



Lumpy Skin Disease Epidemiological situation in Europe and neighbouring areas in 2019 (occurrence and vaccination)

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

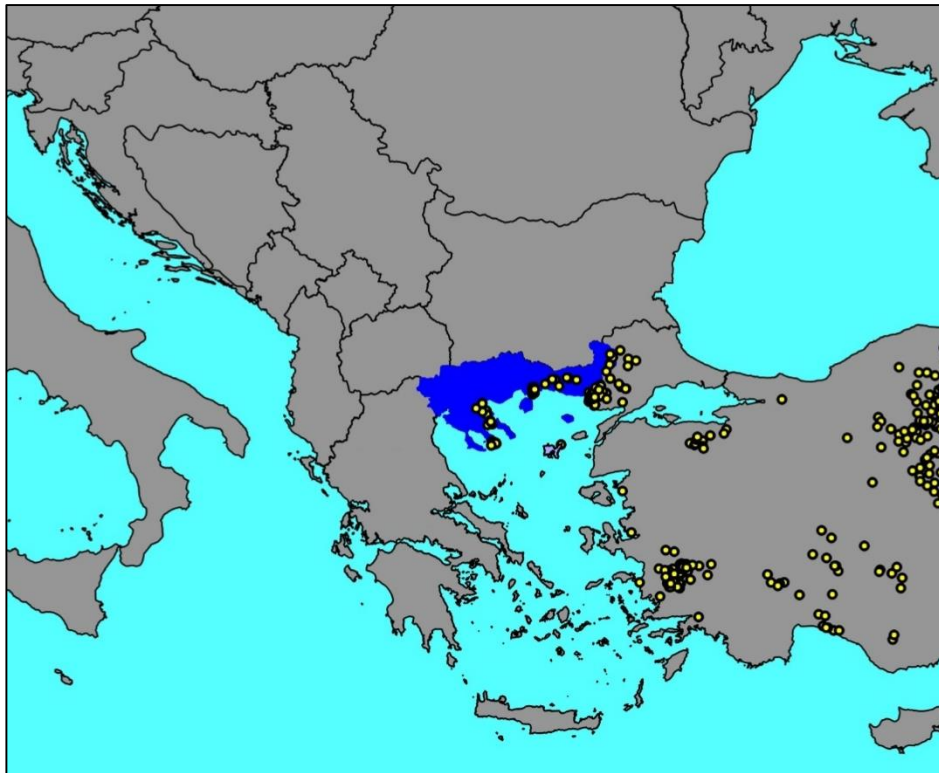
Ninth meeting (SGE LSD9)

16-17 October 2019, Athens, Greece

*Dimitrios DILAVERIS
European Commission
Directorate-General for Health and Food Safety
G-Crisis management in food, animals and plants*

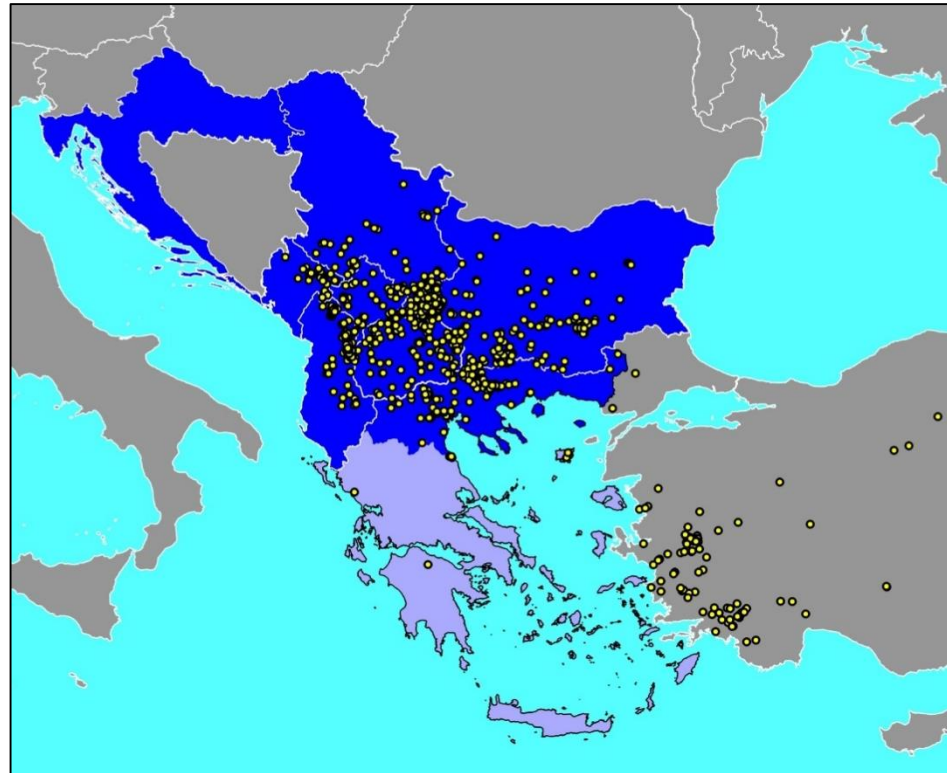
- **LSD occurrence and response in SE Europe** (*short overview*)
- **LSD 2019 vaccination data**
- **State of play**

LSD outbreaks-vaccination in 2015

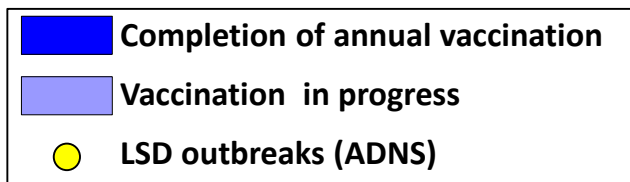


117 outbreaks in 1 country
(*excl. Turkey*)

LSD outbreaks-vaccination in 2016



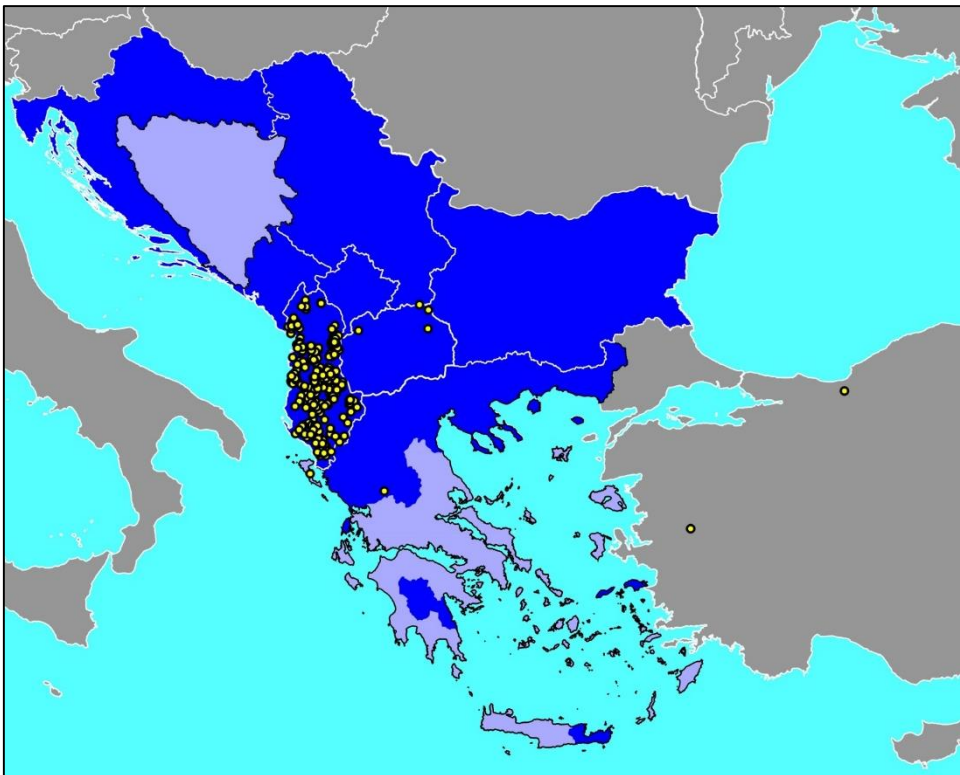
>7.000 outbreaks in 7 countries
(*excl. Turkey*)





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LSD outbreaks-vaccination in 2017

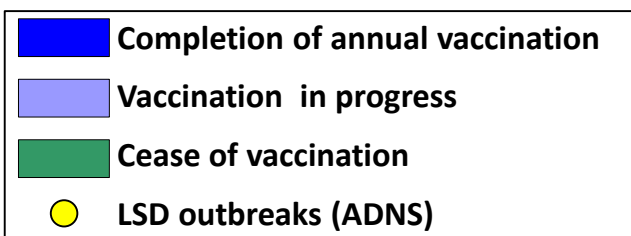


LSD outbreaks-vaccination in 2018 (Oct.)



~500 outbreaks in 3 countries
(excl. Turkey)





0 outbreaks in 0 countries
(excl. Turkey)

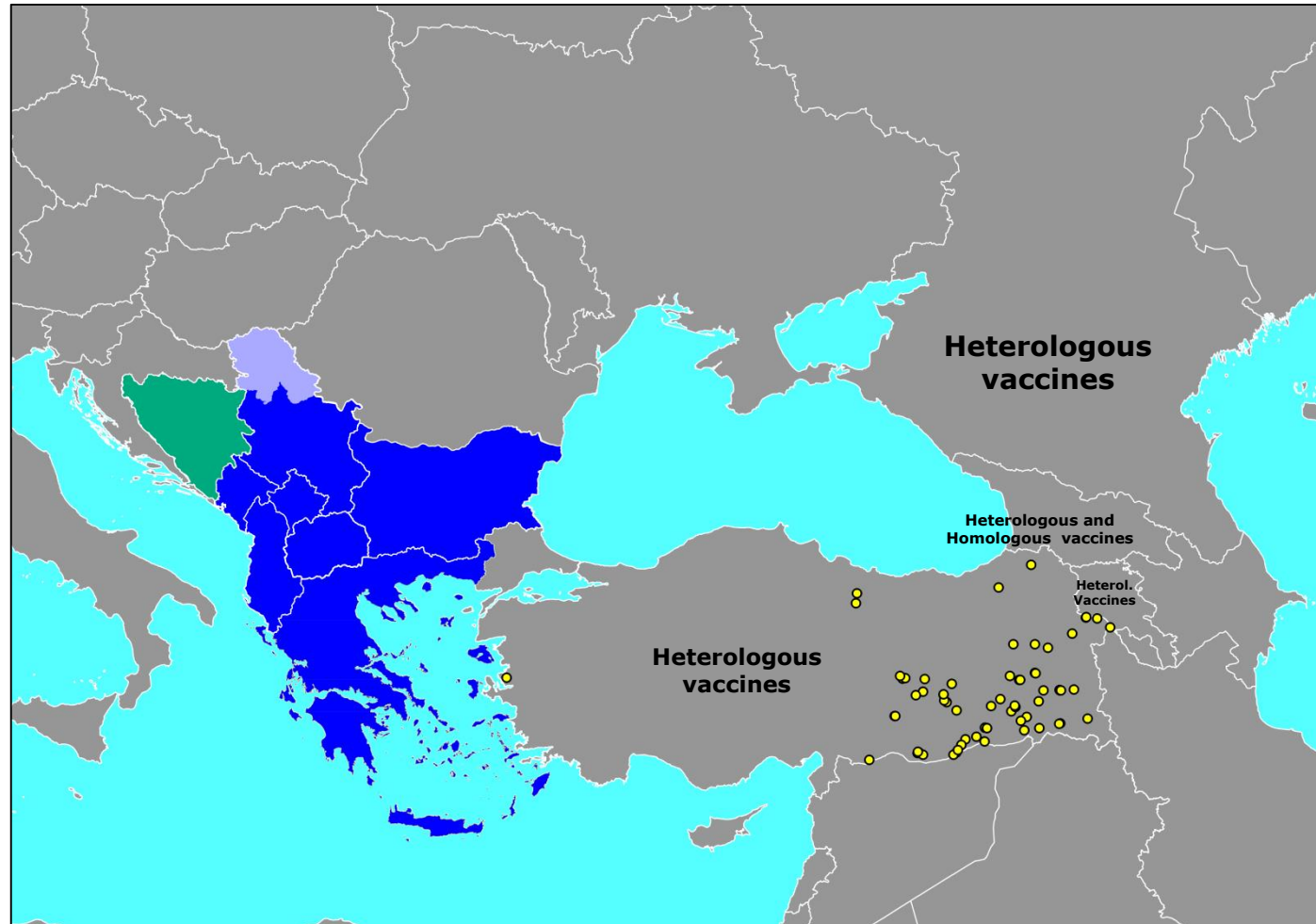


*Confirmatory
info pending.



LSD vaccination in 2019 (completed/in progress)

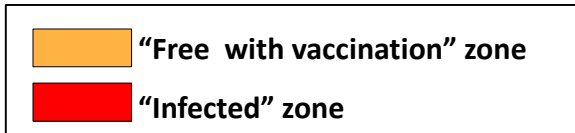
-  Annual revaccination of all cattle (planned / in progress)
(homologous vaccines)
Albania, Bulgaria, Greece, North Macedonia, Kosovo, Montenegro, Serbia (southern districts)*
-  Vaccination of imported cattle and calves >6 mon.
(homologous vaccines)
Serbia (northern districts)
-  Cease of vaccination
Bosnia and Herzegovina
-  LSD outbreaks
01 Jan – 27 Sep 2019 (ADNS)



0 outbreaks in **0** countries (as at 27 Sep 2019, excl. 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 zoning in the EU (as of January 2019)



Com. Impl. Decision (EU) **2019/81**

Com. Impl. Decision (EU) **2019/82**



Lifting of all LSD restrictions for Croatia

LSD vaccination in SE Europe – a coordinated regional policy

2015

- LSD vaccination in the ***North – Eastern Provinces of Greece***

2016 - 2018

- All countries that were affected by LSD (***Greece, Bulgaria, North Macedonia, Serbia, Kosovo*, Albania, Montenegro***) implemented mass vaccination of all their cattle against LSD in their entire territory.
- ***Croatia***, not affected by LSD, became the 1st country in SE Europe to implement LSD preventive vaccination of the entire country (2016 -2017)
- ***Bosnia and Herzegovina***, not affected by LSD, 2nd country in SE Europe to implement LSD preventive vaccination , in certain areas (2017 -2018)

2019

Annual LSD vaccination only in countries that were affected by LSD (***Greece, Bulgaria, North Macedonia, Serbia, Kosovo*, Albania, Montenegro***)

NOTE :

- In all cases the vaccines used in the above countries are **live, homologous vaccines against LSD** imported from outside the EU.
- In most cases **new LSD outbreaks stopped within 1 month** following proper completion of the vaccination campaign with homologous vaccines in affected countries
- In **Turkey** a different type of vaccine is used (**heterologous** Sheep Pox vaccine, administered to cattle at 3x -5x the sheep dose)



EU Support for LSD control in SE Europe (for EU and non EU MS)

- **EU support for LSD vaccination**
 - ✓ **Donations from EU LSD vaccine bank**
 - ✓ **Reimbursement for the cost of LSD vaccines**

- **EU Support for Regional Coordination in 2019 – GF TADs LSD group meetings**

Support for the organisation of GF TADs and other international meetings on LSD

- **EU Scientific – Technical support**
 - ✓ **EFSA Opinions- Reports on LSD** (2 opinions & 3 reports published to date).
<https://www.efsa.europa.eu/en/topics/topic/lumpy-skin-disease>
 - ✓ **EUVET expert missions** (on-the-spot technical support upon country request)
 - ✓ **EU Reference Laboratory for LSD** (technical support for National LSD Laboratories)
National Reference Laboratories Workshop 2019 (3-4 October 2019, Brussels, Belgium)

- **EU LSD training activities**
 - Sustained Technical Missions – STMs** (each time in a specific country)
 - BTSF training workshops on LSD** (for officers of multiple countries)

European Union Lumpy Skin Disease Vaccine Bank *(est. April 2016)* 2016 -2017-2018-2019 grants

Year	Country	Doses granted
2016	Bulgaria, Greece , North Macedonia, Serbia, Kosovo*, Albania, Montenegro, Croatia	625.000
2017	Bosnia & Herzegovina, Montenegro, Greece, Albania, Kosovo*	325.000
2018	North Macedonia, Kosovo*, Montenegro, Greece, Albania, Georgia	876.000
2019	North Macedonia	150.000
	Kosovo*	190.000
	Montenegro	80.000
	Albania	250.000
		670.000

2.496.000 doses of LSD vaccine (live-homologous) granted to date to 10 countries (EU + non EU MS)

- Total Remaining capacity (physical stock + future orders) ~0,97 million doses.
- New contract signed for an additional 1,8 million doses

Methodology - EXCEL TABLES

LSD vaccination 2019

- Data on vaccination per province or country
- End-Start dates
- Numbers of holdings – animals
- Vaccination coverage achieved
- Proportions of primary /booster vaccinations
- Vaccine supply

LSD vaccination 2020

- Data on vaccination planning
- End-Start dates
- Numbers of holdings – animals
- Intended vaccination coverage
- Vaccine supply
(logistics –stocks)

Country Replies - Data received

23 countries invited to provide data on LSD vaccination (Excel tables)

22 countries provided Excel tables (95 %)

Albania	Excel
Armenia	Excel
Austria	Excel
Azerbaijan	-
Bosnia and Herzegovina	Excel
Bulgaria	Excel
Croatia	Excel
Cyprus	Excel
Georgia	Excel
Greece	Excel
Hungary	Excel
Israel	Excel

Kazakhstan	Excel
Kosovo*	Excel
Moldova	Excel
Montenegro	Excel
North Macedonia	Excel
Romania	Excel
Russia	Excel
Serbia	Excel
Slovenia	Excel
Turkey	Excel
Ukraine	Excel

Vaccination policy in 2019

9 countries never implemented vaccination against LSD or stopped LSD vaccination in 2019 or earlier

9 countries implemented mass vaccination in entire country

3 countries implemented mass vaccination in selected regions

2 countries implemented ring vaccination or voluntary vaccination

Albania	Mass , all areas
Armenia	Buffer zone
Austria	No vaccination
Bosnia and Herzegovina	No vaccination
Bulgaria	Mass , all areas
Croatia	No vaccination
Cyprus	No vaccination
Georgia	Mass , all areas
Greece	Mass , all areas
Hungary	No vaccination
Israel	Voluntary / mandatory

Kazakhstan	Mass , some areas
Kosovo*	Mass , all areas
Moldova	No vaccination
Montenegro	Mass , all areas
North Macedonia	Mass , all areas
Romania	No vaccination
Russia	Ring ?
Serbia	Mass ,some areas ¹
Slovenia	No vaccination
Turkey	Mass , all areas
Ukraine	No vaccination

¹ in the northern part, vaccination of calves /imported animals only

Vaccine type used in 2019

9 countries used homologous vaccines

4 countries used heterologous vaccines (5x-10x)

1 country used homologous vaccines and heterologous vaccines (6x)

Albania	Homologous
Armenia	Heterologous (10x)
Bulgaria	Homologous
Georgia	Homologous + Heterol. (6x)
Greece	Homologous
Israel	Homologous

Kazakhstan	Homologous ¹
Kosovo*	Homologous
Montenegro	Homologous
North Macedonia	Homologous
Russia	Heterologous (?x)
Serbia	Homologous
Turkey	Heterologous (5x)

¹ Lumpivax TM

Vaccination timing in 2019

Albania	Start : April/May /Sep End : in progress
Armenia	Start : March End: April
Bulgaria	Start : January End: June
Georgia	Start : March End : in progress
Greece	Throughout the year
Israel	Start : August End : in progress

Kazakhstan	Start : February End : April
Kosovo*	?
Montenegro	Start : May End : July
North Macedonia	Start : March End : in progress
Russia (Some areas throughout the year)	Start : January End: August
Serbia	Throughout the year
Turkey	Start : January End: June

Vaccine supply in 2019

7 countries used national purchase

5 countries used vaccine donations from the EU LSD vaccine bank

1 country used combination of national purchase and vaccine donations from the EU LSD vaccine bank

1 country used national purchase + transfer of vaccines from stocks of neighbouring country

1 country used national purchase + purchase by farmers

Albania	EU Vaccine bank
Armenia	National purchase
Bulgaria	National purchase + Donation from Hungary
Georgia	EU Vaccine bank + National purchase
Greece	National purchase
Israel	?

Kazakhstan	National Purchase
Kosovo*	EU vaccine bank
Montenegro	EU Vaccine bank
North Macedonia	EU Vaccine bank
Russia	National Purchase +farmers
Serbia	National Purchase with EU support
Turkey	National purchase

Vaccination coverage (achieved todate)

3 countries reached 80-100% all over the country

6 countries reached 40-60 %

1 country reached 100 % in selected areas

Albania	~ 40%
Armenia	~ 44%
Bulgaria	~ 82%
Georgia	~ 47%
Greece	~ 43%
Israel	?

Kazakhstan	100 % (only in vaccination areas)
Kosovo*	?
Montenegro	~75%
North Macedonia	~ 82%
Russia	~ 50%
Serbia	~56 % (national) ¹
Turkey	~ 93%

¹ 75 – 82% where mass vaccination of all animals was implemented

Vaccine supply plans for 2020

**9 countries
plan national
purchase**

Albania	National purchase
Armenia	National purchase
Bulgaria	National purchase
Georgia	National purchase - homologous vaccines (risk areas / replacement animals)
Greece	National purchase
Israel	National purchase + farmers

Kazakhstan	National Purchase (Lumpivax™ and Neethling RIBSP)
Kosovo*	National purchase ?
Montenegro	--
North Macedonia	--
Russia	TBD
Serbia	National purchase
Turkey	EU project + National purchase ¹

¹ Homologous + Heterologous vaccines purchased through IPA project + some heterologous vaccines from national purchase

Current State of Play

➤ **Coordinated vaccination control policy against LSD since 2016**

Mass vaccination, with live homologous vaccines, uniformly adopted across South East Europe (EU + non EU countries excl. Turkey) with support from the EU (vaccines from the EU vaccine bank + financial assistance for vaccine purchase).

➤ **Disease notification across SE Europe**

All affected countries in SE Europe, including non EU-Members, *report LSD outbreaks* on ADNS/WAHIS.

➤ **Sharing of information - regional planning coordination**

Regular regional meetings of the **GF-TADs SGE LSD group** (presentations, discussions, , exchange of info)

➤ **Coordination of LSD vaccines supply – availability**

- ✓ *Donations from the EU LSD vaccine bank*
- ✓ *Cooperation between neighbouring countries* (e.g. vaccine transfers from national vaccine banks to neighbouring countries).

Current State of Play

- **No LSD outbreaks in the Balkans since 2018** (4 years of vaccination, 2 years without LSD outbreaks)
- **Disengagement from LSD annual re-vaccination** has already started :
 - **Croatia:** cease of preventive vaccination as of 2018
 - **Bosnia and Herzegovina:** cease of preventive vaccination as of 2019
 - **Serbia:** Cease of annual revaccination of previously vaccinated adult cattle in the north part of the country as of 2019
- **LSD annual revaccination** continued in the other countries of SE Europe in 2019.
- **"LSD exit strategy":** Continuation of the discussion during the GF TADs SGE LSD 7 meeting (Ohrid, 18-19 October 2018) on the **possible disengagement, from LSD annual re-vaccination**, of additional countries/regions in SE Europe after 2019, and **replacement with systematic LSD surveillance** in those countries/zones where LSD vaccination stops.



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THANK YOU