## Supplementary Data: Survey questions

CONSENT (French version below English text)

You are invited to participate in a web-based online survey on Cannabis Toxicosis In Pets. This is a research project being conducted by Richard Quansah Amissah, a postdoctoral fellow in Dr. Jibran Khokhar's laboratory in the Department of Biomedical Sciences, Ontario Veterinary College, University of Guelph at the University of Guelph. It should take between 5 to 10 minutes to complete.

To be eligible to participate in this survey, you must:

- 1. be a practicing veterinarian,
- 2. be working in either Canada or the USA,
- 3. be treating pets, and
- 4. have treated or been presented with cases involving cannabis toxicosis in pets.

Your participation in this survey is voluntary. You may refuse to participate in the research or exit the survey at any time. You are free to decline to answer any particular question you do not wish to answer for any reason. You will receive no direct benefits from participating in this research study. However, your responses may help us learn more about and understand cannabis toxicosis in pets and may contribute to the development of better therapies for its treatment. There are no foreseeable risks involved in participating in this study other than those encountered in day-to-day life. Your survey answers will be sent to a link at Qualtrics.com where data will be stored in a password protected electronic format. Qualtrics does not collect identifying information such as your name, email address, or IP address. Therefore, your responses will remain anonymous meaning that no one will be able to identify you or your answers, and no one will know whether or not you participated in the study. If you have questions at any time about the study or the procedures, you may contact my research supervisor, Dr. Jibran Khokhar via email at jkhokhar@uoguelph.ca.

Please select your choice below. Clicking on the "Agree" button indicates that You have read the above information You voluntarily agree to participate

Please click "Agree" to complete the questionnaire or "Disagree" to opt out of the survey.

Vous êtes invités à participer un sondage en ligne sur la toxicose du cannabis chez les animaux de compagnie. Il s'agit d'un projet de recherche mené par Richard Quansah Amissah, stagiaire postdoctoral au

laboratoire de Dr. Jibran Khokhar, département des sciences biomédicales, Ontario Veterinary College, à l'Université de Guelph. Le sondage devrait prendre entre 5 et 10 minutes à compléter.

Pour être éligible à participer à ce sondage, vous devez:

- 1. Être un vétérinaire en exercice,
- 2. Travailler au Canada ou aux États-Unis,
- 3. Traiter les animaux de compagnie, et
- 4. Avoir traité ou avoir vu des cas de toxicose au cannabis chez des animaux de compagnie.

Votre participation à cette enquête est volontaire. Vous pouvez refuser de participer à la recherche ou quitter l'enquête à tout moment. Vous êtes libre de refuser de répondre à toute question particulière à laquelle vous ne souhaitez pas répondre pour quelque raison que ce soit. Vous ne recevrez aucun avantage direct en participant à cette étude de recherche. Cependant, vos réponses peuvent nous aider à en savoir plus et à comprendre la toxicose au cannabis chez les animaux de compagnie et peuvent contribuer au développement de meilleures thérapies pour son traitement. Il n'y a pas de risques prévisibles liés à la participation à cette étude autres que ceux rencontrés dans la vie de tous les jours. Vos réponses au sondage seront envoyées à un lien sur Qualtrics.com où les données seront stockées dans un format électronique protégé par mot de passe. Qualtrics ne collecte pas d'informations d'identification telles que votre nom, votre adresse courriel ou votre adresse IP. Par conséquent, vos réponses resteront anonymes, ce qui signifie que personne ne pourra vous identifier ou identifier vos réponses, et personne ne saura si vous avez participé ou non à l'étude. Si vous avez des questions à tout moment sur l'étude ou les procédures, vous pouvez contacter mon directeur de recherche, le Dr Jibran Khokhar par courriel à jkhokhar@uoguelph.ca.

Veuillez sélectionner votre choix ci-dessous. Cliquer sur le bouton « Accepter » indique que

Vous avez lu les informations ci-dessus

Vous acceptez volontairement de participer

Veuillez cliquer sur « J'accepte » pour remplir le questionnaire ou « Je ne suis pas d'accord » pour vous retirer de l'enquête.

O Agree (J'accepte)	
O Disagree (Je ne suis pas d'accord)	
End of Block: CONSENT	

Start of Block: SCREENER

Q0 Before proceeding further, do you answer "Yes" to all the following questions:
Are you a practicing veterinarian?
Do you work either in Canada or the USA?
Do you treat pets?
Have you been presented with cases involving "suspected or confirmed" cannabis toxicosis in pets?
O Yes
○ No
End of Block: SCREENER
Start of Block: DEMOGRAPHIC INFORMATION
Q1
In which country do you practice?
O Canada
○ us
Q1a In which province do you practice?
▼ Alberta Yukon
Q1b In which state do you practice?
▼ Alabama Wyoming
*
Q2 In which city do you practice?

Q3 In which setting is the hospital/clinic where you work?
O Urban
O Sub-urban
O Rural
O4 Which towns of containing and distinct to some series?
Q4 Which type of veterinary medicine do you practice?
C Emergency Medicine
O General Medicine
Other. Please specify
End of Block: DEMOGRAPHIC INFORMATION
Start of Block: EXPERIENCE AS A VETERINARIAN
Q5 How many pets do you personally see/treat in a month in general?
O 0 – 50
O 51 – 100
O 101 – 150
$\bigcirc$ 151 – 200
○ > 200

Q6 Which class	ses of pets do you treat? Please select all that apply.
	Mammals
	Reptiles
	Invertebrates
	Birds
	Amphibians
	Fish
Q6a Which typ	es of mammals do you treat? Please select all that apply.
	Cats
	Dogs
	Horses
	Pigs
	Goats
	Sheep
	Others. Please specify

. 71	es of reptiles do you treat? Please select all that apply.
	Snakes
	Lizards
	Iguanas
	Tortoises
	Turtles
	Others. Please specify
Q6c Which typ	es of invertebrates do you treat? Please select all that apply.
	Tarantulas
	Tarantulas Scorpions
	Scorpions
	Scorpions Insects
	Scorpions Insects Millipedes

26d Which typ	ses of birds do you treat? Please select all that apply.
	Doves
	Canaries
	Parrots
	Finches
	Cockatoos
	Others. Please specify.
Q6e Which typ	es of amphibians do you treat? Please select all that apply.
Q6e Which typ	es of amphibians do you treat? Please select all that apply.  Frogs
Q6e Which typ	
Q6e Which typ	Frogs
Q6e Which typ	Frogs Axolotls
Q6e Which typ	Frogs Axolotls Toads
Q6e Which typ	Frogs Axolotls Toads Salamanders

Q6f Which types of fish do you treat? Please select all that apply.	
	Beta
	Goldfish
	Angelfish
	Catfish
	Guppies
	Others. Please specify.
End of Block:	EXPERIENCE AS A VETERINARIAN
Start of Block	EXPERIENCE WITH TOXICOSIS
Q7 How was/v	vere the diagnosis/diagnoses reached for most of the "suspected or confirmed" cannabis? Please select all that apply.
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Q7 How was/v	were the diagnosis/diagnoses reached for most of the "suspected or confirmed" cannabis? Please select all that apply.  Based on supportive clinical signs
Q7 How was/v	were the diagnosis/diagnoses reached for most of the "suspected or confirmed" cannabis? Please select all that apply.  Based on supportive clinical signs  History of possible exposure
Q7 How was/v	were the diagnosis/diagnoses reached for most of the "suspected or confirmed" cannabis? Please select all that apply.  Based on supportive clinical signs  History of possible exposure  History of known exposure

Q8 How many "suspected or confirmed" cannabis toxicosis cases were you presented with <b>yearly</b> as the primary veterinarian <b>before cannabis legalization in Canada</b> (October 17, 2018)?
○ 1 – 12
O 13 – 24
$\bigcirc$ 25 – 36
O 37 – 48
$\bigcirc$ 49 – 60
○ > 60
Q9 How many "suspected or confirmed" cannabis toxicosis cases are you presented with <b>yearly</b> as the primary veterinarian <b>following cannabis legalization in Canada</b> (October 17, 2018)?
○ 1 – 12
$\bigcirc$ 13 – 24
$\bigcirc$ 25 – 36
$\bigcirc$ 37 – 48
$\bigcirc$ 49 – 60
○ > 60

Q10 Please select all the pet species that presented with "suspected or confirmed" cannabis toxicosis.		
	Cats	
	Dogs	
	Horses	
	Pigs	
	Goats	
	Sheep	
	Snakes	
	Lizards	
	Iguanas	
	Tortoises	
	Turtles	
	Doves	
	Canaries	
	Parrots	
	Finches	
	Cockatoos	

Frogs
Axolotls
Toads
Salamanders
Newts
Betas
Goldfish
Angelfish
Catfish
Guppies
Others. Please specify.

he pet species selected above, which species frequently presented with "suspectanabis toxicosis? Please select all that apply.	eted or
Cats	
Dogs	
Horses	
Pigs	
Goats	
Sheep	
Snakes	
Lizards	
Iguanas	
Tortoises	
Turtles	
Doves	
Canaries	
Parrots	
Finches	
Cockatoos	

	Frogs
	Axolotls
	Toads
	Salamanders
	Newts
	Betas
	Goldfish
	Angelfish
	Catfish
	Guppies
	Others. Please specify.
End of Block:	EXPERIENCE WITH TOXICOSIS
Start of Block: CAUSES OF TOXICOSIS	
Q12 In most cases, were the causes of the "suspected or confirmed" cannabis toxicosis known?	
○ Yes	
O No	

	product(s) often led to "suspected or confirmed" cannabis toxicosis in the pets you treated? all that apply.
	Edibles
	Capsulated cannabis products
	Dried cannabis
	Fresh/green cannabis plant material
	Tablets containing cannabinoids
	Cannabis smoke/vapor
	Cannabis topicals
	Cannabis concentrates
	Others. Please specify
Q14 How we	ere the products that led to the "suspected or confirmed" cannabis toxicosis in the pets obtained?
	From government regulated producers
	From home cultivated plants
	From the black market
	Unknown
	Others. Please specify.

	were the most popular route(s) of exposure to the cannabis products for pets that presented or confirmed" cannabis toxicosis? Please select all that apply?
	Ingestion
	Inhalation
	Topical application
	Tinctures
	Others. Please specify.
Q16 What was	/were the most common suspected reason(s) for exposure?
	Intentional administration for treatment
	Intentional administration for recreation
	Ingestion while unattended
	Unknown
	Other. Please specify
End of Block:	CAUSES OF TOXICOSIS

**Start of Block: SYMPTOMS OF TOXICOSIS** 

toxicosis? Pleas	se select all that apply.
	Anorexia
	Bradycardia
	Disorientation
	Diarrhea
	Hypertension
	Hypotension
	Increased anxiety
	Dry mouth/excessive drinking
	Polyphagia
	Vocalizing/crying
	Seizures
	Tachycardia
	Vomiting
	Lateral recumbency
	Urinary incontinence
	Lethargy

Q17 Which symptoms were frequently present in the pets following "suspected or confirmed" cannabis

	Stupor/obtundation	ı			
	Hypothermia				
	Tremors				
	Agitation				
	Respiratory depres	ssion			
	Ataxia				
	Mydriasis				
	Hyperesthesia				
	Twitching				
	Ptyalism				
	Others. Please spe	cify			
End of Block:	SYMPTOMS OF	TOXICOSIS			
Start of Block:	LOOP AND MEI	RGE 2			
Q18 Among the f \$ {lm://Field/	he frequencies bell 1}.	ow, please selec	t the one that	accurately describ	oes the frequency
	1	2	3	4	
Very often	0	$\circ$	$\circ$	$\circ$	Rare
End of Block:	LOOP AND MER	GE 2			

## Q19 Were any of the symptoms severe? Yes No

**Start of Block: SYMPTOM SEVERITY** 

Q20 Which syn	nptoms were severe? Please select all that apply.
	Anorexia
	Bradycardia
	Disorientation
	Diarrhea
	Hypertension
	Hypotension
	Increased anxiety
	Dry mouth/excessive drinking
	Polyphagia
	Vocalizing/crying
	Seizures
	Tachycardia
	Vomiting
	Lateral recumbency
	Urinary incontinence
	Lethargy

	Stupor/obtundation
	Hypothermia
	Tremors
	Agitation
	Respiratory depression
	Ataxia
	Mydriasis
	Hyperesthesia
	Twitching
	Ptyalism
	Other. Please specify
End of Block:	SYMPTOM SEVERITY

**Start of Block: FOLLOW UP** 

Q21 How long was the treatment/monitoring course for most of the "suspected or confirmed" cannabis toxicosis cases?
O Treated as out-patient
O Hospitalized for
O Hospitalized for 6-12 hours
O Hospitalized for 12-24 hours
O Hospitalized for 24-48 hours
O Hospitalized for 48-72 hours
O Hospitalized for >72 hours
Q22 Did any of the pets that presented with "suspected or confirmed" cannabis toxicosis return for follow-up?
○ Yes
○ No
Q23 How often did the pets that presented with "suspected or confirmed" cannabis toxicosis return for follow-up?
O Always
Often
O Sometimes
O Rarely
O Never

Q24 Were any residual	l symptoms present?		
O Yes			
○ No			

Q25 What were	the residual symptoms? Please select all that apply.
	Anorexia
	Bradycardia
	Disorientation
	Diarrhea
	Hypertension
	Hypotension
	Increased anxiety
	Dry mouth/excessive drinking
	Polyphagia
	Vocalizing/crying
	Seizures
	Tachycardia
	Vomiting
	Lateral recumbency
	Urinary incontinence
	Lethargy

	Stupor/obtundation
	Hypothermia
	Tremors
	Agitation
	Respiratory depression
	Ataxia
	Mydriasis
	Hyperesthesia
	Twitching
	Ptyalism
	Other. Please specify
End of Block:	FOLLOW UP
Start of Block	: TREATMENT
Q26 Did the sy	mptoms completely resolve for most cases following appropriate veterinary care?
O Yes	
O No	

Q27 What type	(s) of care was/were often provided for "suspected or confirmed" cannabis toxicosis?
	Outpatient monitoring and supportive care
	In-hospital monitoring only
	IV fluids
	Induction of emesis
	Administration of activated charcoal
	Administration of anti-emetics
	Thermal support (warming/cooling)
	EKG monitoring
	BP monitoring
	Use of anti-arrhythmics
	Use of anti-convulsants
	Administration of IV intra-lipids
	Other. Please specify.

Start of Block: DEATH FROM TOXICOSIS
\$\)\square \\$\ 1001 - 1500\$ \$\)\square \\$\ 1501 - 2000\$
○ \$ 1501 – 2000 ○ > \$ 2000 End of Block: TREATMENT Start of Block: DEATH FROM TOXICOSIS
O > \$ 2000  End of Block: TREATMENT  Start of Block: DEATH FROM TOXICOSIS
End of Block: TREATMENT Start of Block: DEATH FROM TOXICOSIS
Start of Block: DEATH FROM TOXICOSIS
Q29 Did any of the cases die due to cannabis toxicosis?
○ Yes
○ No
*
Q30 How many of the cases died due to cannabis toxicosis? Please enter a numerical figure.

Q31 What was/were the cause(s) of death(s)? Please select all that apply.	
	Cardiac arrhythmia
	Aspiration pneumonia
	Trauma from fall due to ataxia
	Uncontrolled seizures
	Euthanasia
	Other. Please specify
End of Block: DEATH FROM TOXICOSIS	