

# Anonymous questionnaire on skin test methods and use of tuberculin in Belgium (October 2007)

Dear Colleague,

The Unit Epidemiology and Risk Analysis applied to Veterinary Sciences, Faculty of Veterinary Medicine, University of Liège (UREAR), is currently promoting a research project on bovine tuberculosis dynamics in Belgium, in collaboration with the Veterinary and Agrochemical centre (CERVA-CODA). Data available on skin test methods and use of tuberculin need to be actualized. Within the frameworks of the research project mentioned above, an anonymous inquiry is performed among veterinary cattle practitioners in order to collect actualized data regarding skin test methods and routine tuberculin use. This inquiry cannot be carried out without your participation.

We concretely ask you to spare a few minutes of your time to fill in the present form and send it back before December 15, 2007, in the pre-stamped envelope to the following address: Enquête tuberculines, Service d'Epidémiologie et Analyses des risques appliqués aux sciences vétérinaires, Faculté de Médecine Vétérinaire, boulevard de Colonster 20, B42, Sart-Tilman, 4000 Liège.

We would like to insist on the personal nature of the form. If you practice in an association with other veterinarians, we would like to receive a questionnaire filled by each practitioner.

We sincerely hope you will be able to take part to the study. The results will be reported to you, as soon as possible, through the most appropriate way.

We kindly thank you for your collaboration,

With our most sincere confraternal salutations,

Professeur Claude SAEGERMAN
Unit Epidemiology and Risk Analysis applied to
Veterinary Sciences
Department of Infectious and Parasitic Diseases
Faculty of Veterinary Medicine
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Dr Karl WALRAVENS
Head of Section
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#### **IMPORTANT INFORMATION: ANONYMITY GARANTEED!**

The informations collected will be managed anonymously. A code number will match each veterinarian and this code only will be used for data encoding.

#### How to fill in the questionnaire?

- The form includes items for which it is sufficient to mark off the square corresponding to your answer.
- When you specify an answer, please write legibly (preferably in capital letters).
- When you are associated in the practice, each veterinarian answers individually (personalized questionnaire).
- Example of a correct answer:

Your practice is mainly located:

- In Wallonia
- o In Flanders

## 1. Personal Data

			:					_ (facultative)
Postal	code:		(facultative	but useful fo	or statistical r	rep	oresentativeness)	
•			Veterinary Me					
	-		attle practice:					
In whic	ch area(s	s) do yo	ou practice (m	ore than one	e answer is a	ICC	eptable)?	
0	Province	o of A	ntwerpen		_		Dunings of Lucemberry	
0			litwerpen Jestern Flande	arc			Province of Luxembourg	
0			astern Flander				Province of Namur	
0			mbourg	3			Province of Liège France	
0			emish Braban	t			Netherlands	
0			/alloon Brabar	-	_		Germany	
0	Provinc						Grand Duchy of Luxembourg	
					J		Grana Daon, or Lancing and	
2. <u>Tub</u>	<u>erculin a</u>	nd cor	<u>nservation</u>					
	المير ط	2 1 2 1 1	oncorvo tubo	culin flacks	at vour pract	ti c	o2	
•		•	conserve tuber ered from ligh			LIC	e:	
			ered from ligh			9 م	8°C	
			ht, at a tempe	-		- 0	6 6	
	O	/ \t !!B!	it, at a tempe	i di di C dbovi				
•	Do you	as we	II conserve a s	tock of tube	rculin in you	ır c	car?	
	•	No			,			
	0	Yes [	→ if so, use	of a isother	m box :			
				o No				
				o Yes —	→ if so, mai	int	cained at 4°C :	
						0	Yes	
						0	No No	
		Į	→ Do you k	eep the tub	erculin in the	e ir	njector itself?	
				o Yes				
				o No				
•	If you c	onserv	ve tuberculin f	lasks in vour	rcar for how	v lo	nnø?	
	0		): C	•	car, for flow	•		
	0		num :	-				
	0		mum :					
•	When s	startin	g a new skin te	est period, d	o you use :			
	0	A pist	ol already con	taining a tul	berculin carp	oul	e not entirely used before?	
		_	No No					
		С	Yes →	If so, unti	I how many o	da	ys?	
		۸ dar	maiat alraadu	containing t	2 منابع ما در			
	0		mojet already Yes	containing t	lubercuin?			
		_						
		С	No No					
•	Do vou	clean	and/or disinfe	ct the mate	rial of injecti	on	1?	
	0	Clean			21 jeou			
	0		ection					
	0		ing and disinfe	ection				
	0		eaning nor dis					
			-					

	<ul> <li>After each holding</li> </ul>
	o Once a week
	o Once a month
	o Other: specify:
3. <u>Pro</u> t	tocol of tuberculin injection
•	On what site of the animal's body do you preferentially perform the injection?
	o Neck
	o Caudal fold
	o Other: specify:
Injecti	on
•	Do you shear the site of injection?
	o Yes
	o No
•	Do you shave the site of injection?  O Yes
	o No
•	Do you cut the hair of the site of injection with scissors?
	o Yes o No
	O NO
•	Do you previously check the site of injection for the absence of mass?
	o Yes
	o No
•	Before the injection, do you estimate the skin fold?
	o No
	o Yes → if so:
	Visual estimation
	<ul><li>Measurement with a calliper square</li><li>Measurement with a spring cutimeter</li></ul>
	o Weasdrement with a spring cutimeter
•	What do you use to inject tuberculin?
	A semi-automatic skin test syringe (Synthena-like)
	A Syringe tuberculin pistol (filled from the tuberculin flask)  A Remark to writing a
	<ul> <li>A Dermojet syringe</li> </ul>
•	Do you check if the antigen was correctly injected (formation of a pea-like mass at the site of injection)?
	o Yes
	o No
•	If you use a semi-automatic skin test syringe or a 'syringe tuberculin pistol', how often do you change the needle?
	o After each holding
	Once a week
	o Once a month
	<ul> <li>○ Less frequently → specify: every days</li> <li>○ After a skin-test at purchase</li> </ul>
	o Arter a skill-test at parchase

If you clean and/or disinfect the material of injection, how often?

	0	When it is defective
	0	Annual revision
	0	Revision every years
		Other: specify: every
Readir	ng of the	e response
•	After h	now long do you read the response?
		Mean: hours
	0	Maximum : hours
		Minimum : hours
•	How d	o you read the response (several responses possible)?
		From a distance
	0	Qualitative (observation of inflammatory clinical signs such as œdema, exsudation, necrosis, pain
	· ·	or inflammatory reaction of regional lymph nodes and vessels)
	0	Quantitative (Systematic measurement of the skin fold thickness with a spring cutimeter or a
	O	calliper square)
	0	Qualitative + quantitative
		$\cdot$
	0	Other — specify:
4 Gen	eral eni	demiological informations
7. <u>GCII</u>	<u>crai cpi</u>	demological mormations
•	When	are holdings skin testing carried out most of the time?
		During the winter campaign, when animals are indoor
		Outside the winter campaign
	O	outside the whiter cumpaign
•	Are pro	egnant females skin-tested when they get close to calving?
	-	
	0	No
•	What i	s the minimum age for calves to be skin-tested during a holding skin-testing? weeks
•	Do you	perform the skin test on an animal treated with a steroidal anti-inflammatory drug?
	-	Yes
	0	No
•	When	one or more animals of a same herd suffer(s) from chronic pneumonia resistant to a classical
		nent, do you perform the skin test on this/these animal(s)?
	0	Yes
	0	No
	O	
5. <u>In ca</u>	ase of a	positive or unconclusive reaction
•	If a ski	n-tested animal presents a positive or an inconclusive reaction, do you advise the farmer to isolate
	it?	
	0	Yes
	0	No

If you use a Dermojet syringe, how often do you make it revise?

•		•	esents a positive o	r inconclusive	e reaction, after how	long do you advise the sanitary
	author					
	0	Immediate	•			
	0	Within 12 h				
		Within 24 h				
		Within 48 h				
			specify: after	hours		
	0	You do not	advise			
•	If vou i	perform the	skin test again, afte	er how long?		
		2 weeks	, , , , ,			
	0	4 weeks				
	0	6 weeks				
	0	8 weeks				
	0	Other →	specify:	weeks		
1 14:1:		af awian tuba	منانيم			
Utili	<u>zation c</u>	of avian tube	ercuin			
•	Do you	ı use avian tı	uberculin in your pi	ractice, and if	so, at what frequenc	cy?
	0	Never				
	0	Occasionall	ly			
	0	Frequently				
	In case	of a frequer	nt use of avian tube	arculin in wh	at context do you use	ı i+2
•		•	of paratuberculosis	creami, in win	at context do you ast	. 10;
		•	ve tuberculin test			
		•	specify:			
	Ü	o cirici p	Specify:			<del></del>
Skin	testing	when an an	imal is introduced	into a new h	erd (purchase)	
					<u> </u>	
•	Do you	ı systematica	ally perform the ski	n test when a	an animal is introduce	ed in a herd?
	0	Yes				
	0	No				
	During	which mont	hs do vou perform	the more ski	n tests at purchase?	
		, willen mond □ January	nis do you periorii. ☐ April	the more ski	☐ July	☐ October
	_	☐ February	•		☐ August	☐ November
		☐ March	☐ June		☐ August ☐ September	☐ November
	L		□ Julie			
•	Is an a	nimal introdu	uced into a new he	rd isolated ur	ntil the performance	and reading of the skin test?
	0	Yes				
	0	No				
	In case	of an incond	clusive reaction at a	nurchasa do	you renest the skin t	est on the animal subsequently?
	0	Yes	ciasive reaction at	parenase, ao	you repeat the skin t	est on the animal subsequently:
	0	No				
	U	NO				
•	If you i	repeat the sk	kin test, after how I	ong?		
	0	After	days			
		After				
	-					
•	Do νοι	ı systematica	ally take notice of t	he animal's ic	lentification when ne	rforming a skin test at purchase?
•	•	•	ally take notice of t	he animal's ic	dentification when pe	rforming a skin test at purchase?
•	0	Yes	ally take notice of t	he animal's ic	dentification when pe	erforming a skin test at purchase?
•	•	•	ally take notice of t	he animal's ic	lentification when pe	rforming a skin test at purchase?

6.

7.

### 8. Personal opinion

•	What is the percentage of tuberculin doses you really use?%
•	Do you think the instructions regarding skin test methods and the use of tuberculin are sufficient?  o Yes o No
•	Would you wish an actualization of knowledge in matter of skin testing?  o Yes o No
•	Do you think skin testing, as a veterinary act, is valorized in an appropriate manner?  o Yes o No
•	Do you think you have the sufficient technical competence to perform the skin test?  o Yes o No
•	Do you think you perform the skin test in good security conditions ?  o Yes o No
•	In your practice, what is the percentage of herds in which you estimate there is a risk for your personal security when performing the skin test %  What are the reasons for this lack of security?
•	After your experience, is there an abnormally high rate of false positive reactions in your practice?  ○ No ○ Yes → If so, is there a period of the year when such a phenomenon is more often observed?  □ Winter □ Spring □ Summer □ Autumn
•	Do you hold a register in which you take notice of all the skin-tests you have performed (at purchase and general)?  O Yes
•	o No
	<ul> <li>○ No</li> <li>Could you specify the total number of skin-tests you have performed during the last 5 years?</li> <li>○ No</li> <li>○ Yes → If so, estimation of the number :</li> </ul>

We sincerely thank you for your precious collaboration and invite you to send back the present form, before December 15, **2007**, to the following address, in the pre-stamped envelope: Enquête tuberculines, Service d'Epidémiologie et Analyses des risques appliqués aux sciences vétérinaires, Faculté de Médecine Vétérinaire, boulevard de Colonster 20, B42, Sart-Tilman, 4000 Liège