

## Antibiotic Resistance Awareness, Practice and Context Survey – Animal Health Care Practitioners

Thank you for taking part in this survey on Antibiotic Resistance.

The survey will begin by asking you to give some general details about yourself and your professional background.

After this, the survey will ask you a section of questions about antibiotics, your work, and the context where you work. Your responses are confidential and we ask you to answer accurately as your responses may help to change what information and resources are provided in the future.

### Profile of Participant

Please indicate the answers to the following questions about yourself:

My age is \_\_\_\_\_ (text)

My gender is \_\_\_\_\_ (Male/Female/Prefer not to say)

My profession is \_\_\_\_\_ (Veterinarian/Veterinary Pharmacist/Veterinary Assistant)

My specialism is \_\_\_\_\_ (Small Animals/Exotic Animals/Wild Animals/Ruminants, Pigs, Horses/Poultry/Aquaculture/Not Applicable) tick all that apply

I have been prescribing/dispensing antibiotics for \_\_\_\_\_ years (year drop down)

I currently work in \_\_\_\_\_ (Public Practice/Private Practice/Both Public and Private Practice)

How often do you have sole responsibility for deciding if an animal should be prescribed/dispensed an antibiotic? \_\_\_\_\_ (For all the animals I prescribe and/or dispense antibiotics for/For half the animals I prescribe and/or dispense antibiotics for/Occasionally/Never)

In your place of work, how many staff do you advise on their prescribing and/or dispensing of antibiotics? \_\_\_\_\_ (I advise all of the staff at my facility on the antibiotics they prescribe and/or dispense/I advise the majority of staff at my facility on the antibiotics they prescribe and/or dispense/I advise a few of the staff at my facility on the antibiotics they prescribe and/or dispense/I do not advise any of the staff at my facility on the antibiotics they prescribe and/or dispense)

## Module 1. HCP AMR Awareness Scale v1

This section of the survey asks you to consider to what extent do you **agree** or **disagree** with the following statements about antibiotics and antibiotic resistance

		<b>Strongly Agree/Agree/Disagree/Strongly Disagree</b>			
1.	Antibiotic resistance is when a microorganism becomes resistant to antibiotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Some microorganisms can mutate and therefore become resistant to antibiotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Some microorganisms can transfer resistance by exchanging genetic material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Antibiotic resistance can develop if antibiotics are given when they are not indicated, for example, when an animal has a viral infection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Antibiotic resistance can develop if courses of antibiotic treatment are interrupted, for example, stopping and starting administering a course of antibiotics halfway through	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Antibiotic resistance can develop if antibiotics are given to animals in lower than recommended doses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Antibiotic resistance can develop if antibiotics are used to treat bacterial colonisation rather than bacterial infection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	Antibiotic resistance can develop if antibiotics are used as a 'just in case measure' for any animal having a routine procedure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Antibiotic resistance can develop if broad-spectrum antibiotics are used when a narrow-spectrum antibiotic would resolve the infection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Antibiotic resistance can develop if antibiotics are used in livestock feed to promote animal growth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Antibiotic resistance can develop if human antibiotics are used to treat infections in animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Antibiotic resistance can develop if antibiotics are present in human sewerage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Antibiotic resistance can develop if antibiotics are discarded into the environment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.	Resistant infections can spread from veterinary care facilities including clinics and pharmacies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	Resistant infections can spread from pets within residential areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.	Resistant infections can spread from livestock farms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.	Resistant infections can spread through waste water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.	Strict hand hygiene before and after contact with animals can help prevent the spread of antibiotic resistance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

19.	Isolation of infected animals can help prevent the spread of antibiotic resistance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.	Appropriate environmental cleaning/biosecurity measures can help prevent the spread of antibiotic resistance between animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.	Wearing personal protective equipment such as gloves, masks and aprons can help prevent the spread of antibiotic resistance between animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22.	I recognise that an animal has a resistant infection when the animal remains unresponsive to a number of different antibiotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23.	I recognise that an animal has a resistant infection by sending them for culture and sensitivity testing at a laboratory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Module 2. Practices

Within your daily practice, you may have to decide what to do when a prescribed/dispensed course of antibiotics does not work. Keeping this in mind, to what extent do you **agree** or **disagree** with the following statements?

		<b>Strongly Agree/Agree/Disagree/Strongly Disagree</b>			
24.	If a course of antibiotics does not work, I prescribe another course of the same antibiotic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25.	If a course of antibiotics does not work, I prescribe the same antibiotic again but I change the dosage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26.	If a course of antibiotics does not work, I prescribe the same antibiotic but I change the brand or manufacturer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27.	If a course of antibiotics does not work, I send a patient for culture and sensitivity testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28.	If a course of antibiotics does not work, I change to a different group of antibiotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29.	If a course of antibiotics does not work, I stop all antibiotic treatment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30.	I know some antibiotics are not working because we have resistance, so I prefer to prescribe next-line antibiotics as a first line treatment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Within your daily practice, you may have encountered antibiotic resistance and you may have recognised it in different ways. Keeping this in mind, to what extent do you **agree** or **disagree** with the following statements?

		<b>Strongly Agree/Agree/Disagree/Strongly Disagree</b>			
31.	I prescribe/dispense antibiotics as prophylaxis when I am concerned about surgical site infections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32.	I prescribe/dispense antibiotics as prophylaxis after every surgery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

33.	I prescribe/dispense antibiotics as prophylaxis when I am unlikely to see an animal for follow up	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34.	I prescribe/dispense antibiotics when I think an animal is living in an environment where the standard of hygiene and sanitation is low	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35.	I recognise that an animal has a resistant infection, when the antibiotic that normally cures this condition isn't making any difference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36.	I recognise that an animal has a resistant infection when the animal remains unresponsive to a number of different antibiotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37.	I recognise that an animal has a resistant infection, when I have had previous encounters with similar cases	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Module 3. Context

This section of the survey will present you with statements about Antibiotic Resistance, the availability of resources and other issues that may arise in the setting where you prescribe and/or dispense antibiotics. Please indicate to what extent do you **agree** or **disagree** with the following statements

		<b>Strongly Agree/Agree/Disagree/Strongly Disagree</b>			
38.	In my own work, I am certain that I have encountered an animal with a resistant infection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39.	The cost of antibiotic medicines affects which antibiotic I decide to prescribe/dispense	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40.	The availability of antibiotic medicines affects which antibiotic I decide to prescribe/dispense	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41.	Previous success in other animals I have treated affects which antibiotic I decide to prescribe/dispense	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42.	The side effects of antibiotic medicines affect which antibiotic I decide to prescribe/dispense	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43.	The spectrum of antibiotic medicines (whether they are broad or narrow spectrum) affects which antibiotic I decide to prescribe/dispense	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44.	Pressure from animal owners affects my decision to prescribe/dispense antibiotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45.	The availability of laboratory services affects my decision to prescribe/dispense antibiotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
46.	My ability to access the medical record or history of the animal I am treating affects my decision to prescribe/dispense antibiotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
47.	The fear of legal sanctions (such as being sued) affects my decision to prescribe/dispense antibiotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48.	If I do not prescribe/dispense an antibiotic, there could be a worse health outcome for the animal I am treating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

49.	If I do not prescribe/dispense an antibiotic the owner of the animal I am treating could be disappointed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50.	If I do not prescribe/dispense an antibiotic my reputation could be damaged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
51.	If I do not prescribe/dispense an antibiotic my business could suffer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
52.	I was taught everything I needed to know about Antibiotic Resistance as part of my training curriculum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
53.	The information and training I currently receive on Antibiotic Resistance is adequate for my day-to-day practice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
54.	I have attended specific training on Antibiotic Resistance and/or Antibiotic Stewardship	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
55.	I have access to data on local Antibiotic Resistance patterns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
56.	I receive data on local Antibiotic Resistance patterns at my place of work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
57.	Someone at my place of work is monitoring Antibiotic Resistance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
58.	My facility has the capacity to provide culture and sensitivity testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
59.	There is a nearby facility that I can send samples to if I need culture and sensitivity testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
60.	I am confident that the facility I use for culture and sensitivity testing has functional equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
61.	I am confident that the facility I use for culture and sensitivity will always be fully staffed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please share information about the situation in your place of work.

		<b>Yes</b>	<b>No</b>
62.	I always have running water at my place of work	<input type="checkbox"/>	<input type="checkbox"/>
63.	I always have electricity at my place of work	<input type="checkbox"/>	<input type="checkbox"/>
64.	I am always able to prescribe/dispense the best antibiotic for the infection I am treating at my place of work	<input type="checkbox"/>	<input type="checkbox"/>
		<b>Strongly Agree/Agree/Disagree/Strongly Disagree</b>	
65.	At my place of work, I consider malnutrition in animals a higher concern than antibiotic resistance	<input type="checkbox"/>	<input type="checkbox"/>
66.	At my place of work, I consider chronic disease in animals a higher concern than antibiotic resistance	<input type="checkbox"/>	<input type="checkbox"/>
67.	At my place of work, I consider the level of hygiene and sanitation of an animal's environment a higher concern than antibiotic resistance	<input type="checkbox"/>	<input type="checkbox"/>
68.	At my place of work, I consider trauma and accidents in animals a higher concern than antibiotic resistance	<input type="checkbox"/>	<input type="checkbox"/>

Information about antibiotics and antibiotic resistance may come from different people and places. Keeping this in mind, please indicate yes or no to the following statements

		<b>Yes</b>	<b>No</b>
69.	I am exposed to advertising on antibiotics	<input type="checkbox"/>	<input type="checkbox"/>
70.	I am aware of campaigns about antibiotic resistance	<input type="checkbox"/>	<input type="checkbox"/>

Medical representatives may interact with veterinarians who prescribe and dispense antibiotics. Keeping this in mind, please indicate 'Often' 'Sometimes' or 'Never' to the following statements

		<b>Often</b>	<b>Sometimes</b>	<b>Never</b>
71.	Medical representatives provide veterinarians with information on antibiotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
72.	Medical representatives provide veterinarians with samples of antibiotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Information about Antibiotic Resistance may help you in your daily practice when you prescribe and dispense antibiotics. Keeping this in mind, please indicate **Yes** or **No** to the following statements.

		<b>Yes</b>	<b>No</b>
73.	I would like to receive more information about Antibiotic Resistance	<input type="checkbox"/>	<input type="checkbox"/>
74.	I would like to receive more information about Antibiotic Resistance at my place of work	<input type="checkbox"/>	<input type="checkbox"/>
75.	I would like to receive more information about Antibiotic Resistance online	<input type="checkbox"/>	<input type="checkbox"/>
76.	I would like the opportunity to take part in further training regarding Antibiotic Resistance	<input type="checkbox"/>	<input type="checkbox"/>

You have now completed the survey. Thank you for your time. Please don't forget to click the button to submit your answers.

When you have finished the survey please click the **'submit'** button.