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

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

(PRIORITY DEMOGRAPHICS)

#	Question	Answer with choices	Code	
SD1	What is your	Finished Post-Graduate Studies	_post-graduate	7
	highest education	Finished Graduate Studies	_graduate	6
	level attained?	Finished College/Bachelor	_college	5
		Finished Certificate/Polytechnic/Technical	_technical	4
		Finished High School	_high school	3
		Finished Elementary	_elementary	2
		Some schooling but did not finish	_some schooling	1
		elementary		
		Did not go to school	_none	0
SD2	What profession	Government Veterinarian	_gov vet	0
	do you consider	Non-Government Veterinarian	_non-gov vet	1
	yourself in?	Para-Veterinarian	_para-vet	2
		animal health worker	_health worker	2
		Animal health authority (Non-veterinarian)	_non-vet	3
		Others (Please specify):	_*input*	4
SD3	Age		_*input age*	
SD4	How many years	Less than 1 year	_less than 1 yr	0
	of experience do	1 year to 2 years	_1-2 yrs	1
	you have in your	More than 2 years to 5 years	_2-5 yrs	2
	work?	More than 5 years to 10 years	_5-10 yrs	3
		Over 10 years	_10+ yrs	4
SD5	Gender	Male	_male	0
		Female	_female	1
		Other (please specify):	_*input*	2

SD6	Have you encountered or experienced animal disease outbreaks in the last 12 months?	Yes (Proceed to SD7)No animal disease outbreaks (skip SD7)	_yes _no	1
SD7	If yes on SD6, what animal disease outbreaks Have you encountered or experienced in the last 12 months?	Highly Pathogenic Avian Influenza/Bird fluFoot and Mouth Disease (FMD)Classical swine fever/Swine CholeraSwine FluNewcastle DiseaseOthers (please specify):	_yes/no _yes/no _yes/no _yes/no _yes/no _*input*/no	6 5 4 3 2 1

KNOWLEDGE-RELATED QUESTIONS

#	Question	Answer with choices	Code	
K1	Can you describe	Yes	_yes	1
	what antibiotics	No	_no	0
	are?	Don't know (go to K3)	_don't know	0
K2	Please list three	a	_*input name*	1
	antibiotics that	b	_*input name*	1
	you know.	c	_*input name*	1
		d.Can't remember (Don't read out until the	_can't remember	0
		respondent cannot provide answer)		
		na	_na	0
К3	Have you heard of	Yes	_yes	1
	antibiotic	No (Go to K6)	_no	0
	resistance?			
K4	Select in the list	Antibiotic resistance is dangerous but don't	_yes/no/ na	1/0
(a-	below, what best	know how to describe (K4a)	, ,	1 /0
d)	describes	When an infection cannot be treated	_yes/no/ na	1/0
	antibiotic	because the medicine is ineffective (K4b)		1 /0
	resistance. (please select all that	When bacteria develop resistance to one or more antibiotics (K4c)	_yes/no/ na	1/0
	apply)	I'm not sure or don't know (Don't read out	_don't know/ na	0
	арріу)	until the respondent cannot provide	_uon t know/na	0
		answer) (K4d)		
		answery (Kray		
K5	Where did you	From TV, please specify channel or	_*input*/no	1/0
(a-	hear about	program: (K5a)		
f)	antibiotic	, , , From radio, please specify station or	_*input*/no	1/0
	resistance?	program: (K5b)		
		From my friends (K5c)	_yes/no	1/0
		, From a village seminar (K5d)	_yes/no	1/0
		Social media such as Facebook, Twitter or	_yes/no	1/0
		Instagram (K5e)		
		Others: (K5f)	_*input*/no	1/0
		(1.0.7)		
K6	Please list three	a	_*input name*	1
	antimicrobials	b	*input name*	1
	that you know	C	_*input name*	1
		Can't remember (Don't read out until the	_can't remember	0
		respondent cannot provide answer)		
K7	Which of the	Antibacterials (K7a)	_yes/no	1/0
(a-	following are	Antifungals (K7b)	_yes/no	1/0
f)	considered	Antivirals (K7c)	_yes/no	1/0

	antimicrobials? Select all that applies.	Antivenom (K7d)Antiparasitics (K7e)None of the above (K7f)	_yes/no _yes/no _yes/no	0/1 1/0 0/1
110				
K8	Which of the following best	I have no idea what is AMR I have a little idea about AMR but not sure	_no idea _little idea	0 1
	describes your	if correct		1
	understanding of	I understand basic information on AMR	_basic info	2
	AMR?	I understand how AMR arises, and how it	_understand how	3
		spreads	it spreads	
		I have an advanced understanding of AMR	_advanced	4
K9	All antimicrobials	True	_true	0
	in humans are	False	_false	1
	also used in	Other responses:	_*input response*	1
	animals, and all			
	antimicrobials in			
	animals are also			
	used in humans.			
K10	Do you think there	Yes	_yes	1
	a difference	No	_no	0
	between	Don't know	_don't know	0
	antibiotics and			
	antimicrobials?			

ATTITUDE-RELATED QUESTIONS

A1	From a scale of 1 to 5 (1	Very Serious	_very serious	5
	being the least serious	Serious	_serious	4
	and 5 being very serious)	Moderately Serious	_moderately serious	3
	how would you rate your	Slightly Serious	_slightly serious	2
	situation if one of your	Least Serious	_least serious	1
	family members had an			
	infection that cannot be			
	treated with medicine?			
A2	Are you worried or	Seriously concerned	_seriously concerned	4
	concerned about how	Concerned	_concerned	3
	prepared you are in	Slightly concerned	_slightly concerned	2
	handling AMR issues in	Not concerned at all	_not concerned at all	1
	the future?	No opinion (Do not read to respondent	_no opinion	0
		until you are sure that they don't have		
		an answer)		

A3(a-h). 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
(A3a) When animals start to show signs of being ill, they					
should be given antibiotics to prevent them from					
getting a more serious illness ²					
(A3b) Antibiotics would help animals to get better more quickly ²					
(A3c) Anti-biotic should be stopped as soon as the					
animal gets better ²					
(A3d) Skipping one or two doses does not contribute to					
the development of antibiotic resistance ²					
(A3e) Antibiotics are safe; hence, they can be commonly					
used ²					
(A3f) I find it important to always advise others that					
antimicrobials such as antibiotics protect both humans					
and animals from diseases					
(A3g) Antibiotics are important to improve animal					
production					
(A3h) Dispensing of antibiotics only upon prescription					
should be strictly enforced					

² Modified from Ahmad et al., 2015

A4(a-l). How do you think the following factors would affect your decision when prescribing/administering antimicrobials?

Normative Expectations							
	1 No influence	2 Limited influence	3 Moderate influence	4 Substantial influence	5 Very strong influence		
(A4a) Opinions of my family members (A4b) Laboratory data (A4c) Opinions of the private industry							
(A4d) Client/farmer expectations (A4e) Opinions of Veterinary Professional groups							
(A4f) Data in scientific journals (A4g) Data from online search engines such as Google, Yahoo, Bing							
(A4h) Potential earnings or financial gain (A4i) Opinions of other veterinarians							
(A4j) Adherence to laws and legislation (A4k) Other factors (please identify): (A4l)							

PRACTICE/BEHAVIOUR-RELATED QUESTIONS

#	Question	Answer with choices	Code	
P1	What are the three most	A	_*insert name*	1
	common antibiotics that	B	_*insert name*	1
	you prescribe/administer?	C	_*insert name*	1
		Can't remember	_can't remember	0
P2	Where do you source the	From reputable	_yes/no	1
(a-d)	antibiotics you	suppliers/distributor/representative (P2a)		
	prescribe/administer? (Sele	Animal feed store/animal	_yes/no	1
	ct all that apply)	pharmaceutical store (P2b)		
		Human pharmacy (P2c)	_yes/no	1
		Others: (please specify)(P2d)	_*input*/no	1
P3	Do you always issue a	Yes	_yes	2
	prescription when advising	Sometimes	_sometimes	1
	to use antibiotics for use in	No	_no	0
	farms?			
P4	If you answer "sometimes"	It's not required by the law	_not required by law	0
	or "no", please tell us why?	It is not required by my	_not required by	1
	(Select all that apply)	organization/business	business	
		I don't feel the need	_don't feel the need	2
		The clients prefer not to get the	_clients don't prefer	3
		prescription		
		Others: (Please specify)	_*input*	4
P5	How do you advise the	As prescribed or as per manufacturer's	_as presc	0
	use/administer antibiotics	recommendations		
	in your client's farm?	More than what was prescribed or	_more presc	1
		manufacturer's recommendations		
		Stop using before the end of the	_stop presc	2
		prescribed course or manufacturer's		
		recommendations	f l	2
		For as long as I feel suitable	_as feel *input*	3
P6	Dayland lagran a managed of	Others:		4
Po	Do you keep a record of	Yes	_yes	1
	number of prescriptions you issue to clients	No	_no	0
	you issue to clients			
P7	Have you advised the use	Highly Pathogenic Avian Influenza/Avian	_yes/no	1
(a-f)	of antibiotics to treat any	flu (P7a)		
	of the following diseases?	Foot and mouth disease (P7b)	_yes/no	1
	(Select all that apply)	Classical swine fever (P7c)	_yes/no	1
		Swine flu (P7d)	_yes/no	1
		Newcastle disease (P7e)	_yes/no	1
		Others: (P7f)	_*input*/no	1

P8	What do you usually advise	Throw in the garbage (P8a)	_yes/no	1
(a-f)	to clients/farmers when	Bury in the ground (P8b)	_yes/no	1
	they have excess	Burn them (P8c)	_yes/no	1
	antibiotics (Select all that	Give to neighbors/other farmers (P8d)	_yes/no	1
	apply)	Keep them for future use (P8e)	_yes/no	1
		Others: (P8f)	_*input*/no	1
P9	What do you usually advise	Throw in the garbage (P9a)	_yes/no	1
(a-f)	to clients/farmers when	Bury in the ground (P9b)	_yes/no	1
	they have expired	Burn them (P9c)	_yes/no	1
	antibiotics (Select all that	Give to neighbors/other farmers (P9d)	_yes/no	1
	apply)	Keep them for future use (P9e)	_yes/no	1
		Others: (P9f)	_*input*/no	1

POLICY ENVIRONMENT

#	Question	Answer with choices	Code	
E1	Is there a national policy in your country concerning the use of antimicrobials such as antibiotics?	Yes No (skip to E3)	_yes _no	1
E2	If yes, please enumerate those that you can remember.	a. b. c. don't know _not applicable	*input name* *input name* *input name* _don't know _na	1 1 0 0
E3	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?	Least effective Somewhat Effective Effective Very Effective	_least effective _somewhat effective _effective _very effective	1 2 3 4
E4	In your assessment, what do you think are the factors that contribute to the level of effectiveness of policies on antimicrobial use?	a. b. c. _don't know _not applicable	*input name* *input name* *input name* _don't know _na	1 1 0 0
E5	If you could suggest actions to prevent and control antimicrobial resistant, what would these be?	abcdon't knownot applicable	*input name* *input name* *input name* _don't know _na	1 1 0 0
E6	Based on your experience, what do you think are the least understood aspects about antibiotics among people?	abcdon't knownot applicable	*input name* *input name* *input name* _don't know _na	1 1 0 0

COMMUNICATION PREFERENCE QUESTIONS

C1. 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)

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

C2. 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)

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

C3. 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)

Only News	Mostly News	Balanced	Mostly Entertainment	Only Entertainment
0	0	0	0	0

C4	Which	Television (C4a)	_yes/no	1/0
(a-	media/informational	Radio (C4b)	_yes/no	1/0
f)	sources do you usually	Internet (C4c)	_yes/no	1/0
	seek information on	Social media (C4d)	_yes/no	1/0
	animal health	Animal health worker (C4e)	_yes/no	1/0
	issues? (Select all that	Other: (C4f)	_*input*/no	1/0
	apply)			
C5	Please rate your	Interested	_interested	3
	interest in learning	Neutral	_neutral	2
	more about	Not interested	_not interested	1
	antimicrobials such as			
	antibiotics.			

C6 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)	

Coding Guide for C1 and C2 (column name | code input):

Rank (C1_news1-3, C2_entr1-3 | tv, radio, newspaper, internet, SNS, *input*)

Ave. time (C1_avenewstime1-3, C2_aveentrtime1-3 | less than 1 hr, 1-2 hrs, 2-4 hrs, 4+ hrs)

Coding Guide for C3 (column name | code input):

Rank (C3_uesgrats | mostly news = 2, only news = 1, balanced = 3, only entertainment = 1, mostly entertainment = 2)

Coding Guide for C5 (column name | code input):

Rank (C1_prefmedia1-3 | vet school, symposia, online course, websites, documentary, tv, newspaper, blogs, SNS, *input*)