

Enhanced assessment of knowledge, attitudes and practices; and, intervention (KAP+) on antimicrobial resistance and antimicrobial use

INTERVIEWEE IDENTIFICATION			
INTERVIEWEE NUMBER:	HOUSEHOLD NUMBER:	DATE OF VISIT:	
INTERVIEWER'S NAME:		TIME OF VISIT:	
RECORD TIME AT THE BEGINNING OF INTERVIEW:		RECORD TIME AT THE END OF THE INTERVIEW:	
RESULTS: _____ _____ _____	RESULTS CODE: 1 = completed 2 = not at home 3 = postponed	4 = refused 5 = partially completed 6 = no eligible person	7 = dropped out 8 = other (specify)

(PRIORITY DEMOGRAPHICS)

001	What is your highest education level attained?	<input type="checkbox"/> Finished Post-Graduate Studies <input type="checkbox"/> Finished Graduate Studies <input type="checkbox"/> Finished College/Bachelor <input type="checkbox"/> Finished Certificate/Polytechnic/Technical <input type="checkbox"/> Finished High School <input type="checkbox"/> Finished Elementary <input type="checkbox"/> Some schooling but did not finish elementary <input type="checkbox"/> Did not go to school	...7 ...6 ...5 ...4 ...3 ...2 ...1 ...0
002	What profession do you consider yourself in?	<input type="checkbox"/> Government Veterinarian <input type="checkbox"/> Non-Government Veterinarian <input type="checkbox"/> Para-Veterinarian/Animal health worker <input type="checkbox"/> Animal health authority (Non-veterinarian) <input type="checkbox"/> Others (Please specify): _____	...0 ...1 ...2 ...3 ...4
003	Age	_____	
004	How many years of experience do you have in your work?	<input type="checkbox"/> Less than 1 year <input type="checkbox"/> 1 year to 2 years <input type="checkbox"/> More than 2 years to 5 years <input type="checkbox"/> More than 5 years to 10 years <input type="checkbox"/> Over 10 years	...0 ...1 ...2 ...3 ...4
005	Gender	<input type="checkbox"/> Male <input type="checkbox"/> Female	...0 ...1
006	Have you encountered or experienced animal disease outbreaks in the last 12 months?	<input type="checkbox"/> Highly Pathogenic Avian Influenza/Bird flu <input type="checkbox"/> Foot and Mouth Disease (FMD) <input type="checkbox"/> Classical swine fever/Swine Cholera <input type="checkbox"/> Swine Flu <input type="checkbox"/> Newcastle Disease <input type="checkbox"/> Others (please specify): _____	...6 ...5 ...4 ...3 ...2 ...1

		__ No animal disease outbreaks	...0
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KNOWLEDGE-RELATED QUESTIONS

001	Can you describe what antibiotics are?	__ Yes __ No __ Don't know (go to Q3)	...1 ...0 ...0
002	Please list three antibiotics that you know.	a. _____ b. _____ c. _____ d. Can't remember (Don't read out until the respondent cannot provide answer)	...1 ...1 ...1 ...0
003	Have you heard of antibiotic resistance?	__ Yes __ No (Go to Q6)	...1 ...0
004	Select in the list below, what best describes <u>antibiotic resistance</u> . (please select all that apply)	__ Antibiotic resistance is dangerous but don't know how to describe __ When an infection cannot be treated because the medicine is ineffective __ When bacteria develop resistance to one or more antibiotics __ I'm not sure or don't know (Don't read out until the respondent cannot provide answer)	...1 ...1 ...1 ...0
005	Where did you hear about antibiotic resistance?	__ From TV, please specify channel or program: _____ __ From radio, please specify station or program: _____ __ From my friends __ From a village seminar __ Social media such as Facebook, Twitter or Instagram __ Others: _____	...1 ...1 ...1 ...1 ...1 ...1
006	Please list three antimicrobials that you know	a. _____ b. _____ c. _____ Can't remember (Don't read out until the respondent cannot provide answer)	...1 ...1 ...1 ...0
007	Which of the following are considered antimicrobials? Select all that applies.	__ Antibacterials __ Antifungals __ Antivirals __ Antivenom __ Antiparasitics __ None of the above	...1 ...1 ...1 ...0 ...1 ...0

008	Which of the following best describes your understanding of AMR?	<input type="checkbox"/> I have no idea what is AMR <input type="checkbox"/> I have a little idea about AMR but not sure if correct <input type="checkbox"/> I understand basic information on AMR <input type="checkbox"/> I understand how AMR arises, and how it spreads <input type="checkbox"/> I have an advanced understanding of AMR	...0 ...1 ...2 ...3 ...4
009	All antimicrobials in humans are also used in animals, and all antimicrobials in animals are also used in humans.	<input type="checkbox"/> True <input type="checkbox"/> False <input type="checkbox"/> Other responses: _____	...0 ...1 ...1
010	Do you think there a difference between antibiotics and antimicrobials?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	...1 ...0 ...0
011	Can you describe what antibiotics are?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know (go to Q3)	...1 ...0 ...0
012	Please list three antibiotics that you know.	a. _____ b. _____ c. _____ d. Can't remember (Don't read out until the respondent cannot provide answer)	...1 ...1 ...1 ...0
013	Have you heard of antibiotic resistance?	<input type="checkbox"/> Yes <input type="checkbox"/> No (Go to Q6)	...1 ...0
014	Select in the list below, what best describes <u>antibiotic resistance</u> . (please select all that apply)	<input type="checkbox"/> Antibiotic resistance is dangerous but don't know how to describe <input type="checkbox"/> When an infection cannot be treated because the medicine is ineffective <input type="checkbox"/> When bacteria develop resistance to one or more antibiotics <input type="checkbox"/> I'm not sure or don't know (Don't read out until the respondent cannot provide answer)	...1 ...1 ...1 ...0
015	Where did you hear about antibiotic resistance?	<input type="checkbox"/> From TV, please specify channel or program: _____ <input type="checkbox"/> From radio, please specify station or program: _____ <input type="checkbox"/> From my friends <input type="checkbox"/> From a village seminar <input type="checkbox"/> Social media such as Facebook, Twitter or Instagram <input type="checkbox"/> Others: _____	...1 ...1 ...1 ...1 ...1 ...1
016	Please list three antimicrobials that you know	a. _____ b. _____ c. _____	...1 ...1 ...1

		Can't remember (Don't read out until the respondent cannot provide answer)	...0
017	Which of the following are considered antimicrobials? Select all that applies.	<input type="checkbox"/> Antibacterials <input type="checkbox"/> Antifungals <input type="checkbox"/> Antivirals <input type="checkbox"/> Antivenom <input type="checkbox"/> Antiparasitics <input type="checkbox"/> None of the above	...1 ...1 ...1 ...0 ...1 ...0

ATTITUDE-RELATED QUESTIONS

001	From a scale of 1 to 5 (1 being the least serious and 5 being very serious) how would you rate your situation if one of your family members had an infection that cannot be treated with medicine?	<input type="checkbox"/> Very Serious <input type="checkbox"/> Serious <input type="checkbox"/> Moderately Serious <input type="checkbox"/> Slightly Serious <input type="checkbox"/> Least Serious	...5 ...4 ...3 ...2 ...1
002	Are you worried or concerned about how prepared you are in handling AMR issues in the future?	<input type="checkbox"/> Seriously concerned <input type="checkbox"/> Concerned <input type="checkbox"/> Slightly concerned <input type="checkbox"/> Not concerned at all <input type="checkbox"/> I have no opinion (Do not read to respondent until you are sure that they don't have an answer)	...4 ...3 ...2 ...1 ...0

003. The following statements are what other people feel about antibiotics and antimicrobials. Please rate your opinion on the following statements whether you: **1 = Strongly disagree; 2 = Disagree; 3 = Neutral; 4 = Agree; or, 5 = Strongly Agree:**

Attitude Statements ²	1	2	3	4	5
When animals start to show signs of being ill, they should be given antibiotics to prevent them from getting a more serious illness ²					
Antibiotics would help animals to get better more quickly ²					
Anti-biotic should be stopped as soon as the animal gets better ²					
Skipping one or two doses does not contribute to the development of antibiotic resistance ²					
Antibiotics are safe; hence, they can be commonly used ²					

I find it important to always advise others that antimicrobials such as antibiotics protect both humans and animals from diseases					
Antibiotics are important to improve animal production					
Dispensing of antibiotics only upon prescription should be strictly enforced					

² Modified from Ahmad et al., 2015

004. How do you think the following factors would affect your decision when prescribing/administering antimicrobials?

<i>Normative Expectations</i>					
	1 No influence	2 Limited influence	3 Moderate influence	4 Substantial influence	5 Very strong influence
Opinions of my family members					
Laboratory data					
Opinions of the private industry					
Client/farmer expectations					
Opinions of Veterinary Professional groups					
Data in scientific journals					
Data from online search engines such as Google, Yahoo, Bing					
Potential earnings or financial gain					
Opinions of other veterinarians					
Adherence to laws and legislation					
Other factors (please identify): _____					

PRACTICE/BEHAVIOUR-RELATED QUESTIONS

001	What are the three most common antibiotics that you prescribe/administer?	__A. _____	...1
		__B. _____	...1
		__C. _____	...1
		__Can't remember	...0

002	Where do you source the antibiotics you prescribe/administer? (Select all that apply)	<input type="checkbox"/> From reputable suppliers/distributor/representative <input type="checkbox"/> Animal feed store/animal pharmaceutical store <input type="checkbox"/> Human pharmacy <input type="checkbox"/> Others: (please specify) _____	...1 ...1 ...1 ...1
003	Do you always issue a prescription when advising to use antibiotics for use in farms?	<input type="checkbox"/> Yes <input type="checkbox"/> Sometimes <input type="checkbox"/> No	...2 ...1 ...0
004	If you answer "sometimes" or "no", please tell us why? (Select all that apply)	<input type="checkbox"/> It's not required by the law <input type="checkbox"/> It is not required by my organization/business <input type="checkbox"/> I don't feel the need <input type="checkbox"/> The clients prefer not to get the prescription <input type="checkbox"/> Others: (Please specify) _____	...0 ...1 ...2 ...3 ...4
005	How do you advise the use/administer antibiotics in your client's farm?	<input type="checkbox"/> As prescribed or as per manufacturer's recommendations <input type="checkbox"/> More than what was prescribed or manufacturer's recommendations <input type="checkbox"/> Stop using before the end of the prescribed course or manufacturer's recommendations <input type="checkbox"/> For as long as I feel suitable <input type="checkbox"/> Others: _____	...0 ...1 ...2 ...3 ...4
006	Do you keep a record of number of prescriptions you issue to clients	<input type="checkbox"/> Yes <input type="checkbox"/> No	...1 ...0
007	Have you advised the use of antibiotics to treat any of the following diseases? (Select all that apply)	<input type="checkbox"/> Highly Pathogenic Avian Influenza/Avian flu <input type="checkbox"/> Foot and mouth disease <input type="checkbox"/> Classical swine fever <input type="checkbox"/> Newcastle disease <input type="checkbox"/> Others: _____	...1 ...1 ...1 ...1 ...1
008	What do you usually advise to clients/farmers when they have excess antibiotics (Select all that apply)	<input type="checkbox"/> Throw in the garbage <input type="checkbox"/> Bury in the ground <input type="checkbox"/> Burn them <input type="checkbox"/> Give to neighbors/other farmers <input type="checkbox"/> Keep them for future use <input type="checkbox"/> Others: _____	...1 ...1 ...1 ...1 ...1 ...1
009	What do you usually advise to clients/farmers when they have expired antibiotics (Select all that apply)	<input type="checkbox"/> Throw in the garbage <input type="checkbox"/> Bury in the ground <input type="checkbox"/> Burn them <input type="checkbox"/> Give to neighbors/other farmers <input type="checkbox"/> Keep them for future use <input type="checkbox"/> Others: _____	...1 ...1 ...1 ...1 ...1 ...1

POLICY ENVIRONMENT

001	Is there a national policy in your country concerning the use of antimicrobials such as antibiotics?	<input type="checkbox"/> Yes <input type="checkbox"/> No	...1 ...0
002	If yes, please enumerate those that you can remember.	<input type="checkbox"/> a. _____ <input type="checkbox"/> b. _____ <input type="checkbox"/> c. _____	...1 ...1 ...1
003	How would you rate the effectiveness of those policies in regulating antimicrobial use in a scale of 1 to 4, where 1 = least effective, 2 = somewhat effective, 3 = effective, 4 = very effective?	<input type="checkbox"/> Least effective <input type="checkbox"/> Somewhat Effective <input type="checkbox"/> Effective <input type="checkbox"/> Very Effective	...1 ...2 ...3 ...4
004	In your assessment, what do you think are the factors that contribute to the level of effectiveness of policies on antimicrobial use?	<input type="checkbox"/> a. _____ <input type="checkbox"/> b. _____ <input type="checkbox"/> c. _____	...1 ...1 ...1
005	If you could suggest actions to prevent and control antimicrobial resistant, what would these be?	<input type="checkbox"/> a. _____ <input type="checkbox"/> b. _____ <input type="checkbox"/> c. _____	...1 ...1 ...1
006	Based on your experience, what do you think are the least understood aspects about antibiotics among people?	<input type="checkbox"/> a. _____ <input type="checkbox"/> b. _____ <input type="checkbox"/> c. _____	...1 ...1 ...1

COMMUNICATION PREFERENCE QUESTIONS

001. Please rank your top three most preferred source of news (**Let respondent tell you the first three sources of entertainment. Rank in the table below**). Please indicate on average your time spent seeking entertainment your top three sources of news. (**Ask respondent how much time they spend for their top three sources. Complete table below**)

Source	Rank (1-3)	Average time (hours/per day)			
		Less than 1 hour	1-2 hours	2-4 hours	More than 4 hours
Television					
Radio					
Newspaper					
Internet					
Social media					
Others: _____					

002. Please rank your top three most preferred source of entertainment (**Let respondent tell you the first three sources of entertainment. Rank in the table below**). Please indicate on average your time spent seeking entertainment your top three sources of entertainment. (**Ask respondent how much time they spend for their top three sources. Complete table below**)

Source	Rank (1-3)	Average time (hours/per day)			
		Less than 1 hour	1-2 hours	2-4 hours	More than 4 hours
Television					
Radio					
Newspaper					
Internet					
Social media					
Others: _____					

003. Please assess the time you spent using the media on an average day. Which one do you tend to do more: watching the news or watching entertainment? Please indicate your preferred media consumption using the continuum below. (**Present table below to respondents and let them point how they would rate their media consumption purpose**)

News				Entertainment
○	○	○	○	○

004	Which media/informational sources do you usually seek information on	___Television ___Radio ___Internet ___Social media	...1 ...1 ...1 ...1
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	animal health issues? (Select all that apply)	<input type="checkbox"/> Animal health worker <input type="checkbox"/> Other: _____	...1 ...1
005	Please rate your interest in learning more about antimicrobials such as antibiotics.	<input type="checkbox"/> Interested <input type="checkbox"/> Neutral <input type="checkbox"/> Not interested	...3 ...2 ...1

06 From the following list, rank the top three information materials you find most useful for providing information on animal health/farm issues.

Source	Rank (1-3)
Vet School	
Symposia and conferences in university	
Online courses	
Online websites and links	
Documentary	
Television	
Newspaper	
Online blogs	
Social media	
Others (please specify)	