

# Laboratory Acquired Infections



Online survey about 'Laboratory Acquired Infections' (LAIs)

for the attention of the biosafety officer, prevention advisor and occupational health professional

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 LAI's can be found on our website (<http://www.biosafetv.be>).

We are very grateful for your time, effort and consideration.

Dienst Bioveiligheid en Biotechnologie | Service Biosécurité et Biotechnologie

Operationele Directie Expertise, Dienstverlening en Klantenrelaties | Direction Opérationnelle Expertise, Prestations de service et relations clients

Rue Juliette Wytsmanstraat 14 | 1050 Brussels  
T 02 642 52 93 | F 02 642 52 92  
[contained.use@wiv-isp.be](mailto:contained.use@wiv-isp.be)

[Wetenschappelijk Instituut Volksgezondheid](http://www.wiv-isp.be) - Institut Scientifique de Santé Publique

[www.wiv-isp.be](http://www.wiv-isp.be)  
[www.biosafetv.be](http://www.biosafetv.be)

Should you have more questions that you want to ask us, please feel free to contact us on :

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

There are 49 questions in this survey

## 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 in which the organization is active? (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 the organization you 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:

- Biosafety coordinator
- Prevention advisor
- Occupational health officer
- Other:

**5 [5]5. Which types of laboratories exist in the organization(s) that you work for? (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 [5.1]How would you judge the level of compliance (employees) with the following biosafety measures in a laboratory or animal facility of containment levels 2 and 3: \***

Only answer this question if the following conditions are met:

° ((5\_2.NAOK == "Y")) or ((5\_3.NAOK == "Y")) or ((5\_5.NAOK == "Y")) or ((5\_6.NAOK == "Y"))

Please choose the appropriate response for each item:

	There is strict compliance with these measures or practices	In general this measure is respected well	This measure is often NOT respected or put in practice	No personal experience with this measure/no opinion
Wearing a lab coat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wearing gloves	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The changing of protective clothing for specific purposes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Carrying a mouth mask or respiratory mask	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Carrying safety goggles or face protection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The use of a microbiological safety cabinet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The decontamination procedure at the start and end of an activity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The waste "procedure"	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

CAUTION: biosafety measures are not the same as and not to be confused with SPF ( Standard Pathogen Free)practices or research that involves radionucleotides!

**7 [6]6. Which type of activities are carried out in the organization? (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 (research)  
 Maintenance, management of collection  
 Cloning  
 Other:

**8 [7]7. Which manipulation/activity that is carried out by the personnel do you consider the most risky for the health of the employers ? 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:

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

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

- Yes  
 No

**10 [8.1]How many LAI's are you aware of? \***

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

Please write your answer here:

**11 [8.2 LAI 1]Which organisms or biologic agents were involved in the LAI (s)?(eg. *Trypanosoma brucei gambiense*,...) \***

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

Please write your answer(s) here:

LA1

**12 [8.2 LAI 2]Which organisms or biologic agents were involved in the LAI (s)?(eg. *Trypanosoma brucei gambiense*,...) \***

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

Please write your answer(s) here:

LA1

LA2

**13 [8.2 LAI3]Which organisms or biologic agents were involved in the LAI (s)?(eg. Trypanosoma brucei gambiense) \***

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

Please write your answer(s) here:

LA1

LA2

LA3

**14 [8.2 LAI4]Which organisms or biologic agents were involved in the LAI (s)?(eg. Trypanosoma brucei gambiense) \***

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

Please write your answer(s) here:

LA1

LA2

LA3

LA4

**15 [8.2 LAI5]Which organisms or biologic agents were involved in the LAI (s)?(eg. Trypanosoma brucei gambiense) \***

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

Please write your answer(s) here:

LA1

LA2

LA3

LA4

LA5

U know of more than 5 LAI(s) , please only indicate the 5 most recent ones (over the last 5 years).

**16 [8.3 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:

Wie werd er besmet? // Who was contaminated?					Waar gebeurde de besmetting? // Where did the contamin.				
	Stagiair / student for short period (< 1	Stagiair / student for longer period (> 1	Animal care	I don't	L1, laboratory of containment	L2, laboratory of containment	L3, laboratory of containment	A1, animal facility of containment	A2, animal facility of containment
Laboratory									

LA1	technician <input type="radio"/>	Researcher <input type="radio"/>	month) <input type="radio"/>	month) <input type="radio"/>	taker <input type="radio"/>	know <input type="radio"/>	Other <input type="radio"/>	level 1 <input type="radio"/>	level 2 <input type="radio"/>	level 3 <input type="radio"/>	level 1 <input type="radio"/>	level 2 <input type="radio"/>
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**17 [8.3 LAI 2] \***

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?				
	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
LA1	<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"/>
LA2	<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 LAI 3] \***

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
LA1	<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"/>
LA2	<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"/>
LA3	<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 LAI 4] \***

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
LA1	<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"/>
LA2	<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"/>
LA3	<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"/>
LA4	<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 LAI 5] \***

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
LA1	<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"/>
LA2	<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"/>
LA3	<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"/>
LA4	<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"/>
LA5	<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"/>

**21 [8.3.1]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 LAI2\_SQ001\_0.NAOK == "a1")) or ((8.3 LAI2\_SQ002\_0.NAOK == "a1")) or ((8.3 LAI1\_SQ001\_0.NAOK == "a1")) or ((8.3 LAI3\_SQ001\_0.NAOK == "a1")) or ((8.3 LAI3\_SQ002\_0.NAOK == "a1")) or ((8.3 LAI3\_SQ003\_0.NAOK == "a1")) or ((8.3 LAI4\_SQ001\_0.NAOK == "a1")) or ((8.3 LAI4\_SQ002\_0.NAOK == "a1")) or ((8.3 LAI4\_SQ003\_0.NAOK == "a1")) or ((8.3 LAI4\_SQ004\_0.NAOK == "a1")) or ((8.3 LAI5\_SQ001\_0.NAOK == "a1")) or ((8.3 LAI5\_SQ002\_0.NAOK == "a1")) or ((8.3 LAI5\_SQ003\_0.NAOK == "a1")) or ((8.3 LAI5\_SQ004\_0.NAOK == "a1")) or ((8.3 LAI5\_SQ005\_0.NAOK == "a1")) or ((8.3 LAI4\_SQ004\_0.NAOK == "a1"))

Please write your answer here:

**22 [8.3.2]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 LA11\_SQ001\_1.NAOK == "a2")) or ((8.3 LA12\_SQ001\_1.NAOK == "a2")) or ((8.3 LA12\_SQ002\_1.NAOK == "a2")) or ((8.3 LA13\_SQ001\_1.NAOK == "a2")) or ((8.3 LA13\_SQ002\_1.NAOK == "a2")) or ((8.3 LA13\_SQ003\_1.NAOK == "a2")) or ((8.3 LA14\_SQ001\_1.NAOK == "a2")) or ((8.3 LA14\_SQ002\_1.NAOK == "a2")) or ((8.3 LA14\_SQ003\_1.NAOK == "a2")) or ((8.3 LA14\_SQ004\_1.NAOK == "a2")) or ((8.3 LA15\_SQ001\_1.NAOK == "a2")) or ((8.3 LA15\_SQ002\_1.NAOK == "a2")) or ((8.3 LA15\_SQ003\_1.NAOK == "a2")) or ((8.3 LA15\_SQ004\_1.NAOK == "a2")) or ((8.3 LA15\_SQ005\_1.NAOK == "a2"))

Please write your answer here:

**23 [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 and management of collection	Cloning	Transpc
LA1	<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 2] \***

**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 and management of collection	Cloning	Transpc
LA1	<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"/>
LA2	<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 3] \***

**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 and management of collection	Cloning	Transpc
LA1	<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"/>
LA2	<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"/>
LA3	<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 4] \***

**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 and management of collection	Cloning	Transpc
LA1	<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"/>
LA2	<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"/>
LA3	<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"/>
LA4	<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 LAI5] \***

**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 and management of collection	Cloning	Transpc
LA1	<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"/>
LA2	<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"/>
LA3	<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"/>
LA4	<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"/>
LA5	<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"/>

**28 [8.4.1]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\_SQ001\_0.NAOK == "a1") or ((8.4 LAI2\_SQ002\_0.NAOK == "a1") or ((8.4 LAI3\_SQ001\_0.NAOK == "a1") or ((8.4 LAI3\_SQ002\_0.NAOK == "a1") or ((8.4 LAI3\_SQ003\_0.NAOK == "a1") or ((8.4 LAI4\_SQ001\_0.NAOK == "a1") or ((8.4 LAI4\_SQ002\_0.NAOK == "a1") or ((8.4 LAI4\_SQ003\_0.NAOK == "a1") or ((8.4 LAI5\_SQ005\_0.NAOK == "a1") or ((8.4 LAI4\_SQ004\_0.NAOK == "a1") or ((8.4 LAI5\_SQ001\_0.NAOK == "a1") or ((8.4 LAI5\_SQ002\_0.NAOK == "a1") or ((8.4 LAI5\_SQ003\_0.NAOK == "a1") or ((8.4 LAI5\_SQ004\_0.NAOK == "a1"))

Please write your answer here:

**29 [8.4.2]Which other bio-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\_SQ001\_1.NAOK == "a2") or ((8.4 LAI2\_SQ002\_1.NAOK == "a2") or ((8.4 LAI3\_SQ001\_1.NAOK == "a2") or ((8.4 LAI3\_SQ002\_1.NAOK == "a2") or ((8.4 LAI3\_SQ003\_1.NAOK == "a2") or ((8.4 LAI4\_SQ001\_1.NAOK == "a2") or ((8.4 LAI4\_SQ002\_1.NAOK == "a2") or ((8.4 LAI4\_SQ003\_1.NAOK == "a2") or ((8.4 LAI4\_SQ004\_1.NAOK == "a2") or ((8.4 LAI5\_SQ001\_1.NAOK == "a2") or ((8.4 LAI5\_SQ002\_1.NAOK == "a2") or ((8.4 LAI5\_SQ003\_1.NAOK == "a2") or ((8.4 LAI5\_SQ004\_1.NAOK == "a2") or ((8.4 LAI5\_SQ005\_1.NAOK == "a2"))

Please write your answer here:

**30 [8.5 LAI1]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
LA1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**31 [8.5 LAI 2] \***

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
LA1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LA2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**32 [8.5 LAI 3] \***

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
LA1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LA2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LA3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**33 [8.5 LAI 4] \***

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
LA1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LA2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LA3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LA4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**34 [8.5 LAI 5] \***

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

Please choose the appropriate response for each item:

<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"/>
<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"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**35 [9]9. Bio-incident\* Not every bio-incident\* leads to an actual infection, but it is interesting to know what type of bio-incident\* occur frequently in Belgium. Are you aware of any bio-incident\* 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...)

**36 [9.1]Do you know if one of the possible bio-incident\* occurred in your organization (over the last 5 years) \_ Select the applicable option . \***

Only answer this question if the following conditions are met:  
 ° ((9.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

Not wearing personal protection equipment ( gloves, goggles...)

Technical failure of equipment ( eg. badly functioning of safety cabinet, centrifuge, ...)

Technical failure of infrastructure (eg . HVAC, air filter, ...)

Other

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

**37 [9.2]Which other type of bio-incidents can you remember? \***

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

Please write your answer here:

**38 [9.3]Was there a period of labour disability involved? \***

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

Ja  
 Nee  
 Weet ik niet

**39 [9.3.1]How many days was the involved person not able to work? \***

Only answer this question if the following conditions are met:  
° ((9.3.NAOK == "A1"))

Please write your answer here:

(\* If this applies to more than 1 LAI, please give the total amount of days of labour disability)

**40 [9.4]Is there an internal procedure for dealing with a bio-incident? \***

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

Yes  
 No

**41 [10]To your opinion, is a bio-incident spontaneously notified by the personnel? \***

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

- Yes  
 No

#### 42 [10.1N] To your opinion, what are the reasons for not reporting such an incident? \*

Only answer this question if the following conditions are met:

° ((10.NAOK == 'N'))

Please write your answer here:

#### 43 [10.1Y]

To whom is the incident reported? (Different answers are possible)

\*

Please choose **all** that apply:

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

(Different answers are possible)

#### 44 [10.2] Is an LAI reported to the authorities, the "FOD Werkgelegenheid, arbeid en sociaal overleg", in accordance to the Royal Decree of april 29 1999? \*

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

- Ja  
 Nee  
 Dit KB is me onbekend  
 Nieuwe antwoordoptie

#### 45 [11]11. Questions on spill procedures \*

Please choose the appropriate response for each item:

	Yes	No
Does your lab have a procedure for the cleaning of spills?	<input type="radio"/>	<input type="radio"/>
Are there any spill kits available?	<input type="radio"/>	<input type="radio"/>
Are there specific spill trainings (for cleaning of spills) organized?	<input type="radio"/>	<input type="radio"/>

#### 46 [11.1] The spill kits that are provided, are usually

Only answer this question if the following conditions are met:

° ((11\_2.NAOK == '1'))

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

- Purchased and commercially available as a whole  
 Self assembled according to the specific needs  
 Mainly purchased as a whole and completed with some additional elements

**47 [11.2]Why did you choose not to provide a spill kit?**

Only answer this question if the following conditions are met:  
 ° ((11\_2.NAOK == "2"))

Please write your answer here:

**48 [12]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 of the risks that are related to the activity or manipulation	<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)

**49 [13]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.

