

VRE EPIDEMIOLOGY AND OUTBREAKS IN SWITZERLAND – QUERY BY SWISS HOSPITALS

<u>Introduction</u>

In the years 2016-2018 there have been a few outbreaks with vancomycin-resistant enterococci (VRE) in Switzerland. Although multiple other Swiss centers have seen clusters or even outbreaks with VRE in the past, the scope of the problem is currently unknown. Support for understanding the Swiss VRE epidemiology also comes from ANRESIS, the Swiss Center for Antimicrobial Resistance, but is not real-time due to data processing requirements. On behalf of Swissnoso, National Center for Infection Control, we would like to collect information on cases your center has seen to obtain a timely picture of the VRE epidemiology in Switzerland.

Directions:

- This questionnaire should be filled out by a person knowledgeable about infection control practices in your facility. Please do not leave any questions unanswered.
- This survey will take about 10 min of your worktime in case you observed VRE outbreak in your facility in the last three years and is of utmost importance to understand the VRE epidemiology in Switzerland.
- In case you did not observe VRE outbreak in your facility in the last three years, this survey will take no more than 2 min of your worktime.

Your responses to this survey will be confidential. Your participation in this survey is crucial to the success of the project! Thank you very much for your effort!

If you have any questions or need assistance in completing this questionnaire, please call:

(+41)XX XXX XX XX

Monday through Friday

9:00 am - 4:00 pm

Abbreviations & Definitions:

VRE: Vancomycin resistant Enterococci (with Amoxicillin Resistance too)

ICU: Intensive Care Unit

Outbreak: Settings where there is an unusual or unexpected increase of cases (≥ 2 in the same time period on the same ward) of infections due to VRE already isolated in the hospital with or without molecular analysis of strains

PERSONAL DETAILS AND HOSPITAL DEMOGRAPHICS

- 1. Your details
 - 1.1. Name of your hospital/ clinic

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- 1.2. Address of your hospital/clinic
- 1.3. Name of the person completing this survey
- 1.4. Your position
- 1.5. Your department
- 1.6. Your email address
- 2. What is the number of acute care beds in your hospital?

VRE EPIDEMIOLOGY:

- 3. Have you seen VRE cases (either colonized or infected patients) in the years 2015, 2016, 2017 and/or 2018?
 - 1.1. Yes
 - 1.2. No (If No -> direct to: Thank you very much for your participation in this survey)
- 4. If yes, can you list the number of cases for each of these calendar years?

2015 (from 1st January to 31st December)

Total number

Number of Infections (if known):

BSI:

Others:

2016 (from 1st January to 31st December)

Total number

Number of Infections (if known)

BSI:

Others:

2017 (from 1st January to 31st December)

Total number

Number of Infections (if known)

BSI:

Others:

2018 (from 1st January to 31st March 2018)

Total number

Number of Infections (if known)

BSI:

Others:

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VRE OUTBREAK DATA:

5. Did you <u>ever</u> observe an outbreak (for definition see above) with VRE in your institution? Yes

No (If No -> direct to: Thank you very much for your participation in this survey)

6. If yes, did you observe more than one outbreak?

Yes

No (If No -> direct to: Outbreak description)

7. If yes, how many outbreaks did you observe in 2015-2018?

Total number of outbreaks in 1/2015-4/2018

OUTBREAK DESCRPTION:

(please describe max. 2 biggest outbreaks)

		1 st Outbreak	2 nd Outbreak
1.	When did the	From:	From:
	outbreak occur?	То:	То:
2.	Where (which unit/department)?	2.1. Intensive care unit (ICU) 2.2. Surgery unit 2.3. Hemato-oncology unit 2.4. Internal medicine unit 2.5. Other:	2.1. Intensive care unit (ICU) 2.2. Surgery unit 2.3. Hemato-oncology unit 2.4. Internal medicine unit 2.5. Other:
3.	Was the first case imported from another hospital?	a. Yes b. No c. Unknown If yes, from a foreign country hospital? a. Yes b. No c. Unknown	d. Yes e. No f. Unknown If yes, from a foreign country hospital? d. Yes e. No a. Unknown
4.	How many outbreak- related colonizations/ infections did you identify?	4.1. Total number: Of those: 4.2. Colonizations: Number 4.3. Invasive infections: Number If invasive infections, of those (number): a. Bloodstream infection: b. Urinary infections: c. Intra-abdominal sample d. Other (e.g., respiratory etc)	4.1. Total number: Of those: 4.2. Colonizations: Number 4.3. Invasive infections: Number If invasive infections, of those (number): a. Bloodstream infection: b. Urine infections: c. Intra-abdominal sample d. Other (e.g., respiratory etc)
5.	Did you perform molecular confirmation?	a. Yesb. NoIf yes, which subtype has been identified?a. Van Ab. Van B	a. Yesb. NoIf yes, which subtype has been identified?a. Van Ab. Van B

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		c. Van A and Van B	c. Van A and Van B
6.	Did you perform	a. Yes	a. Yes
	molecular typing of	b. No	b. No
	VRE strains?	If yes, was the outbreak with the same	If yes, was the outbreak with the same
		strain:	strain:
		a. Yes	c. Yes
		b. No	d. No
		If with the same strain, are you willing to	If with the same strain, are you willing to
		send the VRE stains of this outbreak for	send the VRE stains of this outbreak for
		typing?	typing?
		a. Yes	e. Yes
		b. No	f. No
		In the future, in case of a new outbreak in	In the future, in case of a new outbreak in
		your hospital, would you agree to send	your hospital, would you agree to send
		your strains for whole genome	your strains for whole genome
		sequencing in the context of a national surveillance?	sequencing in the context of a national surveillance?
		a. Yes, but only if all costs are	a. Yes, but only if all costs are
		covered	covered
		b. Yes, but only if costs are at least	b. Yes, but only if costs are at least
		partially covered	partially covered
		c. Yes, we would sequence for	c. Yes, we would sequence for
		whole genome even if we have to	whole genome even if we have to
		cover all costs	cover all costs
		d. No	d. No
7.	Notification: Have	7.1. Federal Office of Public Health	7.1. Federal Office of Public Health
	you notified someone	a. Yes	a. Yes
	outside your	b. No	b. No
	institution of this	7.2. Cantonal physician	7.2. Cantonal physician
	outbreak?	a. Yes	a. Yes
		b. No	b. No
		7.3. Other entities	7.3. Other entities
		a. Yes -> Which?	a. Yes -> Which?
		b. No	b. No
8.	Management:	8.1 implemented contact precautions	8.1 implemented contact precautions
	Have you	for VRE cases?	for VRE cases?
		a. Yes	a. Yes
		b. No	b. No
		8.2 implemented contact precautions	8.2 implemented contact precautions
		for patients exposed to VRE cases	for patients exposed to VRE cases
		("contacts")?	("contacts")?
		a. Yes	a. Yes
		b. No	b. No
		8.3 enforced hand hygiene?	8.3 enforced hand hygiene?
		a. Yes	a. Yes
		b. No	b. No
		1	

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- 8.4. ... stopped patient admissions 8.4. ... stopped patient admissions temporarily? temporarily? a. Yes a. Yes b. No b. No 8.5. ... created different sectors for 8.5. ... created different sectors for VRE-positive patients? for VRE-positive patients? a. Yes c. Yes b. No d. No High-risk contacts? High-risk contacts? a. Yes c. Yes b. No d. No 8.6. ... cohorted staff? 8.6. ... cohorted staff? a. Yes a. Yes b. No b. No 8.7. ... enhanced environmental cleaning? 8.7. enhanced environmental cleaning? a. Yes a. Yes b. No b. No 8.8. ... marked the contact patients with a 8.8. ... marked the contact patients with a special "alert-system"? special alert system? a. Yes a. Yes b. No b. No 8.9. ... screened contact patients? 8.9. ...screened contact patients? a. Yes a. Yes b. No b. No 8.10. ... performed routine screening 8.10. ... performed routine screening cultures in specific units (irrespective cultures in specific units (irrespective of exposition)? of exposition)? a. Yes a. Yes b. No b. No 8.11. ... implemented an antimicrobial 8.11. ... implemented an antimicrobial stewardship strategy? stewardship strategy? a. Yes a. Yes b. No b. No 8.12. ... screened health care workers 8.12. ... screened Health Care Workers (HCW)? (HCW)? a. Yes a. Yes b. No b. No 8.13. ... obtained screening samples from 8.13. ... obtained screening samples the environment? from the environment?
 - a. Yes
 - b. No
 - 8.14. ... attempted to decolonize VRE-positive patients and/or contacts?
 - a. Yes
 - b. No

a. Yesb. No

a. Yes

b. No

8.14. ... attempted to decolonize VRE-

positive patients and/or contacts?