



Lumpy skin disease (LSD) Vaccination Data Collection

**Standing Group of Experts on Lumpy Skin Disease in the South East Europe
region under the GF-TADs umbrella**

Third meeting (SGE LSD3), 12 – 13 December 2016 Istanbul, Turkey

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LSD Vaccination Data Collection

- **Methodology**
- **Responses received**
- **LSD vaccination in 2016**
- **Vaccination planning for 2017**
- **Observations – Facts**
- **Round Table discussion**

LSD Vaccination Data Collection

Methodology

LSD vaccination 2017

Data on vaccination planning per province

End-Start dates

Numbers of holdings – animals

Intended vaccination coverage

Vaccine supply

(logistics –stocks)


LSD vaccination programmes in south-East Europe

MULTIPROVIDENCE (MLP) DATA INTERVIEW (DI) FORM (THIS DOCUMENT IS AN ADAPTATION OF THE FORM USED IN THE EASTERN PART OF THE BALKANS) BY ECHO/2016

Name: _____ Contact Name: _____
 No. of holdings: _____ No. of animals: _____
 Year: _____ Year: _____

Please use this questionnaire to collect data on the LSD vaccination programmes in your country.

SECTION 1: GENERAL INFORMATION ON THE VACCINATION PROGRAMME
 1.1. What is the main objective of the LSD vaccination programme?
 1.2. What is the main objective of the LSD vaccination programme?
 1.3. What is the main objective of the LSD vaccination programme?
 1.4. What is the main objective of the LSD vaccination programme?
 1.5. What is the main objective of the LSD vaccination programme?
 1.6. What is the main objective of the LSD vaccination programme?
 1.7. What is the main objective of the LSD vaccination programme?
 1.8. What is the main objective of the LSD vaccination programme?
 1.9. What is the main objective of the LSD vaccination programme?
 1.10. What is the main objective of the LSD vaccination programme?

SECTION 2: VACCINATION COVERAGE
 2.1. What is the main objective of the LSD vaccination programme?
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 2.4. What is the main objective of the LSD vaccination programme?
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 2.8. What is the main objective of the LSD vaccination programme?
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 2.10. What is the main objective of the LSD vaccination programme?

SECTION 3: VACCINE SUPPLY
 3.1. What is the main objective of the LSD vaccination programme?
 3.2. What is the main objective of the LSD vaccination programme?
 3.3. What is the main objective of the LSD vaccination programme?
 3.4. What is the main objective of the LSD vaccination programme?
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SECTION 4: SUMMARY
 4.1. What is the main objective of the LSD vaccination programme?
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Country replies

Country	LSD vaccination 2016	LSD vaccination 2017
Bosnia & Herzegovina	NA	✓
Bulgaria	✓	✓
Croatia	✓	✓
Greece	✓	✓
Hungary	NA	✓
Kosovo*	✓	✓
Montenegro	✓	✓
Serbia	✓	✓
Slovakia	NA	✓
The Former Yugoslav Republic of Macedonia	✓	✓
Turkey	✓	✓

(* This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo Declaration of Independence).

LSD vaccination 2016 - Timing

Country	Start Date	End Date	Average time for completion of vaccination	Perceived expiry of vaccine immunity ‡
Bulgaria	28 Apr - 13 May 2016	15 June - 15 July 2016	48 days	April – May 2017
Croatia	8 Aug - 21 Sep 2016	15 Sep – 15 Nov 2016	55 days	Aug – Sep 2017
Greece	<u>2015</u> : 5 Sep – Dec ** <u>2016</u> : May - (TBD)	<u>2015</u> : 2 Oct – Dec ** <u>2016</u> : Aug - (ongoing) **	127 (+) [ongoing]	Multiple dates
Kosovo*	11 July- 24 Sep 2016	01 Oct -10 Nov 2016	86 days	July – Sep 2017
Montenegro	1 Aug 2016	17 Aug 2016	16 days	Aug 2017
Serbia	27 June-08 July 2016	08 July -26 Aug 2016	38 days	July- Aug 2017
The Former Yugoslav Republic of Macedonia	23 May – 28 July 2016	6 June - 10 Oct 2016	54 days	May – July 2017
Turkey	1 Jan 2016	31 Dec 2016	360 days (all year round)	All year round

‡ Based on the start date, minimum vaccine immunity 12 months

** Multiple dates per province , in some cases 2015 vaccination was completed in 2016

LSD vaccination 2016 - Numbers of animals

Country	Numbers of animals vaccinated	Reported vaccination coverage	Comments
Bulgaria	681.779	100%	-
Croatia	418.153	98,4%	-
Greece	616.244	74,06%	Not all country subject to vaccination. Data pending for some provinces subject to vaccination.
Kosovo*	239.119	70%	(livestock in database higher than actual ⇒ true vaccine coverage >>70%)
Montenegro	91.410	100 %	-
Serbia	873.071	96,5%	-
The Former Yugoslav Republic of Macedonia	212.877	97%	-
Turkey	9.943.001	70%	-

LSD vaccination 2016 - Supply of vaccines

Country	National central procurement (doses)	EU LSD vaccine bank	Other	Total doses supplied
Bulgaria	625.000	150.000	-	775.000
Croatia	398.000	50.000	-	448.000
Greece (2015 & 2016)	628.000	150.000	196.854 ‡	974.854
Kosovo*	235.000	25.000	-	260.000
Montenegro	95.000	25.000	-	120.000
Serbia	1.000.000	50.000	-	1.050.000
The Former Yugoslav Republic of Macedonia	250.000	50.000	-	300.000
Turkey	-	-	10.500.000**	10.500.000

Bosnia & Herzegovina	-	-	-	-
Hungary	210.000	-	-	210.000
Slovakia	-	-	-	-

‡ Local veterinary authorities & private purchase

** Local veterinary authorities

LSD vaccination 2016 - Vaccine consumption /stocks

Country	Type of vaccine	Total doses supplied	Total animals vaccinated	Available stock for 2017
Bulgaria	Homologous	775.000	681.779	Small
Croatia	Homologous	448.000	418.153	55.000
Greece	Homologous	974.854	616.244	(TBD- vaccination in progress)
Kosovo*	Homologous	260.000	239.119	-
Montenegro	Homologous	120.000	91.410	20.000
Serbia	Homologous	1.050.000	873.071	90.000
The Former Yugoslav Republic of Macedonia	Homologous	300.000	212.877	68.200
Turkey	Heterologous (3 x SGP vaccine)	10.500.000	9.943.001	500.000

Bosnia & Herzegovina	NA	-	NA	-
Hungary	Homologous	NA	NA	210.000
Slovakia	NA	-	NA	-

LSD vaccination 2017 - Vaccine procurement plan

Country	Number of doses planned to be bought nationally	Estimated date of purchase	Comments
Bulgaria	1.300.000	Mar 2017	Booster + calves + cattle from free areas
Croatia	600.000	Feb-Mar 2017	Some quantity will be needed before national purchase for new-born calves
Greece	700.000	June 2017	-
Kosovo*	310.000	Mar-April 2017	-
Montenegro	110.000	March 2017	Booster + calves + cattle from free areas
Serbia	1.300.000	June 2017	-
The Former Yugoslav Republic of Macedonia	175.000	Jan 2017	Another 175.000 will be needed for the entire vaccination campaign
Turkey	12.175.349	TBD	(estimated, vaccination programme in preparation)
Bosnia & Herzegovina	166.900 (SIDA)	TBD	Vaccination decision pending
Hungary	210.000	June 2017	Preventive vaccination if LSD 100km or closer from border (selected areas)
Slovakia	-	-	No LSD vaccination planned for 2017

LSD vaccination 2017 - Vaccination plan

Country	Estimated number of animals	Planned start date	Planned end date
Bulgaria	1.081.899	20 Feb 2017	30 Mar 2017
Croatia	424.913	Feb- Mar 2017	01 Apr 2017
Greece	731.339	01 Jan 2017	31 Dec 2017
Kosovo*	296.589	15 April 2017	15 May 2017
Montenegro	110.000	01 Apr 2017	-
Serbia	890.285 (+ 249.385)	01 Mar 2017	30 June 2017
The Former Yugoslav Republic of Macedonia	279.949	15 Jan 2017	30 Mar 2017
Turkey	12.175.349 (85% cov.)	01 Jan 2017	31 Jan 2017
Bosnia & Herzegovina	300.000	TBD – Decision pending	
Hungary	356.861	Preventive vaccination if LSD approaches 100km or less from border	
Slovakia	NA	NA	NA

Observations – Facts

- **The majority of countries chose homologous LSD vaccines**
- **In most cases occurrence of new LSD outbreaks in affected countries stopped within 1 month following completion of their vaccination campaign**
- **Most of the 2016 LSD vaccine supply needs were covered through national procurement procedures**
- **In general, 2017 LSD vaccination plans are based on seasonality (the 2016 LSD epidemic started on April 2016) rather than vaccine immunity duration**
- **Most vaccine dose calculations for 2017 involve around 30% annual replacement rate + cattle from trade**

Questions for discussion (indicative)

- **Selection of starting time of LSD vaccination campaign in South East Europe**
- **Timing for booster vaccination of cattle**
- **Vaccination of calves born to vaccinated dams**
- **Synchronisation of the LSD vaccination campaigns in affected /non affected countries**
- **Preventive vaccination, can we draft guidelines ? (when-where) ?**
- **Surveillance among vaccinated animals (combination with the vaccination campaign ?)**
- **Prioritization of vaccination when mass vaccination is not possible**
- **Ways to support the LSD vaccination campaigns**

THANK YOU !!!!

Round Table Discussion