

RABIES BULLETIN EUROPE

Volume 32

No 2

Quarter 2

2008

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Principal Editor: Conrad Freuling
Associated Editor: Dr. Thomas Müller
Technical Support: Anke Kliemt
Heike Kubitza
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

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

The first miscellaneous article is provided by the colleagues from the AFFSA, Nancy which was designated as European Reference Laboratory for Rabies on July 28th 2008. This article states the terms of references of this new reference lab for the European Union.

The second article is a unique report about an unusual incubation period in a Daubenton's bat tested EBLV-2 positive in the United Kingdom. EBLV-2 has been isolated only sporadically from pond bats and Daubenton's bats in the UK, The Netherlands, Switzerland and Germany.

The rabies data for the 2nd quarter of 2008 is presented in tables and a map. The total number of rabies cases reported in Europe is 1895, considerably less cases compared to the previous quarter (3732 cases).

In the meantime during the production of this issue, rabies cases in foxes were found in previously rabies free areas in the north-east of Italy and also in areas beyond the vaccination belt in Slovenia bordering Italy. Both countries intend to start oral vaccination in the affected areas. We will give an update on this development in upcoming issues. As such reintroduction could arise in all areas bordering rabies endemic regions a general basis for EU-funding such as an emergency fund for vaccines should be envisaged.

Conrad Freuling

2. SUMMARY OF RABIES CASES IN EUROPE

RABIES CASES

2nd QUARTER 2008

01.04.08-30.06.08

Name	Code	Total	Wildlife	Domestic animals	Bats	Human
ALBANIA	ALB	0	0	0	0	0
AUSTRIA	AUT	0	0	0	0	0
BELARUS	BLR	194	148	46	0	0
BELGIUM	BEL	0	0	0	0	0
BOSNIA - HERCEGOVINA	BIH	22	21	1	0	0
BULGARIA	BGR	10	7	3	0	0
CROATIA	HRV	221	212	9	0	0
CYPRUS	CYP	0	0	0	0	0
CZECH REPUBLIC	CZH	0	0	0	0	0
DENMARK	DNK	0	0	0	0	0
ESTONIA	EST	0	0	0	0	0
FINLAND	FIN	0	0	0	0	0
FRANCE	FRA	0	0	0	0	0
GERMANY	DEU	0	0	0	0	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	24	16	8	0	0
LITHUANIA	LTU	9	4	5	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	5	2	3	0	0
MONTENEGRO	MNE	15	12	3	0	0
NETHERLANDS	NED	0	0	0	0	0
NORWAY	NOR	0	0	0	0	0
POLAND	POL	6	6	0	0	0
PORTUGAL	PRT	0	0	0	0	0
ROMANIA	ROU	196	161	35	0	0
RUSSIAN FEDERATION	RUS	688	298	388	0	2
SERBIA	SRB	24	19	5	0	0
SLOVAK REPUBLIC	SVK	0	0	0	0	0
SLOVENIA	SVN	9	9	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	57	8	49	0	0
UKRAINE	UKR	413	121	291	1	0
UNITED KINGDOM	UNK	0	0	0	0	0
TOTAL		1895	1046	846	1	2

Wildlife: excluding bats

* no data

3. Miscellaneous Articles

3.1 Designation of the Community Reference Laboratory for Rabies

A. Servat¹, J. Barrat¹, F. Boué¹, E. Picard¹, M. Wasniewski¹, F. Cliquet¹

¹Afssa site de Nancy, National Laboratory on Rabies and Wildlife Diseases,
Technopôle Agricole et Vétérinaire, BP 40 009, 54220 Malzéville Cedex, France

The National Laboratory on Rabies and Wildlife Diseases of the French Food Safety Agency (LERRPAS, Afssa Nancy, France) was designated by the European Commission as the Community Reference Laboratory (CRL) for rabies on July 28th 2008 . The French laboratory has now two mandates, since it had been already nominated as Community Specific Institute for rabies serology in 2000 .

According to the COMMISSION REGULATION (EC) No 737/2008 the CRL for Rabies shall have the following responsibilities and tasks:

1. To coordinate, in consultation with the Commission, the methods employed in the Member States for diagnosing rabies, in particular by:
 - (a) typing, storing and supplying strains of rabies virus;
 - (b) preparing, controlling and supplying international standard sera and other reference reagents to the national reference laboratories in order to standardise the tests and reagents used in the Member States;
 - (c) validating reference reagents including antigens and national standard sera submitted by the national reference laboratories;
 - (d) building up and maintaining a sera bank and a collection of rabies virus, and maintaining a database of strains isolated across the Community, including typing;

- (e) organising periodical comparative tests of diagnostic procedures at Community level and operating laboratory proficiency tests of national reference laboratories;
 - (f) collecting and collating data and information on the methods of diagnosis used and the results of tests carried out in the Community;
 - (g) characterising rabies virus by the most up-to-date methods available to allow a greater understanding of the epidemiology of that disease;
 - (h) keeping abreast of developments in rabies surveillance, epidemiology and prevention throughout the world;
 - (i) acquiring a thorough knowledge of the preparation and use of the products of veterinary immunology used to eradicate and control rabies including the evaluation of vaccines.
2. To facilitate the harmonisation of techniques throughout the Community, in particular specifying standard test methodologies.
3. To organise workshops for the benefit of national reference laboratories as agreed in the work-programme and annual budget referred to in Articles 2 to 4 of Commission Regulation (EC) No 156/2004, including training of experts from the Member States and, as appropriate, from third countries, in new analytical methodologies.
4. To provide technical assistance to the Commission and, upon its request,

to participate in international fora relating to rabies, concerning in particular the standardisation of analytical diagnostic methods and their implementation.

5. To perform research activities and, whenever possible, coordinate research activities directed towards the improved control and eradication of rabies, in particular by:

- (a) carrying out or collaborating with national reference laboratories in carrying out test validation trials;
- (b) providing scientific advice to the Commission and collecting information and reports associated with the activities of the Community reference laboratory.

The organisation of a first meeting, aiming to present the CRL and its duties, with all representatives of EU Member State Laboratories will be one of the first tasks of the CRL during the next months.

The establishment of a Rabies CRL will give the opportunity to create a network gathering National Reference Laboratories on Rabies from Member States for collaborating on all aspects dealing with rabies diagnosis and control.

Acknowledgments dedicated to the excellent technicians of the laboratory Rabies group : M. Biarnais, J.M. Demerson, P. Grosgeorge, A. Hamen, S. Kempff, A. Labadie, E. Litaize, J.L. Schereffer and L. Tribout.

3.2 Isolation of European bat lyssavirus type 2 (EBLV-2) in a Daubenton's bat in the UK with a minimum incubation period of 9 months

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

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

On 7th May 2008 lyssavirus antigen was detected by the rabies fluorescent antibody test in the brain of a Daubenton's bat (*Myotis daubentonii*) submitted under the passive surveillance scheme to detect lyssaviruses in British bats. Subsequent testing isolated virus and a multiplex real-time PCR amplification assay (Wakeley et al., 2005) confirmed that the virus was European bat lyssavirus type 2. A mouse inoculation test (MIT) was conducted with mice developing encephalitis between day 13 and 16. A fragment of the virus nucleoprotein

was amplified and sequenced. This revealed that this virus was 100% identical to an earlier United Kingdom (UK) isolation of EBLV-2 from a bat in Surrey in 2004 (Fooks et. al., 2004) and with an EBLV-2 isolated from a bat in Shropshire in 2007 (Harris et al., 2007). Some divergence of this sequence was observed with other EBLV-2 viruses isolated in the UK. The bat was originally found injured, following a cat attack, by a member of the public in August 2007, in Bushy Park, Surrey. It was passed to a number of experienced bat handlers for rehabilitation, but required the

amputation of one wing by a veterinarian shortly after entering captivity. Over the winter months it appeared healthy but towards the end of April, 2008, it began snapping at the glove of its handlers and twitching. Its handler noted a severe infestation with mites and was treated with an acaricide. On the 28th of April the bat ate and drank normally and the twitching appeared to lessen. By the 30th, the bat became uncoordinated and was unable to settle within its container. It became progressively weaker and underwent euthanasia on



Figure 1: map of the United Kingdom and Ireland showing the location where EBLV-2 infected bats (circles) and the human case (black circle) were found. The grey circle indicates the location where the 2008 bat was found

the 2nd of May. The carcass was refrigerated until it was sent to VLA-Weybridge on the 6th of May. Follow up investigations suggested that the bat had been kept in isolation during its captivity and that the container in which it was kept was considered biosecure. This suggests that the bat was infected with virus prior to its captivity and is indicative of a minimum incubation time of greater than nine months. This would be the longest documented incubation period for EBLV-2. A captive Daubenton's bat infected by sub-dermal inoculation developed disease after 32 days (Johnson et al., 2008).

The bat passive surveillance scheme has been operating in the United Kingdom (UK) since 1987 and prior to this case had detected EBLV-2 in six bats, all *M. daubentonii*, from various locations in England (Figure). EBLV-2 has also been isolated from *Myotis* bats in The Netherlands, Switzerland and most recently, Germany (Freuling et. al., 2008). This virus was also responsible for two cases of rabies in a bat researcher in Finland and a bat enthusiast in the United Kingdom (Lumio et al., 1986; Fooks et al., 2003). This and the repeated isolation of this virus highlight the need for those working with bats to obtain vaccination against rabies prior to handling bats. The World Health Organisation (WHO) advises those that have been bitten by a bat to wash the wound with soap and water and to seek medical advice immediately.

Acknowledgements

This work was funded through grants SV3500 and SE0528 from the Department for Environment Food and Rural Affairs (Defra), UK.

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4 DISTRIBUTION OF RABIES IN EUROPE

4.1 Country summaries of rabies cases, 2nd quarter 2008

01.04.08-30.06.08

Country	Name	Domestic animals										Wildlife										bat	Human cases	total			
		dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelids	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal			
Albania	ALB *									0													0	0	0		
Austria	AUT *									0													0	0	0		
Belarus	BLR	22	13	9	2					46	125	14		1	2		4						2	148			
Belgium	BEL *									0													0	0	0		
Bosnia - Herzegovina	BIH			1						1	20												1	21	22		
Bulgaria	BGR	2	1							3	5											2	7	10			
Croatia	HRV	2	1	2	1	2	1			9	209			1		2							212		221		
Cyprus	CYP *									0													0	0	0		
Czech Republic	CZH *									0													0	0	0		
Denmark	DNK *									0													0	0	0		
Estonia	EST *									0													0	0	0		
Finland	FIN *									0													0	0	0		
France	FRA *									0													0	0	0		
Greece	GRC *									0													0	0	0		
Hungary	HUN									0	2												2	2	2		
Iceland	ISL *									0													0	0	0		
Ireland	IRE *									0													0	0	0		
Italy	ITA *									0													0	0	0		
Latvia	LVA	2	4	2						8	11	4											1	16	24		
Lithuania	LTU	2	1	2						5	1	2											4	9			
Luxembourg	LUX *									0													0	0	0		
Macedonia	MKD *									0													0	0	0		
Malta	MLT *									0													0	0	0		
Moldova	MDA	1	1	1						3	2												2	5			
Montenegro	MNE	1	1			1				3	10				2								12	15			
Norway	NOR *									0													0	0	0		
Poland	POL									0	6												6	6			
Portugal	PRT *									0													0	0	0		
Romania	ROU	13	10	4	8					35	153			1			5		1			1	161		196		
Russian Federation	RUS	178	96	89	2	10		13		388	251	37		3	3		3					1	298	2	688		
Serbia	SRB	2	3							5	17			3	3		2						19	24			
Slovak Republic	SVK *									0													0	0	0		
Slovenia	SVN									0	9												9	9			
Spain	ESP *									0													0	0	0		
Sweden	SWE *									0													0	0	0		
Switzerland + Lichtenstein	CHE *									0													0	0	0		
The Netherlands	NED *									0													0	0	0		
Turkey	TUR	32	1	15		1				49	7		2	6	2	7	11	9	7	10	0	2	0	1	8	57	
Ukraine	UKR	133	131	20	3	4				291	97	4	2	6	2	5	1		1			3	121	1	413		
United Kingdom	UNK *									0													0	0	0		
TOTAL		390	263	145	16	18	1	13	0	846	925	61	2	7	11	9	7	10	0	2	0	0	12	1046	1	2	1895
PER CENT		20,6%	13,9%	7,7%	0,8%	0,9%	0,1%	0,7%	0,0%	44,6%	48,8%	3,2%	0,1%	0,4%	0,6%	0,5%	0,4%	0,5%	0,0%	0,1%	0,0%	0,0%	0,6%	55,2%	0,1%	0,1%	100%

* NO CASES

** NO DATA

4.3 Rabies cases per country and administrative units, 2nd quarter 2008

01.04.08-30.06.08

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 mustelids	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal		
BELARUS																									
Brest		3	1						4	3											3		7		
Gomel	5	5	7						17	21	2										25		42		
Grodno	1	1							2	17	1										1	19	21		
Minsk	2								2	14	2										16		18		
Mogilev	6	1		1					8	35	3			2							1	41	49		
Vitebsk	8	3	1	1					13	35	6	1		2							44		57		
TOTAL	22	13	9	2	0	0	0	0	46	125	14	0	1	2	0	4	0	0	0	0	2	148	0	0	194
PER CENT	11,3%	6,7%	4,6%	1,0%	0,0%	0,0%	0,0%	0,0%	23,7%	64,4%	7,2%	0,0%	0,5%	1,0%	0,0%	2,1%	0,0%	0,0%	0,0%	0,0%	1,0%	76,3%	0,0%	0,0%	100%
BULGARIA																									
Pleven									0	1											1		1		
Razgrad	2								2	2											2		4		
Ruse									0												1	1	1		
Varna									0	1										1	2	2			
Veliko Tumovo		1							1											0		1			
Vidin									0	1										1		1			
TOTAL	2	1	0	0	0	0	0	0	3	5	0	0	0	0	0	0	0	0	0	0	2	7	0	0	10
PER CENT	20,0%	10,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	30,0%	50,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	20,0%	70,0%	0,0%	0,0%	100%
BOSNIA - HERCEGOVINA																									
Banja Luka									0	8											8		8		
Doboj			1						1											1	1		2		
Sokolac									0	3											3		3		
Tuzlanski									0	3											3		3		
Unsko-sanski									0	1											1		1		
Vlasenica									0	1										1		1			
Zapadnobosanski									0	4										4		4			
TOTAL	0	0	1	0	0	0	0	0	1	20	0	0	0	0	0	0	0	0	0	1	21	0	0	22	
PER CENT	0,0%	0,0%	4,5%	0,0%	0,0%	0,0%	0,0%	0,0%	4,5%	90,9%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	4,5%	95,5%	0,0%	0,0%	100%
HUNGARY																									
Békés									0	1											1		1		
Hajdú-Bihar									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	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%	100,0%	0,0%	0,0%	100%

4.3 Rabies cases per country and administrative units, 2nd quarter 2008

01.04.08-30.06.08

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 mustelids	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal
CROATIA																							
Bjelovarsko - Bilogorska	1			1		2			4	12											12		16
Karlovacka									0	24											26		26
Koprivnicko - Krizevaska									0	8											8		8
Krapinsko - Zagorska									0	24											24		24
Licko - Senjska									0	4											4		4
Osjecko - Baranjska	1	1		1					3	11											11		14
Pozesko - Slovenska									0	4											4		4
Primorsko - Goranska									0	14											14		14
Sibensko - Kninska			1						1	10											10		11
Sisacko - Moslavacka						1			1	16											16		17
Splitско - Dalmatinska									0	4											4		4
Varazdinska									0	22											22		22
Viroticko - Podravska									0	1											1		1
Vukovarsko - Srijemska									0	2											2		2
Zagreb									0	25											25		25
Zagrebacka									0	28				1							29		29
TOTAL	2	1	2	1	2	1	0	0	9	209	0	0	0	1	0	2	0	0	0	0	212	0	0
PER CENT	0.9%	0.5%	0.9%	0.5%	0.9%	0.5%	0,0%	0,0%	4.1%	94.6%	0,0%	0,0%	0,0%	0.5%	0.0%	0.9%	0,0%	0,0%	0,0%	0,0%	95.9%	0,0%	0,0%
LATVIA																							
Aizkraukles r.		2								2	1										1	2	4
Daugavpils r.									0	2											2		2
Kuldigas r.		1							1	2	1										3		4
Liepajas r.									0	1	1										2		2
Preili r.			1	2					3	2	1									3		6	
Rezeknes r.	1								1	1										1		2	
Talsu r.	1								1	1	1									2		3	
Tukuma r.									0	1										1		1	
TOTAL	2	4	2	0	0	0	0	0	8	11	4	0	0	0	0	0	0	0	0	1	16	0	0
PER CENT	8.3%	16.7%	8.3%	0.0%	0.0%	0.0%	0,0%	0,0%	33.3%	45.8%	16.7%	0,0%	0,0%	0.0%	0,0%	0,0%	0,0%	0,0%	0,0%	4.2%	66.7%	0,0%	0,0%
LITHUANIA																							
Alytaus									0		1						1				1		1
Kauno									0											1		1	
Siaulių	1								1											0		1	
Telsių									0		1									1		1	
Utenos	1	1	2						4		1									1		5	
TOTAL	2	1	2	0	0	0	0	0	5	1	2	0	0	0	1	0	0	0	0	0	4	0	0
PER CENT	22,2%	11,1%	22,2%	0,0%	0,0%	0,0%	0,0%	0,0%	55,6%	11,1%	22,2%	0,0%	0,0%	0,0%	11,1%	0,0%	0,0%	0,0%	0,0%	0,0%	44,4%	0,0%	0,0%

4.3 Rabies cases per country and administrative units, 2nd quarter 2008

01.04.08-30.06.08

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 mustelids	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal	bat
MOLDOVA																								
Moldova	1	1	1						3	2											2		5	
TOTAL	1	1	1	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	2	0	5	
PER CENT	20,0%	20,0%	20,0%	0,0%	0,0%	0,0%	0,0%	0,0%	60,0%	40,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	40,0%	0,0%	100%	
MONTENEGRO																								
Montenegro	1	1			1				3	10											12		15	
TOTAL	1	1	0	0	1	0	0	0	3	10	0	0	0	2	0	0	0	0	0	0	12	0	15	
PER CENT	6,7%	6,7%	0,0%	0,0%	6,7%	0,0%	0,0%	0,0%	20,0%	66,7%	0,0%	0,0%	0,0%	13,3%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	80,0%	0,0%	100%	
TURKEY																								
Adana	5				1				6												0		6	
Agri	2								2												0		2	
Antalya	1								1												0		1	
Artvin	1								1												0		1	
Aydin	2								2												0		2	
Balikesir									0	1											1		1	
Batman	1								1												0		1	
Bingöl	1								1												0		1	
Denizli			1						1												0		1	
Diyarbakir	1	3							4	1											1		5	
Elazig	1								1												0		1	
Erzurum	6		4						10												0		10	
Hatay	1	1							2												0		2	
Istanbul		2							2												0		2	
Izmir	1	3							4	1											1		5	
K.Maras	3								3												0		3	
Kastamonu	1								1												0		1	
Malatya									0	1											1		1	
Manisa	1	1							2	2											2		4	
Mugla									0	1											1		1	
Sanliurfa	1		1						2												0		2	
Tunceli	1								1												0		1	
Van	2								2												0		2	
Zonguldak									0											1	1		1	
TOTAL	32	1	15	0	1	0	0	0	49	7	0	0	0	0	0	0	0	0	0	1	8	0	57	
PER CENT	56,1%	1,8%	26,3%	0,0%	1,8%	0,0%	0,0%	0,0%	86,0%	12,3%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	1,8%	14,0%	0,0%	100%

4.3 Rabies cases per country and administrative units, 2nd quarter 2008

01.04.08-30.06.08

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 mustelids	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal	bat	
ROMANIA																									
Alba	1	1							2	6									1			7	9		
Arad									0	3											3	3			
Arges									0	7											7	7			
Bacau	2	1							3	6											8	11			
Bistrita-Nasaud	1								1	12				1		1					13	14			
Braila									0	1											1	1			
Brasov		4							4	6											6	10			
Buzau									0	3											3	3			
Calarasii									0	1											1	1			
Cluj	4								4	13											13	17			
Constanta									0	1											1	1			
Covasna	2	1							3	12											12	15			
Dolj									0	2											2	2			
Galati	1	2							3	3											3	6			
Gorj									0	7											7	7			
Harghita									0	8											8	8			
Hunedoara									0	2											2	2			
Ialomița		1							1	7											9	10			
Iasi			1						1	2											1	4			
Iffov	1								1	1											1	2			
Mures									0	16											17	17			
Neamt			1						1	3											3	4			
Olt				1					1	6											6	7			
Prahova									0	1											1	1			
Salaj			1	5					6	6											6	12			
Satu Mare			1						1	1											1	2			
Sibiu									0	6											6	6			
Suceava									0	6											6	6			
Teleorman				2					2												0	2			
Timis									0	1											1	1			
Valcea									0	2											2	2			
Vaslui	1								1	2											2	3			
TOTAL	13	10	4	8	0	0	0	0	35	153	0	0	0	1	0	0	5	0	1	0	0	1	161		
PER CENT	6,6%	5,1%	2,0%	4,1%	0,0%	0,0%	0,0%	0,0%	17,9%	78,1%	0,0%	0,0%	0,0%	0,5%	0,0%	0,0%	2,6%	0,0%	0,5%	0,0%	0,0%	0,5%	82,1%	0,0%	0,0%
SLOVENIA																									
Podravska									0	7											7	7			
Savinjska									0	1											1	1			
Spodnjeposavska									0	1											1	1			
TOTAL	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%	9		
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%

4.3 Rabies cases per country and administrative units, 2nd quarter 2008

01.04.08-30.06.08

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 mustelids	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal	bat
RUSSIAN FEDERATION																								
Astrahanskaja obl.	6	2	4		2		1		15												0		15	
Belgorodskaja obl.	15	11	5		2				33	8											8		41	
Bjanskaja obl.	5	3		1					9	21											21		30	
Cuvasskaja resp.	2	1	2						5	3											3		8	
Dagestan resp.	1	3			1				5												0		5	
Ivanovskaja obl.		1							1	1											1		2	
Jaroslavskaja obl.	2						1		3	10	3										13		16	
Kabardino-Balkanskaja resp.	1		1						2		3										0		2	
Kaliningradskaja obl.	4	2	1						7	3											3		10	
Kalmikija resp.	1								1	2											2		3	
Kaluzskaja obl.	7	2	7						16	15											15		31	
Krasnodarskij kr.	16	3					5		24	2											5		29	
Kurskaja obl.	10	12	2				3		27	6											8		35	
Lipeckaja obl.	5	2	1				2		10	12				1							13		23	
Mordovija resp.	1	1							2	4											4		6	
Moskovskaja obl.	8		1						9	20	8										28		38	
Nizegorodskaja obl.		1							1	4											4		5	
Novgorodskaja obl.									0	2	5			1							8		8	
Orlovskaja obl.	1	3	4		1				9	7											7		16	
Penzenskaja obl.	7	2	5						14	19											19		33	
Pskovskaja obl.									0	5	2			1							8		8	
Riazanskaja obl.	9	3			1		1		14	7											7		21	
Rostovskaja obl.	6	3	5						14												0		14	
Saratovskaja obl.	7	8	7						22	12											12		34	
Severnaja Osetija-Alanija resp.	2	1							3												0		3	
Smolenskaja obl.	3	1							4	13	6										19		23	
Stavropol'skij kr.	6	3	25						34												0		34	
Tambovskaja obl.	4	1	3						8	6											6		14	
Tul'skaja obl.	13	10			2				25	16											16		41	
Tverskaja obl.	2	1	1						4	27	13										40		45	
Ul'janovskaja obl.									0	1											1		1	
Vladimirskaja obl.	1	2							3	9											9		12	
Volgogradskaja obl.	7	3	4						14	2						1					3		17	
Voronezskaja obl.	27	14	7	1	1				50	14										1	15		65	
TOTAL	178	96	89	2	10	0	13	0	388	251	37	0	0	3	3	0	3	0	0	1	298	0	2	
PER CENT	25,9%	14,0%	12,9%	0,3%	1,5%	0,0%	1,9%	0,0%	56,4%	36,5%	5,4%	0,0%	0,0%	0,4%	0,4%	0,0%	0,4%	0,0%	0,0%	0,1%	43,3%	0,0%	0,3%	100%

4.3 Rabies cases per country and administrative units, 2nd quarter 2008

01.04.08-30.06.08

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 mustelids	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal		
UKRAINE																									
Avtonomnaya Respublika Krym	2	1							3	1											1		4		
Bolynskaja o.	1	3							4	1											1		5		
Cherkasskaja o.	5	7							12	7											7		19		
Chemigovskaja o.	10	9	1						20	12		2									1	15	35		
Chernovitskaja o.	1								1												0		1		
Dnepropetrovskaja o.	6	7	2						15	1											1		16		
Donetskskaja o.	8	6	2						16	3			1								4		20		
Ivano-Frankovskaja o.	1	1							2	1											1		3		
Khar'kovskaja o.	7	10	1		1				19	5	1		1		1						8		27		
Khersonskaja o.	9	6	1						16	7											7		23		
Khmel'nitskaja o.	6	6	1						13	3											3		16		
Kirovogradskaja o.	6	4			1				11	3											3		14		
Kiyevskaja o.	7	5							12	8											9		21		
Luganskaja o.	8	15	3						26	4	1		1	1	2						9		35		
L'vovskaja o.	1								1	1											1		2		
Nikolayevskaja o.	4	4							8	4											4		12		
Odesskaja o.	4	3							7	3											3		10		
Poltavskaja o.	5	4	2						11	3	1										4		15		
Rovenskaja o.	2								2	3											3		5		
Sumskaya o.	18	17	1	2					38	8	1		1		1	1					1		51		
Ternopol'skaja o.	1								1	1											1		2		
Vinnitskaja o.	4	6		1	1				12	7										1	8		20		
Zakarpatskaja o.	1	1							2											0		2			
Zaporozhskaja o.	16	11	6		1				34	8			2							10	1		45		
Zhitomirskaja o.	3	2							5	3			1							1	5		10		
TOTAL	133	131	20	3	4	0	0	0	291	97	4	2	6	2	5	1	0	0	1	0	3	121	1	0	413
PER CENT	32,2%	31,7%	4,8%	0,7%	1,0%	0,0%	0,0%	0,0%	70,5%	23,5%	1,0%	0,5%	1,5%	0,5%	1,2%	0,2%	0,0%	0,0%	0,2%	0,0%	0,7%	29,3%	0,2%	0,0%	100%
SERBIA																									
Central Serbia	1	2							3	14										1		15		18	
Vojvodina	1	1							2	3										1		4		6	
TOTAL	2	3	0	0	0	0	0	0	5	17	0	0	0	0	0	0	2	0	0	0	0	19	0	0	24
PER CENT	8,3%	12,5%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	20,8%	70,8%	0,0%	0,0%	0,0%	0,0%	0,0%	8,3%	0,0%	0,0%	0,0%	0,0%	0,7%	79,2%	0,0%	0,0%	100%
POLAND																									
Podkarpackie									0	4											4		4		
Podlaskie									0	1										1		1			
Warmińsko-Mazurskie									0	1										1		1			
TOTAL	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6	0	0	6	
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%	100,0%	0,0%	0,0%	100%

4.3 Trend tables

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

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	II 2008 (no.)	I 2008 (no.)	Difference	II 2008 (no.)	I 2008 (no.)	Difference	II 2008 (no.)	I 2008 (no.)	Difference	II 2008 (no.)	I 2008 (no.)	Difference	II 2008 (no.)	I 2008 (no.)	Difference
Albania															
Austria															
Belarus	194	288	-94	148	225	-77	46	63	-17						
Belgium															
Bosnia - Hercegovina	22	37	-15	21	34	-13	1	3	-2						
Bulgaria	10	12	-2	7	9	-2	3	3							
Croatia	221	384	-163	212	349	-137	9	35	-26						
Cyprus															
Czech Republic															
Denmark															
Estonia		3	-3		1	-1		2	-2						
Finland															
France		2	-2					1	-1		1	-1			
Germany															
Greece															
Hungary	2		2	2		2									
Iceland															
Ireland															
Italy															
Latvia	24	43	-19	16	33	-17	8	10	-2						
Lithuania	9	21	-12	4	16	-12	5	5	0						
Luxembourg															
Macedonia															
Malta															
Moldova	5	17	-12	2	5	-3	3	12	-9						
Montenegro	15	9	6	12	9	3	3		3						
Norway															
Poland	6	11	-5	6	8	-2		3	-3						
Portugal															
Romania	196	510	-314	161	477	-316	35	33	2						
Russian Federation	688	1310	-622	298	628	-330	388	681	-293				2	1	
Serbia	24	98	-74	19	92	-73	5	6	-1						
Slovak Republic															
Slovenia	9	26	-17	9	25	-16		1	-1						
Spain		2	-2					1	-1		1				
Sweden															
Switzerland + Lichtenstein															
The Netherlands															
Turkey	57	96	-39	8	25	-17	49	71	-22						
Ukraine	413	863	-450	121	359	-238	291	502	-211	1		1		2	
United Kingdom															
TOTAL	1895	3732	-1837	1046	2295	-1249	846	1432	-586	1	2	0	2	3	0

Wildlife: excluding bats

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

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

* no data

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

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	II 2008 (no.)	II 2007 (no.)	Difference												
Albania															
Austria															
Belarus	194	170	24	148	124	24	46	46							
Belgium															
Bosnia - Hercegovina	22	8	14	21	6	15	1	2	-1						
Bulgaria	10	15	-5	7	11	-4	3	4	-1						
Croatia	221	74	147	212	69	143	9	5	4						
Cyprus															
Czech Republic															
Denmark		1	-1								1	-1			
Estonia		1	-1					1	-1						
Finland															
France		1	-1								1	-1			
Germany		1	-1								1	-1			
Greece											1	-1			
Hungary	2		2	2		2									
Iceland															
Ireland															
Italy															
Latvia	24	48	-24	16	30	-14	8	18	-10						
Lithuania	9	120	-111	4	94	-90	5	26	-21						
Luxembourg															
Macedonia															
Malta															
Moldova	5	*		2		2	3		3						
Montenegro	15	2	13	12	1	11	3	1	2						
Norway															
Poland	6	18	-12	6	15	-9	2		-2	1	-1				
Portugal															
Romania	196	18	178	161	8	153	35	10	25			2		2	2
Russian Federation	688	365	323	298	145	153	388	219	169			1		1	-1
Serbia	24	29	-5	19	25	-6	5	4	1						
Slovak Republic															
Slovenia	9		9	9		9									
Spain															
Sweden															
Switzerland + Lichtenstein															
The Netherlands		1	-1								1	-1			
Turkey	57	88	-31	8	4	4	49	84	-35						
Ukraine	413	325	88	121	124	-3	291	200	91	1	1	0			
United Kingdom															
TOTAL	1895	1285	610	1046	656	390	846	622	224	1	7	-6	2	1	1

Wildlife: excluding bats

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

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

* 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. 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 Nagl
National Reference Laboratory for Rabies
State Veterinary Institute Prague
Sídliště 136/24
CZ -165 03 Praha 6 – Lysolaje
Tel. +420 251 031 281
Fax +420 220 920 655
i.nagl@svupraha.cz

DNK Denmark

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

EST Estonia

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

Responsible expert:
Dr. Külli Must

Head of Department
Veterinary and Food Laboratory
Kreutzwaldi 30
51006 Tartu /Estonia
Tel. +372-742 1246
Fax +372-742 1730
e-mail kylli@vetlab.ee

FIN Finland

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

FRA France

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

DEU Germany

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

Responsible experts:

Dr. Thomas Müller
Conrad Freuling
Friedrich-Loeffler-Institute
Federal Research Institute for Animal
Health
WHO Collaborating Centre for Rabies
Surveillance and Research, Wusterhausen,
Seestr. 55
D-16868 Wusterhausen/Germany
Tel. +49-33979-80 0
Fax +49-33979-80 200 and 222

e-mail who-rabies@fli.bund.de
Internet www.fli.bund.de

GRC Greece

Dr. B. Stylas
Ministry of Agriculture

HUN Hungary

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

ISL Iceland

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

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@vv.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

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

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@mnr.yu

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
Dr. I.V.Baldina
The Kovalenko All-Russian
Inst.of Exper. Veterinary Medicine
109455, Moscow, Ryazansky prosp., 24
e-mail epizootiev@mail.ru
Tel. (495) 377-9483
Fax (495) 970-0369

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

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

SRB Serbia

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

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

SVK Slovak Republic

Prof. Josef Bires, CVO
Roman Matejcik, DVM
State Veterinary Administration of the
Slovak Republic
Botnická 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 Breclj, 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.breclj@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 pgarcia@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
Alimentación
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

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 Bakanlıklar, Ankara /Turkey

Tel. +90-312-41 82 436

Fax +90-312-41 78 209

Responsible expert:

Dr. Orhan Aylan, Chief of Rabies
Laboratory

Etlik Central Veterinary Control and
Research Institute

06020 Etlik, Ankara /Turkey

Tel. +90-312-32 60 090 / 154

Fax +90-312-32 11 755

UKR Ukraine

Dr. P. Verbytskiy

Ministry of Agrarian Policy

State Department of Veterinary Medicine

Khreshchatik 24

01001 Kiev /Ukraine

Tel. +380-44-229 12 70

Fax +380-44-229 85 45

e-mail uzpr@minapk.kiev.ua

Dr. Liudmyla Grishok

Institute of Veterinary Medicine

Head of Laboratory for Rabies

Donetskaja Street 30

Kiev-151 /Ukraine

Tel. +380-44-243 72 38

Fax +380-44-242-69-81

e-mail ivm-kiev@akcecc.kiev.ua

Dr. Zoya Trotsenko

Head of Virology Department

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

UNK United Kingdom

Dr. J.M. Scudamore, CVO

Dr. F. Landeg

Dr. Anna Guittion

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

2nd QUARTER 2008

1895 CASES REPORTED

1 BAT RABIES CASE INCLUDED

2 HUMAN RABIES CASES INCLUDED

- rabies free (terrestrial rabies)
- no data

200 km

Black Sea

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WHO Coll. Centre
Wusterhausen / DEU

Administrative boundaries
based on GfK GeoMarketing
RegioGraph 10.0