

# WOAH Regional Workshop - Accelerating the Operationalisation of the One Health Joint Plan of Action (OHJPA) in Veterinary Services in the European Region

## Food borne outbreak - Intersectoral Cooperation in Austria using an example

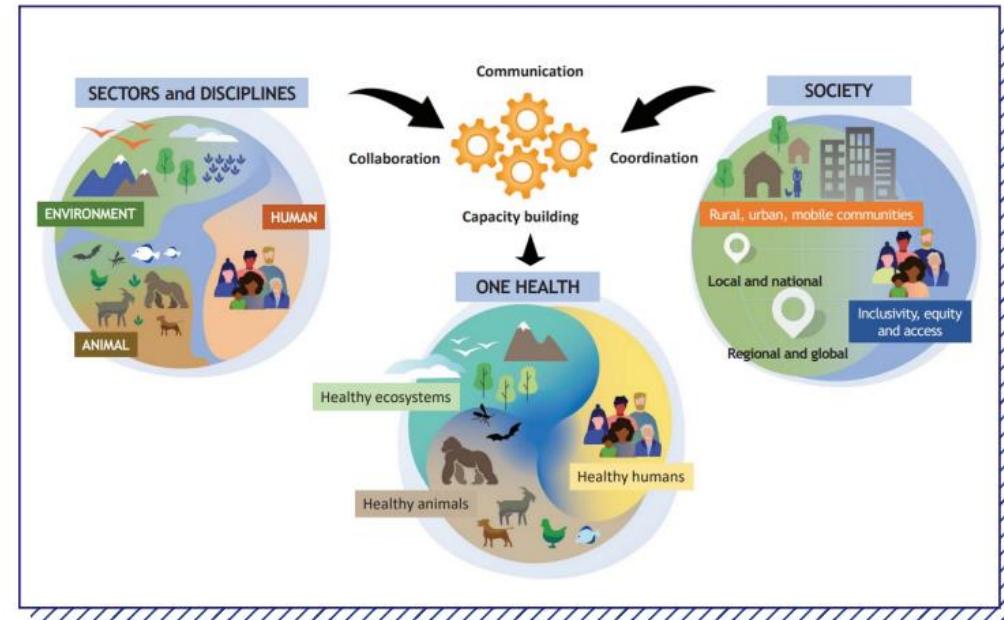
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Federal Ministry of Labour, Social Affairs, Health, Care and Consumer Protection

Vienna, 19.11.2025 (18-20 November 2025 - Athens, Greece)

# The One Health Approach

- The need for practical action to put the One Health approach into practice, using the “4Cs”:
  - **communication**,
  - **collaboration**,
  - **coordination**,
  - **and capacity building**.



## National Implementation: Austria

- Zoonoses
  - Cooperation between all involved parties on an legal basis
    - Human- and Animal-Health, Food Safety, Feed Safety
    - On all levels of administration

# AUSTRIA



## 94 Districts of Austria

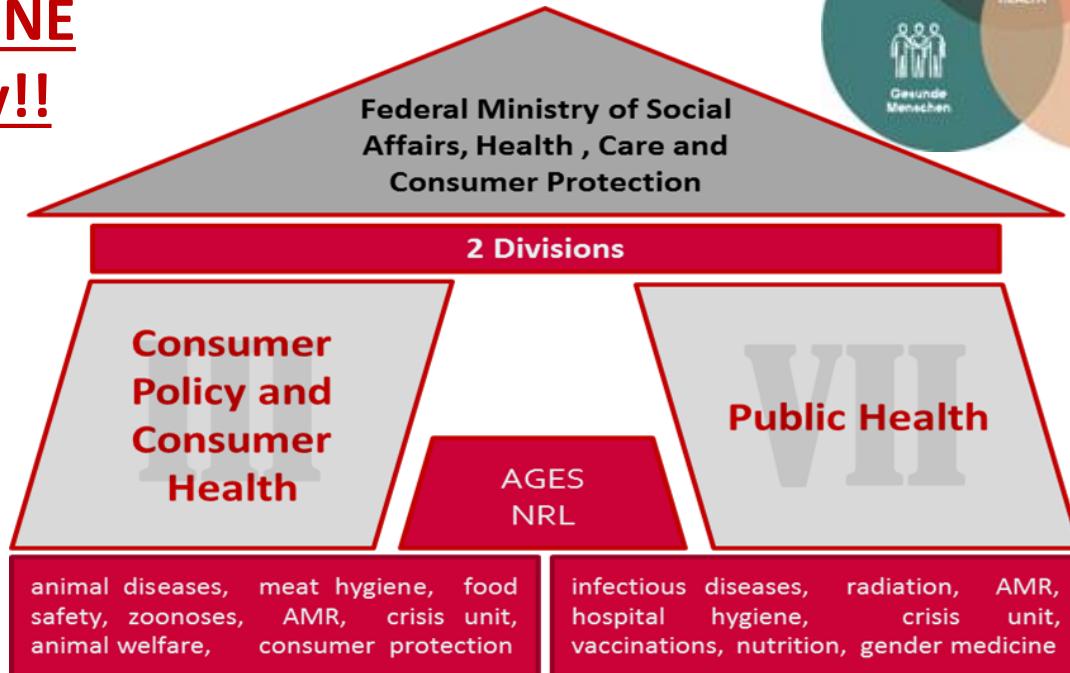
## 9 Federal Provinces (Federal States) of Austria



# Veterinary/Food Safety Administration in Austria

- **Central Veterinary Services/Food Safety Administration** in the Ministry of Labour, Social Affairs, Health, Care and Consumer Protection with **six departments**;  
Chief Veterinary Officer is Head of Section (**CVO**)
- **9 Regional Veterinary Services/Food Safety Administrations** in the provinces coordination by Provincial Veterinary Officer (**PVO**)
- **94 Local Veterinary Services/Food Safety Administrations**, management and coordination by District Veterinary Officer or Food Inspection officer, (**DVO**) executive organ, subordinate to PVO
- Veterinary Meat Inspectors, controlled by DVO....

## ALL in ONE Ministry!!



# Role of the Ministry

- Provide national legal basis
- Confer international legal basis and standards
- International notification
- Ensure necessary data base
- International communication
- **coordinates measures in case more than one province is affected**



World Organisation  
for Animal Health

Bundesministerium  
Soziales, Gesundheit, Pflege  
und Konsumentenschutz

## HANDBUCH

zur Umsetzung der Verbringungsanforderungen  
gemäß Durchführungsverordnung (EU) 2021/605  
mit besonderen Maßnahmen zur Bekämpfung der  
Afrikanischen Schweinepest



sozial  
ministerium

HANDBUCH BL-LMbKA  
zur Vorgehensweise bei bundeslandübergreifenden lebensmittel-  
bedingten Krankheitstraubrüchen (BL-LMbKA)  
1. Auflage  
April 2018

# Legal Framework for handling of zoonoses and food borne outbreaks in Austria

- **Zoonoses Act** (“umbrella” – in force since 01.01.2006)
- **Epidemics Act** (human side)
- **Food Safety and Consumer Protection Act**
- **Feed Act** (Federal Ministry resp. for Agriculture)



# Zoonoses Act

## Regulates:

- the organization of the monitoring/surveillance of zoonoses and zoonotic agents,
- the epidemiological investigation of foodborne outbreaks and
- the exchange of information on zoonoses and zoonotic agents.

## Implements:

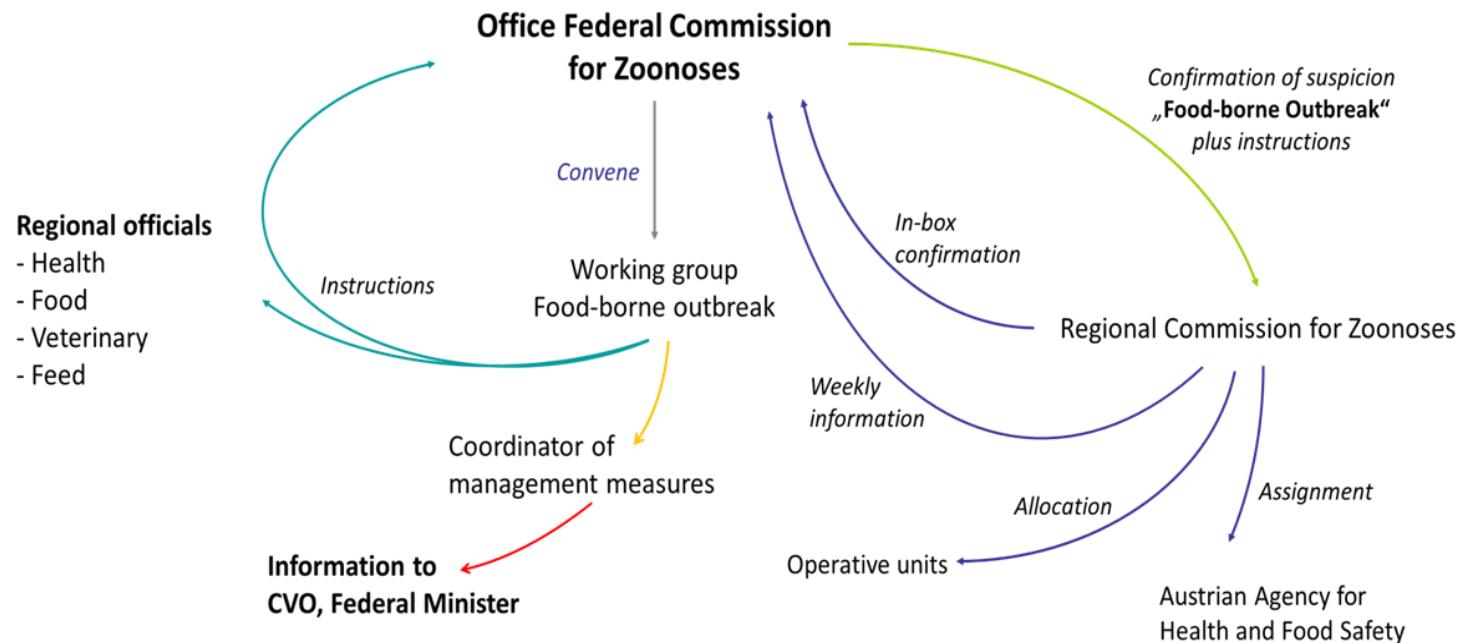
- **Federal Zoonoses Commission**
  - exchange of general information and, if necessary, specific data
  - ensure the effective and continuous cooperation of the work areas concerned
  - in determining the necessary measures and reporting on foodborne disease outbreaks across national borders
- Coordination of zoonosis in the federal states = Governor is responsible
- National Reference Laboratories;
- List of zoonoses and zoonotic agents....

# Federal Zoonoses Commission – Members

Information  
exchange  
(at least)  
2x / year

- Animal Health: Control + Surveillance (ministry)
- Veterinary Public Health (ministry)
- Food affairs (ministry)
- Public Health (ministry)
- Feed (ministry)
- Defense (ministry)
- Austrian Agency AGES
- Heads of provincial commissions (9)
- Further experts if required (science)

Provincial Chief Veterinary  
Director  
Provincial Chief Sanitary  
Director



## Epidemics Act

- § 1: Notifiable diseases: Suspicion, morbidity and deaths from ... infectious hepatitis (hepatitis A, B, C, D, E, G),.... bacterial and viral food poisoning, ...
- The responsible Federal Minister for Health has an electronic register in form of an information network system
- Special provisions relating to zoonoses: Laboratories that diagnose zoonotic agents..., have to send the corresponding isolates to the competent national reference laboratory for further examination
- If there is a spatially and temporally frequent occurrence of zoonotic agents in a federal state (9) or regions the NRLs are obliged to report immediately

# Food Safety and Consumer Protection “Austrian Speciality”

- Duties of “food business operators”



- If “food business operator” does not fulfill the obligation:

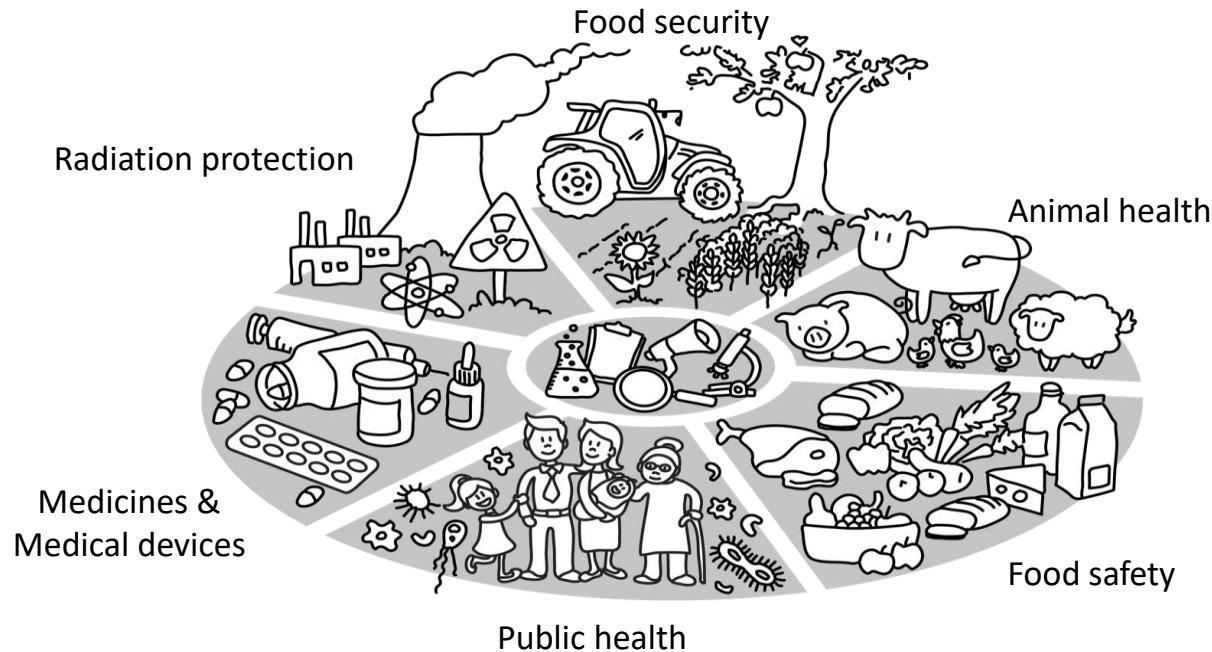
- Laboratories which investigate the presence of zoonoses / zoonotic agents shall **immediately**, but **no later than 2 days**, send **isolates to the NRL** (anonymized - with reference to product group).

## BENEFIT „ALL IN ONE NRL“

- All samples are known (human/food)
- Easy comparison
- Investigations can start immediately

## Agency for Health and Food Safety - AGES

stands for protecting the health of humans, animals, plants and soil and for food security.“



## LOCATIONS

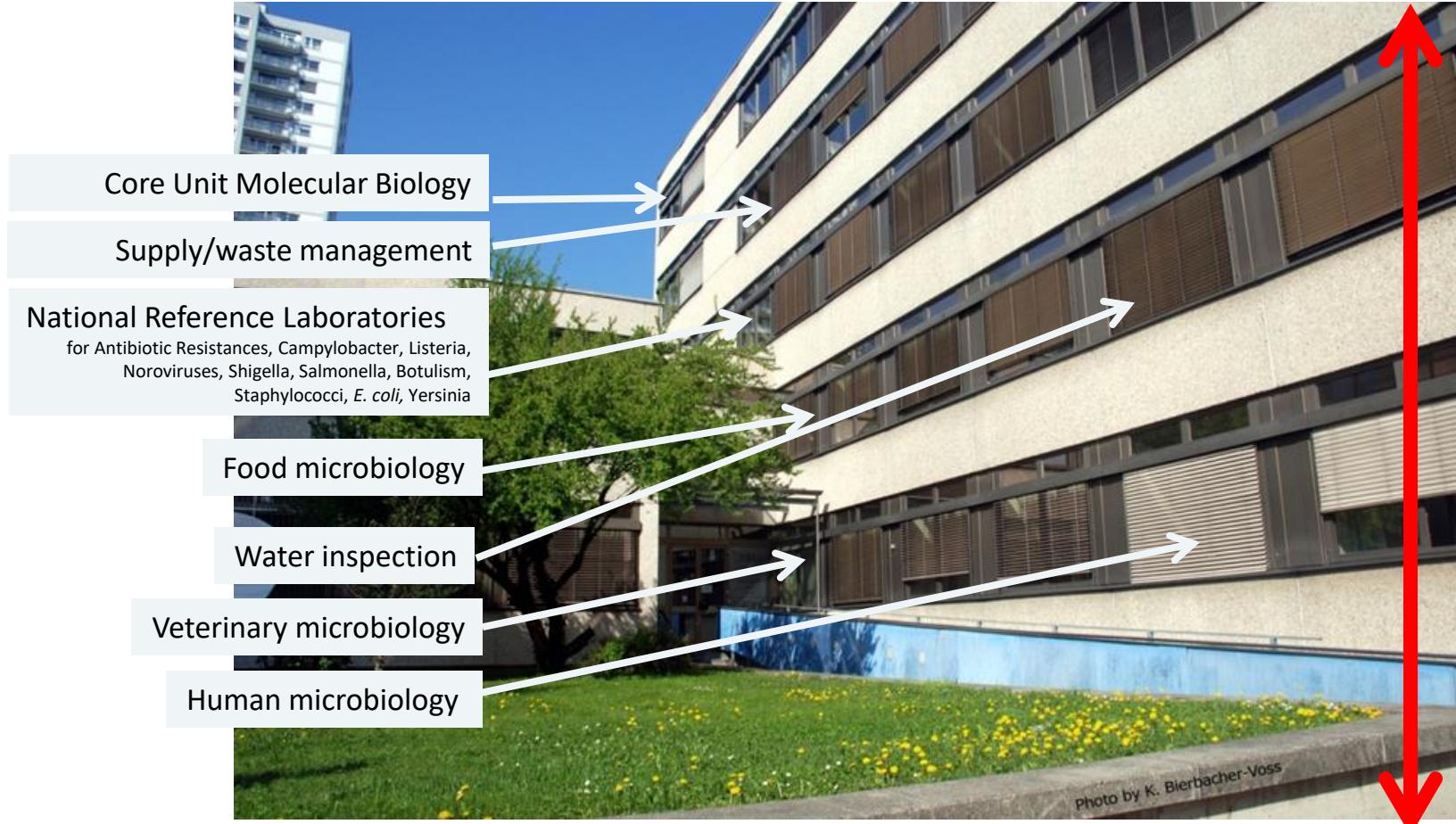


**Vienna**  
Possingergasse 38, 1160 Vienna  
Spargelfeldstr. 191, 1220 Vienna  
Traisengasse 5, 1200 Vienna  
Währinger Str. 25a, 1096 Vienna

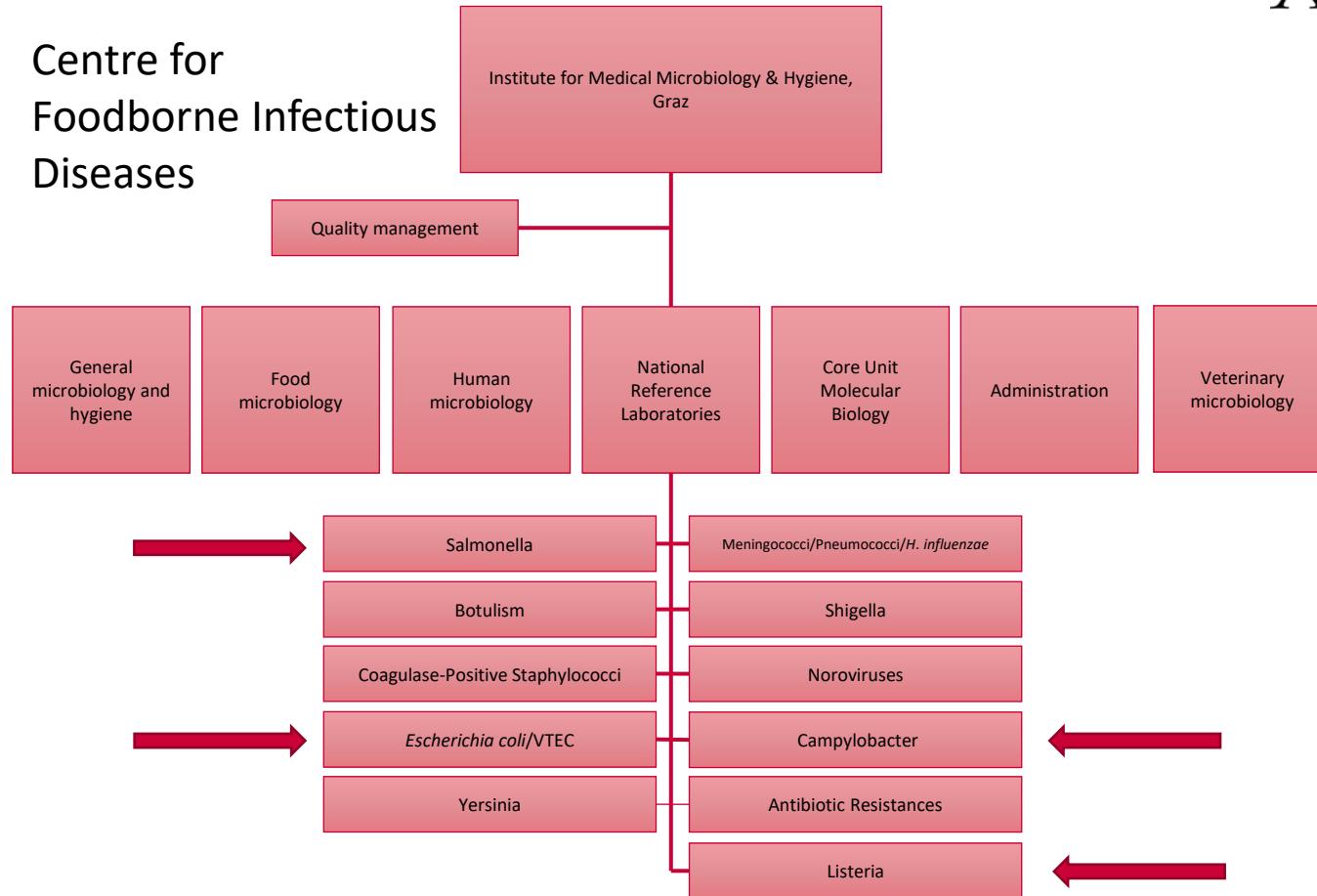
**Linz**  
Wieningerstr. 8, 4020 Linz  
**Mödling**  
Robert-Koch-Gasse 17  
2340 Mödling

**Innsbruck**  
Technikerstr. 70, 6020 Innsbruck  
**Salzburg**  
Innsbrucker Bundesstraße 47  
5020 Salzburg

**Graz**  
Beethovenstr. 6, 8010 Graz  
Zinzendorfg. 27/2, 8010 Graz



# Centre for Foodborne Infectious Diseases



# **Cross-State Foodborne Disease Outbreak – „03 2025 *Salmonella Enteritidis* Styria**

**Outbreak Management Austria**

**13.05.2025 – 05.11.2025**

## Example of an Outbreak Investigation with Task Force Structures in Austria - Start

Transmission of the suspicion-report on a foodborne disease outbreak across Austria that was triggered by **Salmonella Enteritidis** to the Federal Ministry:

- On May 12, 2025, AGES reported a **suspected case of a foodborne outbreak** caused by **Salmonella Enteritidis** to the Federal Ministry of Labour, Social Affairs, and Consumer Protection (BMASGPK).
- From December 2024 to April 2025, the National Reference Center for Salmonella (NRZS)/AGES registered **six cases** of infection with **Salmonella enterica subsp. enterica serovar Enteritidis (S. Enteritidis) SequenceType (ST) 11 ComplexType (CT) 14117**

- If a suspected case of a food borne outbreak exists, predetermined steps must be followed due to legal or internal requirements
  - in order to ensure that nothing is forgotten during the investigation,
  - that all persons involved are informed of the current status of the investigation, and
  - that the investigation is carried out as quickly as possible.

## →**Federal Zoonoses Commission called Task Force into action on 16.05.2025**

- **Case definition:**
  - A confirmed outbreak case is a person (1) residing in Austria, and (2) in whom an infection with *S. Enteritidis*, based on *S. Enteritidis* cgMLST belonging to ST 11 CT 14117, has been detected from 1 December 2024 and whose isolates do not differ by more than 2 alleles.

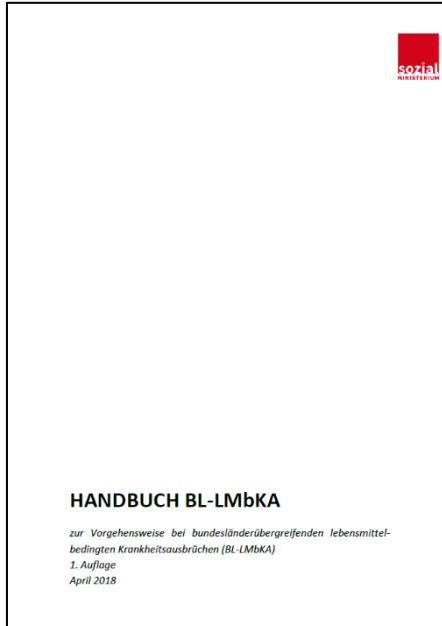
## Investigation in suspected cases

- A binding, joint procedure was established by decree to ensure the investigation of suspected or confirmed foodborne illness outbreaks across federal states (regarding Federal Law on Food Safety)
  - guarantees the best possible flow of information.
- This procedure includes, among other things, the following points (examples provided): Reference to the respective legal obligations at the federal and state levels/Hierarchy – Responsibilities/Information on sample collection/framework for commissioning Austrian Agency for Health and Food Safety experts to investigate a foodborne illness outbreak/obligations of these experts/guidelines for the preparation of reports (weekly reports, final reports, etc.)/specification of timelines and deadlines for these reports/confidentiality/information flow....

## Appointed experts according to ZoonG

- The Federal Minister may appoint members of the Federal Commission for Zoonoses or **other experts to investigate zoonotic outbreaks.**
- These experts are authorized, in the event of zoonotic outbreaks affecting multiple federal states, to **inspect all relevant documents, make copies of them, and contact patients and food companies directly**, insofar as this is necessary to prepare for the investigation of the outbreak, while maintaining official confidentiality and complying with all data protection requirements.

# Example of an Outbreak Investigation with Task Force Structures in Austria



BL-LMbKA

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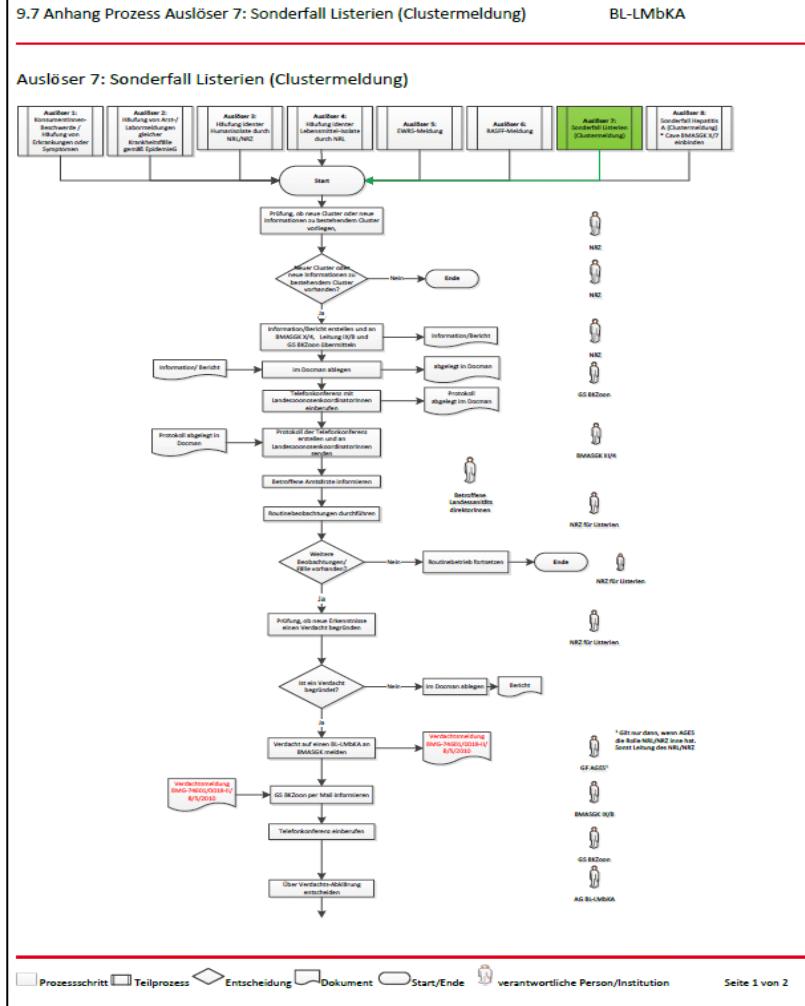
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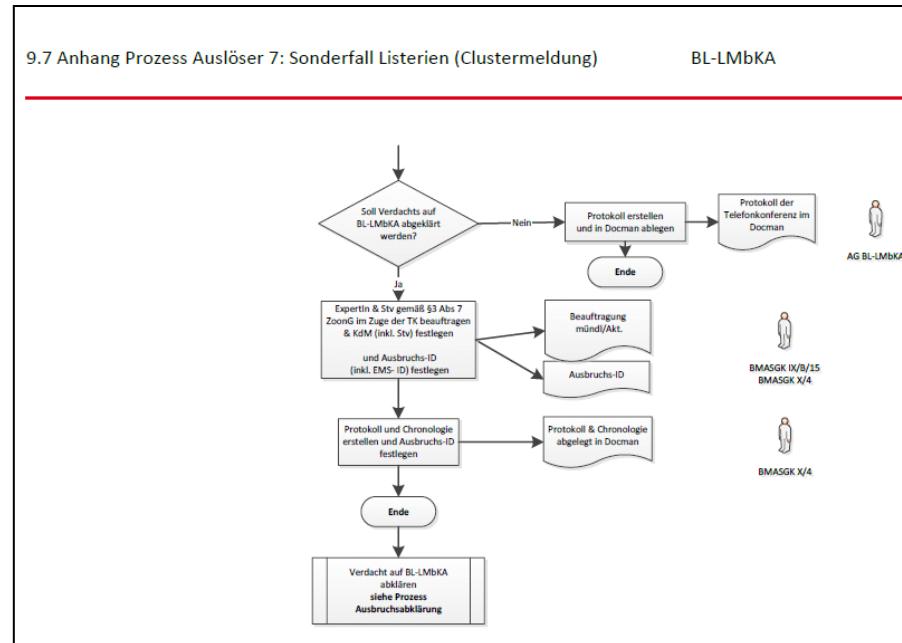
BL-LMbKA

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# Outbreak Investigation Steps I



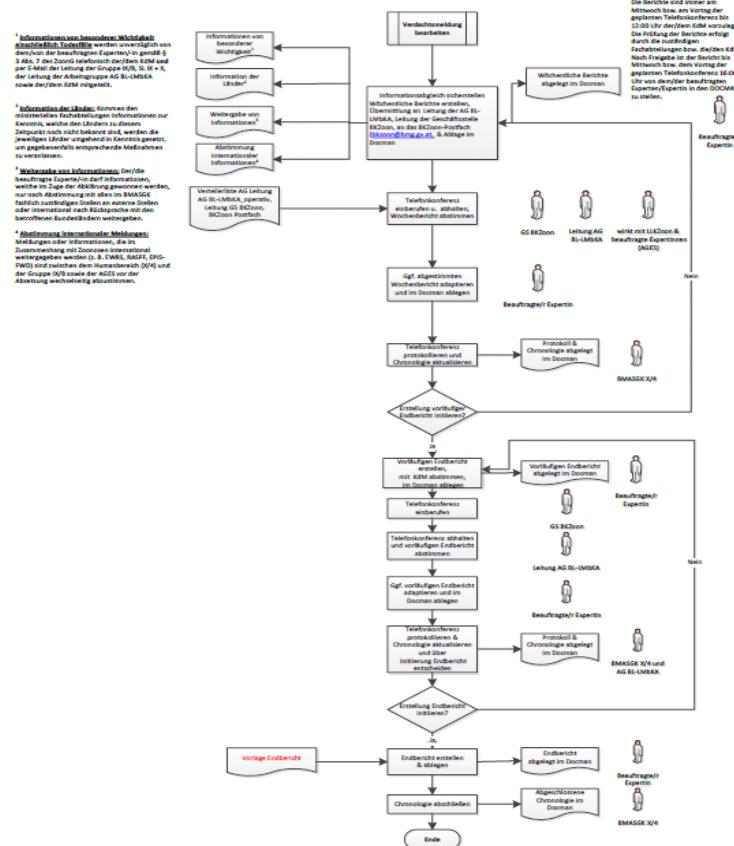
# Outbreak Investigation Steps II



# Outbreak Investigation Steps III

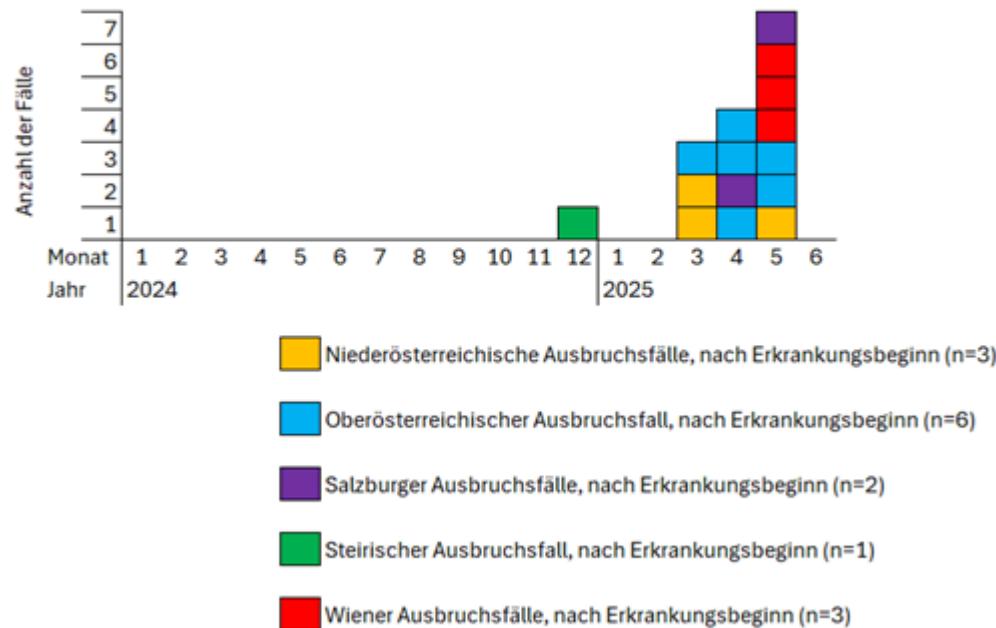
## 9.9 Anhang Prozess: Ausbruchsabklärung BL-LMbKA

### Prozess: Ausbruchsabklärung

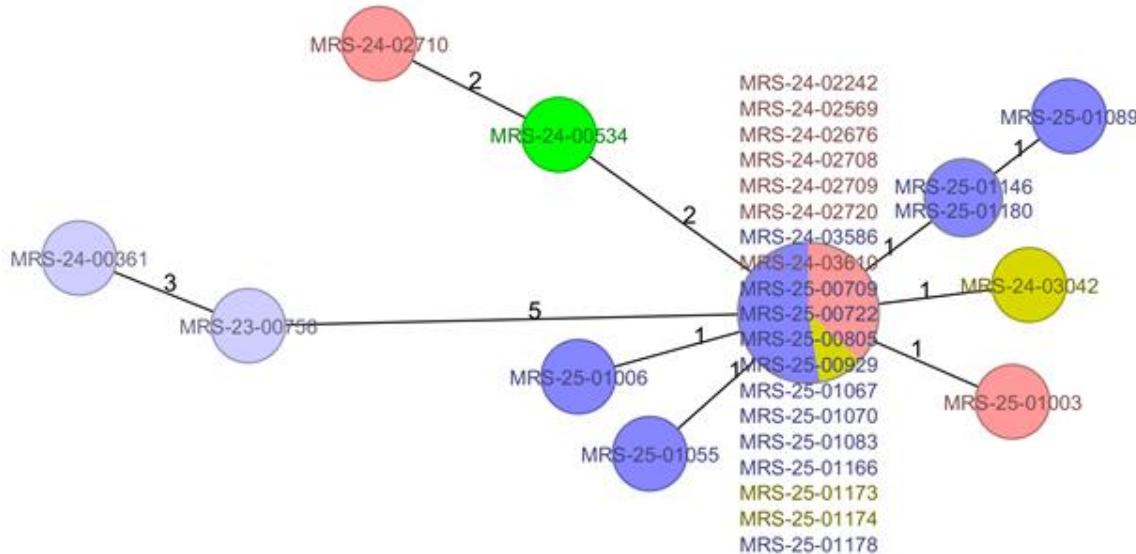


# Human Cases at the beginning (22.05.2025)

Abbildung 1: *Salmonella Enteritidis ST 11 CT 14117* Ausbruchsfälle (n = 15) nach Monat (nach Erkrankungsbeginn) und Bundesland des Wohnorts, Österreich, 2024-2025. Datenstand: 22.05.2025



# 1. Minimum spanning tree (at the beginning)

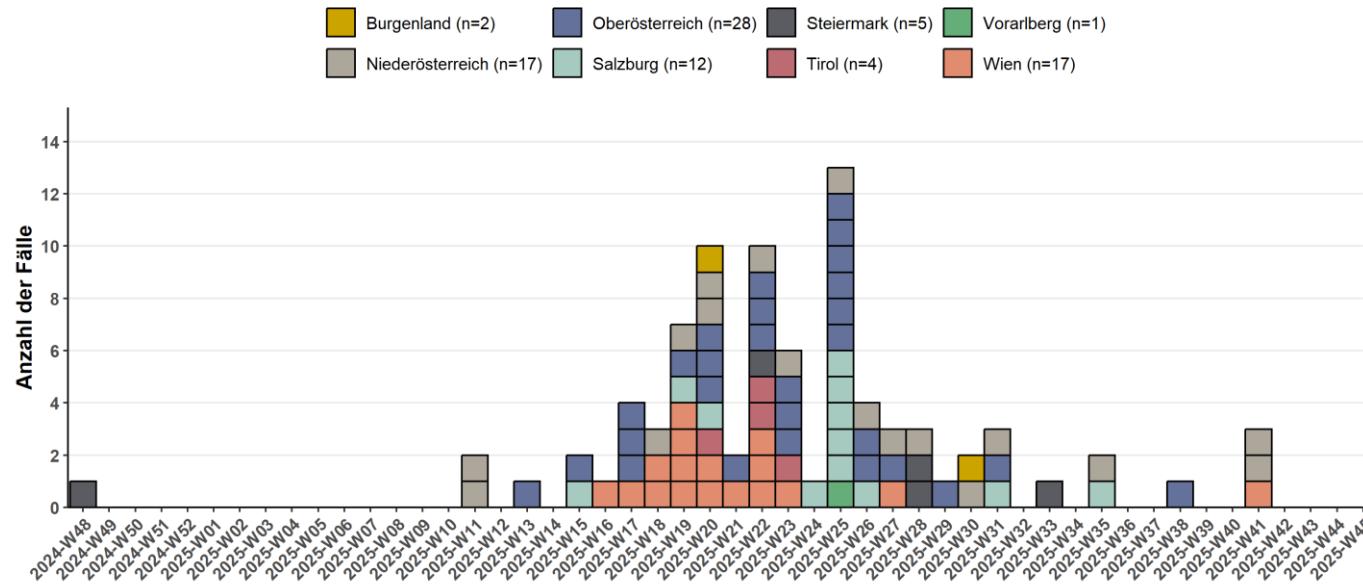


- 17 human isolates are shown in purple, of which 15 confirmed outbreak cases are shown in dark purple. The isolate from case 2 (onset of illness in March 2025) was used as the reference strain. The two cases not included in the cluster are shown in light purple.
- Furthermore, 14 isolates from veterinary samples from animal farms are shown in red.
- One food isolate is shown in green.
- Three olive-green isolates were classified as environmental isolates.

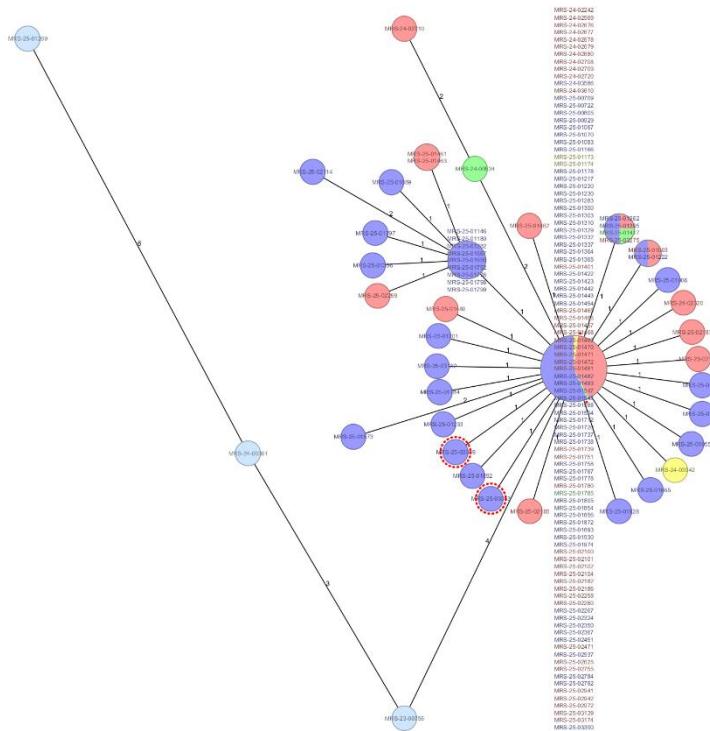
# Meanwhile

- 24. weekly reports
- more than 13 videoconferences with federal states, AGES – human-, veterinarian- and feedstuff side
- thousands of hours of research
- Exploratory interviews with the patients
- On site inspections
- EPI-PULSE reports

# Human Cases (86, 05.11.2025)



# Actual minimum spanning tree (05.11.2025)

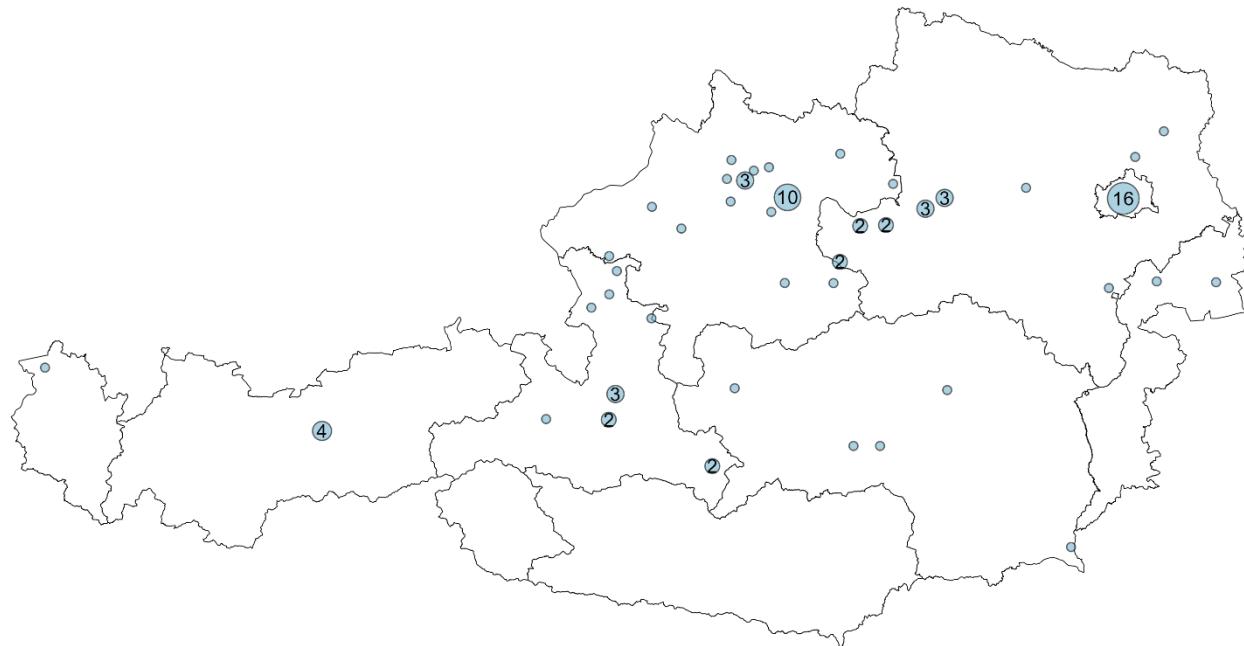


- 89 human isolates are shown, of which 86 confirmed outbreak cases are shown in purple. The isolate from case 2 (onset of illness March 2025) was used as the reference strain. Three cases not belonging to the cluster are shown in light blue.
- 46 isolates from veterinary samples from animal farms are shown in red.
- Three food isolates are shown in green.
- Three yellow isolates were classified as environmental isolates.

# Shopping habits

Federal State	Exposure to purchasing behavior	Retail: Billa, Billa Plus	Retail: Hofer	Retail: Spar, Eurospar, Interspar	Retail: Penny	Retail: Lidl
Stmk	Fall 1	X	X	X		X
NÖ	Fall 2	X	X	X		
NÖ	Fall 3	X	X	X		
S	Fall 6	X	X	X		
OÖ	Fall 7	X	X	X		
OÖ	Fall 9	X	X	X		X
NÖ	Fall 10	X	X		X	
OÖ	Fall 12	X	X	X		X
OÖ	Fall 17	X		X		
NÖ	Fall 18			X		
W	Fall 20	X	X			
W	Fall 22			X	X	
S	Fall 31	X		X		
NÖ	Fall 37	X		X	X	X
W	Fall 38	X		X	X	
OÖ	Fall 39		X			X
OÖ	Fall 40	X	X	X		
OÖ	Fall 43	X	X	X		X
Stmk	Fall 46	X		X		
OÖ	Fall 42		X	X		
OÖ	Fall 50				X	
OÖ	Fall 53	X		X		X
S	Fall 54		X	X	X	X
OÖ	Fall 56	X	X	X		
OÖ	Fall 60			X		
S	Fall 61	X	X	X		
OÖ	Fall 74	X		X		
NÖ	Fall 82				X	X
OÖ	Fall 83	X		X		
NÖ	Fall 84	X	X	X		X
NÖ	Fall 85	X		X		X
Total Cases n = 31		23	17	25	8	12

# Latest Status – regional distribution of human cases



## Probable source of the outbreak

- Several laying hen flocks and halls at various locations of one single company
  - Measures
    - marketing bans
    - in some cases, slaughter of the flock
- Further positive clusters emerged during the course of the investigation in other regions.
  - all herds that tested positive should have been slaughtered by now.
- We hope that no new human cases will emerge.

# Further Information - Chronology (>40 pages)

<p>Formblatt für Berichte von bundesländerübergreifenden lebensmittelbedingten Krankheitsausbrüchen an und den Vorsitzenden der Bundeszoonosenkommission, E-Mail <a href="mailto:florian.fellinger@bmfsfj.gv.at">florian.fellinger@bmfsfj.gv.at</a>, <a href="mailto:bkzoon@bmfsfj.gv.at">bkzoon@bmfsfj.gv.at</a> und Ablage im DOCMAN</p>	
<p>Wochenbericht zu einem bundesländerübergreifenden, lebensmittelbedingten Krankheitsausbruch (BL-LMbKA)</p>	
<p>BMASGK-Ausbruchs ID: 1/2018/Listeria monocytogenes Serogruppe II/CT1234/Wien Datum: 01.07.2018</p>	
<p>Für das Bundesland/Bundesländer:  <input type="checkbox"/> B<sup>1</sup> <input type="checkbox"/> K<sup>2</sup> <input checked="" type="checkbox"/> NÖ<sup>3</sup> <input type="checkbox"/> OÖ<sup>4</sup> <input type="checkbox"/> S<sup>5</sup> <input type="checkbox"/> ST<sup>6</sup> <input type="checkbox"/> T<sup>7</sup> <input type="checkbox"/> V<sup>8</sup> <input checked="" type="checkbox"/> W<sup>9</sup></p>	
<p>Für den Bericht verantwortlich:          Priv. Doz. Dr. med. Daniela Schmid MSc / Sabine Maritschnik MPH, RD  <a href="mailto:daniela.schmid@ages.at">daniela.schmid@ages.at</a>          AGES, Geschäftsführer Öffentliche Gesundheit          1096 Wien, Währingerstraße 25a          Tel. +43 (0) 50555-37804 Mobile: +43 (0) 664 839 80 66</p>	
<p><input type="checkbox"/> Erster Bericht<sup>10</sup> <input type="checkbox"/> Weitere wöchentlicher Bericht, fortlaufende Nr.:  <input type="checkbox"/> Vorläufiger Endbericht<sup>11</sup> <input type="checkbox"/> Keine neuen Erkenntnisse verglichen mit dem Bericht der Vorwoche<sup>12</sup> <input checked="" type="checkbox"/> Endbericht FINAL<sup>13</sup></p>	
<p>Lebensmittelbedingter Krankheitsausbruch<sup>14</sup> <input type="checkbox"/> Verdächtigt <input checked="" type="checkbox"/> Bestätigt</p>	
<p>Beginn der Ausbruchsanalysezeitung 26. Jänner 2018 <input type="checkbox"/> 01. Juli 2018</p>	
<p>Einstellung der Erhebungen</p>	
<p>Allgemeine Beschreibung des Ausbruchs<sup>15</sup></p>	
<p>Hintergrund          Am 25.01.2018, macht die AGES an das BMASGK eine Verdachtsmeldung zu einem BL-LMbKAusbruch, verursacht durch <i>Listeria (L.) monocytogenes</i> ClusterType CT1234 basierend auf der Typisierungsmethode cgMLST. In Österreich wurde erstmals im Jahr 2015 bei einem Fall von Listeriose dieser Stamm nachgewiesen.          Von Jänner 2015 bis Jänner 2018 traten insgesamt 7 Fälle einer Infektion mit diesem Stamm, <i>L. monocytogenes</i> Sg II/MLST155/CT1234 in den Bundesländern Niederösterreich, Oberösterreich und Wien auf. Diese unterscheiden sich innerhalb des Clusters CT1234 von einander mit 0-2 Allelen (i.e. CT1234_1-CT1234_7). In einer Konferenz mit der AG-LMbKA am 26.01.2018 wurde die Abt. Surveillance/Infektionsepidemiologie (Dr. Schmid/S. Maritschnik) der AGES mündlich beauftragt, den BL-LMbKA, verursacht durch <i>L. monocytogenes</i> Sg II/MLST155/CT1234 zu untersuchen. Dieser mündlichen Beauftragung folgte am 29.1.2018 die schriftliche Auführung.</p>	
<p>Verursachendes Agens<sup>16</sup> <input checked="" type="checkbox"/> Verdächtigt <input type="checkbox"/> bestätigt <i>L. monocytogenes</i> Sg II/MLST155/CT1234</p>	
<p>Die Ausbruchsfalldefinition ist mit der EU Falldefinition akkordiert          A confirmed outbreak case          is defined as a laboratory-confirmed invasive listeriosis due to <i>L. monocytogenes</i> serogroup (Sg) II (i.e. 1/2) in a patient with symptoms onset on or after 1 January 2015 and before 1 January 2016.</p>	
<p>Ausbruchsfalldefinition<sup>17</sup></p>	
<p>Fulfilling the additional laboratory criterion: with <i>Listeria monocytogenes</i> having ≥2 cgMLST allelic differences from the human isolate at MLRT-15-01329 based on cgMLST analysis, equal to outbreak strain, <i>L. monocytogenes</i> Sg II/MLST155/CT1234 (assembly unit added to EPIS 0f-460 as WGS_MRL-15-01329 test). The cgMLST scheme is either that of Moura et al. (2008), Rappitzsch et al. (2015) or a respective scheme.          OR          Fulfilling the additional laboratory criterion: with <i>Listeria monocytogenes</i> within 2 SNP cluster from the human isolate AT_MRL-15-01329 based on SNP analysis (assembly</p>	

Stand: 01.07.2018

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BL-LMbKA 1/2018 – *Listeria monocytogenes* CT1234/Wien

Stand: April 2018

CHRONOLOGIE: BL-LMbKA 1/2018 – *Listeria monocytogenes* CT1234/Wien

Datum:	Meldende Stelle:	Nachricht:
25.01.2018	ALLERBERGER (AGES)	Übermittlung der Verdachtsmeldung über einen bundesländerübergreifenden lebensmittelbedingten Krankheitsausbruch ausgelöst durch <i>Listeria monocytogenes</i> CT1234 an das BMASGK. 7 Humanfälle sind seit Jänner 2015 in 3 Bundesländern (NÖ=5; OÖ=1; Wien=1) aufgetreten. Die Fälle sind im Rahmen der Abklärung von 2 Listeriose-Erkrankungen des Jahres 2017 mittels einer neu eingeführten Typisierungsmethode (NGS=Next Generation Sequencing) auffällig geworden.
25.01.2018	ALLERBERGER (AGES)	FWD EPIS-Meldung abgesetzt. <i>"In Austria, we are currently investigating an outbreak of Listeria monocytogenes Ila. Since 2015 we have seven notified cases clustering on WGS. Patients were 29-97 years old, 5 female and 2 male. Comparison to food isolates revealed that numerous meat products, all produced in one Austrian facility, yielded the outbreak strain (27 positive food/environment-samples so far). RASFF notification pending. We would like to know if other countries have seen cases, that could be related to this outbreak."</i>
25.01.2018	BMASGK IX/B/15	Einladung zur 1. Telefonkonferenz am 26. Jänner 2018
25.01.2018	BMASGK IX/B/15	Übermittlung der Verdachtsmeldung über einen BL-LMbKA ausgelöst durch <i>Listeria monocytogenes</i> CT1234 an die Arbeitsgruppe BL-LMbKA
26.01.2018	AG BL-LMbKA	1. Telefonkonferenz der AG-BL-LMbKA zu 1/2018 Es handelt sich um einen BL-LMbKA mit derzeit 7 Humanfällen, alle hospitalisiert, darunter 1 Todesfall mit Listeriose Sepsis. Die Fälle traten seit 2015 überwiegend in Österreich auf. 27 Isolate aus Privatproben mit kaum unterscheidbarem NGS-Muster konnten auf denselben Herstellungsbetrieb zurückgeführt werden - Steffri Frischteam Halper GmbH, Steinbrückl 21, 7531 Kemeten. Eine amtliche Probe, gezogen von der burgenländischen Behörde am 22.11.2017, hat ein vom Ausbruchsstamm CT1234 nicht unterscheidbares LM-Isolat ergeben.

# Thank you for your attention!

Florian Fellinger  
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