

RABIES BULLETIN EUROPE

Volume 37 No 2 Quarter 2 2013

Published in December 2013

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Studentenberg 1a
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ISSN 0257-8506

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

Acknowledgements

The Rabies Bulletin Europe is supported 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 and by the Bundesministerium für Ernährung, Landwirtschaft und Verbraucherschutz, Germany

1 Editorial

The miscellaneous article covers the recent rabies case of an imported dog from Morocco that caused contingency actions in Spain in 2013. The animal in question was Spanish, but had accompanied its owner on a four month visit to Morocco, and subsequently spent time in several different parts of Spain, including Barcelona. Mainland Spain, the Balearic and Canary islands have a free status of terrestrial rabies since 1978. However, Spain is the gateway to Europe from Africa, with regular ferry crossings to Morocco and the Spanish autonomous cities of Ceuta and Melilla on the North African Mainland and it seems a recurring pathway for the introduction of rabies into mainland Europe by people visiting Morocco and returning through the Iberian Peninsula.

Also, the rabies data for the 2nd quarter of 2013 is presented in tables and a map. Unfortunately, data submission remained incomplete thus delaying the completion of this issue.

Conrad Freuling
Thomas Müller

2 Summary of Rabies Cases in Europe

RABIES CASES

2nd QUARTER 2013

01.04.13 - 30.06.13

Name	Code	Total	Wildlife	Domestic animals	Bats	Human
ALBANIA *	ALB	0	0	0	0	0
AUSTRIA	AUT	0	0	0	0	0
BELARUS *	BLR	0	0	0	0	0
BELGIUM	BEL	0	0	0	0	0
BOSNIA - HERCEGOVINA	BIH	0	0	0	0	0
BULGARIA	BGR	0	0	0	0	0
CROATIA	HRV	5	5	0	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
GEORGIA	GEO	23	0	23	0	0
GERMANY	DEU	4	0	0	4	0
GREECE	GRC	6	5	1	0	0
HUNGARY	HUN	0	0	0	0	0
ICELAND	ISL	0	0	0	0	0
IRELAND	IRE	0	0	0	0	0
ITALY	ITA	0	0	0	0	0
LATVIA	LVA	0	0	0	0	0
LITHUANIA	LTU	0	0	0	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	0	0	0	0	0
MONTENEGRO *	MNE	0	0	0	0	0
NETHERLANDS	NED	0	0	0	0	0
NORWAY	NOR	0	0	0	0	0
POLAND	POL	38	26	10	2	0
PORTUGAL	PRT	0	0	0	0	0
ROMANIA	ROU	110	59	51	0	0
RUSSIAN FEDERATION	RUS	534	243	288	0	3
SERBIA	SRB	0	0	0	0	0
SLOVAK REPUBLIC	SVK	4	2	2	0	0
SLOVENIA	SVN	0	0	0	0	0
SPAIN	ESP	3	0	3	0	0
SWEDEN	SWE	0	0	0	0	0
SWITZERLAND + LIEC.	CHE	0	0	0	0	0
TURKEY	TUR	157	10	147	0	0
UKRAINE	UKR	259	78	180	1	0
UNITED KINGDOM	UNK	0	0	0	0	0
TOTAL		1143	428	705	7	3

Wildlife: excluding bats

* no data

3 Miscellaneous Articles

3.1 A case of rabies in a dog imported to Spain from Morocco in June 2013. Temporary loss of rabies free Certificate

Suárez-Rodríguez B¹, Santos S¹, Saravia G¹, Sánchez-Gómez A¹, Sierra MJ¹, Amela C¹, Gutierrez-Avila G², Jané M³, Canales AJ⁴, Ripalda J⁴, Lopaz MA⁵, Sáez JL⁶, García-Villacieros E⁷, Echevarría JE⁸, Vázquez S⁸, Rodríguez-Valín E⁹, Simón F¹.

Introduction

On June the 5th 2013, the Service of Epidemiology of Castilla La Mancha (ES-CLM) notified to the national Coordinating Center for Health Alerts and Emergencies (CCAES) a confirmed case of rabies in a dog killed by the police in the city of Toledo on June the 1st, after it had bitten four children and one adult. One child required hospitalization and was admitted to the Intensive Care Unit.

The National Reference Laboratory for Lyssavirus carried out the diagnosis by immunofluorescence, PCR and cell culture and characterized the strain of the virus by genomic sequencing and comparison it with circulating strains in endemic countries.

Post-exposure prophylaxis with vaccine and immunoglobulin was offered to the four children and the adult affected immediately after receiving the laboratory results(1).

According to the preliminary investigations, the dog travelled with its owners from Catalonia to Argés, a small village 10 km far from Toledo, on 22nd May. The owners referred that the dog run away few days before it was seen again and killed in Toledo. At this moment there was unclear information about a possible stay of the dog in Morocco a few months before this event.

Mainland Spain, Balearic and Canary islands have a free status of terrestrial rabies since 1978. Upon

receiving the notification and according to the Contingency Plan for the control of rabies in Spain(2) a technical commission including representatives of the General Directorate of Public Health, Quality and Innovation of the Ministry of Health, Social Services and Equality (DGSPCI), the General Directorate of Sanitation of Agricultural and Livestock Production of the Ministry of Agriculture, Food and Environment (DGSPA), the affected Autonomous Communities, the National Reference Laboratory for Rabies and the National Centre for Epidemiology (NCE) was convened with the objectives of coordinating the investigation of the event, assessing the risk for public and animal health, proposing the activation of corresponding alert levels and coordinating the application of appropriate control measures.

Investigation of the event

Specific objectives for the coordinated investigation were: to identify the source of infection of the rabid dog and to have a detailed description of the whereabouts of the dog during the infectious period including the identification of human and animal contacts in order to apply appropriate control measures. The potential period of infection of the dog was established in the 6 months before the event and the communicability period was established in the three weeks

before the onset of symptoms(3) for the purpose of locating contacts. Dog's documents were gathered and in-depth interviews with the owners of the dog about its vaccination status and movements during the infection and the period of communicability were carried out. Information given by the owners was cross-check with identified contacts of the dog, veterinary services and when possible with the security forces. Identified contacts in the different autonomous communities where the rabid dog stayed during the infectious period were also interviewed.

Main results of the investigation

On 12th December 2012 the owners of the dog, a Spanish couple, travelled to Morocco accompanied by three dogs. The rabid dog had been vaccinated against rabies on December the 1st 2012 while the remaining two dogs were vaccinated on November 29th. They stayed in Morocco until April 12th 2013. During their stay in Morocco the dogs were in close contact with live and dead animals. The dog did not made any other international travel during the infection period.

The owners of the dog live in a van and do not have a fix residence in Spain. However, they use to park their van in the municipality of Montcada-Reixac, in Catalonia. During the communicability period and before arriving to Argés, nearby Toledo in the autonomous community of Castilla La Mancha, the dog visited 4 municipalities and a district of the city of Barcelona in Catalonia as well as another municipality in the north of the Autonomous Community of Aragon. On May 22nd 2013, one of the owners travelled with the infected dog from Montcada I Reixac in Catalonia to Argés, Toledo. The dog

showed some behavioural changes starting on May 27th and on May 31st it run away and its whereabouts remain unknown until it was shot down by the police in Toledo the following day after biting four kids and an adult.

During the communicability period, a total of 56 close human contacts of the dog (index case) were identified. Among all of them, 21 were considered type I contacts and 35 type III (4). After evaluation of the type and characteristics of the contact, all of them were offered post-exposure prophylaxis and 54 received vaccine+immunoglobuline and only 2 received antirabies vaccine. Thirty-three animal contacts were detected; seventeen of them had direct contact with the rabies dog; four of them were directly sacrificed; and all of contacts were put under strict observation and a serological study was done for measuring the level of antibodies according to National Contingency Plan.

The brain of the dog was extracted at the Forensic Anatomical Institute of Toledo (FAI- TO) and sent to the National Reference Laboratory for Rabies at the National Centre for Microbiology (NCM). A positive detection of lyssavirus antigens by immunofluorescence, later confirmed by RT-PCR, was available on June the 5th and immediately notified to local and national public health authorities. On June the 6th, the NCM reported sequencing data showing the strain was rabies virus, from North Africa, similar to commonly circulating variants in Morocco. On June the 11th, the virus was isolated in cell cultures.

Rapid risk assessment

As stated previously, mainland Spain, Balearic and Canary islands have a free status of terrestrial

rabies since 1978. Only the autonomous cities of Ceuta and Melilla, placed in North Africa, bordering with Morocco, a country endemic for rabies, report sporadic and probably imported cases. A compulsory and free of charge rabies vaccination program for dogs, cats and ferrets in both cities avoids secondary chains of transmission.

The index dog travelled to Morocco on December 12th 2013, twelve days after vaccination, which is a lapse considered too short for ensuring the development of protective immunity. The potential exposures referred by the owners while they stay in Morocco and the genomic sequence of the RABV strain detected in the dog clearly show the dog contracted the disease in Morocco. .

Vaccination against rabies in domestic animals is mandatory in two out of the three Autonomous Communities where the dog stayed during the infectious period. However, vaccination coverage is estimated to be under 50% (5). Because of the difficulties encountered during the interview with the owners, who were not able of informing about the whereabouts of the dog during some short time gaps within the communicability period and because the dog was missing the 24 hours before the death, the possibility of secondary cases in domestic or wild animals could not be excluded. Post-exposure prophylaxis in humans is highly effective in preventing the disease(4). Both vaccine and immunoglobulin are licensed and available in Spain. Human and animal public health services are coordinated under the Contingency Plan for the control of rabies in Spain simplifying the assessment of human exposures to suspicious animals and therefore the timely

application of the appropriate post-exposure prophylaxis(6)

Public human and animal health measures

The DGSPCI and DGSPA, in view of the situation, the need of coordinated action between different Autonomous Communities and some sectors of the administration and following the recommendation of the technical commission, declared the alert level 1 according to the Contingency Plan for the control of rabies in domestic animals in Spain on June the 6th 2013, one day after notification of the positive result. The alert level 1 implies the following activities at least during the 6 months following the declaration:

- Delimitation of restriction areas where specific activities will be implemented. The area within 20 km radius around Toledo, in Castilla la Mancha, including a municipality in Madrid (6)(7), four municipalities and a district of Barcelona in Catalonia (8)(9) and a municipality in Aragón (10) were established as restriction areas.
- Discard rabies as the cause of death of any domestic or wild carnivores carcass found by sending samples to the National Reference Laboratory for Rabies.
- Tighten control of stray animals and slaughtering if no owner is identified. Slaughtering and destruction of infected animals, according to European Regulation No 142/2011.
- Observation of all domestic animals.
- Mandatory vaccination of dogs, cats, ferrets and other pets of susceptible species and re-vaccination of all dogs under 12 months and over 12 months where annual rabies vaccination is not established
- Tracing of any domestic animals in contact with the case, including

investigation of the vaccination status and antibody titration. Decisions of quarantine or slaughtering will be taken according to the results.

- The movement of any pet capable of transmitting the disease outside the restriction area will require the prior approval of the competent authority.
- The need of post-exposure prophylaxis against rabies, according to especial protocols for alert level 1, should be assessed always in any aggression by dogs or other susceptible mammals to humans.
- Public awareness about the situation and the implementation of prevention and control measures in the restriction areas.
- National and international communication to public health authorities and professionals.

Finally, the availability of enough vaccine and immunoglobulin throughout the six months period of alert level 1 was assured by the Spanish Drug and Health Products Agency. This Agency communicated the estimation of stocks needed for facing this alert to the companies providing the products and eased the administrative paperwork during the first weeks of the alert. Priority hospitals for delivery in case of limited availability of products were also identified.

During the six months, including the infectious period and following five months of the alert level 1 period a total of 392 human contacts at risk with animals were reported and assessed in the restriction areas, 56 of them with the infected dog. Out of these 392 contacts at risk, 273 were considered type I contact, 39 were considered type II contact and 59 type III contact. Of this, 253 (64.5%) were offered post-exposure prophylaxis. Five of them refused treatment, 158 received full

prophylaxes (vaccine + immunoglobulin) and 87 received vaccine only. A total of 335 animal aggressions were notified including contacts of the index case and other animals in the restriction areas. All of them were put under observation but information related to antibodies titration is not available for all of them. The only positive animal to lyssavirus till now has been the index dog. The DGSPCI and the DGSPA communicated the event to the WHO, the European Early Warning and Response System, the European Commission (ADNS system) and the World Organization for Animal Health on June the 6th.

Lessons learnt and conclusions

This alert highlighted the importance of a coordinated management of the different interventions and stakeholders in a Public Health Event of National Concern for assuring the flow of information and the implementation of appropriate control measures, including access to medical supplies

Information about the origin of the infection and the whereabouts of the rabid dog at the beginning was scarce. These uncertainties implied an overreaction from public health services and unnecessary post-exposure prophylaxis and control measures on dogs were applied out of the restriction areas.

This event revealed some gaps and inconsistencies in the Contingency Plan for the Control of Rabies in Spain when referring to the actions and recommendations to be implemented during an alert level 1 period. The Plan was reviewed accordingly and an updated version was available by mid-june, ten days after the notification of the case. The new version included better coordination mechanisms between the different participants in the

response and decision making process, improved guidelines and algorithms for assessing aggressions of animals to humans and decisions on post-exposure prophylaxis as well as better mechanisms for assuring the availability of the required medical supplies and reduce over prescription.

There is an important traffic of vehicles and pets between the EU and North-Africa through the southern borders of Spain. Pet control enforcement at these borders and awareness campaigns to the general public, mainly focused in tourist, remains a key action for avoiding the introduction of rabies in the EU from endemic areas in North-Africa.

This event has reopened the debate about the need of mandatory rabies vaccination for dogs in all the Autonomous Communities despite the rabies free status.

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4 Distribution of Rabies in Europe

4.1 Country summaries of rabies cases, 2nd quarter 2013

01.04.13 - 30.06.13

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			0	
Belarus	BLR	**								0													0			0	
Belgium	BEL	*								0													0			0	
Bosnia - Hercegovina	BIH	*								0													0			0	
Bulgaria	BGR	*								0													0			0	
Croatia	HRV									0	5												5			5	
Cyprus	CYP	*								0													0			0	
Czech Republic	CZH	*								0													0			0	
Denmark	DNK	*								0													0			0	
Estonia	EST	*								0													0			0	
Finland	FIN	*								0													0			0	
France	FRA	*								0													0			0	
Georgia	GEO		13	1	8			1		23												0			23		
Germany	DEU									0													0	4		4	
Greece	GRC		1							1	5												5			6	
Hungary	HUN	*								0													0			0	
Iceland	ISL	*								0													0			0	
Ireland	IRE	*								0													0			0	
Italy	ITA	*								0													0			0	
Latvia	LVA	*								0													0			0	
Lithuania	LTU	*								0													0			0	
Luxembourg	LUX	*								0													0			0	
Macedonia	MKD	*								0													0			0	
Malta	MLT	*								0													0			0	
Moldova	MDA	**								0													0			0	
Montenegro	MNE	**								0													0			0	
Norway	NOR	*								0													0			0	
Poland	POL		8	2						10	20				2	1			2			1	26	2		38	
Portugal	PRT	*								0													0			0	
Romania	ROU		12	6	14		19			51	52		1		3	1				2		59			110		
Russian Federation	RUS		121	82	62		17	5		288	207	16	4	1	4	2	1				8	243	3		534		
Serbia	SRB	*								0													0			0	
Slovak Republic	SVK		1					1		2	1			1								2			4		
Slovenia	SVN	*								0													0			0	
Spain	ESP		3							3												0			3		
Sweden	SWE	*								0													0			0	
Switzerland + Lichtenstein	CHE	*								0													0			0	
The Netherlands	NED	*								0													0			0	
Turkey	TUR		50	4	79	4	10			147	8		2									10			157		
Ukraine	UKR		77	76	26		1			180	61	2		3	7						5	78	1		259		
United Kingdom	UNK	*								0													0			0	
TOTAL			286	171	189	4	47	1	7	705	359	18	4	3	6	13	3	3	1	2	0	2	14	428	7	3	1143
PER CENT			25.0%	15.0%	16.5%	0.3%	4.1%	0.1%	0.6%	61.7%	31.4%	1.6%	0.3%	0.3%	0.5%	1.1%	0.3%	0.3%	0.1%	0.2%	0.0%	0.2%	1.2%	37.4%	0.6%	0.3%	100%

4.2 Rabies cases per country and administrative units, 2nd quarter 2013

01.04.13 - 30.06.13

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
CROATIA																											
Sisacko - Moslovačka									0	1														1			1
Zagreb									0	3														3			3
Zagrebacka									0	1														1			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	0	0	5
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%
GERMANY																											
Cuxhaven									0															0	1		1
Gießen									0															0	1		1
Hannover (Region)									0															0	1		1
Mittweida									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	4	0	4
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	100%
GREECE																											
Kilkis									0	1														1			1
Pella									0	2														2			2
Serres	1								1															0			1
Thessaloniki									0	1														1			1
Trikala									0	1														1			1
TOTAL	1	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	6
PER CENT	16,7%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	16,7%	83,3%	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%	83,3%	0,0%	0,0%	100%
POLAND																											
Kujawsko-Pomorskie									0															0	1		1
Lubelskie	1								1	1														1			2
Malopolskie		1							1															0			1
Podkarpackie	6	1							7	19				2	1					2			1	25		32	
Pomorskie									0															0	1		1
Swiebkrzyskie	1								1															0			1
TOTAL	8	2	0	0	0	0	0	0	10	20	0	0	0	2	1	0	0	0	2	0	0	1	26	2	0	38	
PER CENT	21,1%	5,3%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	26,3%	52,6%	0,0%	0,0%	0,0%	5,3%	2,6%	0,0%	0,0%	0,0%	5,3%	0,0%	0,0%	2,6%	68,4%	5,3%	0,0%	100%	

4.2 Rabies cases per country and administrative units, 2nd quarter 2013 (continued)

01.04.13 - 30.06.13

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									0							1								1		1	
Arges	1								1				2												2		3
Bacau			1						1				1									1			2		3
Bihor	1	1							2				2												2		4
Bistrita-Nasaud									0		12														12		12
Botosani	2		1						3																0		3
Braila	1	1				9			11																0		11
Buzau		2	2						4		1														1		5
Cluj	1								1		7														7		8
Covasna									0		2														2		2
Dolj									0		1														1		1
Galati	2								2		1														1		3
Gorj			1						1													1			1		2
Ialomita	1								1		2														2		3
Iasi	1		3			2			6		7					1	1								9		15
Ilfov		1							1																0		1
Maramures									0		1														1		1
Neamt	1								1		1														1		2
Olt		1							1		1														1		2
Prahova			1						1		1														1		2
Salaj									0		1														1		1
Satu Mare									0		2														2		2
Sibiu						3			3		1														1		4
Suceava			2			4			6		6						1								7		13
Vaslui			2			1			3																0		3
Vrancea	1		1						2				1												1		3
TOTAL	12	6	14	0	19	0	0	0	51	52	0	0	1	0	0	3	1	0	0	0	2	0	0	59	0	0	110
PER CENT	10,9%	5,5%	12,7%	0,0%	17,3%	0,0%	0,0%	0,0%	46,4%	47,3%	0,0%	0,0%	0,9%	0,0%	0,0%	2,7%	0,9%	0,0%	0,0%	0,0%	1,8%	0,0%	0,0%	53,6%	0,0%	0,0%	100%
SLOVAK REPUBLIC																											
Presovský kraj	1						1		2	1					1										2		4
TOTAL	1	0	0	0	0	0	1	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	4
PER CENT	25,0%	0,0%	0,0%	0,0%	0,0%	0,0%	25,0%	0,0%	50,0%	25,0%	0,0%	0,0%	0,0%	0,0%	25,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	50,0%	0,0%	0,0%	100%
SPAIN																											
Ciudad Autonoma de Melilla	2								2																0		2
Toledo	1								1																0		1
TOTAL	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
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%	0,0%	100%

4.2 Rabies cases per country and administrative units, 2nd quarter 2013 (continued)

01.04.13 - 30.06.13

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
* no region specified		1							1															0		1	
Astrahanskaja obl.	2	1					1		4															0		4	
Belgorodskaja obl.	13	11	2		2				28	14														14		42	
Brjanskaja obl.	2		1						3	15	3													18		21	
Cuvasskaja resp.		2							2	1														1		3	
Dagestan resp.			3						3															0		3	
Ivanovskaja obl.									0	1							1							2		2	
Jaroslavskaja obl.		3					2		5	9	2													11		16	
Kabardino-Balkanskaja resp.		1	1						2															0		2	
Kaluzskaja obl.	1	2							3	4	1													5		8	
Kostromskaja obl.	2								2															0		2	
Krasnodarskij kr.	1								1	1														1		2	
Kurskaja obl.		3					1		4	2	1													3	1	8	
Lipeckaja obl.	4	5							9	12					1									13		22	
Mordovija resp.									0	1														1		1	
Moskovskaja obl.	8	3							11	12	2													14		25	
Moskva g.	2								2	2					1									3		5	
Nizgorodskaja obl.	3	3			1				7	16														16		23	
Orlovskaja obl.		2			1				3	1					1									2		5	
Penzenskaja obl.	12	5							17	13							1						2	16		33	
Pskovskaja obl.									0		2													2		2	
Rjazanskaja obl.	2								2	3														3		5	
Rostovskaja obl.	2		1				1		4	3														3		7	
Samarskaja obl.	7	4	7						18	2														2		20	
Sarabvskaja obl.	13	6	6						25	14	1	1												16		41	
Severnaja Osetija-Alanija resp.	2	2	6						10														1	1		11	
Smolenskaja obl.	1								1	5												1	6			7	
Stavropol'skij kr.	3	3							6															0		6	
Tambovskaja obl.	4	4	4		12				24	15					1									16		40	
Tatarstan resp.	12	8	20		1				41	27		1		1					1				1	31		72	
Tul'skaja obl.	1	1							2															0		2	
Tverskaja obl.	2	1							3	12	6												1	19		22	
Ufjanovskaja obl.	6	1	7						14	8													1	9		23	
Vladimirska obl.	6	4							10	11													1	12	1	23	
Volgogradskaja obl.	1		3			1			5															0	1	6	
Voronezskaja obl.	9	6	1						16	3														3		19	
TOTAL	121	82	62	0	17	1	5	0	288	207	16	4	0	1	4	0	2	1	0	0	0	0	8	243	0	3	534
PER CENT	22,7%	15,4%	11,6%	0,0%	3,2%	0,2%	0,9%	0,0%	53,9%	38,8%	3,0%	0,7%	0,0%	0,2%	0,7%	0,0%	0,4%	0,2%	0,0%	0,0%	0,0%	1,5%	45,5%	0,0%	0,6%	100%	

4.2 Rabies cases per country and administrative units, 2nd quarter 2013 (continued)

01.04.13 - 30.06.13

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																												
Agri	7		7	2	1					17															0			17
Aksaray	3		18		1					22	2														2			24
Ankara			2							2															0			2
Antalya					2					2															0			2
Ardahan					1					1															0			1
Aydin			3							3															0			3
Balikesir			3							3															0			3
Bingöl	1									1															0			1
Bitlis					1					1															0			1
Burdur			3							3															0			3
Diyarbakir	1		4	1						6															0			6
Erzurum	7		2							9				1											1			10
Gaziantep	1									1															0			1
Giresun	4		2							6	1														1			7
Halay	2									2															0			2
Igdir	5		7		1					13															0			13
Istanbul	1									1															0			1
Izmir	3	1	1							5															0			5
K.Maras										0	1														1			1
Kilis	1									1															0			1
Kirsehir			1							1															0			1
Konya	2		16	1						19															0			19
Malatya	2		1							3															0			3
Manisa		1								1															0			1
Mardin	1									1															0			1
Mugla		1								1															0			1
Mus										0				1											1			1
Nevsehir	1	1	2							4	3														3			7
Sanliurfa	3		4							7															0			7
Sirnak	1		2		1					4															0			4
Tunceli	1									1															0			1
Usak					1					1	1														1			2
Van	3		1		1	0	0	0	0	5				2	0	0	0	0	0	0	0	0	0	0	0			5
TOTAL	50	4	79	4	10	0	0	0	0	147	8	0	0	2	0	0	0	0	0	0	0	0	0	10	0	0	157	
PER CENT	31,8%	2,5%	50,3%	2,5%	6,4%	0,0%	0,0%	0,0%	0,0%	93,6%	5,1%	0,0%	0,0%	1,3%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	6,4%	0,0%	0,0%	100%	

4.2 Rabies cases per country and administrative units, 2nd quarter 2013 (continued)

01.04.13 - 30.06.13

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	3	1							4	2													1	3			7
Bolymskaja o.	2	3							5	5														5			10
Cherkasskaja o.	1	2	2						5															0			5
Chernigovskaja o.	6	9							15	2												1	3			18	
Chernovitskaja o.	1	2							3	1														1		4	
Dnepropetrovskaja o.	4	5	2						11	3														3		14	
Donetskaja o.	3	4	1						8															0		8	
Ivano-Frankovskaja o.									0	3					1									4		4	
Khar'kovskaja o.	4	2							6	2														2		8	
Khersonskaja o.	4	4	3						11	1	2													3		14	
Khmel'nitskaja o.	6	1	1						8	5														5		13	
Kirovogradskaja o.	6	2	1						9	2				1	2									5		14	
Kiyev g.	4	1							5															0		5	
Kiyevskaja o.	3	12	1						16	2				1									1	4		20	
Luganskaja o.	1	2							3															0	1	4	
L'vovskaja o.			1						1	4														4		5	
Nikolajevskaja o.	4	1	1						6	3					1								1	5		11	
Odesskaja o.	3	4	3		1				11	1														1		12	
Rovenskaja o.	1	1							2	3				1										4		6	
Sumsckaja o.		1	1						2	2														2		4	
Ternopol'skaja o.	1	1							2																	2	
Vinnitskaja o.	9	3	2						14	12					1									13		27	
Zakarpatskaja o.	1	2	1						4															0		4	
Zaporozhskaja o.	5	11	6						22	6					1								1	8		30	
Zhitomirskaja o.	5	2							7	2					1									3		10	
TOTAL	77	76	26	0	1	0	0	0	180	61	2	0	0	3	7	0	0	0	0	0	0	0	5	78	1	0	259
PER CENT	29,7%	29,3%	10,0%	0,0%	0,4%	0,0%	0,0%	0,0%	69,5%	23,6%	0,8%	0,0%	0,0%	1,2%	2,7%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	1,9%	30,1%	0,4%	0,0%	100%
GEORGIA																											
Akhalgalaqi	1								1															0			1
Batumi	2	1					1		4															0			4
Gori	1		1						2															0			2
Kharagauli	1		2						3															0			3
Khobuleti	2								2															0			2
Khvareli	1								1															0			1
Lagodekhi	2		1						3															0			3
Marneuli	1								1															0			1
Ozurgeti			3						3															0			3
Tbilisi	1								1															0			1
Tsalenjikha			1						1															0			1
Varketili	1								1															0			1
TOTAL	13	1	8	0	0	0	1	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
PER CENT	56,5%	4,3%	34,8%	0,0%	0,0%	0,0%	4,3%	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%	0,0%	100%

5 Trend tables

5.1 Comparison of the reporting quarter (II/2013) with the previous quarter (I/2013)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	II 2013 (no.)	I 2013 (no.)	Difference	II 2013 (no.)	I 2013 (no.)	Difference	II 2013 (no.)	I 2013 (no.)	Difference	II 2013 (no.)	I 2013 (no.)	Difference	II 2013 (no.)	I 2013 (no.)	Difference
Albania															
Austria															
Belgium															
Bosnia - Hercegovina															
Bulgaria															
Croatia	5	9	-4	5	8	-3		1	-1						
Cyprus															
Czech Republic															
Denmark															
Estonia															
Finland															
France															
Georgia	23	20	3		1	-1	23	18	5					1	-1
Germany	4	1	3							4	1	3			
Greece	6	10	-4	5	9	-4	1	1							
Hungary															
Iceland															
Ireland															
Italy															
Latvia															
Lithuania		1	-1					1	-1						
Luxembourg															
Macedonia															
Malta															
Montenegro															
Norway															
Poland	38	79	-41	26	73	-47	10	6	4	2		2			
Portugal															
Romania	110	183	-73	59	153	-94	51	30	21						
Russian Federation	534	648	-114	243	315	-72	288	331	-43				3	2	1
Serbia		3	-3		3	-3									
Slovak Republic	4	3	1	2	3	-1	2		2						
Slovenia		1	-1		1	-1									
Spain	3	3					3	3							
Sweden															
Switzerland + Lichtenstein															
The Netherlands															
Turkey	157	74	83	10	5	5	147	69	78						
Ukraine	259	483	-224	78	233	-155	180	250	-70	1		1			
United Kingdom															
TOTAL	1143	1518	-375	428	804	-376	705	710	-5	7	1	6	3	3	0

5.2 Comparison of the reporting quarter (II/2013) with the same quarter of the previous year (II/2012)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	II 2013 (no.)	II 2012 (no.)	Difference	II 2013 (no.)	II 2012 (no.)	Difference	II 2013 (no.)	II 2012 (no.)	Difference	II 2013 (no.)	II 2012 (no.)	Difference	II 2013 (no.)	II 2012 (no.)	Difference
Albania		1	-1					1	-1						
Austria															
Belgium															
Bosnia - Hercegovina		1	-1		1	-1									
Bulgaria															
Croatia	5	30	-25	5	26	-21		4	-4						
Cyprus															
Czech Republic															
Denmark															
Estonia															
Finland															
France															
Germany	4	5	-1							4	5	-1			
Greece	6		6	5		5	1		1						
Hungary															
Iceland															
Ireland															
Italy															
Latvia															
Lithuania		1	-1					1	-1						
Luxembourg															
Macedonia															
Malta															
Montenegro															
Norway															
Poland	38	32	6	26	23	3	10	8	2	2	1	1			
Portugal															
Romania	110	87	23	59	55	4	51	32	19						
Russian Federation	534	365	169	243	197	46	288	166	122				3	2	1
Serbia		1	-1		1	-1									
Slovak Republic	4		4	2		2	2		2						
Slovenia		1	-1		1	-1									
Spain	3	1	2				3		3		1	-1			
Sweden															
Switzerland + Lichtenstein															
The Netherlands		2	-2								2	-2			
Turkey	157	159	-2	10	29	-19	147	130	17						
Ukraine	259	282	-23	78	96	-18	180	186	-6	1		1			
United Kingdom		1	-1											1	-1
TOTAL	1120	969	151	428	429	-1	682	528	154	7	9	-2	3	3	0

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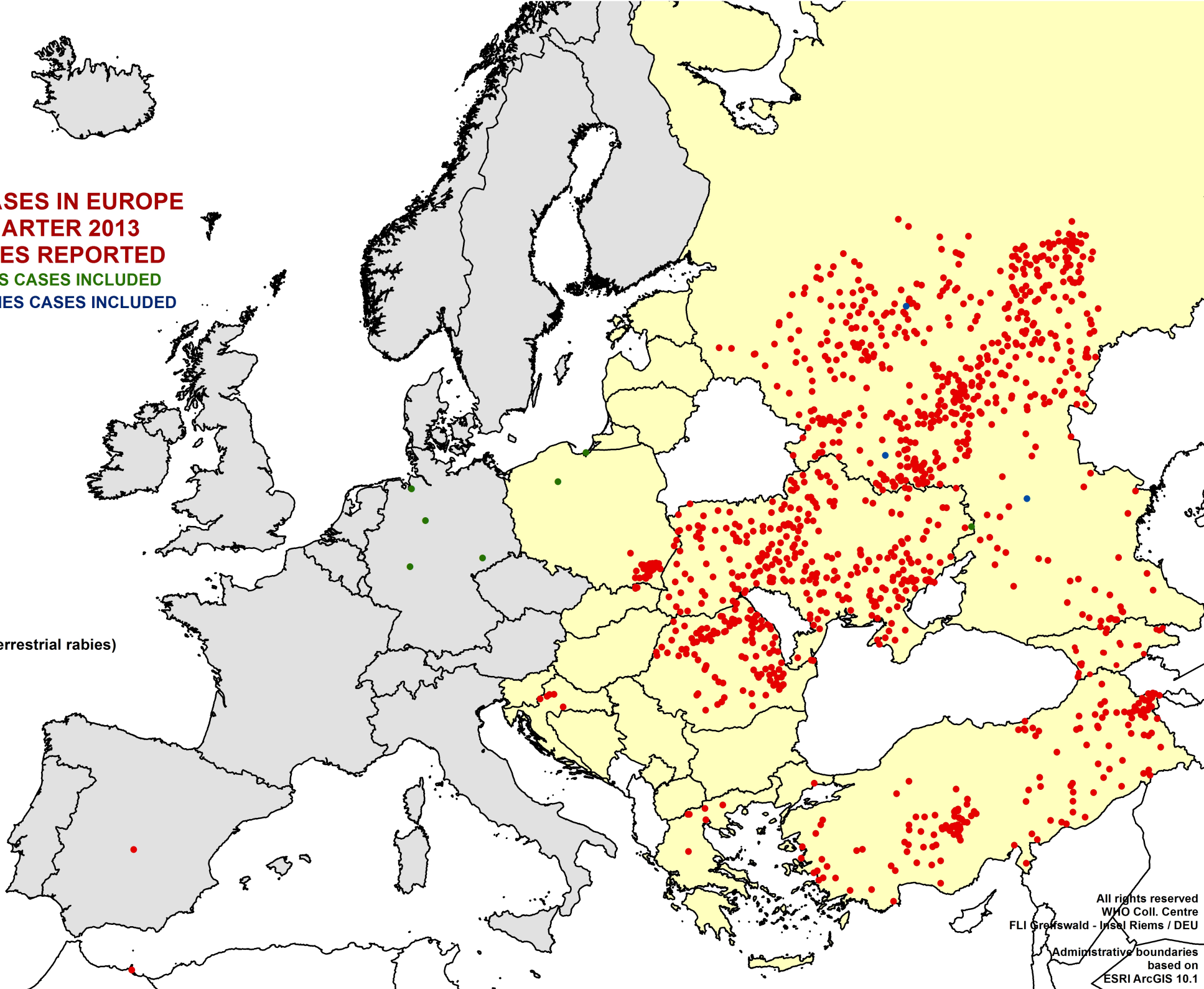
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**Please inform the editor about
changes of contact details!**

RABIES CASES IN EUROPE
2nd QUARTER 2013
1133 CASES REPORTED
7 BAT RABIES CASES INCLUDED
3 HUMAN RABIES CASES INCLUDED

rabies free (terrestrial rabies)
no data



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Administrative boundaries
based on
ESRI ArcGIS 10.1