

RABIES BULLETIN EUROPE

Volume 30

No 2

Quarter 2

2006

CONTENTS

1	Editorial	3
2	Summary of rabies cases in Europe	4
3	Miscellaneous Articles	5
3.1	RABIES IN ROMANIA – PAST, PRESENT AND FUTURE	5
4	Distribution of rabies in Europe	10
4.1	Country summaries of rabies cases, 2nd quarter 2006	10
4.2	Rabies cases per country and administrative units, 2nd quarter 2006	11
4.3	Trend tables	17
4.3.1	Comparison of the reporting quarter (II/2006) with the previous quarter (I /2006)	17
4.3.2	Comparison of the reporting quarter (II/2006) with the same quarter of the previous year (II/2005)	18
5	List of contributors	19
	Map of rabies cases in Europe, 2nd quarter 2006	

Principal Editor: Conrad Freuling
Associated Editor: Dr. Thomas Müller
Technical Support: Anke Kliemt
Heike Kubitz
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: Hilgenfeldt & Kontny, Gartow, Germany
www.druckerei-hk.de

ISSN 0257-8506

The Rabies Bulletin Europe is also available online: www.who-rabies-bulletin.org.

Acknowledgements

The Rabies Bulletin Europe is sponsored by the:

World Health Organization, Geneva
World Organisation for Animal Health (OIE), Paris

Gratefully acknowledged is the financial support of the WHO Collaborating Centre by the

Bundesministerium für Gesundheit und Soziale Sicherung and by the
Bundesministerium für Ernährung, Landwirtschaft und Verbraucherschutz,
Germany

1. Editorial

Bat rabies is a very important aspect of rabies research in epidemiology, control and eradication. Two teenagers from Texas and Indiana (USA) died of rabies this year. The rabies virus (RABV) was presumably transmitted by bats. In Europe, where bats can be found infected with EBLV1 and EBLV2 only few human rabies cases associated with bat contacts are reported. Yet the importance of information and research on bat rabies can be seen in a recent event in Denmark. A young girl was bitten by a bat which was later destroyed but could not be tested. The girl was referred to the nearest paediatric medical service for management of the potential rabies exposure. Post-exposure prophylaxis (PEP) was started (human rabies immunoglobulin was administered and a course of rabies vaccination was begun). During the summer, the patient's parents had noticed several bats lying on the ground around the farm, unable to fly, but they had not previously reported this. Because the dead bat that bit the child had been crushed, it was not possible to test brain tissue for rabies virus. Nine dead bats were then collected from the farm and tested at the Danish Institute for Food and Veterinary Research. Of these 9 bats, 4 tested positive for a bat variant of rabies virus, European Bat Lyssavirus (EBLV). (Source: ProMED-mail) Such biting incidents with positive tested bats and adequate post exposure prophylaxis given to the people affected have also been reported from Germany.

Nonetheless, worldwide, one main public health threat is still terrestrial rabies and hereby mainly urban transmission cycles in developing countries. Many countries in Western and Central Europe have successfully eradicated sylvatic rabies by means of oral immunisation of foxes (OIF). With the enlargement of the European Union more and more countries are starting rabies eradication programmes. In this issue we present an article about the rabies situation in Romania, a country with very high numbers of rabies cases in the past. The article not only reflects the past and present situation of rabies in this country but also outlines the planned activities towards eradication.

As usual, we present the rabies situation in Europe in tables and maps. For more information, see also the online version of the Rabies Bulletin Europe at www.who-rabies-bulletin.org.

Conrad Freuling

2. SUMMARY OF RABIES CASES IN EUROPE

RABIES CASES

2nd QUARTER 2006

01.04.06 -30.06.06

Name	Code	Total	Wildlife	Domestic animals	Bats	Human
ALBANIA	ALB	3	1	2	0	0
AUSTRIA	AUT	0	0	0	0	0
BELARUS	BLR	386	321	65	0	0
BELGIUM	BEL	0	0	0	0	0
BOSNIA - HERCEGOVINA	BIH	21	17	4	0	0
BULGARIA	BGR	2	1	1	0	0
CROATIA	HRV	113	104	9	0	0
CYPRUS	CYP	0	0	0	0	0
CZECH REPUBLIC	CZH	0	0	0	0	0
DENMARK	DNK	2	0	0	2	0
ESTONIA	EST	34	31	3	0	0
FINLAND	FIN	0	0	0	0	0
FRANCE	FRA	0	0	0	0	0
GERMANY	DEU	4	0	0	4	0
GREECE	GRC	0	0	0	0	0
HUNGARY	HUN	0	0	0	0	0
ICELAND	ISL	0	0	0	0	0
IRELAND	IRE	0	0	0	0	0
ITALY	ITA	0	0	0	0	0
LATVIA	LVA	139	123	16	0	0
LITHUANIA	LTU	615	530	85	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					
NETHERLANDS	NED	2	0	0	2	0
NORWAY	NOR	0	0	0	0	0
POLAND	POL	18	14	3	1	0
PORTUGAL	PRT	0	0	0	0	0
ROMANIA	ROU	41	29	12	0	0
RUSSIAN FEDERATION	RUS	276	123	153	0	0
SERBIA AND MONTENEGRO	SCG	43	41	2	0	0
SLOVAK REPUBLIC	SVK	0	0	0	0	0
SLOVENIA	SVN	0	0	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	65	4	61	0	0
UNITED KINGDOM	UNK	0	0	0	0	0
UKRAINE	UKR	355	180	175	0	0
TOTAL		2119	1519	591	9	0

Wildlife: excluding bats

* no data

3. Miscellaneous Articles

3.1 RABIES IN ROMANIA – PAST, PRESENT AND FUTURE

Marian AVRAM, Laurentiu CIUPESCU, Florin FIRUTA, Cristian SIPOSEAN, Mihai TURCITU,
Marin GRUIA, Nicolae STEFAN¹

Classical rabies is an infectious disease inevitably fatal to humans and warm blooded animals once symptoms develop. It is caused by genotype1 lyssaviruses of the genus rhabdovirus, order mononegavirales. Rabies occurs worldwide except for some regions where due to geographical isolation or implemented control measurements rabies has never been introduced or has been eradicated. For classical rabies different transmission cycles can be distinguished. Urban rabies is mainly transmitted by stray and feral dogs, whereas for sylvatic rabies in Europe the red fox (*Vulpes vulpes*)

and more recently the neozoon raccoon dog (*Nyctereutes procyonoides*) may also serve as reservoir species.

Romania used to be one of the countries with the highest number of rabies cases in animals in Europe. Between 1946 and 1956 the number of rabies cases reported was more than a thousand annually. However, it is not clear whether the diagnosis was based on clinical grounds or laboratory diagnosis. Urban rabies was predominant after World War II and before the arrival of the fox rabies epidemic. Dogs accounted for about 75 % of all rabies cases in

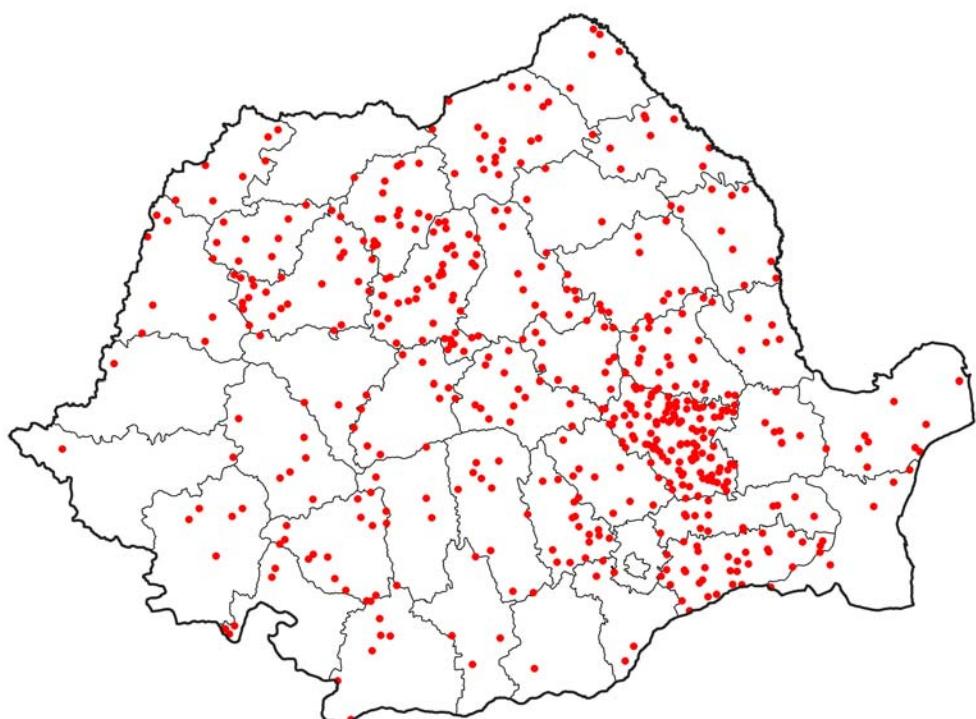


Figure1. Distribution of rabies cases in Romania in 2005 (530 cases)

1946. Control measurements were implemented in 1942, 1944 and in 1951 with the veterinary law No 71/1951. Following this law preventive vaccinations of a considerable number of domestic animals, e.g. dogs reduced the rabies incidence considerably and were capable of eradicating rabies in some regions. Despite these successes rabies remained endemic in 6 regions comprising the lower Carpathian area. From the mid of the sixties fox rabies cases increased rapidly indicating that as in other European countries a fox rabies epidemic encompassed Romania. Although there is no data available for the time before 1977 when reporting to the RBE started it can be assumed that rabies had been established in wildlife. Wolves played an important role in the transmission of rabies to humans; between 1951 and 1966 113 persons were bitten by rabid wolves.

Since 1999 a monitoring programme for rabies has been in place for both domestic and wild animals. In areas with high rabies incidences field trials for oral immunisation of foxes using Lysvulpen were initiated. Furthermore, all domestic species were vaccinated within these areas. As shown in figure 2, wildlife rabies is mostly fox dependent. The number of rabies cases diagnosed may differ according to the number of animals tested, indicating a need for improved surveillance following WHO and EU recommendations. Rabies in Romanian wildlife is very interesting in therefore as that Romania has a rich diversity in wild fauna. This is reflected in rabies cases diagnosed in brown bears, lynxes, wolves and otters. In 2004 a rabid brown bear killed two people and some more where injured, all injured receiving appropriated post exposure prophylaxis. The racoon dog which is

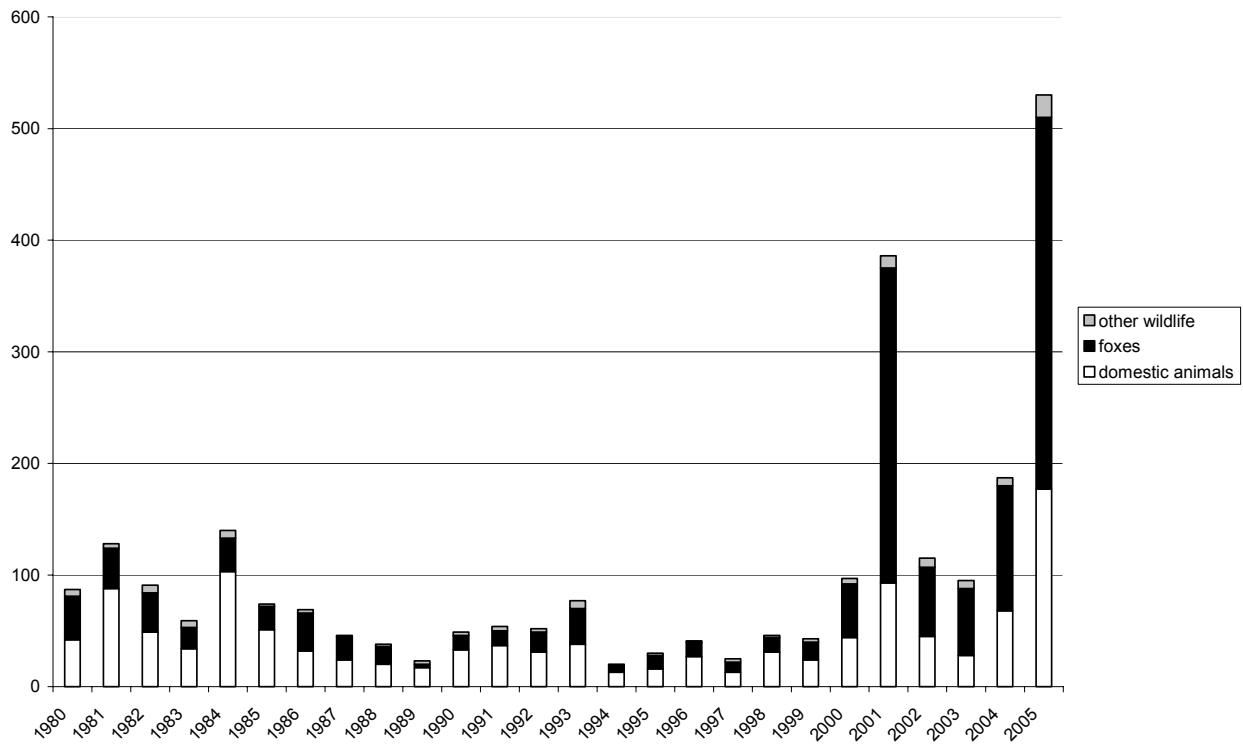


Figure 2. Number of confirmed rabies cases in animals, 1980-2005

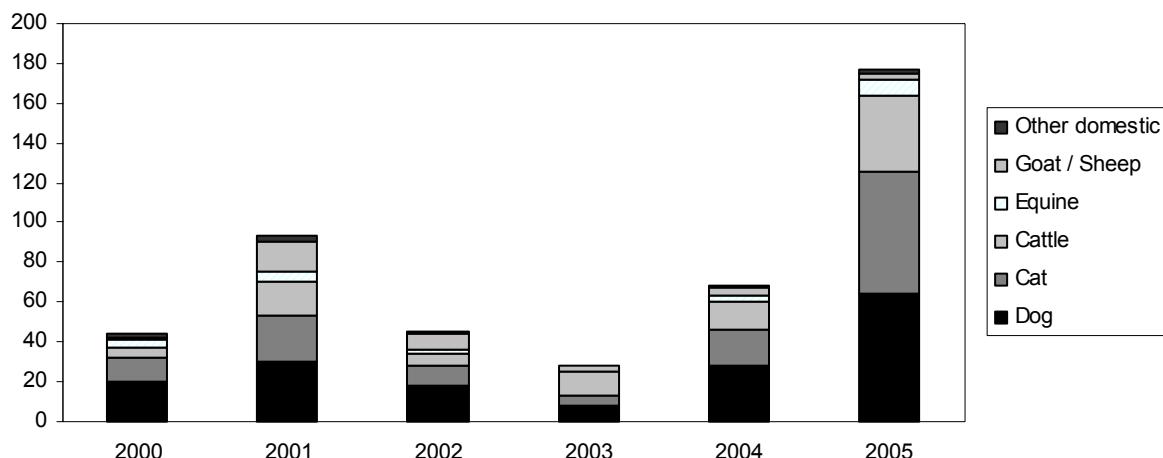


Figure 3. Number of confirmed rabies cases in domestic animals, 2000-2005

probably capable of establishing a rabies transmission cycle has so far been diagnosed rabid only rarely in the north western districts. As shown in figure 3 the number of domestic animals diagnosed rabid have increased from 2002 to 2005. Most cases are in pets, i.e. dogs and cats and might indicate insufficient vaccination coverage. Hence, the close relationship to these animals causes a high number of possible virus transmissions and therefore many pre and post exposure prophylactic treatments in humans with severe impacts on public health funding.

Currently, ongoing phylogenetic analysis of a few rabies virus isolates from across Romania suggest that at least 3 different rabies virus variants are circulating among wildlife in specific areas with genetic relationship to virus strains isolated in central Balkan region, and Hungary. Further analysis are planned to gain more information.

In Europe, oral rabies vaccination of foxes (ORV) has been successfully applied to combat rabies. For many years the Community has contributed financially towards campaigns for ORV in a number of Member States affected by epidemics

of wildlife rabies. As a result, large parts of Western and Central Europe could be freed from terrestrial rabies with this modern and powerful method of disease control. So far, next to Switzerland (1998) several MS such as Finland (1991), the Netherlands (1991), Italy (1997), France (2000), Belgium (2001), Luxembourg (2001) and the Czech Republic (2004) have been declared as being officially free of rabies. During the last two decades considerable progress in rabies elimination has also been achieved in many middle and eastern European countries.

Inspired by these successes, in 2006, Romania has drawn up a country-wide program for the control and eradication of rabies for a period of 10 years. In accordance with EU regulations this planned program is submitted to the Commission to benefit from co-financing of the Community. The main objectives are as follows:

1. Enhanced surveillance of rabies in fox population
2. Control of rabies in fox population and finally
3. Eradication of rabies in Romania



Figure 4. Regions in Romania according to ORV program

In order to fulfill the objective it is planned to orally vaccinate the entire fox population by 2016. Permanent surveillance of wildlife rabies and monitoring of the application of vaccination plans will be used to evaluate the effectiveness of ORF and improve and document the progress. For this purpose data collection, data analysis and IT-processing will be established. The implementation of the program will be carried out by the Sanitary Veterinary Services in collaboration with the services of the Ministry of Agriculture, Food and Rural Development based on a strategy under the co-ordination of the National Sanitary Veterinary and Food Safety Authority (NSVFSA). It will take into account the current epidemiological situation of rabies densities within the fox population as the main vector of rabies in various topographical areas.

According to natural borders Romania was divided into 4 major areas and a special one, Danube

Delta (figure No 4). The first vaccination campaign will be conducted in 2007. Considering ongoing oral vaccination programs in neighbouring countries Romania intends to start ORV in the northwestern part of the country comprising 10 counties covering an area of 50000 km² at the border with Hungary (See figure No 4, area nr. 1). In Hungary oral immunization of foxes against rabies started in 1992 and from 2004 ORV covered the whole territory of the country. This strategy has advantages for both countries as Romania will benefit from established long-term herd immunity among foxes in Hungarian vaccination areas. On the other hand, possible re-infection of areas in Hungary from adjacent Romanian areas will be significantly reduced.

Such vaccination campaigns in a given region are planned for the next two years. Afterwards vaccination areas will be extended to the east, covering step by step the whole territory of the country until 2016.

Depending on the success of ORV in areas freed from rabies vaccination will be stopped by and by.

Nevertheless, in accordance with the Report of the Scientific Committee on Animal Health and Animal Welfare, EC 2002, to protect a rabies-free or freed area from a neighbouring infected area, an immunological barrier (a buffer zone, 50 km deep) along the borders with infected areas will be established.

Romania will first use the classic pattern of two "single vaccination" campaigns per year, carried out in spring and autumn. Oral vaccination of foxes in spring will be carried out in May- June in order to increase the efficient access of fox cubs to bait. The vaccination will be repeated in autumn, September-October, when baits will be distributed in the same territory. This biannual distribution frequency has been used in all European programs of oral vaccination and it resulted in the elimination of rabies.

Aerial distribution of vaccine baits will be the preferred method of choice either using fixed-wing aircraft or helicopter. In urban and suburban areas complementary hand distribution of vaccine baits will be conducted. Regarding the recommendations of the Scientific Committee for Animal Health and Welfare adopted on the 23rd of October 2002, the number of baits/km² delivered with the planes will be 20, with a distance between the flight lines of 1000 m and the number of baits delivered by hand will be of 25/km².

Follow-up investigations in vaccination areas will be coordinated at the National Reference Laboratory for Diagnosis and focused on rabies surveillance (diagnosis), bait uptake (tetracycline marking), serological testing of foxes on rabies specific antibody, and characterization of isolated strains by PCR or monoclonal antibodies.

¹National Sanitary Veterinary and Food Safety Authority (NSVFSA), Ministry of Agriculture, Food and Rural Development, 1B Negustori Street, Bucharest, Romania

4 DISTRIBUTION OF RABIES IN EUROPE

4.1 Country summaries of rabies cases, 2nd quarter 2006

01.04.06-30.06.06

Country	Name	Domestic animals										Wildlife										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	bat		
Albania	ALB			2					2	1												1			3		
Austria	AUT *								0													0			0		
Belarus	BLR	35	16	13	1				65	284	28		1				2					6	321		386		
Belgium	BEL *								0													0			0		
Bosnia - Hercegovina	BIH	3		1					4	15			1								1	17		21			
Bulgaria	BGR	1							1	1											1			2			
Croatia	HRV	4	3	2					9	103												104		113			
Cyprus	CYP *								0												0			0			
Czech Republic	CZH *								0												0			0			
Denmark	DNK								0												0	2		2			
Estonia	EST	1	1	1					3	12	17		1		1							31		34			
Finland	FIN *								0												0			0			
France	FRA ***								0												0			0			
Germany	DEU								0												0	4		4			
Greece	GRC *								0												0			0			
Hungary	HUN *								0												0			0			
Iceland	ISL *								0												0			0			
Ireland	IRE *								0												0			0			
Italy	ITA *								0												0			0			
Latvia	LVA	8	5	3					16	67	43		1	4	1	3				2	123			139			
Lithuania	LTU	35	30	19	1				85	244	232		4	35	13		1	1			530			615			
Luxembourg	LUX *								0												0			0			
Macedonia	MKD *								0												0			0			
Malta	MLT *								0												0			0			
Moldova	MDA **								0												0			0			
Norway	NOR *								0												0			0			
Poland	POL		3						3	7	6						1					14	1	18			
Portugal	PRT *								0												0			0			
Romania	ROU	6	5	1					12	27			1			1						29		41			
Russian Federation	RUS	52	43	39	3	10	1	3	2	153	113	8		2								123		276			
Serbia and Montenegro	SCG	2							2	40			1									41		43			
Slovak Republic	SVK *								0												0			0			
Slovenia	SVN *								0												0			0			
Spain	ESP *								0												0			0			
Sweden	SWE *								0												0			0			
Switzerland + Lichtenstein	CHE *								0												0			0			
The Netherlands	NED								0												0	2		2			
Turkey	TUR	36	3	19		3			61	4	4		5	1	10	2					4			65			
Ukraine	UKR	74	69	29	1	2			175	156	4									2	180		355				
United Kingdom	UNK *								0												0			0			
TOTAL		257	178	129	6	15	1	3	2	591	1074	338	0	8	14	46	22	1	1	4	0	0	11	1519			
PER CENT		12,1%	8,4%	6,1%	0,3%	0,7%	0,0%	0,1%	0,1%	27,9%	50,7%	16,0%	0,0%	0,4%	0,7%	2,2%	1,0%	0,0%	0,0%	0,2%	0,0%	0,0%	0,5%	71,7%	0,4%	0,0%	100%

* NO CASES

** NO DATA

*** One bat rabies case was reported for the 4th quarter 2005

4.2 Rabies cases per country and administrative units, 2nd quarter 2006

01.04.06-30.06.06

Location	Domestic animals										Wildlife										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		
ALBANIA																									
Kukes			2						2	1											1	0	3		
TOTAL	0	0	2	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	1	0	3		
PER CENT	0,0%	0,0%	66,7%	0,0%	0,0%	0,0%	0,0%	0,0%	66,7%	33,3%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	33,3%	0,0%	100%		
BELARUS																									
Brest									0	21											21		21		
Gomel	11	4	1						16	32	2										1	36			
Grodno	5	2	3						10	51	2										1	55			
Minsk	8	6	3	1					18	67	6										1	75			
Mogilev	2		3						5	59	2										2	63			
Vitebsk	9	4	3						16	54	16										1	71			
TOTAL	35	16	13	1	0	0	0	0	65	284	28	0	1	0	0	2	0	0	0	0	6	321	0	386	
PER CENT	9,1%	4,1%	3,4%	0,3%	0,0%	0,0%	0,0%	0,0%	16,8%	73,6%	7,3%	0,0%	0,3%	0,0%	0,0%	0,5%	0,0%	0,0%	0,0%	0,0%	1,6%	83,2%	0,0%	0,0%	100%
BOSNIA - HERCEGOVINA																									
Brcko									0	1											1		1		
Banja Luka	2			1					3	7											1	8			
Doboj	1								1	2											2		3		
Sokolac									0	1											1		1		
Srbinje (Foca)									0	1											1		1		
Trebinje									0				1								1		1		
Tuzlanski									0	1											1		1		
Unsko-sanski									0	2											2		2		
TOTAL	3	0	1	0	0	0	0	0	4	15	0	0	1	0	0	0	0	0	0	1	17	0	21		
PER CENT	14,3%	0,0%	4,8%	0,0%	0,0%	0,0%	0,0%	0,0%	19,0%	71,4%	0,0%	0,0%	4,8%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	4,8%	81,0%	0,0%	0,0%	100%
BULGARIA																									
Montana									0	1											1		1		
Razgrad	1								1												0		1		
TOTAL	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
PER CENT	50,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	50,0%	50,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	50,0%	0,0%	0,0%	100%	
DENMARK																									
Arhus amt									0												0	1			
Storstrøms amt									0												0	1			
TOTAL	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%	50,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	50,0%	100,0%	0,0%	100%	

4.2 Rabies cases per country and administrative units, 2nd quarter 2006

01.04.06-30.06.06

Location	Domestic animals									Wildlife											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	
CROATIA																								
Bjelovarsko - Bilogorska		1							1	6											6		7	
Brodsko - Posavska	1								1	1											1		2	
Karlovacka									0	5											5		5	
Koprivnisko - Krizevaska	1								1	4											4		5	
Krapinsko - Zagorska									0	3											4		4	
Licko - Senjska									0	1											1		1	
Pozesko - Slovenska									0	5											5		5	
Primorsko - Goranska									0	2											2		2	
Sibensko - Kninska									0	2											2		2	
Sisacko - Moslovacka	1								1	24											24		25	
Splitsko - Dalmatinska									0	14											14		14	
Varazdinska		1							1	5											5		6	
Viroticko - Podravksa	1								1	4											4		5	
Vukovarsko - Srijemska			2						2	2											2		4	
Zagreb									0	1											1		1	
Zagrebacka	1								1	24											24		25	
TOTAL	4	3	2	0	0	0	0	0	9	103	0	0	0	0	0	0	0	1	0	0	104	0	0	113
PER CENT	3,5%	2,7%	1,8%	0,0%	0,0%	0,0%	0,0%	0,0%	8,0%	91,2%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,9%	0,0%	0,0%	92,0%	0,0%	0,0%	100%
ESTONIA																								
Kesk-Eesti	1								1	3	3									6		7		
Lääne-Eesti			1						1	3				1						4		5		
Louna-Eesti		1							1	9	11			1						21		22		
TOTAL	1	1	1	0	0	0	0	0	3	12	17	0	0	1	0	1	0	0	0	0	31	0	0	34
PER CENT	2,9%	2,9%	2,9%	0,0%	0,0%	0,0%	0,0%	0,0%	8,8%	35,3%	50,0%	0,0%	0,0%	2,9%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	91,2%	0,0%	0,0%	100%
GERMANY																								
Aurich									0											0	1		1	
Berlin-West,Stadt									0											0	1		1	
Leer									0											0	1		1	
Märkisch-Oderland									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	4	0	4	
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%	100,0%	0,0%	100,0%

4.2 Rabies cases per country and administrative units, 2nd quarter 2006

01.04.06-30.06.06

Location	Domestic animals										Wildlife										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	bat		
LATVIA																										
Kurzeme	1		1						2	6	2											1	9		11	
Latgale	3	3	1						7	19	6			1									30		37	
Riga	1								1	5	3												8		9	
Vidzeme	2	2	1						5	27	26			4									57		62	
Zemgale	1								1	10	6			1								1	19		20	
TOTAL	8	5	3	0	0	0	0	0	16	67	43	0	1	4	1	3	0	0	2	0	2	123	0	0	139	
PER CENT	5,8%	3,6%	2,2%	0,0%	0,0%	0,0%	0,0%	0,0%	11,5%	48,2%	30,9%	0,0%	0,7%	2,9%	0,7%	2,2%	0,0%	0,0%	1,4%	0,0%	0,0%	1,4%	88,5%	0,0%	0,0%	100%
TURKEY																										
Adana	3		1						4													0			4	
Aydin		1	2						3													0		3		
Bursa	1								1													0		1		
Denizli	1		1						2													0		2		
Diyarbakir	1		3						4	1												1		5		
Elazig			1						1													0		1		
Erzincan	1								1													0		1		
Gaziantep	1								1													0		1		
Hakkari			2						2													0		2		
Hatay	5		1						6													0		6		
Istanbul	5								5													0		5		
Izmir	1	1	4		1				7	3												3		10		
K.Maras	1								1													0		1		
Kocaeli			1						1													0		1		
Malatya	1								1													0		1		
Manisa	2		1						3													0		3		
Mardin	1								1													0		1		
Osmaniye	6		1		1				8													0		8		
Sakarya	2								2													0		2		
Sanliurfa	4		1		1				6													0		6		
Tunceli			1						1													0		1		
TOTAL	36	3	19	0	3	0	0	0	61	4	0	0	0	0	0	0	0	0	0	0	0	4	0	0	65	
PER CENT	55,4%	4,6%	29,2%	0,0%	4,6%	0,0%	0,0%	0,0%	93,8%	6,2%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	6,2%	0,0%	0,0%	100%	
SERBIA AND MONTENEGRO																										
Central Serbia	1								1	15												15			16	
Montenegro									0	5												5		5		
Vojvodina	1								1	20												21			22	
TOTAL	2	0	0	0	0	0	0	0	2	40	0	0	0	1	0	0	0	0	0	0	0	41	0	0	43	
PER CENT	4,7%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	4,7%	93,0%	0,0%	0,0%	0,0%	2,3%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	95,3%	0,0%	0,0%	100%	

4.2 Rabies cases per country and administrative units, 2nd quarter 2006

01.04.06-30.06.06

Location	Domestic animals										Wildlife										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	bat	
ROMANIA																									
Alba	1								1													0		1	
Arges									0	1												1		1	
Bacau	1								1													0		1	
Bihor		1							1													0		1	
Bistrita-Nasaud	1	1							2													0		2	
Botosani									0	1												1		1	
Calarasi	1								1													0		1	
Constanta									0													1		1	
Covasna									0	3												3		3	
Dambovita									0	1												1		1	
Dolj									0	1												1		1	
Galati									0	1												1		1	
Giurgiu									0	2												2		2	
Gorj			1						1													0		1	
Harghita									0	2												2		2	
Ialomita		1							1	2												2		3	
Iffov									0	1												1		1	
Mures									0	5												5		5	
Olt									0	1												1		1	
Prahova									0	1				1								2		2	
Salaj		1							1													0		1	
Sibiu	2								2													0		2	
Suceava									0	1												1		1	
Teleorman									0	1												1		1	
Vaslui		1							1	2												2		3	
Vrancea									0	1												1		1	
TOTAL	6	5	1	0	0	0	0	0	12	27	0	0	0	1	0	0	0	0	0	0	0	29	0	0	41
PER CENT	14,6%	12,2%	2,4%	0,0%	0,0%	0,0%	0,0%	0,0%	29,3%	65,9%	0,0%	0,0%	0,0%	2,4%	0,0%	2,4%	0,0%	0,0%	0,0%	0,0%	0,0%	70,7%	0,0%	0,0%	100%
POLAND																									
Lódzkie									0													1		1	
Lubelskie									0	3	1										4		4		
Mazowieckie									0												0	1	1		
Opolskie		1							1												0		1		
Podkarpackie									0	1											1		1		
Podlaskie		1							1	1											1		2		
Warmińsko-Mazurskie		1							1	1	5										6		7		
Wielkopolskie									0	1											1		1		
TOTAL	0	3	0	0	0	0	0	0	3	7	6	0	0	0	0	1	0	0	0	0	0	14	1	0	18
PER CENT	0,0%	16,7%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	16,7%	38,9%	33,3%	0,0%	0,0%	0,0%	5,6%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	77,8%	5,6%	0,0%	100%

4.2 Rabies cases per country and administrative units, 2nd quarter 2006

01.04.06-30.06.06

Location	Domestic animals										Wildlife										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		
UKRAINE																									
Avtonomnaya Respublika Krym	1								1												0		1		
Bolynskaja o.	3								3	2											2		5		
Cherkasskaja o.	5	5	1	1					12	7	2			1	1						11		23		
Chernigovskaja o.	10	13	7						30	41			2		3	1					1	48	78		
Dnepropetrovskaja o.	6	1							7	4											4		11		
Donetskskaja o.	3	2							5	3											3		8		
Khar'kovskaja o.	1	1							2	1											1		3		
Khersonskaja o.	1	6	1						8	9			2			1					12		20		
Khmel'nitskaja o.	4								4	15											15		19		
Kirovogradskaja o.	10	11	2		1				24	11				1							12		36		
Kiyevskaja o.									0	2											2		2		
Luganskaja o.	1	4	1						6												1	1	7		
L'vovskaja o.	2								2	2	2										4		6		
Nikolayevskaja o.	7	2	3						12	15											15		27		
Odesskaja o.	2	3	2						7	5											5		12		
Poltavskaja o.	3	3	4						10	7				1							8		18		
Rovenskaja o.		3							3	3											3		6		
Sumskaya o.	3	1	2						6	1											1		7		
Ternopol'skaja o.	1	1							2					1							1		3		
Vinnitskaja o.	5	7	1		1				14	10				1							11		25		
Zaporozhskaja o.	1	5	4						10	3			1		1						5		15		
Zhitomirskaja o.	5	1	1						7	15				1							16		23		
TOTAL	74	69	29	1	2	0	0	0	175	156	4	0	5	1	10	2	0	0	0	0	2	180	0	0	355
PER CENT	20,8%	19,4%	8,2%	0,3%	0,6%	0,0%	0,0%	0,0%	49,3%	43,9%	1,1%	0,0%	1,4%	0,3%	2,8%	0,6%	0,0%	0,0%	0,0%	0,0%	0,6%	50,7%	0,0%	0,0%	100%
LITHUANIA																									
Alytaus	4	1	1						6	33	18					4						55		61	
Kauno	5	3	10	1					19	32	39			1	5	3						80		99	
Klaipedos	4	1	1						6	16	8			2	4							30		36	
Marijampoles	3	5	3						11	9	17			3	1							30		41	
Panevezio	2	5	2						9	14	17				4	3						38		47	
Siauli	3	4	1						8	21	20				3							44		52	
Taurages									0	8	7											15		15	
Telsiu		1							1	4	2			1	1							8		9	
Utenos	4	5							9	49	78			5	6			1	1			140		149	
Vilniaus	10	5	1						16	58	26				6							90		106	
TOTAL	35	30	19	1	0	0	0	0	85	244	232	0	0	4	35	13	0	1	1	0	0	530	0	0	615
PER CENT	5,7%	4,9%	3,1%	0,2%	0,0%	0,0%	0,0%	0,0%	13,8%	39,7%	37,7%	0,0%	0,0%	0,7%	5,7%	2,1%	0,0%	0,2%	0,2%	0,0%	0,0%	86,2%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 2nd quarter 2006

01.04.06-30.06.06

Location	Domestic animals										Wildlife										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.	2	6	6		2			2	18													0		18	
Belgorodskaja obl.	1	1	1						3													0		3	
Brjanskaja obl.	2								2	22												22		24	
Cecenskaja resp.			3						3													0		3	
Dagestan resp.			2						2													0		2	
Ivanovskaja obl.	1								1	1												2		3	
Jaroslavskaja obl.	1	4							5													0		5	
Kabardino-Balkanskaja resp.	1	1	3	1	3				9													0		9	
Kalininogradskaja obl.	1	1	2	1					5	7												7		12	
Kalmykija resp.	4		2	1	2				9													0		9	
Kaluzhskaja obl.	1				2	1			4	12												12		16	
Kurskaja obl.		1							1													0		1	
Lipeckaja obl.	1	2							3	2												2		5	
Mordovija resp.	1	1							2	1												1		3	
Moskovskaja obl.	3	2							5	14	1											15		20	
Nizegerodskaja obl.	1								1	5												5		6	
Orlovskaja obl.	1	4							5	1												1		6	
Penzenskaja obl.	2	3							5	6												6		11	
Pskovskaja obl.	3								3	2												2		5	
Rjazanskaja obl.	1								1	5												5		6	
Rostovskaja obl.	4	1	3					2	10													0		10	
Saratovskaja obl.		2	2						4													0		4	
Severnaja Osetija-Alanija resp.	2	1	5					1	9													0		9	
Smolenskaja obl.	6								6	11	1											13		19	
Stavropol'skij kr.	4	4	5		1				14	1												1		15	
Tambovskaja obl.	1								1	1												1		2	
Tul'skaja obl.		1							1	2												2		3	
Tverskaja obl.	3		1						4	10	6										16		20		
Ul'janovskaja obl.									0													1		1	
Vladimirskaja obl.	2								2	5												5		7	
Volgogradskaja obl.	2	1	2						5	2												2		7	
Voronezhskaja obl.	1	7	2						10	2												2		12	
TOTAL	52	43	39	3	10	1	3	2	153	113	8	0	0	2	0	0	0	0	0	0	0	123	0	0	276
PER CENT	18,8%	15,6%	14,1%	1,1%	3,6%	0,4%	1,1%	0,7%	55,4%	40,9%	2,9%	0,0%	0,0%	0,7%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	44,6%	0,0%	0,0%	100%

4.3 Trend tables

4.3.1 Comparison of the reporting quarter (II/2006) with the previous quarter (I/2006)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	II 2006 (no.)	I 2006 (no.)	Difference	II 2006 (no.)	I 2006 (no.)	Difference	II 2006 (no.)	I 2006 (no.)	Difference	II 2006 (no.)	I 2006 (no.)	Difference	II 2006 (no.)	I 2006 (no.)	Difference
Albania	3	1	2	1		1	2	1	1						
Austria															
Belarus	386	463	-77	321	386	-65	65	77	-12						
Belgium															
Bosnia - Hercegovina	21	23	-2	17	23	-6	4		4						
Bulgaria	2	4	-2	1	2	-1	1	2	-1						
Croatia	113	159	-46	104	147	-43	9	12	-3						
Cyprus															
Czech Republic															
Denmark	2		2							2		2			
Estonia	34	68	-34	31	60	-29	3	8	-5						
Finland															
France															
Germany	4	3	1		3	-3				4		4			
Greece															
Hungary		1	-1		1	-1									
Iceland															
Ireland															
Italy															
Latvia	139	151	-12	123	131	-8	16	20	-4						
Lithuania	615	768	-153	530	691	-161	85	77	8						
Luxembourg															
Macedonia															
Malta															
Moldova*															
Norway															
Poland	18	24	-6	14	22	-8	3	2	1	1		1			
Portugal															
Romania	41	106	-65	29	84	-55	12	22	-10						
Russian Federation	276	416	-140	123	173	-50	153	241	-88			2			-2
Serbia and Montenegro	43	76	-33	41	75	-34	2	1	1						
Slovak Republic		3	-3		3	-3									
Slovenia		*			*			*		*		*			*
Spain															
Sweden															
Switzerland + Lichtenstein															
The Netherlands	2		2							2		2			
Turkey	65	33	32	4	4		61	29	32						
Ukraine	355	519	-164	180	265	-85	175	254	-79						
United Kingdom															
TOTAL	2119	2818	-699	1519	2070	-551	591	746	-155	9	0	9	0	2	-2

Wildlife: excluding bats

II/2006 (no.), I/2006 (no.): number of cases

Difference: no. of cases in II/2006 minus cases in I/2006

* no data

4.3.2 Comparison of the reporting quarter (II/2006) with the same quarter of the previous year (II/2005)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	II 2006 (no.)	II 2005 (no.)	Difference	II 2006 (no.)	II 2005 (no.)	Difference	II 2006 (no.)	II 2005 (no.)	Difference	II 2006 (no.)	II 2005 (no.)	Difference	II 2006 (no.)	II 2005 (no.)	Difference
Albania	3		3	1		1	2		2						
Austria															
Belarus	386	115	271	321	86	235	65	29	36						
Belgium															
Bosnia - Hercegovina	21	4	17	17	2	15	4	2	2						
Bulgaria	2	6	-4	1	4	-3	1	2	-1						
Croatia	113	60	53	104	57	47	9	3	6						
Cyprus															
Czech Republic															
Denmark	2		2							2		2			
Estonia	34	43	-9	31	39	-8	3	4	-1						
Finland															
France		3	-3									3	-3		
Germany	4	11	-7		9	-9				4	2	2			
Greece															
Hungary		2	-2					2	-2						
Iceland															
Ireland															
Italy															
Latvia	139	82	57	123	66	57	16	16							
Lithuania	615	317	298	530	262	268	85	55	30						
Luxembourg															
Macedonia	*			*			*			*		*		*	
Malta															
Moldova*															
Norway															
Poland	18	33	-15	14	25	-11	3	6	-3	1	2	-1			
Portugal															
Romania	41	123	-82	29	73	-44	12	50	-38						
Russian Federation	276	942	-666	123	430	-307	153	508	-355			4	-4		
Serbia and Montenegro	43	18	25	41	16	25	2	2							
Slovak Republic		12	-12		9	-9		3	-3						
Slovenia		1	-1		1	-1									
Spain		1	-1					1	-1						
Sweden															
Switzerland + Lichtenstein															
The Netherlands	2		2							2		2			
Turkey	65	42	23	4	1	3	61	41	20						
Ukraine	355	344	11	180	141	39	175	203	-28						
United Kingdom															
TOTAL	2119	2159	-40	1519	1221	298	591	927	-336	9	7	2	0	4	-4

Wildlife: excluding bats

II/2006 (no.), II/2005 (no.): number of cases

Difference: no. of cases in II/2006 minus cases in II/2005

* 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 vетdirector@albaniaonline.com

Prof. Dr. Kristaq Berxholi, Director
Institute of Veterinary Research „Bilal Golemi“
Tirana /Albania
Tel. +355 4 372 912
Fax +355 4 372 912
e-mail instvet@icc.al.eu.org

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. Lengele, Conseiller Général
Dr. Dechamps
Ministère des Classes Moyennes et de l'Agriculture
Administration de la Santé animale et de la
Qualité des produits animaux (DG5)
Services vétérinaires
WTC III - Boulevard Simon Bolivar 30
5ème étage
B-1000 Bruxelles/Belgique
Tel. +32-2-208 36 48
Fax +32-2-208 36 12

Responsible expert:

Dr. F. Costy
Institut Pasteur de Bruxelles
Rue Engeland, 642
B-1180 Bruxelles
Tel. +32-2-373 31 11
Fax +32-2-373 31 74

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

Prof. Rumen Valtchovski
Head of Dept. of Virology and Virological Diseases
National Veterinary Research Institute
Tel. +359 9523903
email rvaltchovski@abv.bg

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:

MVDr Oldrich Matouch, Csc
National Reference Laboratory for Rabies
State Veterinary Institute
U Sila 1139
CZ-46311 Liberec 30 /Czech Republic
Tel. +420-48-2751 578
Fax +420-48-2751 569
e-mail matouch@volny.cz
Internet <http://svs.aquasoft.cz>

DNK Denmark

Dr. Preben Willeberg, CVO
Dr. Tina Mørk
Ministeriet for Fødevarer, Landbrug og Fiskeri
Danish Veterinary and Food Administration
Tel. +45 33956000
e-mail Tina Mørk <tm@FDIR.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@mnm.fi
tiia.tuupanen@mnm.fi
Internet www.mnm.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. Stylos
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. V. Veldre
Dr. E. Jegers
Food and Veterinary Service
Animal Health Division
Republikas laukums 2
Riga, LV-1010, Latvija
Tel. +371 709 52 30
Fax +371 732 27 27
e-mail vvd@vvd.vita.gov.lv

LTU Lithuania

Dr. K. Lukauskas
Dr. A. Dranseika
State Veterinary Service

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. Misko 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

MDA Moldova

Dr. V. Bahau, Dr. A. Ganea
Dr. V. Kilary
Ministry of Agriculture

NED Netherlands

Dr. F.H. Pluimers
Ministry of Agriculture, Nature Environment and
Fisheries
Bezuidenhoutseweg 73 - P.O. Box 20401
NL-2500 EK's-Gravenhage /Netherlands
+

Dr. Monique Aalten

Inspectorate for Health Protection, Commodities
and Veterinary Public Health
Regional Inspectorate East
De Stoven 22
NL-7206 AX Zutphen /Netherlands
Tel. +31-575-58 8 100
Fax +31-575-588 8 200
e-mail Monique.Aalten@kvw.nl

Responsible expert:

Dr. R.A.A. van Oosterom
Inspectorate for Health Protection
Commodities and Veterinary Public Health
P.O. Box 16108
NL-2500 BC The Hague /Netherlands

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
 WHO Coll. Centre on Prev. and Control of Zoonosis
 The Kovalenko All-Union
 Inst. of Exper. Veterinary Medicine, Moscow
 Dr. V.V. Seliverstov
 Veterinary Dept., Moscow
 Prof. B.L. Cherkasskiy
 WHO Collaborating Centre on Zoonosis, Moscow
 Central Research Institute of Epidemiology,
 Ministry of Public Health, Moscow

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 Matejcík, 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 Brecelj, 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 pgarciaag@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 lsanchez@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 Abellán
 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

Dr. Zoya Trotsenko
Head of Virology Department
Central State Laboratory of Veterinary Medicine
Donetskaya Street 30
Kiev-151, Ukraine
Tel/Fax +380-44-243 37 55
e-mail biotech@astral.kiev.ua

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

Dr. Musa Arik
Head of Animal Health Department
Ministry of Agriculture and Rural Affairs
General Directorate of Protection and Control
Esat cad. No. 3
06100 Bakanlıklar, Ankara /Turkey
Tel. +90-312-41 82 436
Fax +90-312-41 78 209
e-mail musaa@kkgm.gov.tr

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

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:

Dr. 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!

