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1. Editorial

According to WHO more than 99% of all human rabies deaths occur in the developing world, yet rabies remains a neglected disease throughout most of these countries. Human mortality from endemic canine rabies is estimated to be 55,000 deaths per year in Africa and Asia. In contrast, in Europe only 147 human rabies cases were reported between 1980 and 2005 of which 80% occurred in Eastern Europe. As classical rabies had become less important as an indigenous zoonosis in many European countries, the relative importance of imported rabies in both humans and animals as well as of bat rabies has increased.

In this issue we present you two papers about different scenarios of human rabies infections. The first paper describes a probable fifth case of fatal human bat rabies infection in Europe. This case occurred in Ukraine after a bat bite. The case was diagnosed clinically and on the basis of anamnestic information; unfortunately no virological or pathological results were available.

In the second paper a short overview on recent human rabies cases due to organ transplantation in Germany is given. Many of you might remember a recent report (May 2004) from the USA of a cluster of human rabies cases associated with transplantation of solid organs from a misdiagnosed rabies patient. These cases led the WHO Expert Consultation on Rabies to express concern about the risk of transmission of rabies virus through organ transplants (WHO technical report series 931). Although considered to be a very rare incident only a few months later, at the beginning of 2005, Germany was faced with a similar worrisome event. In Germany, of the 25 human rabies cases officially reported in the past 50 years 15 were imported ones.

This highlights the importance of new rabies infections in humans that can be associated with bat rabies, organ transplantation and imported rabies both in humans and animals. These two papers and other related contributions published in recent issues of the Rabies Bulletin Europe shall emphasize the necessity to increase public veterinary and medical awareness on this subject.

Carsten J. Pötzsch
Thomas Müller

2. SUMMARY OF RABIES CASES IN EUROPE

RABIES CASES

3rd QUARTER 2005

01.07.05 -30.09.05

Name	Code	Total	Wildlife	Domestic animals	Bats	Human
ALBANIA	ALB	0	0	0	0	0
AUSTRIA	AUT	0	0	0	0	0
BELARUS	BLR	124	92	32	0	0
BELGIUM	BEL	0	0	0	0	0
BOSNIA - HERCEGOVINA	BIH	10	9	1	0	0
BULGARIA	BGR	0	0	0	0	0
CROATIA	HRV	123	116	7	0	0
CYPRUS	CYP	0	0	0	0	0
CZECH REPUBLIC	CZH	0	0	0	0	0
DENMARK	DNK	1	0	0	1	0
ESTONIA	EST	70	56	14	0	0
FINLAND	FIN	0	0	0	0	0
FRANCE	FRA	0	0	0	0	0
GERMANY **	DEU	21	5	0	12	4
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	85	73	12	0	0
LITHUANIA	LTU	458	345	113	0	0
LUXEMBOURG	LUX	0	0	0	0	0
MACEDONIA*	MKD					
MOLDOVA *	MDA					
NETHERLANDS	NED	1	0	0	1	0
NORWAY	NOR	0	0	0	0	0
POLAND	POL	31	23	8	0	0
PORTUGAL	PRT	0	0	0	0	0
ROMANIA	ROU	40	28	12	0	0
RUSSIAN FEDERATION	RUS	781	289	492	0	0
SERBIA AND MONTENEGRO	SCG	9	8	1	0	0
SLOVAK REPUBLIC	SVK	8	8	0	0	0
SLOVENIA	SVN	0	0	0	0	0
SPAIN	ESP	0	0	0	0	0
SWEDEN	SWE	0	0	0	0	0
SWITZERLAND + LIEC.	CHE	0	0	0	0	0
TURKEY	TUR	50	1	49	0	0
UNITED KINGDOM ***	UNK	1	0	0	0	1
UKRAINE	UKR	495	203	290	2	0
TOTAL		2310	1258	1031	16	5

Wildlife: excluding bats

*** no data**

**** Human rabies cases due to organ transplantation (belated reporting by German Health Authorities). The organ donor died at the end of 2004.**

Two transplant recipients died in the 1st quarter of 2005 and a third one in the 2nd quarter.

***** 1 IMPORTED CASE FROM INDIA**

3. Miscellaneous Articles

3.1 HUMAN RABIES CASE CAUSED FROM A BAT BITE IN UKRAINE

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Following the International Conference "Rabies in Europe" in Kiev (June 2005) a new case of human rabies after a bat bite in Ukraine was described (Selnikova et al, 2006). Only one human rabies case had officially been reported by Ukraine in 2002 (Anonymous, 2002). We discuss a new human case in comparison with other bat associated human cases in Eurasia.

Summary

Human rabies case after bat bite was repeatedly reported in Ukraine in September 2002. A 34-year old man was bitten on the finger by an unknown bat species approximately 45 days before death in Lugansk province (Molodogvardeysk town). This site is located not too far (50 km) from the site of first case reported in 1977. Post mortal brain tissue samples were not tested by virological methods. Diagnosis was established on the base of clinical and epidemiological data. Two aspects of this case are discussed: 1) territorial clustering of three same cases within limited area of the former SU; 2) simultaneous reporting of similar cases in Ukraine, Scotland and China.

Key words: human rabies, bats, Ukraine

Case report

A 34-year old man died from hydrophobia in the town of Molodogvardeisk (Lugansk province) in the south-eastern part of Ukraine on September 23rd 2002. He became ill on September 15th 2002. Two days later he visited a local polyclinic with sickness, anorexia, pain in right subcostal region. He had subfebrile temperature (36.9 °C), moderate hypertension but had no any neurological symptoms. His condition was judged as onset of chronic hepato-

pancreatitis, and appropriate treatment was started. Despite the treatment the disease progressed and on September 18th 2002, his headache increased with tremor of hands, cramps and dysphagia.

The patient was admitted to an intensive therapy department of the local hospital on September 20th 2002. He complained of a severe headache in the temporal region, neuropathic body pains, sickness, verteligo and fever. Hyperesthesia, arms tremor, hypersalivation aero- and hydrophobia were discovered after physical examination. His body temperature increased to 38.5°C. A diagnosis of acute viral encephalitis, 'cramp syndrome' had been made by specialist clinicians leading to a suspicion of rabies.

The patient however denied any contact with dogs or any other animals. Two days later, after discussing the patients' condition with his close relatives, it became apparent that he had been bitten by a bat. It has since arisen that approximately one and half months before his illness, the man had brought a bat of unknown species to his flat that had been found by children in a porch of his apartment. The man was bitten on the finger of his left arm when he was showing the animal to his child. He treated the bitten finger using a solution of iodine tincture but did not visit hospital and no post exposure rabies prophylaxis was administered. The bat was released and flew away.

As a result, definitive diagnosis "hydrophobia" had been made on September 22nd 2002 on the basis of clinical and epidemiological data only. On September 23rd 2002, the patient died. The general duration of the disease symptoms was 8-days, incubation – approximately one and half months. No

intra-vitam or post-mortam virological examinations for rabies virus were undertaken and no autopsy samples had been kept.

Discussion

Bat lyssaviruses are widely distributed around the world and were first reported in Europe in 1954. Approximately 700 bat rabies cases have been reported in different European countries (King et al, 2004). In contrast, only sporadic human rabies cases following a bat bite have been described. In 1977, the first confirmed case of hydrophobia associated with a bat bite in Europe was reported in the Ukraine (Scherbak et al, 1984). The first European rabies-related virus was discovered by L. Antonova in Kiev by injecting a human brain sample into suckling mice. The young girl was bitten by bat in Russia in 1985 but died in the Ukraine. The isolate was designated 'Yuli virus' and Moscow scientists reported it as a Duvenhage-like rabies-related virus (Selimov et al, 1989). This was renamed at a later stage as European Bat Lyssavirus type-1 (EBLV-1) (King et al, 1990). The clinical description of this case was also presented (Shugailo et al, 1986). Two human cases caused from EBLV-2 were reported in Finland (Lumio et al, 1986) and Scotland (Fooks et al, 2002). Hence, four human rabies cases of European bat origin have been reported so far: in Eastern Europe (two), in Scandinavia and British Islands.

The fifth new human rabies case in Ukraine was found close to the two previous cases in Eastern Europe. In 1977, a human case after a bat bite was reported in the town of Lugansk, located 50 km from the point of the new case registration in 2002. In 1985, a girl was bitten in Russian territory in town of Belgorod located approximately 350 km to north. As a result all three human rabies cases of bat origin in the former Soviet Union took place within a limited area (within a circle about 400 km diameter). One explanation is that researchers from the Institute of Epidemiology and Infectious Diseases in Kiev have investigated cases of bat rabies for many years. Descriptions of all three cases are associated with this institute suggesting that their experience had

helped to identify this new human case. Physicians are probably more informed about bat rabies in this geographical region. From an ecological point of view, however, there are no special conditions for the persistence of bat lyssaviruses in this particular area.

Besides two cases in Europe, one human bat associated case was observed in China in 2002 (Tang et al, 2005). Co-existence of the bite dates in different points of Eurasia (Ukraine - August 2002, Great Britain - September 2002 and China - July 2002) also attracts attention. New bat Lyssaviruses, Irkut and WCBL were also identified in Russia in 2002. The bat infected by Irkut virus bit a girl in September (Botvinkin et al, 2003). All repeated events can be in co-existence anytime. First of all these unusual findings were associated with increased interest in bat Lyssaviruses after discoveries in Australia and Europe. However the cyclic process is impossible to exclude. The number of reported bat rabies cases in Europe significantly increased in 1986-1987 (King et al, 2004) but not in 2002 (Anonymous, 2002). It is a fact is that the present day knowledge about periodicity of bat rabies in the Old World is still very limited.

And finally, all 6 patients with bat associated rabies in Europe and Asia (1977-2002) had finger or face injuries. At the same time only one from 17 human rabies cases of insectivorous bat origin in United States (1980 -1996) was apparently associated with bat bites. All other cases were recognized with the help of molecular methods of virus identification (Noah et al, 1999).

New human rabies case after bat bite in Ukraine had demonstrated once again a role of occasional factors and individual researches in reporting non-rabies Lyssavirus encephalitis in humans. We are in agreement with other colleagues that the same cases are underreported in medical practice. A program of active surveillance for bat lyssaviruses in this region would be the next obvious step.

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3.2 Rabies Infections in Organ Donor and Transplant Recipients in Germany (2005)

Considering a recent report from the USA of a cluster of human rabies cases associated with transplantation of solid organs from a misdiagnosed rabies patient (Srinivasan et al, 2005; Burton et al 2005), the WHO Expert Consultation on Rabies held in Geneva, 5–8 October 2004 expressed concern about the risk of transmission of rabies virus through organ transplants. This concern was further supported by similar incidents that occurred in Germany in 2005.

Case report

"A 26-year old woman died on December 31, 2004. Since donor eligibility testing did not reveal any contraindications to transplantation, the woman's organs were recovered and transplanted to six recipients. In February 2005, it became known that the lady had experienced a scratch by a dog in India in October 2004 and subsequent re-examination of her brain demonstrated that she was infected with rabies. The six organ recipients were subjected to PEP. Diagnostic follow-up comprised detection of rabies virus by direct immunofluorescence test and RT-PCR, detection of rabies-specific antibodies by neutralisation test, and characterisation of the rabies virus isolates by sequencing and phylogenetic analysis.

Three recipients developed neurological symptoms and died 7 – 14 weeks after lung, kidney, and kidney/pancreas transplantation, respectively. In two of these cases, intra vitam diagnosis of rabies infection was possible by RT-PCR from saliva and skin biopsies. Phylogenetic analysis of the virus strain obtained demonstrated that it was closely related to isolates circulating among rabid dogs in India and Pakistan.

In a serum of the liver recipient taken from him two months before transplantation, rabies-specific antibodies could be detected and a tremendous rise in antibody concentration was recorded thereafter. This is consistent with a previous though not properly

documented vaccination against rabies. Both cornea recipients were without specific health problems 12 months after transplantation. Saliva samples taken from them were consistently negative for rabies virus RNA by RT-PCR. As a result of PEP, both patients developed rabies-specific antibodies in sufficient concentrations."

Though rare events, these cases in the USA and Germany demonstrate a risk for transmitting rabies virus infection through solid organ and tissue transplantation, and this diagnosis should be considered in any unexplained rapidly progressing neurological disease.

The WHO Consultation stated in its report (WHO 2005) that ..."the wide distribution of virus throughout the body may compel us to revise our views about rabies transmission. Rather than discourage organ donation or transplantation, such scenarios should be viewed as important opportunities to review current practices to determine if there are ways to enhance the safety of transplant procedures without having an impact on organ supply, as well as to raise questions about basic rabies pathogenesis. For example, the likely mechanism of infection during transplantation remains unclear. Similarly, the effects of patient immune suppression on disease development are not predictable. Prevention and rapid screening for recognition of transplant-transmitted infections may be improved in various ways, including the development of appropriate animal models to study the process of overall pathobiology."

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4 DISTRIBUTION OF RABIES IN EUROPE

4.1 Country summaries of rabies cases, 3rd quarter 2005

01.07.05 -30.09.05

Country		Domestic animals									Wildlife											bat	Human cases	total				
Name	Code	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer				fallow deer	other	subtotal	
ALBANIA	ALB *									0														0			0	
AUSTRIA	AUT *									0															0			0
BELARUS	BLR	12	11	8	1	0	0	0	0	32	78	5	0	4	1	0	0	0	0	0	0	0	4	92	0	0	124	
BELGIUM	BEL *									0														0			0	
BOSNIA A HERCEGOVINA	BIH	0	1	0	0	0	0	0	0	1	9	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	10	
BULGARIA	BGR *									0														0			0	
CROATIA	HRV	4	1	1	0	1	0	0	0	7	115	0	0	0	0	0	1	0	0	0	0	0	0	116	0	0	123	
CYPRUS	CYP *									0														0			0	
CZECH REPUBLIC	CZH *									0														0			0	
DENMARK	DNK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
ESTONIA	EST	0	2	11	1	0	0	0	0	14	25	29	0	0	1	0	0	1	0	0	0	0	0	56	0	0	70	
FINLAND	FIN *									0														0			0	
FRANCE	FRA *									0														0			0	
GERMANY	DEU ***	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5	12	4	21	
GREECE	GRC *									0														0			0	
HUNGARY	HUN	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	
ICELAND	ISL *									0														0			0	
IRELAND	IRE *									0														0			0	
ITALY	ITA *									0														0			0	
LATVIA	LVA	4	5	2	1	0	0	0	0	12	42	17	0	0	5	3	2	0	0	1	0	0	3	73	0	0	85	
LITHUANIA	LTU	26	23	62	1	0	1	0	0	113	140	135	0	0	7	45	15	0	0	3	0	0	0	345	0	0	458	
LUXEMBOURG	LUX *									0														0			0	
MACEDONIA	MKD **																											
MOLDOVA	MDA **																											
NETHERLANDS	NED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
NORWAY	NOR *									0														0			0	
POLAND	POL	2	1	5	0	0	0	0	0	8	20	1	0	0	1	1	0	0	0	0	0	0	0	23	0	0	31	
PORTUGAL	PRT *									0														0			0	
ROMANIA	ROU	2	5	4	1	0	0	0	0	12	27	0	0	0	0	0	0	0	0	0	0	0	1	28	0	0	40	
RUSSIAN FEDERATION	RUS	143	146	172	5	15	3	8	0	492	250	19	0	3	5	2	6	1	0	0	0	0	3	289	0	0	781	
SERBIA A MONTENEGRO	SCG	0	1	0	0	0	0	0	0	1	7	0	0	0	0	0	0	1	0	0	0	0	0	8	0	0	9	
SLOVAK REPUBLIC	SVK	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	
SLOVENIA	SVN *									0														0			0	
SPAIN	ESP *									0														0			0	
SWEDEN	SWE *									0														0			0	
SWITZERLAND + LIEC.	CHE *									0														0			0	
TURKEY	TUR	22	0	22	1	4	0	0	0	49	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	50	
UNITED KINGDOM	UNK **	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
UKRAINE	UKR	62	117	100	1	10	0	0	0	290	171	7	0	7	1	13	2	1	0	0	0	0	1	203	2	0	495	
TOTAL		277	313	387	12	30	4	8	0	1031	900	213	0	14	21	64	26	4	0	4	0	0	12	1258	16	5	2310	
PER CENT		12,0%	13,5%	16,8%	0,5%	1,3%	0,2%	0,3%	0,0%	44,6%	39,0%	9,2%	0,0%	0,6%	0,9%	2,8%	1,1%	0,2%	0,0%	0,2%	0,0%	0,0%	0,5%	54,5%	0,7%	0,2%	100%	

* NO CASES

** NO DATA

**** Human rabies cases due to organ transplantation (belated reporting by German Health Authorities). The organ donor died at the end of 2004.

*** 1 IMPORTED CASE FROM INDIA

Two transplant recipients died in the 1st quarter of 2005 and a third one in the 2nd quarter.

4.2 Rabies cases per country and administrative units, 3rd quarter 2005

01.07.05 -30.09.05

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	
BOSNIA AND HERZEGOVINA																											
Bijeljina	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Doboj	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Konjic	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mrkonjic Grad	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Prijedor	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sokolac	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tuzla	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Zenica	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	0	1	0	0	0	0	0	0	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PER CENT	0,0%	10,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	10,0%	90,0%	0,0%	0,0%	0,0%	0,0%	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%
CROATIA																											
Bjelovarsko-bilogorska	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Brodsko-posavska	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grad Zagreb	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Istarska	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Karlovacka	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Koprivničko-križevačka	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Krapinsko-zagorska	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Licko-senjska	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Osječko-baranjska	0	0	0	0	1	0	0	0	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Požeško-slavonska	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Primorsko-Goranska	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Šibensko-Kninska	0	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sisacko-moslavačka	1	0	0	0	0	0	0	0	1	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Splitsko-dalmatinska	1	0	0	0	0	0	0	0	1	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Varaždinska	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Virovitčko-Podravska	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Vukovarsko-srijemska	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Zagrebacka	1	0	0	0	0	0	0	0	1	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	4	1	1	0	1	0	0	0	7	115	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
PER CENT	3,3%	0,8%	0,8%	0,0%	0,8%	0,0%	0,0%	0,0%	5,7%	93,5%	0,0%	0,0%	0,0%	0,0%	0,0%	0,8%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 3rd quarter 2005

01.07.05 -30.09.05

Location 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 mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer				other	subtotal	
ESTONIA																											
Harjumaa	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3
Hiiumaa	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Ida-Virumaa	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Järvamaa	0	0	4	0	0	0	0	0	4	2	2	0	0	1	0	0	1	0	0	0	0	0	6	0	0	10	
Jõgevamaa	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	
Läänemaa	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
Lääne-Virumaa	0	0	3	0	0	0	0	0	3	6	3	0	0	0	0	0	0	0	0	0	0	0	9	0	0	12	
Pänumaa	0	1	1	1	0	0	0	0	3	5	3	0	0	0	0	0	0	0	0	0	0	0	8	0	0	11	
Põlvamaa	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	2		
Raplamaa	0	0	1	0	0	0	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	4	0	0	5	
Tartumaa	0	0	0	0	0	0	0	0	0	4	5	0	0	0	0	0	0	0	0	0	0	0	9	0	0	9	
Valgamaa	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
Võrumaa	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	6	0	0	6		
Viljandimaa	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	2		
TOTAL	0	2	11	1	0	0	0	0	14	25	29	0	0	1	0	0	1	0	0	0	0	56	0	0	70		
PER CENT	0,0%	2,9%	15,7%	1,4%	0,0%	0,0%	0,0%	0,0%	20,0%	35,7%	41,4%	0,0%	0,0%	1,4%	0,0%	0,0%	1,4%	0,0%	0,0%	0,0%	0,0%	80,0%	0,0%	0,0%	100%		
HUNGARY																											
Baranya	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Hajdú-Bihar	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
TOTAL	0	0	0	0	0	0	0	0	0	2	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%	100%	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%	100%		
LITHUANIA																											
Alytus	5	1	2	0	0	0	0	0	8	16	13	0	0	1	2	0	0	0	0	0	0	0	32	0	0	40	
Kaunas	3	4	5	0	0	0	0	0	12	4	8	0	0	0	3	3	0	0	0	0	0	0	18	0	0	30	
Klaipeda	6	5	4	0	0	0	0	0	15	23	18	0	0	2	8	3	0	0	1	0	0	0	55	0	0	70	
Marijampole	2	1	10	0	0	0	0	0	13	6	6	0	0	0	2	0	0	0	0	0	0	0	14	0	0	27	
Panvežys	3	1	3	0	0	0	0	0	7	17	18	0	0	0	14	1	0	0	0	0	0	0	50	0	0	57	
Šiauliai	2	3	12	0	0	0	0	0	17	13	14	0	0	0	2	2	0	0	0	0	0	0	31	0	0	48	
Taurage	0	2	3	0	0	0	0	0	5	2	2	0	0	0	4	0	0	0	0	0	0	0	8	0	0	13	
Telšiai	0	0	5	0	0	0	0	0	5	1	0	0	0	1	0	0	0	0	1	0	0	0	3	0	0	8	
Utena	0	1	10	1	0	0	0	0	12	8	18	0	0	0	5	1	0	0	1	0	0	0	33	0	0	45	
Vilnius	5	5	8	0	0	1	0	0	19	50	38	0	0	3	5	5	0	0	0	0	0	0	101	0	0	120	
TOTAL	26	23	62	1	0	1	0	0	113	140	135	0	0	7	45	15	0	0	3	0	0	345	0	0	458		
PER CENT	5,7%	5,0%	13,5%	0,2%	0,0%	0,2%	0,0%	0,0%	24,7%	30,6%	29,5%	0,0%	0,0%	1,5%	9,8%	3,3%	0,0%	0,0%	0,7%	0,0%	0,0%	75,3%	0,0%	0,0%	100%		

4.2 Rabies cases per country and administrative units, 3rd quarter 2005

01.07.05 -30.09.05

Location 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 mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer				other	subtotal		
LATVIA																												
Aizkraukle	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	1	4	0	0	4	
Bauska	0	2	0	0	0	0	0	0	0	2	4	0	0	0	0	2	2	0	0	0	0	0	0	8	0	0	10	
Cēsis	0	0	0	0	0	0	0	0	0	0	3	1	0	0	1	0	0	0	0	0	0	0	0	5	0	0	5	
Daugavpils	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	
Dobele	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	
Jelgava	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Krāslava	0	0	1	1	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	
Kuldīga	1	0	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	
Liepāja	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
Limbaži	0	0	0	0	0	0	0	0	0	0	5	1	0	0	2	0	0	0	0	0	0	0	0	8	0	0	8	
Ludza	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Madona	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	
Ogre	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	4	0	0	4	
Preiļi	1	0	1	0	0	0	0	0	0	2	7	2	0	0	0	1	0	0	0	0	0	0	0	10	0	0	12	
Rēzekne	1	1	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	4	
Rīga	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	
Saldus	1	1	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	4	
Tukums	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Valka	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	3	0	0	3		
Valmiera	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	4	0	0	4		
Ventspils	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	5	0	0	5		
TOTAL	4	5	2	1	0	0	0	0	0	12	42	17	0	0	5	3	2	0	0	1	0	0	3	73	0	0	85	
PER CENT	4,7%	5,9%	2,4%	1,2%	0,0%	0,0%	0,0%	0,0%	0,0%	14,1%	49,4%	20,0%	0,0%	0,0%	5,9%	3,5%	2,4%	0,0%	0,0%	1,2%	0,0%	0,0%	3,5%	85,9%	0,0%	0,0%	100%	
UNITED KINGDOM																												
Imported from Goa, India	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
PER CENT	0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0%	0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0%	0,0%	0,0%	100%	100%
SLOVAKIA																												
Bratislavský kraj	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	
Nitriansky kraj	0	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	
Trnavský kraj	0	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	
TOTAL	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0%	100%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100%	0,0%	0,0%	100%	

4.2 Rabies cases per country and administrative units, 3rd quarter 2005

01.07.05 -30.09.05

Location 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 mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer				other	subtotal	
SERBIA A MONTENEGRO																											
Montenegro	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Central Serbia	0	1	0	0	0	0	0	0	0	1	6	0	0	0	0	0	0	1	0	0	0	0	0	7	0	0	8
TOTAL	0	1	0	0	0	0	0	0	0	1	7	0	0	0	0	0	0	1	0	0	0	0	0	8	0	0	9
PER CENT	0,0%	11,1%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	11,1%	77,8%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	11,1%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	88,9%	0,0%	0,0%	100%
TURKEY																											
Aydin	0	0	4	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Bitlis	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	0	1
Denizli	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Gaziantep	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hatay	3	0	0	0	2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Izmir	9	0	10	1	2	0	0	0	22	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	23
Kilis	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	0	1
Kocaeli	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Sakarya	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
S. Urfa	5	0	4	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
TOTAL	22	0	22	1	4	0	0	0	49	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	50
PER CENT	44,0%	0,0%	44,0%	2,0%	8,0%	0,0%	0,0%	0,0%	98,0%	2,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,0%	0,0%	0,0%	100%
POLAND																											
Lubelskie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1
Opolskie	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	3	0	0	3
Podkarpackie	1	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	4	
Warminsko-Mazurskie	0	1	5	0	0	0	0	0	6	12	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	18	
Wielkopolskie	1	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	5	
TOTAL	2	1	5	0	0	0	0	0	8	20	1	0	0	1	1	0	0	0	0	0	0	0	23	0	0	31	
PER CENT	6,5%	3,2%	16,1%	0,0%	0,0%	0,0%	0,0%	0,0%	25,8%	64,5%	3,2%	0,0%	0,0%	3,2%	3,2%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	74,2%	0,0%	0,0%	100%	
NETHERLAND																											
Drenthe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
PER CENT	0%	0%	0%	0%	0%	0%	0%	0%	0%	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1	0,0%	100%	
DENMARK																											
Københavns amt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
PER CENT	0,0%	0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0%	0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0%	100%	0,0%	100%	

4.2 Rabies cases per country and administrative units, 3rd quarter 2005

01.07.05 -30.09.05

Location 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 mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer	other				subtotal			
ROMANIA																													
Bihor	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Bistrita Nasaud	0	0	1	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Brasov	0	1	2	1	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Buzau	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Calarasi	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Covasna	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Dambovita	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Harghita	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0		
Ialomita	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Mehedinti	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Mures	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Prahova	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Salaj	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Suceava	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Teleorman	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	0	0		
Tulcea	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	0	0		
Vrancea	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TOTAL	2	5	4	1	0	0	0	0	12	27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	28	0	0	40	
PER CENT	5,0%	12,5%	10,0%	2,5%	0,0%	0,0%	0,0%	0,0%	30,0%	67,5%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,5%	70,0%	0,0%	0,0%	100%		
FEDERAL REPUBLIC OF GERMANY																													
Brandenburg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Berlin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	
Hesse	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Lower Saxony	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	
Rhineland-Palatinate	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	
Saxony Anhalt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Schleswig-Holstein	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
TOTAL	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	12	4*	21		
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	23,9%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	23,9%	57,1%	19,0%	100%		

* see p. 4

4.2 Rabies cases per country and administrative units, 3rd quarter 2005

01.07.05 -30.09.05

Location 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 mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer				other	subtotal
UKRAINE																										
Cherkasskaja o.	0	6	6	0	0	0	0	0	12	5	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	17
Chernigovskaja o.	1	6	2	0	1	0	0	0	10	24	2	0	0	0	0	0	0	0	0	0	0	0	26	0	0	36
Chernovitskaja o.	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Dnepropetrovskaja o.	1	3	10	0	3	0	0	0	17	10	0	0	1	0	0	0	0	0	0	0	0	0	11	1	0	29
Donetskaja o.	5	5	6	0	1	0	0	0	17	15	1	0	0	0	1	0	0	0	0	0	0	0	17	0	0	34
Ivano-Frankovskaja	0	2	2	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Kharkovskaja o.	7	18	5	0	0	0	0	0	30	10	1	0	0	0	1	0	0	0	0	0	0	0	12	1	0	43
Kiyevskaja o.	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Khersonskaja o.	5	3	9	0	1	0	0	0	18	20	1	0	0	0	1	0	0	0	0	0	0	0	22	0	0	40
Khmelnitskaja o.	2	1	1	0	0	0	0	0	4	5	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	9
Kirovogradskaja o.	0	7	8	0	0	0	0	0	15	6	0	0	0	0	0	0	0	0	0	0	0	1	7	0	0	22
Luganskaja o.	5	9	5	0	0	0	0	0	19	10	0	0	1	0	0	0	0	0	0	0	0	0	11	0	0	30
Nikolayevskaja o.	0	4	0	0	0	0	0	0	4	4	2	0	0	0	1	0	0	0	0	0	0	0	7	0	0	11
Odesskaja o.	2	9	0	0	1	0	0	0	12	8	0	0	2	0	1	0	0	0	0	0	0	0	11	0	0	23
Poltavskaja o.	8	6	22	0	2	0	0	0	38	7	0	0	0	0	1	0	0	0	0	0	0	0	8	0	0	46
Rovenskaja o.	2	1	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	7
Sumskaja o.	6	27	8	1	1	0	0	0	43	23	0	0	0	0	3	0	0	0	0	0	0	0	26	0	0	69
Ternopolskaja o.	5	3	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Volynskaja o.	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2
Vinnitskaja o.	0	2	0	0	0	0	0	0	2	5	0	0	0	1	0	0	0	0	0	0	0	0	6	0	0	8
Zaporozhskaja o.	10	4	13	0	0	0	0	0	27	10	0	0	3	0	2	2	1	0	0	0	0	0	18	0	0	45
Zhitomirskaja o.	2	0	0	0	0	0	0	0	2	5	0	0	0	0	1	0	0	0	0	0	0	0	6	0	0	8
TOTAL	62	117	100	1	10	0	0	0	290	171	7	0	7	1	13	2	1	0	0	0	0	1	203	2	0	495
PER CENT	12,5%	23,6%	20,2%	0,2%	2,0%	0,0%	0,0%	0,0%	58,6%	34,5%	1,4%	0,0%	1,4%	0,2%	2,6%	0,4%	0,2%	0,0%	0,0%	0,0%	0,0%	0,2%	41,0%	0,4%	0,0%	100%
BELARUS																										
Brest	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5
Vitebsk	4	3	2	0	0	0	0	0	9	4	2	0	0	1	0	0	0	0	0	0	0	0	7	0	0	16
Gomel	4	1	3	0	0	0	0	0	8	8	1	0	4	0	0	0	0	0	0	0	0	0	13	0	0	21
Grodn	2	1	1	0	0	0	0	0	4	19	2	0	0	0	0	0	0	0	0	0	0	2	23	0	0	27
Minsk	2	4	1	1	0	0	0	0	8	21	0	0	0	0	0	0	0	0	0	0	0	2	23	0	0	31
Mogelov	0	2	1	0	0	0	0	0	3	21	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	24
TOTAL	12	11	8	1	0	0	0	0	32	78	5	0	4	1	0	0	0	0	0	0	0	4	92	0	0	124
PER CENT	9,7%	8,9%	6,5%	0,8%	0,0%	0,0%	0,0%	0,0%	25,8%	62,9%	4,0%	0,0%	3,2%	0,8%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	3,2%	74,2%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 3rd quarter 2005

01.07.05 -30.09.05

Location 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 mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer	other				subtotal
RUSSIA																										
Astrahanskaja obl.	1	1	4	0	0	0	1	0	7	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	9
Adygeja resp.	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
Belgorodskaja obl.	15	14	10	0	2	2	0	0	43	13	0	0	0	0	1	0	0	0	0	0	0	0	14	0	0	57
Brjanskaja obl.	2	4	1	0	0	0	0	0	7	10	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	17
Cecenskaja resp.	1	0	2	0	0	0	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Chuvashskaja resp.	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
Dagestan resp.	2	0	1	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4
Ivanovskaja obl.	3	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	7
Jaroslavskaja obl.	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
Kabardino-Balk. resp	5	0	2	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Kaliningradskaja obl.	13	2	4	0	0	0	0	0	19	11	2	0	0	0	0	0	0	0	0	0	0	0	13	0	0	32
Kalmykija resp.	1	1	1	0	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	4
Kaluzskaja obl.	1	1	2	0	3	0	0	0	7	19	1	0	0	1	0	0	0	0	0	0	0	0	21	0	0	28
Karacaevo-Cerkess. resp.	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
Krasnodarskij kr.	10	7	1	0	0	0	0	0	18	2	0	0	0	1	0	0	0	0	0	0	0	0	3	0	0	21
Kurskaja obl.	5	18	18	1	1	0	1	0	44	22	0	0	0	0	0	3	0	0	0	0	0	0	25	0	0	69
Lipeckaja obl.	0	4	10	0	1	0	0	0	15	9	0	0	0	0	0	1	0	0	0	0	0	0	10	0	0	25
Mordovija resp.	2	2	22	0	0	0	0	0	26	8	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	34
Moskovskaja obl.	8	5	0	0	0	0	1	0	14	16	9	0	0	0	0	0	0	0	0	0	0	1	26	0	0	40
Nizegorodskaja obl.	3	4	0	1	1	0	0	0	9	7	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	16
Orlovskaja obl.	3	14	22	0	1	0	0	0	40	5	0	0	0	1	0	1	0	0	0	0	0	1	8	0	0	48
Penzenskaja obl.	4	2	2	0	1	0	0	0	9	12	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	21
Pskovskaja obl.	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Rjazanskaja obl.	4	3	5	0	3	0	1	0	16	12	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	28
Rostovskaja obl.	2	7	18	0	0	0	0	0	27	4	0	0	2	0	0	0	0	0	0	0	0	0	6	0	0	33
Saratovskaja obl.	10	18	6	1	0	0	2	0	37	15	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	52
Sever. Oset-Ala. resp.	5	2	7	0	0	1	0	0	15	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	16
Smolenskaja obl.	4	0	0	0	0	0	0	0	4	9	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	13
Stavropol'skij kr.	0	4	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	5
Tambovskaja obl.	4	1	12	0	0	0	0	0	17	13	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	30
Tul'skaja obl.	4	8	1	0	0	0	0	0	13	17	0	0	0	1	0	0	0	0	0	0	0	0	18	0	0	31
Tverskaja obl.	2	0	0	0	0	0	0	0	2	13	7	0	0	0	0	0	0	0	0	0	0	0	20	0	0	22
Uljanovskaja obl.	4	1	2	0	0	0	0	0	7	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	10
Volgogradskaja obl.	1	2	4	0	0	0	0	0	7	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	10
Vladimirskaja obl.	7	8	0	0	0	0	0	0	15	4	0	0	0	1	1	1	0	0	0	0	0	0	7	0	0	22
Voronezskaja obl.	14	12	15	2	2	0	0	0	45	13	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	58
TOTAL	143	146	172	5	15	3	8	0	492	250	19	0	3	5	2	6	1	0	0	0	0	3	289	0	0	781
PER CENT	18,3%	18,7%	22,0%	0,6%	1,9%	0,4%	1,0%	0,0%	63,0%	32,0%	2,4%	0,0%	0,4%	0,6%	0,3%	0,8%	0,1%	0,0%	0,0%	0,0%	0,0%	0,4%	37,0%	0,0%	0,0%	100%

4.3 Trend tables

4.3.1 Comparison of the reporting quarter (III/2005) with the previous quarter (II/2005)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	III 2005 (no.)	II 2005 (no.)	Difference	III 2005 (no.)	II 2005 (no.)	Difference	III 2005 (no.)	II 2005 (no.)	Difference	III 2005 (no.)	II 2005 (no.)	Difference	III 2005 (no.)	II 2005 (no.)	Difference
ALBANIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUSTRIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BELARUS	124	115	9	92	86	6	32	29	3	0	0	0	0	0	0
BELGIUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BOSNIA - HERCEGOVINA	10	4	6	9	2	7	1	2	-1	0	0	0	0	0	0
BULGARIA	0	6	-6	0	4	-4	0	2	-2	0	0	0	0	0	0
CROATIA	123	60	63	116	57	59	7	3	4	0	0	0	0	0	0
CYPRUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CZECH REPUBLIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DENMARK	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0
ESTONIA	70	43	27	56	39	17	14	4	10	0	0	0	0	0	0
FINLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FRANCE	0	3	-3	0	0	0	0	0	0	0	3	-3	0	0	0
GERMANY **	21	11	10	5	9	-4	0	0	0	12	2	10	4	0	4
GREECE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNGARY	2	2	0	2	0	2	0	2	-2	0	0	0	0	0	0
ICELAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRELAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ITALY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATVIA	85	82	3	73	66	7	12	16	-4	0	0	0	0	0	0
LITHUANIA	458	317	141	345	262	83	113	55	58	0	0	0	0	0	0
LUXEMBOURG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MACEDONIA	*	*		*	*		*	*		*	*		*	*	
MOLDOVA	*	*		*	*		*	*		*	*		*	*	
NETHERLANDS	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0
NORWAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POLAND	31	33	-2	23	25	-2	8	6	2	0	2	-2	0	0	0
PORTUGAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROMANIA	40	123	-83	28	74	-46	12	49	-37	0	0	0	0	0	0
RUSSIAN FEDERATION	781	942	-161	289	430	-141	492	508	-16	0	0	0	0	4	-4
SERBIA AND MONTENEGRO	9	18	-9	8	16	-8	1	2	-1	0	0	0	0	0	0
SLOVAK REPUBLIC	8	12	-4	8	9	-1	0	3	-3	0	0	0	0	0	0
SLOVENIA	0	1	-1	0	1	-1	0	0	0	0	0	0	0	0	0
SPAIN	0	1	-1	0	0	0	0	1	-1	0	0	0	0	0	0
SWEDEN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWITZERLAND/LIECHTEN.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TURKEY	50	42	8	1	1	0	49	41	8	0	0	0	0	0	0
UKRAINE	495	344	151	203	141	62	290	203	87	2	0	2	0	0	0
UNITED KINGDOM ***	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
TOTAL	2310	2159	151	1258	1222	36	1031	926	105	16	7	9	5	4	1

Wildlife: excluding bats

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

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

* no data

** Human rabies cases due to organ transplantation (belated reporting by German Health Authorities). The organ donor died at the end of 2004.
Two transplant recipients died in the 1st quarter of 2005 and a third one in the 2nd quarter.

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4.3.2 Comparison of the reporting quarter (III/2005) with the same quarter of the previous year (III/2004)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	III 2005 (no.)	III 2004 (no.)	Difference	III 2005 (no.)	III 2004 (no.)	Difference	III 2005 (no.)	III 2004 (no.)	Difference	III 2005 (no.)	III 2004 (no.)	Difference	III 2005 (no.)	III 2004 (no.)	Difference
ALBANIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUSTRIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BELARUS	124	35	89	92	23	69	32	12	20	0	0	0	0	0	0
BELGIUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BOSNIA - HERCEGOVINA	10	10	0	9	7	2	1	3	-2	0	0	0	0	0	0
BULGARIA	0	3	-3	0	1	-1	0	2	-2	0	0	0	0	0	0
CROATIA	123	89	34	116	86	30	7	3	4	0	0	0	0	0	0
CYPRUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CZECH REPUBLIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DENMARK	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0
ESTONIA	70	57	13	56	47	9	14	10	4	0	0	0	0	0	0
FINLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FRANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GERMANY **	21	15	6	5	8	-3	0	0	0	12	7	5	4	0	4
GREECE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNGARY	2	19	-17	2	19	-17	0	0	0	0	0	0	0	0	0
ICELAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRELAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ITALY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATVIA	85	108	-23	73	83	-10	12	25	-13	0	0	0	0	0	0
LITHUANIA	458	123	335	345	83	262	113	40	73	0	0	0	0	0	0
LUXEMBOURG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MACEDONIA	*	*		*	*		*	*		*	*		*	*	
MOLDOVA	*	7		*	2		*	5		*	0		*	0	
NETHERLANDS	1	9	-8	0	0	0	0	0	0	1	9	-8	0	0	0
NORWAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POLAND	31	23	8	23	18	5	8	0	8	0	5	-5	0	0	0
PORTUGAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROMANIA	40	27	13	28	11	17	12	16	-4	0	0	0	0	0	0
RUSSIAN FEDERATION	781	277	504	289	121	168	492	155	337	0	1	-1	0	0	0
SERBIA AND MONTENEGRO	9	27	-18	8	24	-16	1	3	-2	0	0	0	0	0	0
SLOVAK REPUBLIC	8	10	-2	8	9	-1	0	1	-1	0	0	0	0	0	0
SLOVENIA	0	1	-1	0	1	-1	0	0	0	0	0	0	0	0	0
SPAIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWEDEN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SWITZERLAND/LIECHTEN.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TURKEY	50	39	11	1	1	0	49	38	11	0	0	0	0	0	0
UKRAINE	490	151	339	203	70	133	290	80	210	2	1	1	0	0	0
UNITED KINGDOM ***	0	1	-1	0	0	0	0	0	0	0	1	-1	1	0	1
TOTAL	2310	1031	1279	1258	614	644	1031	393	638	16	24	-8	5	0	5

Wildlife: excluding bats

III /2005 (no.), III /2004 (no.): number of cases

Difference: no. of cases in III /2005 minus cases in III /2004

* no data

** Human rabies cases due to organ transplantation (belated reporting by German Health Authorities). The organ donor died at the end of 2004. Two transplant recipients died in the 1st quarter of 2005 and a third one in the 2nd quarter.

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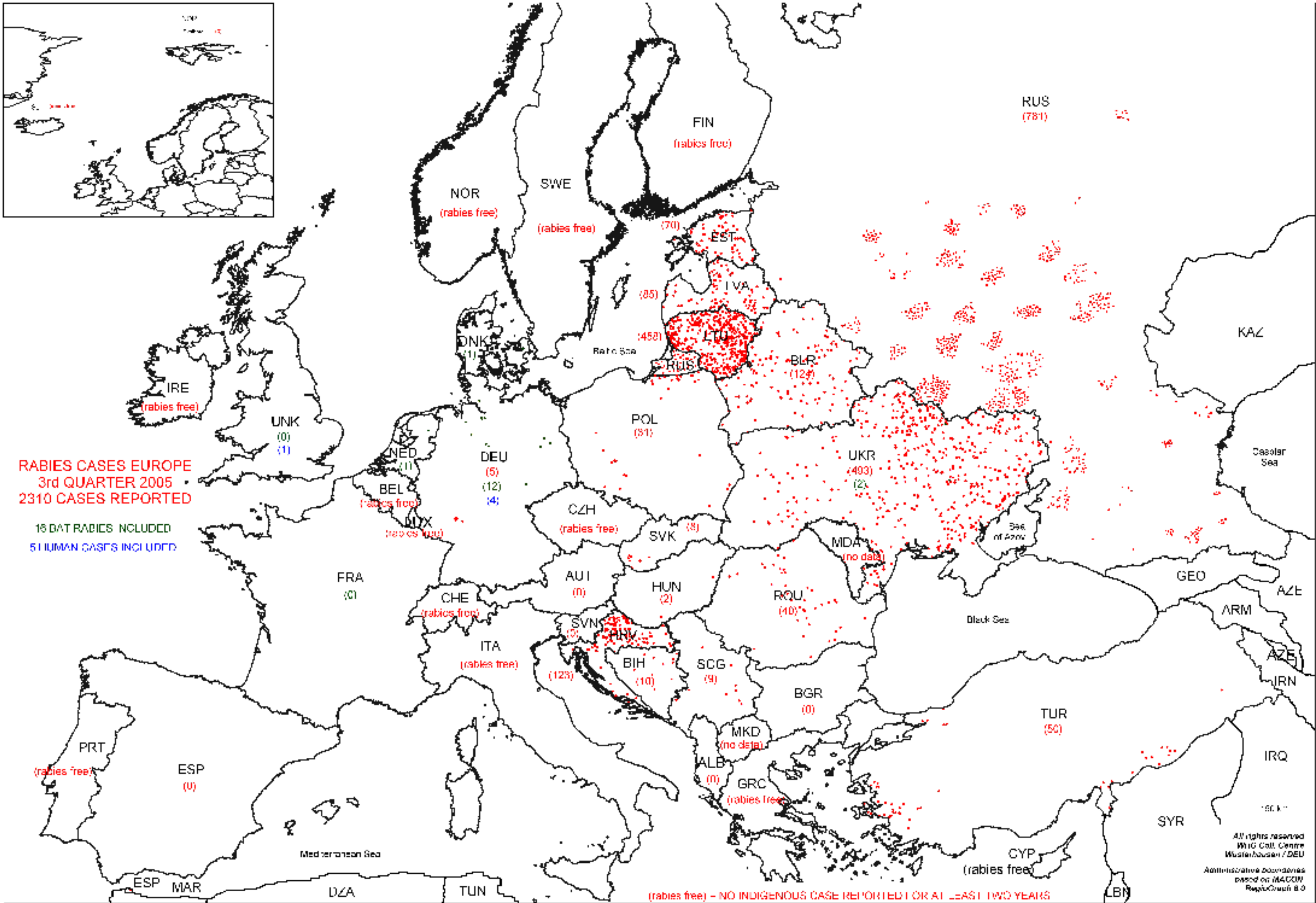
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