Lumpy skin disease (LSD)
Overview of LSD occurrence and control in South-East Europe

Standing Group of Experts on Lumpy Skin Disease in the South East Europe region under the GF-TADs umbrella
Eighth meeting (SGE LSD8)
28 May 2019, Paris, France
Lumpy Skin Disease in South East Europe

- Occurrence and control measures
- International Coordination
- European Union support
- Future trends - Concluding remarks
LSD global evolution: 2005 - 2013

Source: EFSA Journal 2015;13(1):3986, EFSA opinion on LSD, Jan 2015, info from OIE
LSD in SE Europe: situation in 2013 – 2015

- August 2013, 1st confirmation of LSD in Turkey
- May 2015
- August 2015
LSD in SE Europe in 2015

LSD epidemiological situation January - Dec 2015 (ADNS + country reports)

Greece: 117
(Aug-Dec 2015)

LSD outbreaks in SE Europe
(Jan – Dec 2015)

Greece
Aug 2015, 1st occurrence of LSD

LSD outbreaks
01.01-31.12.2015 (ADNS)
LSD in SE Europe in 2016

LSD epidemio logical situation January-Dec 2016 (ADNS + country reports)

➢ Greece: 104 (ADNS) (last on Nov 2016)
➢ Bulgaria: 217 (ADNS) (last on Aug 2016)
➢ North Macedonia: 1,591 (Sep. report)
➢ Serbia: 225 (ADNS) (last on Oct 2016)
➢ Kosovo*: 1,415 (EFSA report)
➢ Montenegro: 436 (EFSA rep.)
➢ Albania: 3,647 (EFSA report)

* 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 outbreaks in SE Europe (Jan – Dec 2016)

- Greece: 104 (ADNS) (last on Nov 2016)
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LSD outbreaks

01.01-30.11.2016 (ADNS)
LSD in SE Europe in 2017

LSD epidemiological situation January - 30 Sep 2017 (ADNS + country reports)

- **Albania**: 494 (ADNS, 160 with a suspicion date in 2017)
- **Greece**: 2 (ADNS)
- **North Macedonia**: 4 (ADNS)

LSD outbreaks in SE Europe (Jan – Sep 2017)
NO LSD outbreaks reported in any country in the Balkans region (excl. Turkey)
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 the sheep dose)
LSD vaccination in 2015

117 outbreaks in 1 country
(excl. Turkey)

LSD vaccination in 2016

>7,000 outbreaks in 7 countries
(excl. Turkey)
LSD vaccination in 2017

~500 outbreaks in 3 countries (excl. Turkey)

- Completion of annual vaccination
- Vaccination in progress
- Cease of vaccination
- LSD outbreaks (ADNS)

LSD vaccination in 2018 (October)

0 outbreaks in 0 countries (excl. Turkey)

GF-TADs, SGE LSD8 (Paris, 28 May 2019)
**LSD vaccination in 2019 (excl. Turkey)**

*(planned / in progress)*

- **Annual revaccination of all cattle (planned / in progress)**
  - Albania, Bulgaria, Greece, North Macedonia, Kosovo*, Montenegro, Serbia (southern districts)

- **Vaccination of imported cattle and calves >6 mon.**
  - Serbia (northern districts)

- **Cease of vaccination**
  - Bosnia and Herzegovina

**0 outbreaks in 0 countries (as at May 2019)**

*(excl. Turkey)*
EFSA : LSD vaccination progress and reported LSD outbreaks in SE Europe

Video available at:


or

https://www.youtube.com/watch?v=RoUCCGLeAtk
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 & 4 reports published to date).
  - EUVET expert missions (on-the-spot technical support upon country request)
  - EU Reference Laboratory for LSD (technical support for National LSD Laboratories)

- **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)


<table>
<thead>
<tr>
<th>Year</th>
<th>Country</th>
<th>Doses granted</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>Bulgaria, Greece, North Macedonia, Serbia, Kosovo*, Albania, Montenegro, Croatia</td>
<td>625,000</td>
</tr>
<tr>
<td>2017</td>
<td>Bosnia &amp; Herzegovina, Montenegro, Greece, Albania, Kosovo*</td>
<td>325,000</td>
</tr>
<tr>
<td>2018</td>
<td>North Macedonia, Kosovo*, Montenegro, Greece, Albania, Georgia</td>
<td>876,000</td>
</tr>
<tr>
<td>2019</td>
<td>North Macedonia</td>
<td>150,000</td>
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<tr>
<td></td>
<td>Kosovo*</td>
<td>190,000</td>
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<tr>
<td></td>
<td>Montenegro</td>
<td>80,000</td>
</tr>
<tr>
<td></td>
<td>Albania</td>
<td>250,000 (in progress)</td>
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<tr>
<td></td>
<td></td>
<td><strong>670,000</strong> (carried out + planned)</td>
</tr>
</tbody>
</table>

#### Total Remaining capacity (physical stock + future orders) ~1,2 million doses.

#### New contract signed for an additional 1,8 million doses

**2,246,000 doses of LSD vaccine (live-homologous) granted to date to 10 countries (EU + non EU MS)**
International Cooperation on LSD

11-12 May 2016: Joint EFSA –DG SANTE Workshop on LSD in SE Europe (Brussels)

4-5 July 2016: Kick-off meeting (Brussels) of the “Standing Group of Experts on Lumpy Skin Disease in the South East Europe region under the GF-TADs umbrella” to build up a closer cooperation among countries affected by Lumpy Skin disease (LSD) and thereby, address the disease in a more collaborative and harmonised manner across the region.

Every Year: 1 Teleconf. (e.g. Feb), 1 “Short meeting” (May/OIE), 1 “Full meeting” (e.g. October)

2016 – Todate: 9 meetings, 3 teleconferences

Last “Full meeting”: 18-19 Oct 2018 (Ohrid, North Macedonia)

Next “Full meeting”: Autumn 2019 (TBD)

8-9 Sep 2016: Ministerial Conference on Lumpy Skin Disease (Sofia-Bulgaria)

Chief Veterinary Officers + Ministers of all countries in the region of South East Europe, along with the European Commission (and Commissioner Andriukaitis himself).

Major Breakthrough !!!

A coordinated regional LSD control policy, with EU support, agreed by the CVOs and officially approved by their Ministers
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 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).
No LSD outbreaks in the Balkans since 2018

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 planned/in progress in the other countries of SE Europe in 2019, as discussed during the GF TADs SGE LSD 7 meeting (Ohrid, 18-19 October 2018).

Possible Future Trends (provided that the favorable LSD situation continues): Disengagement, from LSD annual re-vaccination, of additional countries/regions in SE Europe after 2019, with a view to establish systematic LSD surveillance in those countries/zones where LSD vaccination stops.
Regional LSD vaccination strategy in South East Europe
(in place since 2016)

- Effective Regional Coordination

- Effective implementation of a Regional LSD control strategy
  mass vaccination with homologous vaccines (except Turkey)

- Favourable evolution of LSD in the area of SE Europe (Balkan peninsula) in 2016, 2017, 2018 and 2019 – to date

- Constant reduction/containment and eventually elimination of LSD outbreaks since 2016

- No further spread of LSD beyond the boundaries of the 2016 affected countries
THANK YOU

SPECIAL THANKS

to all colleagues in the countries of South East Europe that contribute to this common effort !!!