

## Laboratory Acquired Infections (LAIs)



Online survey about 'Laboratory Acquired Infections' (LAIs) for the attention of the personnel

Dear Madam, Sir

On request of the Flemish authorities, the SBB (the Biosafety and Biotechnology Unit of the Scientific Institute of Public Health) has developed a survey in the interest of mapping and evaluating the risk for "laboratory-acquired infections" (LAIs) related to bio-incidents with pathogenic organisms.

Bio-incidents are defined as all irregularities that occur while handling these organisms, caused by technical failure or human errors or simply by accident.

The term laboratory-acquired infections" (LAIs) refers to all direct or indirect human infections with or without the onset of symptoms following exposure to pathogenic organisms (genetically modified or not) in the laboratory.

There are many scientific publications on bio-incidents and LAIs. However, very few data are available regarding the incidence in Belgium & Flanders. Our aim is to obtain more information about this issue and the possible underlying causes.

Completing this survey happens anonymously and will only take about 15 minutes.

Thank you very much for your participation

A report of this survey will be sent to you

More information on biosafety and LAIs can be found on our website (<http://www.biosafety.be>).

Dienst Bioveiligheid en Biotechnologie | Service Biosécurité et Biotechnologie

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[www.biosafety.be](http://www.biosafety.be)

There are 43 questions in this survey

## Laboratory Acquired Infections (LAIs)

**1 [1]1. In which type of organization are you employed? \***

Please choose **only one** of the following:

- Public institution or university
- Private company

**2 [2]2. How would you classify the sector/branch of industry that you work in? (Multiple answers possible) \***Please choose **all** that apply:

- R&D
- Diagnostics (medical – veterinary)
- Quality Control ( environmental samples, food samples, pharmaceuticals)
- Production
- Education

**3 [3]3. The focus of your work is mainly on: \***Please choose **only one** of the following:

- (Bio)medical (Human)
- Veterinary (Animals)
- Agricultural, ornamental plant cultivation, agrobiotechnology (Plants)

**4 [4]4. You are employed as:****(Multiple answers possible)**

\*

Please choose **all** that apply:

- Lab technician
- Researcher
- Short-term stagiair or student (< 1 month )
- Long-term stagiair or student (> 1 month)
- Animal caretaker
- Andere:

**5 [5new]5. In which type of laboratory do you work? (Multiple answers possible) \***Please choose **all** that apply:

- L1, lab of containment level 1
- L2, lab of containment level 2
- L3, lab of containment level 3
- A1, animal facility of containment level 1
- A2, animal facility of containment level 2
- A3, animal facility of containment level 3
- G1, greenhouse of containment level 1
- G2, greenhouse of containment level 2
- G3, greenhouse of containment level 3
- I don't know
- Other:

**6 [6]6. Which type of activities are you mainly doing? (Multiple answers possible) \***Please choose **all** that apply:

- Cell culture
- Animal care
- In vivo research (small and large animals)
- Microbiology
- Microscopy
- Education (practical lessons)
- Serology or hematology
- TSE (diagnostics) TSE: Transmissible spongiform encephalopathies

- TSE (research)
- Maintenance, management of collection
- Cloning
- Other:

**7 [7 new]Which manipulation/activity that you perform yourself do you consider the most risky for your health ? Please also indicate which (micro-)organism is involved in this manipulation/activity. ( eg injection of mice with lentiviral vectors, or culturing Mycobacterium tuberculosis, etc...) \***

Please write your answer here:

**8 [8 new]9. Are you aware of any LAI's (laboratory acquired infections , resulting from a contamination of 1 or more employees (including yourself) in your organization over the last 5 years? \***

Please choose **only one** of the following:

- Yes
- No

**9 [8.1]How many LAI 's are you aware of? \***

Only answer this question if the following conditions are met:

° ((8.new.NAOK == "Y"))

Please write your answer here:

**10 [8.2 LAI 1 NEW]Which organisms or biologic agents were involved in the LAI (s)?(bv. Trypanosoma brucei gambiense) \***

Only answer this question if the following conditions are met:

° ((8.1.NAOK == "1"))

Please write your answer(s) here:

LAI1

**11 [8.2 LAI 2 NEW]Which organisms were involved in the LAI (s)? (eg. Trypanosoma brucei gambiense, eg. influenza virus,...) \***

Only answer this question if the following conditions are met:

° ((8.1.NAOK == "2"))

Please write your answer(s) here:

LAI 1

LAI 2

**12 [8.2 LAI 3 NEW]Which organisms were involved in the LAI (s)? (eg. Trypanosoma brucei gambiense, eg. influenza virus,...) \***

Only answer this question if the following conditions are met:

° ((8.1.NAOK == "3"))

Please write your answer(s) here:

LAI 1

LAI 2

LAI 3

**13 [8.2 LAI 4 NEW]Which organisms were involved in the LAI (s)? (eg. Trypanosoma brucei gambiense, eg. influenza virus,...) \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK == "4"))

Please write your answer(s) here:

LAI 1

LAI 2

LAI 3

LAI 4

**14 [8.2 LAI 5 NEW]Which organisms were involved in the LAI (s)? (eg. Trypanosoma brucei gambiense, eg. influenza virus,...) \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK >= "5"))

Please write your answer(s) here:

LAI 1

LAI 2

LAI 3

LAI 4

LAI 5

If you have knowledge of more than 5 LAI(s) , please indicate the 5 most recent ones (over the last 5 years).

**15 [8.3 LAI 1 new]Which types of biologic agents were involved? \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK == "1"))

Please choose the appropriate response for each item:

	Wie werd er besmet? // Who was contaminated?							Waar gebeurde de besmetting? // Where did the contamination occur?				
	Laboratory technician	Researcher	Stagiair / student for short period (<1 month)	Stagiair / student for longer period (>1 month)	Animal care taker	I don't know	Other	L1, laboratory of containment level 1	L2, laboratory of containment level 2	L3, laboratory of containment level 3	A1, animal facility of containment level 1	A2, animal facility of containment level 2
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**16 [8.3 LAI 2 new] \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK == "2"))

Please choose the appropriate response for each item:

	Wie werd er besmet? // Who was contaminated?		Waar gebeurde de besmetting? // Where did the contamination occur?
	Stagiair / student	Stagiair / student	
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Laboratory technician	Researcher	student for short period (<1 month)	for longer period (>1 month)	Animal care taker	I don't know	Other	L1, laboratory of containment level 1	L2, laboratory of containment level 2	L3, laboratory of containment level 3	A1, animal facility of containment level 1	A2, animal facility of containment level 2
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**17 [8.3 LAI3 new] \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK == "3"))

Please choose the appropriate response for each item:

	Wie werd er besmet? // Who was contaminated?							Waar gebeurde de besmetting? // Where did the contamination occur?				
	Laboratory technician	Researcher	Stagiair / student for short period (<1 month)	Stagiair / student for longer period (>1 month)	Animal care taker	I don't know	Other	L1, laboratory of containment level 1	L2, laboratory of containment level 2	L3, laboratory of containment level 3	A1, animal facility of containment level 1	A2, animal facility of containment level 2
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**18 [8.3 LAI4 new] \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK == "4"))

Please choose the appropriate response for each item:

	Wie werd er besmet? // Who was contaminated?							Waar gebeurde de besmetting? // Where did the contamination occur?				
	Laboratory technician	Researcher	Stagiair / student for short period (<1 month)	Stagiair / student for longer period (>1 month)	Animal care taker	I don't know	Other	L1, laboratory of containment level 1	L2, laboratory of containment level 2	L3, laboratory of containment level 3	A1, animal facility of containment level 1	A2, animal facility of containment level 2
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**19 [8.3 LAI5 new] \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK >= "5"))

Please choose the appropriate response for each item:

	Wie werd er besmet? // Who was contaminated?							Waar gebeurde de besmetting? // Where did the contamination occur?				
	Laboratory technician	Researcher	Stagiair / student for short period (<1 month)	Stagiair / student for longer period (>1 month)	Animal care taker	I don't know	Other	L1, laboratory of containment level 1	L2, laboratory of containment level 2	L3, laboratory of containment level 3	A1, animal facility of containment level 1	A2, animal facility of containment level 2
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**20 [8.3.1 "Anders" pers]Of which other persons , also involved in the LAI , are you aware of? \***

Only answer this question if the following conditions are met:  
 ° ((8.3 LAI1 new\_SQ001\_0.NAOK == "a1")) or ((8.3 LAI2 new\_SQ001\_0.NAOK == "a1")) or ((8.3 LAI2 new\_SQ002\_0.NAOK == "a1")) or ((8.3 LAI3 new\_SQ001\_0.NAOK == "a1")) or ((8.3 LAI3 new\_SQ002\_0.NAOK == "a1")) or ((8.3 LAI3 new\_SQ003\_0.NAOK == "a1")) or ((8.3 LAI4 new\_SQ001\_0.NAOK == "a1")) or ((8.3 LAI4 new\_SQ002\_0.NAOK == "a1")) or ((8.3 LAI4 new\_SQ003\_0.NAOK == "a1")) or ((8.3 LAI5 new\_SQ001\_0.NAOK == "a1")) or ((8.3 LAI5 new\_SQ002\_0.NAOK == "a1")) or ((8.3 LAI5 new\_SQ003\_0.NAOK == "a1")) or ((8.3 LAI5 new\_SQ004\_0.NAOK == "a1")) or ((8.3 LAI5 new\_SQ005\_0.NAOK == "a1")) or ((8.3 LAI5 new\_SQ003\_0.NAOK == "a1")) or ((8.3 LAI5 new\_SQ002\_0.NAOK == "a1")) or ((8.3 LAI5 new\_SQ001\_0.NAOK == "a1")) or ((8.3 LAI4 new\_SQ003\_0.NAOK == "a1")) or ((8.3 LAI4 new\_SQ004\_0.NAOK == "a1"))

Please write your answer here:

**21 [8.3.2 'andere plaats]Of which other location , also involved in the LAI , are you aware of? \***

Only answer this question if the following conditions are met:  
 ° ((8.3 LAI1 new\_SQ001\_1.NAOK == "a2")) or ((8.3 LAI2 new\_SQ001\_1.NAOK == "a2")) or ((8.3 LAI2 new\_SQ002\_1.NAOK == "a2")) or ((8.3 LAI3 new\_SQ001\_1.NAOK == "a2")) or ((8.3 LAI3 new\_SQ002\_1.NAOK == "a2")) or ((8.3 LAI3 new\_SQ003\_1.NAOK == "a2")) or ((8.3 LAI4 new\_SQ001\_1.NAOK == "a2")) or ((8.3 LAI4 new\_SQ002\_1.NAOK == "a2")) or ((8.3 LAI4 new\_SQ003\_1.NAOK == "a2")) or ((8.3 LAI4 new\_SQ004\_1.NAOK == "a2")) or ((8.3 LAI5 new\_SQ001\_1.NAOK == "a2")) or ((8.3 LAI5 new\_SQ002\_1.NAOK == "a2")) or ((8.3 LAI5 new\_SQ003\_1.NAOK == "a2")) or ((8.3 LAI5 new\_SQ004\_1.NAOK == "a2")) or ((8.3 LAI5 new\_SQ005\_1.NAOK == "a2"))

Please write your answer here:

**22 [8.4 LAI 1]Which types of biologic agents were involved? \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK == "1"))

Please choose the appropriate response for each item:

In welke context gebeurde de besmetting? // In which context did the contamination happen?

	Cell culture	Animal care	In vivo research (small and large test animals)	Microbiology	Microscopy	Education (practicum)	Serology or hematology	TSE (diagnostics)	TSE (research)	Maintenance of collection	Cloning	Transport
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**23 [8.4 LAI2 new] \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK == "2"))

Please choose the appropriate response for each item:

In welke context gebeurde de besmetting? // In which context did the contamination happen?

	Cell culture	Animal care	In vivo research (small and large test animals)	Microbiology	Microscopy	Education (practicum)	Serology or hematology	TSE (diagnostics)	TSE (research)	Maintenance of collection	Cloning	Transport
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**24 [8.4 LAI 3 new]Which types of biologic agents were involved? \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK == "3"))

Please choose the appropriate response for each item:

In welke context gebeurde de besmetting? // In which context did the contamination happen?

	Cell culture	Animal care	In vivo research (small and large test animals)	Microbiology	Microscopy	Education (practicum)	Serology or hematology	TSE (diagnostics)	TSE (research)	Maintenance of collection	Cloning	Transport
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**25 [8.4 LAI 4 new] \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK == "4"))

Please choose the appropriate response for each item:

In welke context gebeurde de besmetting? // In which context did the contamination happen?

	Cell culture	Animal care	In vivo research (small and large test animals)	Microbiology	Microscopy	Education (practicum)	Serology or hematology	TSE (diagnostics)	TSE (research)	Maintenance of collection	Cloning	Transport
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**26 [8.4 LAI 5 new] \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK >= "5"))

Please choose the appropriate response for each item:

In welke context gebeurde de besmetting? // In which context did the contamination happen?

	Cell culture	Animal care	In vivo research (small and large test animals)	Microbiology	Microscopy	Education (practicum)	Serology or hematology	TSE (diagnostics)	TSE (research)	Maintenance of collection	Cloning	Transport
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**27 [8.4.1 new] Which other context are you aware of? \***

Only answer this question if the following conditions are met:  
 ° ((8.4 LAI1\_SQ001\_0.NAOK == "a1")) or ((8.4 LAI2 new\_SQ002\_0.NAOK == "a1")) or ((8.4 LAI3 new\_SQ001\_0.NAOK == "a1")) or ((8.4 LAI3 new\_SQ002\_0.NAOK == "a1")) or ((8.4 LAI3 new\_SQ003\_0.NAOK == "a1")) or ((8.4 LAI4 new\_SQ001\_0.NAOK == "a1")) or ((8.4 LAI4 new\_SQ002\_0.NAOK == "a1")) or ((8.4 LAI4 new\_SQ003\_0.NAOK == "a1")) or ((8.4 LAI4 new\_SQ004\_0.NAOK == "a1")) or ((8.4 LAI5 new\_SQ001\_0.NAOK == "a1")) or ((8.4 LAI5 new\_SQ002\_0.NAOK == "a1")) or ((8.4 LAI5 new\_SQ003\_0.NAOK == "a1")) or ((8.4 LAI5 new\_SQ004\_0.NAOK == "a1")) or ((8.4 LAI5 new\_SQ005\_0.NAOK == "a1")) or ((8.4 LAI2 new\_SQ001\_0.NAOK == "a1"))

Please write your answer here:

**28 [8.4.2 new] Which other incident do you know that has lead to an infection? \***

Only answer this question if the following conditions are met:  
 ° ((8.4 LAI1\_SQ001\_1.NAOK == "a2")) or ((8.4 LAI2 new\_SQ002\_1.NAOK == "a2")) or ((8.4 LAI3 new\_SQ001\_1.NAOK == "a2")) or ((8.4 LAI3 new\_SQ002\_1.NAOK == "a2")) or ((8.4 LAI3 new\_SQ003\_1.NAOK == "a2")) or ((8.4 LAI4 new\_SQ001\_1.NAOK == "a2")) or ((8.4 LAI4 new\_SQ002\_1.NAOK == "a2")) or ((8.4 LAI4 new\_SQ003\_1.NAOK == "a2")) or ((8.4 LAI4 new\_SQ004\_1.NAOK == "a2")) or ((8.4 LAI5 new\_SQ001\_1.NAOK == "a2")) or ((8.4 LAI5 new\_SQ002\_1.NAOK == "a2")) or ((8.4 LAI5 new\_SQ003\_1.NAOK == "a2")) or ((8.4 LAI5 new\_SQ004\_1.NAOK == "a2")) or ((8.4 LAI5 new\_SQ005\_1.NAOK == "a2")) or ((8.4 LAI2 new\_SQ001\_1.NAOK == "a2"))

Please write your answer here:



**29 [8.5 LAI 1 new] Which types of biologic agents were involved? \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK == "1"))

Please choose the appropriate response for each item:

	Was er sprake van transmissie naar andere personen (vb familie, collega's...) //Do you know if it was transmitted to another person (eg family member, colleague...)?			Is effectief aangetoond dat de infectie het gevolg was van een besmetting op de werkvloer? //Has it been proven that the LAI resulted from a contamination at work?		
	Yes	No	I don't know	Yes	No	I don't know
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**30 [8.5 LAI 2 new] \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK == "2"))

Please choose the appropriate response for each item:

	Was er sprake van transmissie naar andere personen (vb familie, collega's...) //Do you know if it was transmitted to another person (eg family member, colleague...)?			Is effectief aangetoond dat de infectie het gevolg was van een besmetting op de werkvloer? //Has it been proven that the LAI resulted from a contamination at work?		
	Yes	No	I don't know	Yes	No	I don't know
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**31 [8.5 LAI 3 new] \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK == "3"))

Please choose the appropriate response for each item:

	Was er sprake van transmissie naar andere personen (vb familie, collega's...) //Do you know if it was transmitted to another person (eg family member, colleague...)?			Is effectief aangetoond dat de infectie het gevolg was van een besmetting op de werkvloer? //Has it been proven that the LAI resulted from a contamination at work?		
	Yes	No	I don't know	Yes	No	I don't know
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**32 [8.5 LAI 4 new] \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK == "4"))

Please choose the appropriate response for each item:

	Was er sprake van transmissie naar andere personen (vb familie, collega's...) //Do you know if it was transmitted to another person (eg family member, colleague...)?			Is effectief aangetoond dat de infectie het gevolg was van een besmetting op de werkvloer? //Has it been proven that the LAI resulted from a contamination at work?		
	Yes	No	I don't know	Yes	No	I don't know
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**33 [8.5 LAI 5 new] \***

Only answer this question if the following conditions are met:  
 ° ((8.1.NAOK >= "5"))

Please choose the appropriate response for each item:

	Was er sprake van transmissie naar andere personen (vb familie, collega's...) //Do you know if it was transmitted to another person (eg family member, colleague...)?			Is effectief aangetoond dat de infectie het gevolg was van een besmetting op de werkvloer? //Has it been proven that the LAI resulted from a contamination at work?		
	Yes	No	I don't know	Yes	No	I don't know
LAI 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAI 5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

34 [9 new]

## 9. Bio-incidents \*

**Not every bio-incident\* leads to an actual infection, but it is interesting to know what type of bio-incidents occur frequently in Belgium. Are you aware of any bio-incidents that have occurred in your organization within the last 5 years?**

\*

Please choose **only one** of the following:

- Yes  
 No

(\* A bio-incident is a term to indicate all kinds of irregularities that can happen while working with biologic agents: eg cut accidents and accidental injection, falling and breaking of containers, flasks, etc...)

**35 [9.1 new] Do you know if one of the possible bio-incidents occurred in your organization (over the last 5 years) \_ Select the applicable option and on the right side you can give the number or amount of these incidents that have occurred.**

**Only answer this question if the following conditions are met:**  
 ° ((9 new.NAOK == "Y"))

Please choose **all** that apply and provide a comment:

- Spills
- Cutting / needle stick accident
- Bites and scratches (animals)
- Splashes
- Falling of recipient
- Breaking of recipient
- Careless handling
- Technical failure of equipment ( eg. badly functioning of safety cabinet, centrifuge, ...)
- Not wearing personal protection equipment ( gloves, goggles...)
- Technical failure of infrastructure (eg . HVAC, air filter, ...)
- Not known
- Other

(on the right side you can give the number or amount of these incidents that have occurred)

**36 [9.2 new] Which other type of bio-incidents can you remember? \***

**Only answer this question if the following conditions are met:**  
 ° ((9.1 new\_10.NAOK == "Y"))

Please write your answer here:

**37 [10.2] Are you aware of the existence of an internal procedure for dealing with a bio-incident? \***

Please choose **only one** of the following:

- Yes
- No

**38 [10 new] 10. To your opinion, is a bio-incident spontaneously notified by the personnel? \***

Please choose **only one** of the following:

- Yes
- No

**39 [10.1N] To your opinion, what are the reasons for not reporting such an incident? (Multiple answers possible) \***

Only answer this question if the following conditions are met:  
 \*((10 new.NAOK == 'N'))

Please choose **all** that apply:

- The bio-incident is not serious enough to report it
- Fear for reactions of colleagues
- Fear for reactions of superior
- Other:

**40 [10.1Y new]**

**To whom is the incident reported? (Multiple answers possible)**

\*

Please choose **all** that apply:

- Biosafety officer/coordinator
- Prevention advisor
- Occupational health officer
- Lab responsible
- Colleague(s)
- Nobody
- Other:

**41 [11 new] Questions on spill procedures \***

Please choose the appropriate response for each item:

	Yes	No	I don't know
Does your lab have a procedure for the cleaning of spills?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Are there any spill kits available?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Are there specific spill trainings organized?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**42 [12 new] As mentioned earlier, a bio-incident is often the result of several different factors. How high would you rate the next conditions as underlying causes of bio-incidents? ( 0=low, 10= high) \***

Please choose the appropriate response for each item:

	1	2	3	4	5	6	7	8	9	10
Not enough experience	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not enough training received	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not enough follow-up	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Too much work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of space	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of adapted equipment, materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of knowledge about the possible risks that come with a certain activity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of attention /absence of mind, being distracted	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not respecting certain biosafety practices	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

(0= low, 10= high)

**43 [13] Thank you! This is the end of this survey. If you have remarks or suggestions on this survey, you are invited to write them here.**

Please write your answer here:

Thank you for participating in this survey

Do not hesitate to contact us if you have any further questions,

[contained.use@wiv-isp.be](mailto:contained.use@wiv-isp.be)



01-01-1970 – 01:00

Submit your survey.  
Thank you for completing this survey.

