

Joint report on zoonoses, foodborne and waterborne diseases in the Slovak Republic in 2017 – outcomes and next steps

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Background for the Risk Assessment

Joint report on zoonoses, foodborne and waterborne diseases in the Slovak Republic

SPRÁVA o zoonózach, alimentárnych nákazách a nákazách z vody

SPRÁVA o zoonózach a pôvodcoch zoonóz v Slovenskej Republike za rok 2009

SPRÁVA o zoonózach a pôvodcoch zoonóz v Slovenskej Republike za rok 2008

SPRÁVA o zoonózach, pôvodcoch zoonóz a alimentárnych nákazách v Slovenskej Republike za rok 2013

SPOLOCNÁ OCHRANA ZDRAVIA LUDÍ A ZDRAVIA ZVIERAT

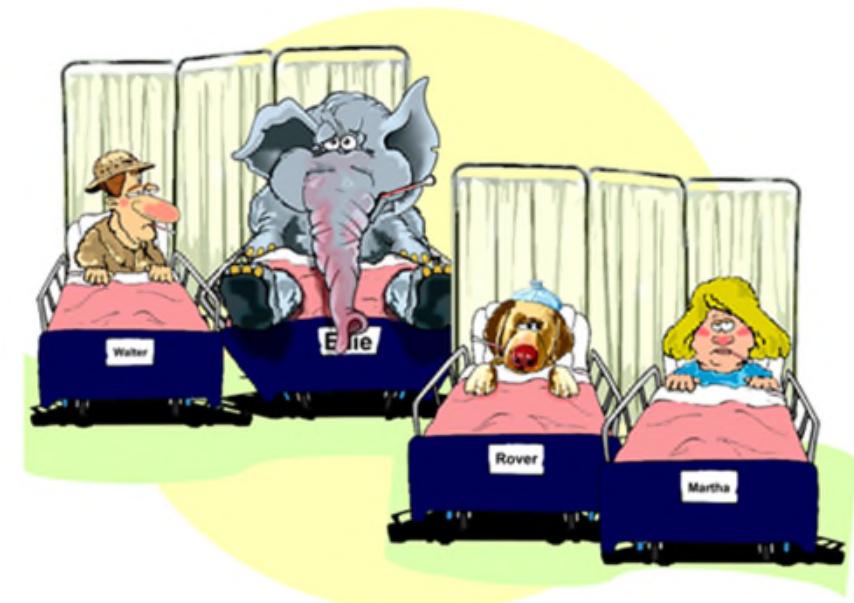
Joint report on zoonoses, foodborne and waterborne diseases in the Slovak Republic

Years covered: 2008 – 2017

**In cooperation with experts from the control and
research in the area of human and animal health and
environment**

Structure:

- by causative agents
- humans - epidemiological situation
- animals - epizootological situation
- foodstuffs
- feed
- environment, water
- antimicrobial resistance



Joint report on zoonoses, foodborne and waterborne diseases in the Slovak Republic in 2017

Authors: 77 experts from 25 organisations

- ❖ NFP EFSA - Ministry of Agriculture and Rural Developemnt of the SR;
- ❖ Food Research Institute, Bratislava;
- ❖ State Veterinary and Food Administration of the SR;
- ❖ Veterinary and Food Institute, Bratislava; Dolný Kubín; Košice;
- ❖ Veterinary Institute, Zvolen;
- ❖ Regional Veterinary and Food Authority in Nitra;
- ❖ Public Health Authority of the SR;
- ❖ Regional Public Health Authority Banská Bystrica; Komárno (NRC for *Vibrionaceae*); Košice; Trenčín;
- ❖ Medirex, a.s., member of MEDIREX Group;
- ❖ National Institute of Tuberculosis Vyšné Hágy;
- ❖ **Slovak Academy of Sciences** – Institute of Parasitology Košice;
– BMC Institute of Virology Bratislava;
– Institute of Zoology Bratislava
- ❖ Slovak Medical University, Bratislava;
- ❖ Slovak Technical University, Faculty of Chemical and Food Technology, Bratislava;
- ❖ Comenius University, Faculty of Medicine, Institute of Epidemiology, Bratislava;
- ❖ Pavol Jozef Šafárik University, Faculty of Medicine, Košice;
- ❖ Trnava University, Faculty of Health Care and Social Work, Trnava;
- ❖ University of Veterinary Medicine and Pharmacy, Košice;
- ❖ Water Research Institute, Bratislava;

CONTROL

RESEARCH

Joint report on zoonoses, foodborne and waterborne diseases in the Slovak Republic in 2008

1. *Salmonella* spp.
2. *Escherichia coli*
3. *Yersinia* spp.
4. *Cronobacter* spp.
5. *Shigella* spp.
6. *Plesiomonas shigelloides*
7. *Legionella* spp.
8. *Vibrio* spp.
9. *Aeromonas* spp.
10. *Campylobacter* spp.
11. *Brucella* spp.
12. *Anaplasma phagocytophilum*
13. *Coxiella burnetii*
14. *Francisella tularensis*
15. *Leptospira* spp.
16. *Borrelia* spp.
17. *Chlamydia* spp.
18. *Mycobacterium* spp.
19. *Listeria* spp.
20. *Bacillus anthracis*
21. *Clostridium* spp.
22. *Staphylococcus aureus*
23. *Enterococcus* spp.
24. Lyssavirus
25. Influenza virus
26. Tick-borne encephalitis virus (TBEV)
27. West Nile virus
28. Dengue virus
29. Hantaan virus
30. Norwalk virus
31. Rotavirus
32. Hepatitis A virus (HAV)
33. Hepatitis E virus (HEV)
34. Prions (TSEs)
35. *Toxoplasma gondii*
36. *Plasmodium* spp.
37. *Babesia* spp.
38. *Echinococcus* spp.
39. *Taenia* spp.
40. *Toxocara* spp.
41. *Trichinella* spp.
42. *Anisakis* spp.
43. *Telazia* spp.
44. *Dirofilaria* spp.

Joint report on zoonoses, foodborne and waterborne diseases in the Slovak Republic in 2017

1. <i>Salmonella</i> spp.	24. Lyssavirus
2. <i>Escherichia coli</i>	25. Influenza virus
3. <i>Yersinia</i> spp.	26. Tick-borne encephalitis virus (TBEV)
4. <i>Cronobacter</i> spp.	27. West Nile virus
5. <i>Shigella</i> spp.	28. Dengue virus
6. <i>Plesiomonas shigelloides</i>	29. Hantaan virus
7. <i>Legionella</i> spp.	30. Norwalk virus
8. <i>Vibrio</i> spp.	31. Rotavirus
9. <i>Aeromonas</i> spp.	32. Hepatitis A virus (HAV)
10. <i>Campylobacter</i> spp.	33. Hepatitis E virus (HEV)
11. <i>Brucella</i> spp.	34. Prions (TSEs)
12. <i>Anaplasma phagocytophilum</i>	35. <i>Toxoplasma gondii</i>
13. <i>Coxiella burnetii</i>	36. <i>Plasmodium</i> spp.
14. <i>Francisella tularensis</i>	37. <i>Babesia</i> spp.
15. <i>Leptospira</i> spp.	38. <i>Echinococcus</i> spp.
16. <i>Borrelia</i> spp.	39. <i>Taenia</i> spp.
17. <i>Chlamydia</i> spp.	40. <i>Toxocara</i> spp.
18. <i>Mycobacterium</i> spp.	41. <i>Trichinella</i> spp.
19. <i>Listeria</i> spp.	42. <i>Anisakis</i> spp.
20. <i>Bacillus anthracis</i>	43. <i>Telazia</i> spp.
21. <i>Clostridium</i> spp.	44. <i>Dirofilaria</i> spp.
22. <i>Staphylococcus aureus</i>	
23. <i>Enterococcus</i> spp.	

OUTCOMES – Joint report on zoonoses, foodborne and waterborne diseases in the Slovak Republic in 2017

- **HUMANS – epidemiological situation**
- **25 897** reported human **illnesses** caused by the monitored agents, out of which:
 - 27.3 % campylobacteriosis
 - 24.2 % salmonellosis
 - 19.4 % Rotavirus
 - 10.1 % *Clostridium difficile*
 - 5.5 % Norwalk virus
 - 3.1 % *Borrelia burgdorferi* s.l.
 - 2.6 % Hepatitis A virus.
- **586** reported human **epidemics** caused by **10 monitored agents**, out of which:
 - 51.0 % salmonellosis
 - 20.1% epidemics caused by Rotavirus
 - 19.9 % campylobacteriosis

OUTCOMES – Joint report on zoonoses, foodborne and waterborne diseases in the Slovak Republic in 2017

FOODSTUFFS

- **48 417** food samples were analysed for the presence of **11 monitored agents**;
- **1.5 %** of samples with positive findings;
- higher percentage of positivity was detected for:
 - Anisakis* spp.** (56.4 %)
 - Toxoplasma gondii*** (23.1 %)
 - Enterococcus* spp.** (10.4 %)
 - Escherichia coli / VTEC*** (4.0 %)
 - Staphylococcus aureus*** (2.2 %)
 - Campylobacter* spp.** (2.1 %)
 - Listeria* spp.** (1.0 %)
 - Salmonella* spp.** (0.3 %)

OUTCOMES – Joint report on zoonoses, foodborne and waterborne diseases in the Slovak Republic in 2017

Anisakis simplex

Slovak Republic 2016

Humans: No diseases reported;

Foodstuffs: 16 samples, 1 positive sample (*Scomber scombrus*);



2016, photo: Valentova, VFI Bratislava

Slovak Republic 2017

Humans: No diseases reported;

Foodstuffs: 55 samples, 31 positive samples:

- 1 samples of marinated herring;
- 30 samples of canned fish and products of fish from North East Atlantic;



2017, marinated herring

photo: Valentova, VFI Bratislava



2017, cod liver

photo: Valentova, VFI Bratislava

OUTCOMES – Joint report on zoonoses, foodborne and waterborne diseases in the Slovak Republic in 2017

ANIMALS – epizootological situation

- **1 465 867** samples coming from farmed and wild living animals, pets and zoo animals, were analysed for the presence of **29 monitored zoonotic agents**;
- **0.2 %** of samples with positive findings;
- higher percentage of positivity was detected for:

***Clostridium* spp.** (40.6%)

***Dirofilaria* spp.** (29.9%)

Francisella tularensis (25.2%)

***Babesia* spp.** (23.5%)

Staphylococcus aureus (17.9%)

***Borrelia burdorferi* s.l.** (17.2%)

Tick-borne encephalitis virus (11.2%)

Toxoplasma gondii (10.1 %).

OUTCOMES – Joint report on zoonoses, foodborne and waterborne diseases in the Slovak Republic in 2017

FEED

- 889 feed samples were analysed for the presence of **3 monitored agents**;
- positive findings for: *Escherichia coli* (18.2 % of positive samples)
Clostridium spp. (10.5 % of positive samples)
Salmonella spp. (2.7 % of positive samples)

WATER, ENVIRONMENT

- 148 998 water and environmental samples were analysed for the presence of **9 monitored agents**;
- **2.8 %** of samples with positive findings;
- higher percentage of positivity was detected for: *Legionella spp.* (16.1%)
Escherichia coli (3.9 %)
Clostridium spp. (3.5 %)
Enterococcus spp. (3.3 %)

ANTIMICROBIAL RESISTANCE

- **AMR** monitored in *Salmonella* spp., *E. coli*, *Campylobacter* spp. and *Staphylococcus aureus*.

NEXT STEPS – Joint report on zoonoses, foodborne and waterborne diseases in the Slovak Republic in 2017

MEASURES' DRAFT

- based on epidemiological situation and microbial origin of monitored agents;
- prepared for 12 monitored agents :

***Campylobacter* spp.**

Rotavirus

Toxoplasma gondii

***Salmonella* spp.**

Norwalk virus

***Toxocara* spp.**

Clostridium difficile

Tick-borne encephalitis virus

***Borrelia burgdorferi* s.l.**

Escherichia coli

***Yersinia* spp.**

***Listeria* spp.**



NEXT STEPS – Joint report on zoonoses, foodborne and waterborne diseases in the Slovak Republic in 2017

COMMUNICATION WITH CONSUMERS:

- 1. Webpage of FP**
- 2. Social media – FB of FP**
- 3. Leaflets**
- 4. Consumer association**

The screenshot shows the EFSA website with a sidebar for the National Contact Point for EFSA in Slovakia. The sidebar includes links for Home, About, Reviews, Photos, Events, Posts, Community, Info and ads, and a green 'Create a Page' button.

The Facebook post is from the 'Národný Kontaktný bod EFSA v SR' page. It features a photo of a tick on a person's skin and text about tick-borne diseases. The post has 135 likes, 142 follows, and 135 shares.

The Facebook post is from the 'Knowledge Junction' page. It discusses the Knowledge Junction community and provides a link to a Zenodo page. The post has 135 likes, 142 follows, and 1 like from 'Karol Červenčík'.

VYVARUJTE SA RIZIKU OCHORENIA Z KLEŠŤOV

Vplyvom klimatických zmien môžeme dnes nájsť kliešťe aj vo vysokohorských oblastiach a je preto dôležité na ne myslieť pri každej návštive prírody. Nesmieme však zabudnúť ani na to, že ochorenia sa prenášajú aj surovým mliekom z oviec, kôz a kráv.

AKO SA KLEŠŤOM VYHNÚŤ?

- Používajte repelenty na telo a oblečenie
- Noste dlhé rukávy a nohavice majte zasunuté v pončiach
- Noste svetlé oblečenie - kliešťa ľahšie zbadáte
- Po každom pobytu v prírode oblečenie vyperte
- V lese sa zdrižiavajte na cestách a vyhýbajte sa hustej vegetácii

Dlhé rukávy
Svetlé oblečenie
Dlhé nohavice
Nohavice zasunuté do pončík

Vždy skontrolujte celé telo, obvŕňajte podpažušie, triestia, nohy, pupok, krk a u detí hlavu a vlasíky. Na odstránenie kliešťa použite jemnú pinzetu, uchopte kliešťa čo najbližšie k pokožke a jemnou.

Send Message

No rating yet

Community See all

Invite your friends to like this Page
135 people like this
142 people follow this
Karol Červenčík and 1 other like this or have checked in

About See All

Dobrovičova 12
81266 Bratislava, Slovakia
Get Directions
Send message
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Informácia pre spotrebiteľov

Salmonelóza a exotické zvierata

Salmonella je baktéria spôsobujúca u ľudí čierne infekcie a patrí medzi najčastejšie bakteriálne ochorenia z potravín v EÚ a vo svete.

KLIEŠTE A CHROBY PRENOSNÉ KLIEŠŤAMI

Kliešte sú malé parazity, ktoré sa živia krvou cicavcov, plazov a vtákov. Pri cicaní môžu nasať baktérie a virusy prirodzene sa vyskytujúce v týchto zvieratách. Kliešte tiež môžu napadnúť ľudu. Aj keď samotné uhryznutie nie je nebezpečné, je tu riziko prenosu infekcií do Vášho krvného systému. To môže spôsobiť závažné ochorenia ako :

KLIEŠŤOVÁ ENCEFALITÍDA

Ak ste boli uhryznuti kliešťom a spozorovali ste niektoré z nasledujúcich príznakov, kontaktujte ihneď svojho lekára :

- Horúčka
- Únava
- Bolesť hlavy
- Bolesť svalstva
- Nevoľnosť

Neskoršia fáza ochorenia postihuje centrálny nervový systém a môže vyústiť do nezvratných neurologických príznakov, prípadne smrti.

LYMSKÁ BORELÍOZA

Ak ste mali kliešta a v priebehu 30 dní po uhryznutí ste spozorovali nasledujúce príznaky, kontaktujte svojho praktického lekára :

- Kruhovité sčervenanie kože okolo uhryznutia
- Chrpke podobné symptómy ako zvýšená teplota, únava, bolesti hlavy

Väčšina prípadov lyskej boreliózy je úspešne liečiteľná antibiotikami. Ak sa však nelieči, môže postihnúť srdce, kĺby a nervový systém

Thank you for your attention



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