

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

During the this quarter (III/2008) 1826 rabies cases from European countries were reported to the WHO Collaborating Centre for Rabies Surveillance and Research. Bat rabies (25 cases) were reported from The Netherlands (11), Germany (8), Poland (3) and France (3). Tragically, 3 human cases occurred and were reported from the Russian Federation. The all rabies data is shown in tables and a map.

In the first miscellaneous article the case of an imported dog is described. The animal originating from Sri Lanka died in quarantine and subsequently tested positive for rabies.

After years of oral rabies vaccination both Germany and Austria declared the rabies free status as stipulated by OIE. This fact was motivation to provide a short miscellaneous article.

Conrad Freuling

Addendum: Two rabies cases (one bat rabies case and one imported dog) in the UK, 9 cases in BiH and 2 cases in Turkey were included in the respective tables and in the database for the 2nd quarter 2008. The cases in the UK were covered in articles in the RBE (II/2008 and III/2008).

2. SUMMARY OF RABIES CASES IN EUROPE

RABIES CASES

3rd QUARTER 2008

01.07.08-30.09.08

Name	Code	Total	Wildlife	Domestic animals	Bats	Human
ALBANIA	ALB	0	0	0	0	0
AUSTRIA	AUT	0	0	0	0	0
BELARUS	BLR	235	189	46	0	0
BELGIUM	BEL	0	0	0	0	0
BOSNIA - HERCEGOVINA	BIH	13	9	4	0	0
BULGARIA	BGR	2	2	0	0	0
CROATIA	HRV	217	197	20	0	0
CYPRUS	CYP	0	0	0	0	0
CZECH REPUBLIC	CZK	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	3	0	0	3	0
GERMANY	DEU	8	0	0	8	0
GREECE	GRC	0	0	0	0	0
HUNGARY	HUN	2	2	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	20	20	0	0	0
LITHUANIA	LTU	28	20	8	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	12	2	10	0	0
MONTENEGRO	MNE	11	10	1	0	0
NETHERLANDS	NED	11	0	0	11	0
NORWAY	NOR	0	0	0	0	0
POLAND	POL	5	1	1	3	0
PORTUGAL	PRT	0	0	0	0	0
ROMANIA	ROU	143	110	33	0	0
RUSSIAN FEDERATION	RUS	592	329	260	0	3
SERBIA	SRB	46	38	8	0	0
SLOVAK REPUBLIC	SVK	0	0	0	0	0
SLOVENIA	SVN	7	7	0	0	0
SPAIN **	ESP	1	0	1	0	0
SWEDEN	SWE	0	0	0	0	0
SWITZERLAND + LIEC.	CHE	0	0	0	0	0
TURKEY	TUR	79	6	73	0	0
UKRAINE	UKR	391	127	264	0	0
UNITED KINGDOM	UNK	0	0	0	0	0
TOTAL		1826	1069	729	25	3

Wildlife: excluding bats

* no data

** Spanish territory in North Africa

3. Miscellaneous Articles

3.1 Rabies in a juvenile dog imported into the UK from Sri Lanka

Trudy Goddard, Graeme Harkess, Katja Pajamo, Alex Nunez, Daniel Hicks, Denise Marston, Lorraine McElhinney, Nicholas Johnson and Anthony Fooks

Rabies and Wildlife Zoonoses Group, Veterinary Laboratories Agency – Weybridge, Woodham Lane, Surrey, KT15 3NB

In April of 2008 rabies virus was diagnosed in a dog approximately 8 weeks old, imported from Sri Lanka to the UK (Fooks et al., 2008). The dog was imported by an animal charity involved with rescuing and re-homing street dogs. The dog arrived at Heathrow airport on April 17, 2008, and spent one night at the Animal Reception Centre before being transferred to Chingford quarantine kennels in north-east London. The dog had a history of severe diarrhoea and convulsed violently before it died on the morning of April 25. On entry to the quarantine facility, the initial diagnosis was for infection with *Hepatozoon canis* for which it was treated with doxycycline. Testing for rabies was conducted on the same day and a positive result was confirmed by the fluorescent antibody test. A differential reverse transcriptase-Polymerase Chain Reaction (RT-PCR) TaqMan assay was undertaken on RNA extracted from the brain, which provided corroboration of a rabies diagnosis and confirmed that this was a genotype 1 lyssavirus (Wakeley et al., 2005). Rabies virus was isolated from brain homogenates prepared from the animal, mice inoculated with this homogenate developed rabies encephalitis on day nine post-inoculation and immunohistochemistry detected rabies virus antigen in the medulla,

hippocampus and cerebellum regions of the dog's brain. A PCR-amplified fragment of the viral genome was sequenced and shown to have >99% sequence identity with other rabies virus isolates from Sri Lanka. Four dogs from the quarantine centre that were considered to have had contact with the dog were destroyed as a precautionary measure. All were negative when tested for rabies.

A follow up investigation by the Health Protection Agency identified 42 people in both Sri Lanka and the UK who may have had contact with the dog (Catchpole et al., 2008). Of these, twelve had physical contact with the dog, one veterinarian in Sri Lanka and eleven individuals in the UK, and four were deemed to have had a high risk of contact with the puppy. Three had been bitten. All eleven UK residents received post exposure prophylaxis (PEP) and the Sri Lankan authorities were informed about the risk to the veterinarian.

The United Kingdom has been rabies free since 1922 (Fooks et al., 2004) due in part to the continued use of quarantine for all dogs and cats entering the country other than those that comply with the requirements of the Pet Travel Scheme. This Scheme was introduced in February 2000 and enabled the import of dogs and cats into the UK without the need for

quarantine if they met certain requirements. Briefly, the Scheme requires that the animal is micro-chipped, vaccinated against rabies and blood-tested during a specified period post-vaccination to ensure that a protective titre has been achieved (full details of the scheme can be obtained on the Defra website:

<http://defraweb/animalh/quarantine/index.htm>). However, quarantine remains an option for importing companion animals into the UK. Those animals that enter by this route are held in a licensed quarantine centre for six months before release to their owners. Until 1988 there had been 29 cases of rabies in quarantine animals, mostly dogs (Meldrum, 1988). Two cases of rabies occurred in animals released after the six-month detention (McIntosh, 1971) and led to the introduction of compulsory vaccination for rabies of all animals on entry into quarantine. However, the current case and the death of another dog imported from Zambia in 1990, demonstrate the need to continue testing for rabies in any animal that dies during the detention period in order to offer appropriate PEP to those potentially exposed to virus. The recent illegal importation of a rabid dog into Belgium and France from the Republic of Gambia illustrate the risk to public health and the cost of follow investigations and PEP if such measures are evaded (Anonymous, 2008).

Acknowledgements

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3.1 Austria and Germany declared “free from terrestrial rabies”

Editorial team of the WHO Rabies Bulletin Europe

Commemorating the World Rabies Day, Germany and Austria joined other European countries and declared the rabies free status on September 28th 2008.

The latest sylvatic rabies epidemic among red foxes (*Vulpes vulpes*) in Europe started south of Gdansk in Poland in 1939 and reached Germany and Austria in 1950 and 1966, respectively. In the following years it rapidly spread over the entire territory of both countries. It reached its peak numbers in Germany (10,484 cases) and in Austria (2,514 cases) in 1983 and 1990, respectively. Germany and Austria started distributing oral rabies vaccine baits in 1983 and 1986, respectively. Using ORV, the rabies incidence in both countries could be drastically reduced and terrestrial wildlife rabies was eventually eliminated.

However, the road to success was long and difficult, in Germany often hampered by the federalism structures and in Austria by re-infections from neighbouring countries.

Since 2006 no indigenous rabies cases caused by the prototype rabies virus (RABV) have been reported from both countries (source: Rabies Bulletin Europe). Thus, Germany and Austria met the criteria of the World Organization for animal health (OIE) for being recognized as “free from terrestrial rabies”. Other European countries, e.g. Finland (1991), The

Netherlands (1991), Italy (1997), Switzerland (1998), France (2000), Belgium (2001), Luxembourg (2001) and the Czech Republic (2004) had already been declared rabies free of terrestrial rabies. However, due to reintroduction of the disease by imported dogs (France) or infected foxes (Italy) these two countries lost their status, highlighting the need for ongoing vigilance and effective surveillance especially once the status rabies free is gained.

While Germany stopped ORV in spring 2008, 2 years after the last case, Austria still has to maintain a *cordon sanitaire* along the borders to rabies endemic countries. Recently, the vaccination area in Austria was adapted responding to the emergence of fox mediated rabies in northern Italy and Slovenia.

In contrast to the World Health Organization’s (WHO) perception of the rabies free status, OIE’s is irrespective of the presence of bat rabies caused by European bat lyssaviruses (EBLV). In Europe, bat rabies is overwhelmingly caused by EBLV 1 and 2 (genotypes 5 and 6). Germany has reported one of the highest numbers of bat rabies cases in Europe for the past 50 years. Most cases were identified as EBLV-1, but EBLV-2 has also been found recently in Germany. In Austria, however, bat rabies has not been detected despite targeted surveillance.

4 DISTRIBUTION OF RABIES IN EUROPE

4.1 Country summaries of rabies cases, 3rd quarter 2008

01.07.08-30.09.08

Country		Domestic animals									Wildlife														bat	Human cases	total				
		dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal							
Name	Code																														
Albania	ALB *									0																		0			0
Austria	AUT *									0																					0
Belarus	BLR	13	21	12						46	167	13		3			6											189		235	
Belgium	BEL *									0																				0	
Bosnia - Hercegovina	BIH	3		1						4	8			1														9		13	
Bulgaria	BGR									0	2																	2		2	
Croatia	HRV	8	10	2						20	196													1			197		217		
Cyprus	CYP *									0																				0	
Czech Republic	CZH *									0																				0	
Denmark	DNK *									0																				0	
Estonia	EST *									0																				0	
Finland	FIN *									0																				0	
France	FRA									0																				0	
Germany	DEU									0																		3		3	
Greece	GRC *									0																		8		8	
Hungary	HUN									0	2																			2	
Iceland	ISL *									0																				0	
Ireland	IRE *									0																				0	
Italy	ITA *									0																				0	
Latvia	LVA									0	10	9				1														20	
Lithuania	LTU	2	1	5						8	3	11				4	1				1									28	
Luxembourg	LUX *									0																				0	
Macedonia	MKD *									0																				0	
Malta	MLT *									0																				0	
Moldova	MDA	1	4	5						10																				2	
Montenegro	MNE			1						1	10																			11	
Norway	NOR *									0																				0	
Poland	POL			1						1	1																			5	
Portugal	PRT *									0																				0	
Romania	ROU	7	16	8	1	1				33	104			1		3	1													143	
Russian Federation	RUS	99	101	42	1	9		8		260	265	42		3	4	5	1			1										592	
Serbia	SRB	3	4			1				8	36			2																46	
Slovak Republic	SVK *									0																				0	
Slovenia	SVN									0	6			1																7	
Spain	ESP	1								1																				1	
Sweden	SWE *									0																				0	
Switzerland + Lichtenstein	CHE *									0																				0	
The Netherlands	NED									0																				0	
Turkey	TUR	47	3	18	4	1				73	4			1																79	
Ukraine	UKR	84	135	36	3	6				264	109	3	1	1	3	7														391	
United Kingdom	UNK *									0																				0	
TOTAL		268	295	131	9	18	0	8	0	729	925	78	1	7	9	17	16	2	0	2	0	0	0	0	12	1069	25	3	1826		
PER CENT		14,7%	16,2%	7,2%	0,5%	1,0%	0,0%	0,4%	0,0%	39,9%	50,7%	4,3%	0,1%	0,4%	0,5%	0,9%	0,9%	0,1%	0,0%	0,1%	0,0%	0,0%	0,0%	0,7%	58,5%	1,4%	0,2%	100%			

* NO CASES

** NO DATA

4.2 Rabies cases per country and administrative units, 3rd quarter 2008

01.07.08-30.09.08

Location	Domestic animals									Wildlife											bat	Human cases	total			
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer				fallow deer	other	subtotal
BELARUS																										
Brest	1								1	14													14			15
Gomel	7	11	5						23	29		3				4							39			62
Grodno		1							1	31	2					1							34			35
Minsk		2	1						3	32						1							33			36
Mogelev			3						3	29	4												33			36
Vitebsk	5	7	3						15	32	4												36			51
TOTAL	13	21	12	0	0	0	0	0	46	167	13	0	3	0	0	6	0	0	0	0	0	0	189	0	0	235
PER CENT	5.5%	8.9%	5.1%	0.0%	0.0%	0.0%	0.0%	0.0%	19.6%	71.1%	5.5%	0.0%	1.3%	0.0%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80.4%	0.0%	0.0%	100%
BOSNIA - HERCEGOVINA																										
Sokolac	1		1						2														0			2
Srbinja (Foca)									0			1											1			1
Srednjobosanski									0	1													1			1
Tuzlanski									0	3													3			3
Unsko-sanski	2								2	1													1			3
Zenicko-dobojski									0	3													3			3
TOTAL	3	0	1	0	0	0	0	0	4	8	0	0	1	0	0	0	0	0	0	0	0	0	9	0	0	13
PER CENT	23.1%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	30.8%	61.5%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	69.2%	0.0%	0.0%	100%
BULGARIA																										
Sofia									0	1													1			1
Vidin									0	1													1			1
TOTAL	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
PER CENT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
CROATIA																										
Bjelovarsko - Bilogorska	3		1						4	13													13			17
Brodsko - Posavska		1							1	2													2			3
Karlovacka		2							2	14													14			16
Koprivnicko - Krizevaska									0	7													7			7
Krapinsko - Zagorska		1							1	10												1	11			12
Licko - Senjska		1							1	11													11			12
Osjesko - Baranska		1							1	8													8			9
Pozesko - Slovanska	1								1	3													3			4
Primorsko - Goranska	1								1	29													29			30
Sibensko - Kninska			1						1	9													9			10
Sisacko - Moslovska		1							1	11													11			12
Varazdinska	1								1	25													25			26
Vukovarsko - Srijemska		1							1	2													2			3
Zagreb	1	1							2	14													14			16
Zagrebacka	1	1							2	38													38			40
TOTAL	8	10	2	0	0	0	0	0	20	196	0	0	0	0	0	0	0	0	0	0	0	1	197	0	0	217
PER CENT	3.7%	4.6%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	9.2%	90.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	90.8%	0.0%	0.0%	100%

4.2 Rabies cases per country and administrative units, 3rd quarter 2008

01.07.08-30.09.08

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	
FRANCE																											
Aquitaine									0															0	2		2
Bourgogne									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	3	0	3
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	100%	
GERMANY																											
Berlin,Stadt									0															0	2		2
Bremen,Stadt									0															0	1		1
Dithmarschen									0															0	2		2
Osnabrück									0															0	1		1
Osnabrück ,Stadt									0															0	1		1
Osterholz									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	8	0	8
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	100%	
HUNGARY																											
Baranya									0	1														1		1	
Somogy									0	1														1		1	
TOTAL	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	0,0%	100%
LATVIA																											
Aizkraukles r.									0	1	1													2		2	
Aluksnes r.									0		1													1		1	
Jekabpils r.									0		1													1		1	
Kuldigas r.									0		3													3		3	
Liepajas r.									0	1														1		1	
Ogres r.									0															1		1	
Preiļu r.									0	2						1								2		2	
Talsu r.									0	3														3		3	
Tukuma r.									0	1	3													4		4	
Ventpils r.									0	2														2		2	
TOTAL	0	0	0	0	0	0	0	0	0	10	9	0	0	0	0	1	0	0	0	0	0	0	0	20	0	0	20
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	50,0%	45,0%	0,0%	0,0%	0,0%	0,0%	5,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 3rd quarter 2008

01.07.08-30.09.08

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
LITHUANIA																										
Alytaus			1						1		1				1								2			3
Kauno									0	2	6				2	1							11			11
Klaipėdos									0		1												1			1
Marijampolės									1														0			1
Panevezio	1								1		1												1			2
Siauliai					2				2		1				1								2			4
Tauragės		1							1														0			1
Telsių			1						1										1				1			2
Utenos	1								1	1	1												2			3
TOTAL	2	1	5	0	0	0	0	0	8	3	11	0	0	0	4	1	0	0	1	0	0	0	20	0	0	28
PER CENT	7.1%	3.6%	17.9%	0.0%	0.0%	0.0%	0.0%	0.0%	28.6%	10.7%	39.3%	0.0%	0.0%	0.0%	14.3%	3.6%	0.0%	0.0%	3.6%	0.0%	0.0%	0.0%	71.4%	0.0%	0.0%	100%
MOLDOVA																										
Moldova	1	4	5						10	2													2			12
TOTAL	1	4	5	0	0	0	0	0	10	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	12
PER CENT	8.3%	33.3%	41.7%	0.0%	0.0%	0.0%	0.0%	0.0%	83.3%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	0.0%	0.0%	100%
MONTENEGRO																										
Montenegro			1						1	10													10			11
TOTAL	0	0	1	0	0	0	0	0	1	10	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	11
PER CENT	0.0%	0.0%	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%	9.1%	90.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	90.9%	0.0%	0.0%	100%
POLAND																										
Podlaskie			1						1	1													1			2
Pomorskie									0														0	3		3
TOTAL	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	5
PER CENT	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	60.0%	0.0%	100%
SERBIA																										
Central Serbia	2	3			1				6	27				2									29			35
Voivodina	1	1							2	9													9			11
TOTAL	3	4	0	0	1	0	0	0	8	36	0	0	0	2	0	0	0	0	0	0	0	0	38	0	0	46
PER CENT	6.5%	8.7%	0.0%	0.0%	2.2%	0.0%	0.0%	0.0%	17.4%	78.3%	0.0%	0.0%	0.0%	4.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	82.6%	0.0%	0.0%	100%

4.2 Rabies cases per country and administrative units, 3rd quarter 2008

01.07.08-30.09.08

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
ROMANIA																										
Alba	1								1	1													1			2
Bacau	1	1							2	5			1										6			8
Bihor		1							1	1													1			2
Bistrita-Nasaud		1							1	9													9			10
Botosani			2						2														0			2
Braila									0	4						1							5			5
Brasov									0	8													8			8
Buzau			2						2	1													1			3
Calarasi		2							2	1													1			3
Caras-Severin		1							1														0			1
Cluj	1								1	4													4			5
Covasna		1							1	6													6			7
Dambovita	1								1	4													4			5
Galati									0	2													2			2
Gorj									0	2													2			2
Harghita	1	1							2	4													4			6
Ialomita		1							1														0			1
Iasi									0	5													5			5
Mehedinti									0	1													1			1
Mures		2							2	9													9			11
Neamt									0	1													1			1
Olt	1								1	5													5			6
Prahova		3							3							1							1	1		4
Salaj									0	15													15			15
Satu Mare			2						2	6													6			8
Sibiu			2						2	3						1							4	1		6
Suceava	1								1	4				1	1								6			7
Timis									0	2													2			2
Tulcea		1							1														0			1
Valcea				1					1														0			1
Vaslui					1				1	1													1			2
Vrancea		1							1														0			1
TOTAL	7	16	8	1	1	0	0	0	33	104	0	0	1	0	1	3	1	0	0	0	0	0	110	0	0	143
PER CENT	4.9%	11.2%	5.6%	0.7%	0.7%	0.0%	0.0%	0.0%	23.1%	72.7%	0.0%	0.0%	0.7%	0.0%	0.7%	2.1%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	76.9%	0.0%	0.0%	100%
THE NETHERLANDS																										
Flevoland									0														0	1		1
Friesland									0														0	1		1
Gelderland									0														0	4		4
Groningen									0														0	2		2
Noord-Holland									0														0	3		3
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	11	
PER CENT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100%	

4.2 Rabies cases per country and administrative units, 3rd quarter 2008

01.07.08-30.09.08

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.	2	3	1		1				7														0			7
Belgorodskaja obl.	12	11	3		1				27	14													14			41
Brjanskaja obl.			1						1	10						2							12			13
Cuvasskaja resp.	1	1							2	3													3			5
Dagestan resp.	1		1				1		3														0			3
Ivanovskaja obl.									0	2													2			2
Jaroslavskaja obl.	1	1							2	8	1												9			11
Kabardino-Balkanskaja resp.	1								1														0			1
Kaliningradskaja obl.	10		1						11	5													5			16
Kalmykija resp.		1					1		2														0			2
Kaluzskaja obl.	1	1	6						8	24	1					1						1	27			35
Karacaevo-Cerkesskaja resp.			2						2														0			2
Krasnodarskij kr.	8	2	2						12	1				1									2			14
Kurskaja obl.		7	2				1		10	10													10			20
Lipeckaja obl.	1	5	1		3				10	13						1							14			24
Marij El resp.									0	1													1			1
Mordovija resp.	4		2						6	4													4			10
Moskovskaja obl.	4	4	2						10	28	10											5	43		2	55
Moskva g.	1	2							3														0			3
Nizegorodskaja obl.	1	1			1				3	3													3			6
Novgorodskaja obl.									0		2												2			2
Orlovskaja obl.	1	4	1						6	2												1	3		1	10
Penzenskaja obl.	4	1	1		1				7	10													10			17
Pskovskaja obl.	2								2	2	3			2	1								8			10
Rjazanskaja obl.	2	3			1		1		7	6													6			13
Rostovskaja obl.	2	3	2						7	2													2			9
Saratovskaja obl.	7	14	3	1			2		27	26				1		1			1			1	30			57
Severnaja Osetija-Alanija resp.	5	1	2						8														0			8
Smolenskaja obl.	4	5	2		1				12	20	2												22			34
Stavropol'skij kr.	4	1	3						8	5													5			13
Tambovskaja obl.	3	2							5	11													11			16
Tul'skaja obl.	6	5							11	10													10			21
Tverskaja obl.	5		1						6	25	23					1							49			55
Ul'janovskaja obl.	1								1	5													5			6
Vladimirska obl.	1	5							6	5													5			11
Volgogradskaja obl.	1	5					1		7	2													2			9
Voronezskaja obl.	3	13	3				1		20	8				2									10			30
TOTAL	99	101	42	1	9	0	8	0	260	265	42	0	0	3	4	5	1	0	1	0	0	8	329	0	3	592
PER CENT	16.7%	17.1%	7.1%	0.2%	1.5%	0.0%	1.4%	0.0%	43.9%	44.8%	7.1%	0.0%	0.0%	0.5%	0.7%	0.8%	0.2%	0.0%	0.2%	0.0%	0.0%	1.4%	55.6%	0.0%	0.5%	100%

4.2 Rabies cases per country and administrative units, 3rd quarter 2008

01.07.08-30.09.08

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	6		2						8														0			8
Bayburt									0	1													1			1
Bingöl			1						1														0			1
Burdur			1						1														0			1
Bursa	1								1														0			1
Denizli		1	1						2														0			2
Diyarbakir			1	1					2			1											1			3
Elazig	1		1						2														0			2
Erzurum	7		4	2					13														0			13
Hatay	3								3														0			3
Istanbul	9	2							11														0			11
Izmir	7		1						8	2													2			10
K.Maras	1								1														0			1
Kars			1						1														0			1
Kutahya	1								1														0			1
Malatya	1								1														0			1
Manisa	1				1				2														0			2
Mardin	2		1	1					4														0			4
Mugla	1								1														0			1
Ordu	1								1														0			1
Osmaniye	2								2														0			2
Sanliurfa	2		3						5														0			5
Sirnak									0	1													1			1
Van	1								1														0			1
Zonguldak			1						1						1								1			2
TOTAL	47	3	18	4	1	0	0	0	73	4	0	0	1	0	1	0	0	0	0	0	0	0	6	0	0	79
PER CENT	59,5%	3,8%	22,8%	5,1%	1,3%	0,0%	0,0%	0,0%	92,4%	5,1%	0,0%	0,0%	1,3%	0,0%	1,3%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	7,6%	0,0%	0,0%	100%
SLOVENIA																										
Dolenjska									0	1													1			1
Podravska									0	3			1										4			4
Pomurska									0	1													1			1
Savinjska									0	1													1			1
TOTAL	0	0	0	0	0	0	0	0	0	6	0	0	0	1	0	0	0	0	0	0	0	0	7	0	0	7
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	85,7%	0,0%	0,0%	0,0%	14,3%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 3rd quarter 2008

01.07.08-30.09.08

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
UKRAINE																										
Avtonomnaya Respublika Krym		2							2														0			2
Bolynskaja o.	1	1							2	3													3			5
Cherkasskaja o.	2	7	3						12	8	1			1	1								11			23
Chernigovskaja o.	5	14	3						22	4			1										5			27
Chernovitskaja o.	2								2	2													2			4
Dnepropetrovskaja o.		7	5						12	1	1												2			14
Donetskaskaja o.	3	6	3						12	4													4			16
Ivano-Frankovskaja o.	2	2							4	1													1			5
Khar'kovskaja o.	14	13	6		2				35	10													10			45
Khersonskaja o.	11	7	5	1					24	8		1			2								11			35
Khmel'nitskaja o.	2	6	2						10	8													8			18
Kirovogradskaja o.		1							1	2													2			3
Kijevskaja o.	5	14	1						20	4				1									5			25
Luganskaja o.	16	11	2	1	3				33	12	1												13			46
L'vovskaja o.	1								1	1													1			2
Nikolajevskaja o.	1	3							4	1													1			5
Odesskaja o.	1	1	1						3	1												1	2			5
Poltavskaja o.	4	6							10	3													3			13
Rovenskaja o.		4							4	3													2			9
Sumskaja o.	5	12	1	1					19	7													7			26
Terнопol'skaja o.		2							2														0			2
Vinnitskaja o.		10							10	9					2								11			21
Zakarpatskaja o.	1								1	1				1	1								3			4
Zaporozhskaja o.	5	4	3		1				13	1													1			14
Zhitomirskaja o.	3	2	1						6	15													16			22
TOTAL	84	135	36	3	6	0	0	0	264	109	3	1	1	3	7	0	0	0	0	0	0	3	127	0	0	391
PER CENT	21,5%	34,5%	9,2%	0,8%	1,5%	0,0%	0,0%	0,0%	67,5%	27,9%	0,8%	0,3%	0,3%	0,8%	1,8%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,8%	32,5%	0,0%	0,0%	100%
SPAIN																										
Melilla	1								1														0			1
TOTAL	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
PER CENT	100,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100%

4.3 Trend tables

4.3.1 Comparison of the reporting quarter (III/2008) with the previous quarter (II/2008)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	III 2008 (no.)	II 2008 (no.)	Difference	III 2008 (no.)	II 2008 (no.)	Difference	III 2008 (no.)	II 2008 (no.)	Difference	III 2008 (no.)	II 2008 (no.)	Difference	III 2008 (no.)	II 2008 (no.)	Difference
Albania															
Austria															
Belarus	235	194	41	189	148	41	46	46							
Belgium															
Bosnia - Hercegovina	13	22	-9	9	21	-12	4	1	3						
Bulgaria	2	10	-8	2	7	-5		3	-3						
Croatia	217	221	-4	197	212	-15	20	9	11						
Cyprus															
Czech Republic															
Denmark															
Estonia															
Finland															
France	3		3							3		3			
Germany	8		8							8		8			
Greece															
Hungary	2	2		2	2										
Iceland															
Ireland															
Italy															
Latvia	20	24	-4	20	16	4		8	-8						
Lithuania	28	9	19	20	4	16	8	5	3						
Luxembourg															
Macedonia															
Malta															
Moldova	12	5	7	2	2		10	3	7						
Montenegro	11	15	-4	10	12	-2	1	3	-2						
Norway															
Poland	5	6	1	1	6	-5	1		1	3		5			
Portugal															
Romania	143	196	-53	110	161	-51	33	35	-2						
Russian Federation	592	688	-96	329	298	31	260	388	-128				3	2	1
Serbia	46	24	22	38	19	19	8	5	3						
Slovak Republic															
Slovenia	7	9	-2	7	9	-2									
Spain	1		1				1		1						
Sweden															
Switzerland + Lichtenstein															
The Netherlands	11		11							11		11			
Turkey	79	59	20	6	8	-2	73	51	22						
Ukraine	391	413	-22	127	121	6	264	291	-27		1	-1			
United Kingdom		2	-2					1**	-1		1	-1			
TOTAL	1826	1899	-71	1069	1046	23	729	848	-120	25	2	25	3	2	1

Wildlife: excluding bats

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

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

* no data

** imported case

4.3.2 Comparison of the reporting quarter (III/2008) with the same quarter of the previous year (III/2007)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	III 2008 (no.)	III 2007 (no.)	Difference	III 2008 (no.)	III 2007 (no.)	Difference	III 2008 (no.)	III 2007 (no.)	Difference	III 2008 (no.)	III 2007 (no.)	Difference	III 2008 (no.)	III 2007 (no.)	Difference
Albania															
Austria															
Belarus	235	149	86	189	114	75	46	35	11						
Belgium															
Bosnia - Hercegovina	13	15	-2	9	11	-2	4	4							
Bulgaria	2	9	-7	2	5	-3		4	-4						
Croatia	217	117	100	197	112	85	20	5	15						
Cyprus															
Czech Republic															
Denmark		1	-1								1	-1			
Estonia		2	-2		2	-2									
Finland															
France	3		3							3		3			
Germany	8	4	4							8	4	4			
Greece															
Hungary	2	2		2	2										
Iceland															
Ireland															
Italy															
Latvia	20	39	-19	20	29	-9		10	-10						
Lithuania	28	64	-36	20	33	-13	8	31	-23						
Luxembourg															
Macedonia															
Malta															
Moldova	12	10	2	2	4	-2	10	6	4						
Montenegro	11	2	9	10	1	9	1	1							
Norway															
Poland	5	11	-4	1	5	-4	1	4	-3	3	2	3			
Portugal															
Romania	143	89	54	110	52	58	33	37	-4						
Russian Federation	592	757	-165	329	457	-128	260	299	-39		1	-1	3		3
Serbia	46	23	23	38	20	18	8	3	5						
Slovak Republic															
Slovenia	7		7	7		7									
Spain	1	1					1		1		1	-1			
Sweden															
Switzerland + Lichtenstein															
The Netherlands	11	4	7							11	4	7			
Turkey	79	59	20	6	3	3	73	56	17						
Ukraine	391	562	-171	127	286	-159	264	275	-11					1	-1
United Kingdom		1	-1								1	-1			
TOTAL	1826	1921	-93	1069	1136	-67	729	770	-41	25	14	13	3	1	2

Wildlife: excluding bats

III/2008 (no.), III/2007 (no.): number of cases

* no data

Difference: no. of cases in III/2008 minus cases in III/2007

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

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. 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 Générale 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 Unit / Department Pasteur
Institute – Scientific Institute of Public Health
Engelandstraat 642 – 1180 Brussels, Belgium
Tel. +32-2-373 31 62
Fax +32-2-373 31 49

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:
Responsible expert for CZH
MVDr. Ivan Nágľ
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.nagľ@svupraha.cz

DNK Denmark

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

EST Estonia

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

Responsible expert:
Dr. Külli Must
Head of Department
Veterinary and Food Laboratory

Kreutzwaldi 30
51006 Tartu /Estonia
Tel. +372-742 1246
Fax +372-742 1730
e-mail kylli@vetlab.ee

FIN Finland

Dr. Matti Aho, CVO
Dr. Tiia Tuupanen
Ministry of Agriculture and Forestry
Department of Food and Health, Animal
Health
PO BOX 30
FIN-00023 Government
Finland
Tel. +358-9-16001, +358-9-1605
2787
Fax +358-9-1605 4777, +358-9-
1605 3338
e-mail cvo-finland@mmm.fi
tiia.tuupanen@mmm.fi
Internet www.mmm.fi

FRA France

Dr. Florence Cliquet
Agence Francaise de Securite Sanitaire
des Aliments (afssa) - Site de Nancy
Domaine de Pixérecourt
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. 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. 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
Chief of Department of Veterinary
Medicine, Ministry of Agriculture
e-mail: dmv@maia.gov.md

NED Netherlands
Dr. F.H. Plumiers

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

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

SVN Slovenia

Aleš Brečelj, MSc, DVM
Ministry of Agriculture, Forestry and
Food
Veterinary Administration of the Republic
of Slovenia
Parmova 53, 1000 Ljubljana / SLOVENIA
Tel. +386-1-300 13 00
Fax +386-1-300 13 56
e-mail ales.brecelj@gov.si
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. Verbytskyi
Ministry of Agrarian Policy
State Department of Veterinary Medicine
Khreshchatik 24
01001 Kiev /Ukraine
Tel. +380-44-229 12 70
Fax +380-44-229 85 45
e-mail uzpr@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:
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

RABIES CASES EUROPE
3rd QUARTER 2008
1826 CASES REPORTED

25 BAT RABIES CASES INCLUDED
3 HUMAN RABIES CASES INCLUDED

■ rabies free (terrestrial rabies)
□ no data

200 km

Black Sea

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WHO Coll. Centre
Wusterhausen / DEU

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