summaries of rabies cases, 1st quarter 2009

01.01.09-31.03.09

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 mustelids	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	29	14	18	2					63	172	17		1	1		8								199		262	
Belgium	BEL *									0															0		0	
Bosnia - Hercegovina	BIH	2		4						6	7														7		13	
Bulgaria	BGR **									0															0		0	
Croatia	HRV	14	6	2	1	3				26	293			1		2				1					297		323	
Cyprus	CYP *									0															0		0	
Czech Republic	CZH *									0															0		0	
Denmark	DNK *									0															0		0	
Estonia	EST *									0															0		0	
Finland	FIN *									0															0		0	
France	FRA *									0															0		0	
Germany	DEU									0															0	1	1	
Greece	GRC *									0															0		0	
Hungary	HUN									0	1														1		1	
Iceland	ISL *									0															0		0	
Ireland	IRE *									0															0		0	
Italy	ITA									0	3				1						1				5		5	
Latvia	LVA									0	7	6				1					1				15		15	
Lithuania	LTU	1	1	1						3	6	6													12		15	
Luxembourg	LUX *									0															0		0	
Macedonia	MKD *									0															0		0	
Malta	MLT *									0															0		0	
Moldova	MDA	8		1	1	1				11	10														10		21	
Montenegro	MNE	1								1	13														13		14	
Norway	NOR *									0															0		0	
Poland	POL									0	3														3		3	
Portugal	PRT *									0															0		0	
Romania	ROU	8	5	2	1	12				28	179						2								181		209	
Russian Federation	RUS	153	71	39	4	10	1	1		279	267	34		2	4	3	1			1			4		316		595	
Serbia	SRB	5	6							11	53														53		64	
Slovak Republic	SVK *									0															0		0	
Slovenia	SVN			1						1	11														11		12	
Spain	ESP *									0															0		0	
Sweden	SWE *									0															0		0	
Switzerland + Lichtenstein	CHE *									0															0		0	
The Netherlands	NED *									0															0		0	
Turkey	TUR	34	8	16	4					62	2														2		64	
Ukraine	UKR	60	59	7		3				129	86	3		1		2									92		221	
United Kingdom	UNK									0															0		1	
TOTAL		315	170	91	13	29	1	1	0	620	1113	66	0	2	5	6	14	3	0	4	0	0	0	4	1217	1	1	1839
PER CENT		17,1%	9,2%	4,9%	0,7%	1,6%	0,1%	0,1%	0,0%	33,7%	60,5%	3,6%	0,0%	0,1%	0,3%	0,3%	0,8%	0,2%	0,0%	0,2%	0,0%	0,0%	0,0%	0,2%	66,2%	0,1%	0,1%	100%

* NO CASES

** NO DATA

4.2 Rabies cases per country and administrative units, 1st quarter 2009

01.01.09-31.03.09

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	2		1						3	8					1								9			12	
Gomel	7	7	4						18	23	2		1		2									28			46
Grodno	8	4	9	2					23	54	6		1		3									64			87
Minsk	4		2						6	35	1				2									38			44
Mogelev			1						1	24	1													25			26
Vitebsk	8	3	1						12	28	7													35			47
TOTAL	29	14	18	2	0	0	0	0	63	172	17	0	1	1	0	8	0	0	0	0	0	0	0	199	0	0	262
PER CENT	11.1%	5.3%	6.9%	0.8%	0.0%	0.0%	0.0%	0.0%	24.0%	65.6%	6.5%	0.0%	0.4%	0.4%	0.0%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	76.0%	0.0%	0.0%	100%
BOSNIA - HERCEGOVINA																											
Bosansko-podrinjski									0	2														2			2
Sokolac			2						2															0			2
Srednjobosanski	1								1	2														2			3
Tuzlanski									0	1														1			1
Unsko-sanski	1		2						3															0			3
Vlasenica									0	1														1			1
Zenicko-dobojski									0	1														1			1
TOTAL	2	0	4	0	0	0	0	0	6	7	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	13	
PER CENT	15.4%	0.0%	30.8%	0.0%	0.0%	0.0%	0.0%	0.0%	46.2%	53.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	53.8%	0.0%	0.0%	100%	
CROATIA																											
Bjelovarsko - Bilogorska	1		1						2	13														13			15
Istarska									0	7														7			7
Karlovacka	1				2				3	15														15			18
Koprivnicko - Krizevaska									0	17														17			17
Krapinsko - Zagorska									0	27					1									28			28
Licko - Senjska									0	15														15			15
Medimurska	1								1	8														8			9
Osjesko - Baranjska	3	2							5	12														12			17
Pozesko - Slovanska									0	1														1			1
Primorsko - Goranska	1	1							2	50			1					1						52			54
Sibensko - Kninska									0	7					1									8			8
Sisacko - Moslovska	1		1	1	1				4	12														12			16
Splitsko - Dalmatinska		1							1															0			1
Varazdinska	3								3	27														27			30
Viroticko - Podravska	1								1	7														7			8
Vukovarsko - Srijemska									0	11														11			11
Zadarska									0	5														5			5
Zagreb	1	2							3	20														20			23
Zagrebacka	1								1	39														39			40
TOTAL	14	6	2	1	3	0	0	0	26	293	0	0	0	1	0	2	0	0	1	0	0	0	297	0	0	323	
PER CENT	4.3%	1.9%	0.6%	0.3%	0.9%	0.0%	0.0%	0.0%	8.0%	90.7%	0.0%	0.0%	0.0%	0.3%	0.0%	0.6%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	92.0%	0.0%	0.0%	100%	

4.2 Rabies cases per country and administrative units, 1st quarter 2009

01.01.09-31.03.09

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	
GERMANY																											
Grafschaft Bentheim									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%	0.0%	100.0%	0.0%	100%
HUNGARY																											
Csongrád									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	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%	100.0%	0.0%	0.0%	100%	
ITALY																											
Udine									0	3				1					1					5			5
TOTAL	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0	0	1	0	0	0	0	5	0	0	5
PER CENT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	60.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
LATVIA																											
Daugavpils r.									0							1							1			1	
Ludzas r.									0	1													1			1	
Madonas r.									0	1	1												2			2	
Ogres r.									0	1													1			1	
Preiļu r.									0		1												1			1	
Saldus r.									0		2								1				3			3	
Talsu r.									0	1	1												2			2	
Tukuma r.									0	3	1												4			4	
TOTAL	0	0	0	0	0	0	0	0	0	7	6	0	0	0	0	1	0	0	0	1	0	0	0	15	0	0	15
PER CENT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	46.7%	40.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
LITHUANIA																											
Kauno									0	1													1			1	
Marijampoles			1						1														0			1	
Taurages									0	1	1												2			2	
Telsiu									0	1													1			1	
Utenos									2		3												3			5	
Vilniaus	1	1							0	3	2												5			5	
TOTAL	1	1	1	0	0	0	0	0	3	6	6	0	0	0	0	0	0	0	0	0	0	0	12	0	0	15	
PER CENT	6.7%	6.7%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	40.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.0%	0.0%	0.0%	100%	
MOLDOVA																											
Moldova	8		1	1	1				11	10													10			21	
TOTAL	8	0	1	1	1	0	0	0	11	10	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	21	
PER CENT	38.1%	0.0%	4.8%	4.8%	4.8%	0.0%	0.0%	0.0%	52.4%	47.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	47.6%	0.0%	0.0%	100%	

4.2 Rabies cases per country and administrative units, 1st quarter 2009

01.01.09-31.03.09

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
MONTENEGRO																										
Montenegro	1								1	13													13			14
TOTAL	1	0	0	0	0	0	0	0	1	13	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	14
PER CENT	7,1%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	7,1%	92,9%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	92,9%	0,0%	0,0%	100%
ROMANIA																										
Alba				1	10				11														0			11
Arad									0	4													4			4
Bacau	1				1				2	18													18			20
Bihar									0	3													3			3
Bistrita-Nasaud									0	24													24			24
Botosani	1								1														0			1
Brasov									0	2													2			2
Buzau		2							2	2													2			4
Calarasi									0	1													1			1
Cluj									0	11						1							12			12
Constanta									0	1													1			1
Covasna				1					1	5													5			6
Dambovita									0	6													6			6
Doj					1				1	2													2			3
Galati									0	1													1			1
Giurgiu	1								1														0			1
Gorj									0	15													15			15
Harghita	1								1	9													9			10
Hunedoara									0	5													5			5
Ialomita									0	4													4			4
Ilfov									0	5													5			5
Mures		1							1	4													4			5
Olt		1							1														0			1
Prahova	4	1							5	5													5			10
Salaj									0	17													17			17
Satu Mare									0	2													2			2
Sibiu									0	12													12			12
Suceava									0	8													8			8
Teleorman									0	1													1			1
Tulcea				1					1	4						1							5			6
Valcea									0	4													4			4
Vaslui									0	4													4			4
TOTAL	8	5	2	1	12	0	0	0	28	179	0	0	0	0	0	2	0	0	0	0	0	0	181	0	0	209
PER CENT	3,8%	2,4%	1,0%	0,5%	5,7%	0,0%	0,0%	0,0%	13,4%	85,6%	0,0%	0,0%	0,0%	0,0%	0,0%	1,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	86,6%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 1st quarter 2009

01.01.09-31.03.09

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																										
Astrahanskaja obl.	5	11	4		4				24	1				1		1			1				4			28
Belgorodskaja obl.	12	10	1	1	2				26	8						1			1				9			35
Brjanskaja obl.	3								3	7													7			10
Cecenskaja resp.	1								1														0			1
Cuvasskaja resp.	3	1	4						8	10													10			18
Dagestan resp.	1		1						2														0			2
Ivanovskaja obl.	1								1	1	2											1	4			5
Jaroslavskaja obl.	1								1	9													9			10
Kaliningradskaja obl.	1								1	3	2												5			6
Kalmykija resp.		2	1						3														0			3
Kaluzskaja obl.	1								1	34	5												39			40
Karacaevo-Cerkesskaja resp.	1		1	1					3														0			3
Krasnodarskij kr.	9		1				1		11	1													1			12
Kurskaja obl.	1	4							5	2													2			7
Lipeckaja obl.	2								2	3												1	4			6
Marij El resp.									0	2													2			2
Mordovija resp.	1								1	6													6			7
Moskovskaja obl.	9	5							14	37	11					1							49			63
Nizegorodskaja obl.	10								10	16	1											1	18			28
Novgorodskaja obl.									0	1	1												2			2
Orlovskaja obl.			1						1	3													3			4
Penzenskaja obl.	6	3	1						10	19													19			29
Pskovskaja obl.	4								4	6													6			10
Rjazanskaja obl.	1								1	2					1								3			4
Rostovskaja obl.	5	2	1			1			9					1									1			10
Saratovskaja obl.	20	14	9	1	2				46	17							1						18			64
Severnaja Osetija-Alanija resp.	13	2	5						20	1													1			21
Smolenskaja obl.	4	1							5	17	5												22			27
Stavropolskij kr.	2		6						8	2													2			10
Tambovskaja obl.	2								2	3													3			5
Tul'skaja obl.	2	2							4	7													7			11
Tverskaja obl.	8			1					9	19	6				1								26			35
Uljanovskaja obl.	1	1	1						3	9													9			12
Vladimirskaja obl.	7	2			1				10	10	1											1	12			22
Volgogradskaja obl.	11	2	1		1				15	5													5			20
Voronezskaja obl.	5	9	1						15	6				1	1								8			23
TOTAL	153	71	39	4	10	1	1	0	279	267	34	0	0	2	4	3	1	0	1	0	0	4	316	0	0	595
PER CENT	25,7%	11,9%	6,6%	0,7%	1,7%	0,2%	0,2%	0,0%	46,9%	44,9%	5,7%	0,0%	0,0%	0,3%	0,7%	0,5%	0,2%	0,0%	0,2%	0,0%	0,0%	0,7%	53,1%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 1st quarter 2009

01.01.09-31.03.09

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	
SERBIA																											
Central Serbia	3	4							7	42														42			49
Vojvodina	2	2							4	11														11			15
TOTAL	5	6	0	0	0	0	0	0	11	53	0	0	0	0	0	0	0	0	0	0	0	0	0	53	0	0	64
PER CENT	7,8%	9,4%	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%	0,0%	82,8%	0,0%	0,0%	100%
UNITED KINGDOM																											
Belfast									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	0	1	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%	0,0%	0,0%	100,0%	100%
UKRAINE																											
Bolynskaja o.	2	3							5	4														4			9
Cherkasskaja o.	2	5	1						8	5														5			13
Chernigovskaja o.	2	4	1						7	7		1												8			15
Chernovitskaja o.									0	1														1			1
Dnepropetrovskaja o.	8	3							11	4	2													6			17
Donetskaja o.	2	5							7	1				1										2			9
Ivano-Frankovskaja o.	1		1						2															0			2
Khar'kovskaja o.	3	10							13	1														1			14
Khersonskaja o.	3	2							5	3				1										4			9
Khmel'nitskaja o.	11	3	1						15	9														9			24
Kirovogradskaja o.	1	1							2															0			2
Kiyevskaja o.	3	1							4	2														2			6
Luganskaja o.	2	3	1						6	2	1													3			9
L'vovskaja o.	1								1															0			1
Nikolajevskaja o.		2	1						3	1														1			4
Odesskaja o.	2	1							3	6														6			9
Poltavskaja o.		3							3	2														2			5
Rovenskaja o.	2	1							3	1														1			4
Sumskaja o.	3	5							8	1														1			9
Ternopol'skaja o.									0	3														3			3
Vinnitskaja o.	3	4	1		1				9	10														10			19
Zakarpatskaja o.		1			1				2	1														1			3
Zaporozhskaja o.	1	1							2	1														1			3
Zhitomirskaja o.	8	1			1				10	21														21			31
TOTAL	60	59	7	0	3	0	0	0	129	86	3	0	1	0	2	0	0	0	0	0	0	0	0	92	0	0	221
PER CENT	27,1%	26,7%	3,2%	0,0%	1,4%	0,0%	0,0%	0,0%	58,4%	38,9%	1,4%	0,0%	0,5%	0,0%	0,9%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	41,6%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 1st quarter 2009

01.01.09-31.03.09

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
TURKEY																										
Adana	3	1							4															0		4
Afyon	1	1							2															0		2
Artvin			2						2															0		2
Aydin	1	1							2															0		2
Balikesir	5		1						6															0		6
Bitlis	1								1															0		1
Burdur	1	1	1						3															0		3
Denizli			1						1															0		1
Diyarbakir	4		3	1					8															0		8
Erzurum	3		1						4															0		4
Gumushane	2								2															0		2
Hatay	3	1							4															0		4
Isparta		1							1															0		1
Istanbul	3								3															0		3
Izmir	1		2						3															0		3
Kutahya	1								1															0		1
Manisa			1						1	1														1		2
Mardin		1							1															0		1
Nigde	4	1	3	2					10															0		10
Ordu	1								1															0		1
Sanliurfa			1	1					2	1														1		3
TOTAL	34	8	16	4	0	0	0	0	62	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	64
PER CENT	53.1%	12.5%	25.0%	6.3%	0.0%	0.0%	0.0%	0.0%	96.9%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.1%	0.0%	0.0%	100%
POLAND																										
Lubelskie									0	3														3		3
TOTAL	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3
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%
SLOVENIA																										
Dolenjska									0	2														2		2
Gorenjska									0	1														1		1
Notranjsko-kraska			1						1	3														3		4
Podravska									0	3														3		3
Savinjska									0	2														2		2
TOTAL	0	0	1	0	0	0	0	0	1	11	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	12
PER CENT	0.0%	0.0%	8.3%	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%	91.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	91.7%	0.0%	0.0%	100%

4.3 Trend tables

4.3.1 Comparison of the reporting quarter (I/2009) with the previous quarter (IV/2008)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	I 2009 (no.)	IV 2008 (no.)	Difference	I 2009 (no.)	IV 2008 (no.)	Difference	I 2009 (no.)	IV 2008 (no.)	Difference	I 2009 (no.)	IV 2008 (no.)	Difference	I 2009 (no.)	IV 2008 (no.)	Difference
Albania															
Austria															
Belarus	262	247	15	199	173	26	63	74	-11						
Belgium															
Bosnia - Hercegovina	13	11	2	7	7		6	4	2						
Bulgaria	*	18		*	15		*	3		*			*		
Croatia	323	239	84	297	224	73	26	15	11						
Cyprus															
Czech Republic															
Denmark															
Estonia															
Finland															
France		2	-2					1	-1		1	-1			
Germany	1	3	-2					1	-1	1	2	-1			
Greece															
Hungary	1	3	-2	1	2	-1		1	-1						
Iceland															
Ireland															
Italy	5	9	-4	5	9	-4									
Latvia	15	23	-8	15	21	-6		2	-2						
Lithuania	15	11	4	12	7	5	3	4	-1						
Luxembourg															
Macedonia															
Malta															
Moldova	21	12	9	10	3	7	11	9	2						
Montenegro	14	8	6	13	7	6	1	1							
Norway															
Poland	3	7	-4	3	6	-3		1	-1						
Portugal															
Romania	209	240	-31	181	158	23	28	82	-54						
Russian Federation	595	763	-168	316	373	-57	279	384	-105					6	-6
Serbia	64	66	-2	53	52	1	11	14	-3						
Slovak Republic															
Slovenia	12	13	-1	11	12	-1	1	1							
Spain															
Sweden															
Switzerland + Lichtenstein															
The Netherlands															
Turkey	64	65	-1	2	5	-3	62	60	2						
Ukraine	221	497	-276	92	215	-123	129	282	-153						
United Kingdom	1	1									1	-1	1		1
TOTAL	1839	2238	-381	1217	1289	-57	620	939	-316	1	4	-3	1	6	-5

Wildlife: excluding bats

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

Difference: no. of cases in I/2009 minus cases in IV/2008

* no data

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

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	I 2009 (no.)	I 2008 (no.)	Difference	I 2009 (no.)	I 2008 (no.)	Difference	I 2009 (no.)	I 2008 (no.)	Difference	I 2009 (no.)	I 2008 (no.)	Difference	I 2009 (no.)	I 2008 (no.)	Difference
Albania															
Austria															
Belarus	262	288	-26	199	225	-26	63	63							
Belgium															
Bosnia - Hercegovina	13	37	-24	7	34	-27	6	3	3						
Bulgaria	*	12		*	9		*	3		*			*		
Croatia	323	384	-61	297	349	-52	26	35	-9						
Cyprus															
Czech Republic															
Denmark															
Estonia		3	-3		1	-1		2	-2						
Finland															
France		2	-2					1	-1		1	-1			
Germany	1		1							1		1			
Greece															
Hungary	1		1	1		1									
Iceland															
Ireland															
Italy	5		5	5		5									
Latvia	15	43	-28	15	33	-18		10	-10						
Lithuania	15	21	-6	12	16	-4	3	5	-2						
Luxembourg															
Macedonia															
Malta															
Moldova	21	17	4	10	5	5	11	12	-1						
Montenegro	14	9	5	13	9	4	1		1						
Norway															
Poland	3	11	-8	3	8	-5		3	-3						
Portugal															
Romania	209	510	-301	181	477	-296	28	33	-5						
Russian Federation	595	1310	-715	316	628	-312	279	681	-402					1	-1
Serbia	64	98	-34	53	92	-39	11	6	5						
Slovak Republic															
Slovenia	12	26	-14	11	25	-14	1	1							
Spain		2	-2					1	-1		1	-1			
Sweden															
Switzerland + Lichtenstein															
The Netherlands															
Turkey	64	97	-33	2	25	-23	62	72	-10						
Ukraine	221	863	-642	92	359	-267	129	502	-373					2	-2
United Kingdom	1		1										1		1
TOTAL	1839	3733	-1882	1217	2295	-1069	620	1433	-810	1	2	-1	1	3	-2

Wildlife: excluding bats

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

Difference: no. of cases in I/2009 minus cases in I/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 Généralé 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
Internet www.vetservice.org

BUL Bulgaria

To be announced

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
email 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
i.nagl@svupraha.cz

DNK Denmark

Dr. Preben Willeberg, CVO
Pia Vestergaard, Veterinary Officer
Division 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
Internet 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
Internet 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
Internet www.fli.bund.de

GRC Greece

Dr. B. Stylas
Ministry of Agriculture

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
Solvholsgata 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
email: 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

Dr. Mevlida Hrapovic
Republic of Montenegro
Email mevlida.hrapovic@mn.yu

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 en 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.: +48.22.623.20.88-89 or 628.85.11
Fax: +48.22.623.14.08
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.: +48.81.886.30.51
Fax: +48.81.886.25.95
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.: +48.22.623.22.64
Fax: +48.22.623.14.08
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
e-mail epizootviev@mail.ru
Tel. (495) 377-9483
Fax (495) 970-0369

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

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, 420 528
Fax: +381 21 6611 003, 420 528
Email: paster-ns@neobee.net

SVK Slovak Republic

Prof. Josef Bires, CVO
Roman Matejcik, 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 Mojziš, 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
Internet 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
Internet 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 46
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
e-mail breitenmoser@ivv.unibe.ch
Internet 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. Verbytskiy
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@minapk.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/Fax +380-44-243 37 55
e-mail biotech@astral.kiev.ua

UNK United Kingdom

Dr. J.M. Scudamore, CVO
Dr. F. Landeg
Dr. Anna Guitton
Department for Environment, Food and
Rural Affairs
Room 205a, 1A Page Street
London, SW1P 4PQ
Tel. +44-20-7904 6069
Fax +44-20-7904 6913
e-mail fred.Landeg@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
1st QUARTER 2009
1839 CASES REPORTED

1 BAT RABIES CASE INCLUDED
1 HUMAN RABIES CASE INCLUDED

■ rabies free (terrestrial rabies)
□ no data

200 km

Black Sea

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Wusterhausen / DEU
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