

Supplementary Information

Figure S1: Flow diagram depicting process of exclusion of survey responses for analysis. Responses were excluded where a participant filled out the consent form and accessed the survey but did not fill out any subsequent questions.

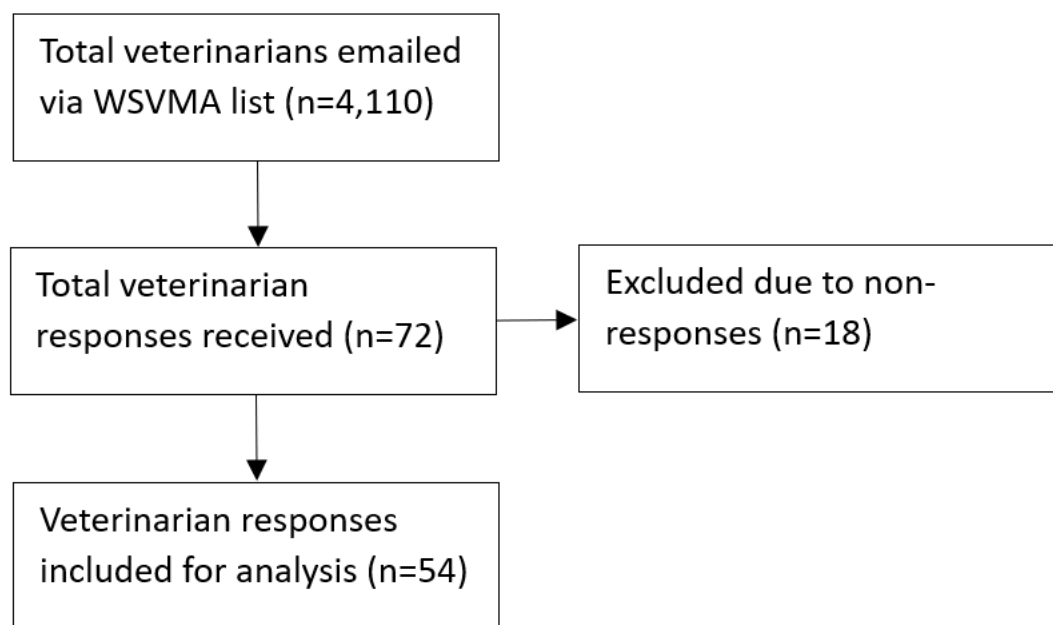


Table S1: Summary Results of Opinion-Based Questions, All Respondents

Prompt:	In your opinion, which of the following contributes to antibiotic resistant infections in people?		Which of the following factors in veterinary medicine do you believe may play a role in antibiotic resistance?		Where might you seek continuing education pertaining to antimicrobial use, resistance and/or stewardship?		Have you ever prescribed or administered any of the following antibiotics (Select all that apply)?		Which veterinary antibiotic use guidelines do you typically refer to?	
Variable Level:	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)
	Antibiotic use in human medicine	49 (91)	Owner/producer compliance	46 (85)	In-person continuing education conference	44 (81)	Imipenem, meropenem, ertapenem, doripenem	3 (06)	Organizational antibiotic use guidelines (i.e., AVMA, AAHA, ISCAID)	37 (69)
	Antibiotic use in small animal veterinary medicine	34 (63)	Veterinary medicine prescription practices	42 (78)	Online continuing education conference	47 (87)	Linezolid	2 (04)	Hospital-specific antibiotic use guidelines	7 (13)
	Antibiotic use in food animal veterinary medicine	44 (81)	Client expectations	32 (59)	Journal articles	44 (81)	Oral Polymyxin B	25 (46)	Personally developed antibiotic use guidelines	24 (44)
	Environmental pressure	29 (54)	Prescription of broad spectrum antimicrobial drugs for treatment	39 (72)	ISCAID or similar recommendations	11 (20)	Mupirocin	4 (07)	I generally do not refer to antibiotic use guidelines during my practice.	6 (11)
	Random genetic mutations	29 (54)	Financial constraints	24 (44)	Veterinary teaching hospitals/infectious disease specialists	21 (39)	Injectable aminoglycoside in cattle	2 (04)		
			Restrictions of owner (For example: time available to administer treatment, etc)	27 (50)	Diagnostic labs	18 (33)	Vancomycin	21 (39)		
			Antimicrobial drugs available on site	23 (43)	Textbooks	14 (26)	Ciprofloxacin	8 (15)		
			Lack of veterinary education on antimicrobial use and stewardship	27 (50)	Pharmaceutical representatives	9 (17)	No, I have NOT prescribed or administered any of these antibiotics	14 (26)		

Table S2: Summary Results of Opinion-Based Questions, Small Animal Respondents

Prompt:	In your opinion, which of the following contributes to antibiotic resistant infections in people?		Which of the following factors in veterinary medicine do you believe may play a role in antibiotic resistance?		Where might you seek continuing education pertaining to antimicrobial use, resistance and/or stewardship?		Have you ever prescribed or administered any of the following antibiotics (Select all that apply)?		Which veterinary antibiotic use guidelines do you typically refer to?	
Variable Level:	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)
	Antibiotic use in human medicine	43 (93)	Owner/producer compliance	40 (87)	In-person continuing education conference	37 (80)	Imipenem, meropenem, ertapenem, doripenem	3 (07)	Organizational antibiotic use guidelines (i.e., AVMA, AAHA, ISCAID)	35 (76)
	Antibiotic use in small animal veterinary medicine	31 (67)	Veterinary medicine prescription practices	37 (80)	Online continuing education conference	40 (87)	Linezolid	2 (04)	Hospital-specific antibiotic use guidelines	7 (15)
	Antibiotic use in food animal veterinary medicine	38 (70)	Client expectations	28 (61)	Journal articles	38 (70)	Oral Polymyxin B	23 (50)	Personally developed antibiotic use guidelines	20 (43)
	Environmental pressure	25 (54)	Prescription of broad spectrum antimicrobial drugs for treatment	32 (70)	ISCAID or similar recommendations	10 (22)	Mupirocin	3 (07)	I generally do not refer to antibiotic use guidelines during my practice.	3 (07)
	Random genetic mutations	2 (04)	Financial constraints	23 (50)	Veterinary teaching hospitals/infectious disease specialists	20 (43)	Injectable aminoglycoside in cattle	2 (04)		
			Restrictions of owner (For example: time available to administer treatment, etc)	24 (52)	Diagnostic labs	15 (33)	Vancomycin	20 (43)		
			Antimicrobial drugs available on site	19 (41)	Textbooks	12 (26)	Ciprofloxacin	8 (17)		
			Lack of veterinary education on antimicrobial use and stewardship	23 (50)	Pharmaceutical representatives	9 (20)	No, I have NOT prescribed or administered any of these antibiotics	10 (22)		

Table S3: Summary Results of Opinion-Based Questions, Mixed Animal Respondents

Prompt:	In your opinion, which of the following contributes to antibiotic resistant infections in people?		Which of the following factors in veterinary medicine do you believe may play a role in antibiotic resistance?		Where might you seek continuing education pertaining to antimicrobial use, resistance and/or stewardship?		Have you ever prescribed or administered any of the following antibiotics (Select all that apply)?		Which veterinary antibiotic use guidelines do you typically refer to?	
Variable Level:	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)
Antibiotic use in human medicine	Antibiotic use in human medicine	15 (88)	Owner/producer compliance	17 (100)	In-person continuing education conference	13 (76)	Imipenem, meropenem, ertapenem, doripenem	0 (0)	Organizational antibiotic use guidelines (i.e., AVMA, AAHA, ISCAID)	11 (65)
Antibiotic use in small animal veterinary medicine	Antibiotic use in small animal veterinary medicine	10 (59)	Veterinary medicine prescription practices	10 (59)	Online continuing education conference	14 (82)	Linezolid	1 (06)	Hospital-specific antibiotic use guidelines	1 (06)
Antibiotic use in food animal veterinary medicine	Antibiotic use in food animal veterinary medicine	10 (59)	Client expectations	9 (53)	Journal articles	15 (88)	Oral Polymyxin B	5 (29)	Personally developed antibiotic use guidelines	5 (29)
Environmental pressure	Environmental pressure	10 (59)	Prescription of broad spectrum antimicrobial drugs for treatment	11 (65)	ISCAID or similar recommendations	0 (0)	Mupirocin	2 (12)	I generally do not refer to antibiotic use guidelines during my practice.	2 (12)
Random genetic mutations	Random genetic mutations	11 (65)	Financial constraints	8 (47)	Veterinary teaching hospitals/infectious disease specialists	6 (35)	Injectable aminoglycoside in cattle	0 (0)		
			Restrictions of owner (For example: time available to administer treatment, etc)	8 (47)	Diagnostic labs	8 (47)				
			Antimicrobial drugs available on site	8 (47)	Textbooks	2 (12)	Ciprofloxacin	1 (06)		
			Lack of veterinary education on antimicrobial use and stewardship	5 (29)	Pharmaceutical representatives	2 (12)	No, I have NOT prescribed or administered any of these antibiotics	3 (18)		

Table S4: Summary Results of Opinion-Based Questions, Equine Respondents

Prompt:	In your opinion, which of the following contributes to antibiotic resistant infections in people?		Which of the following factors in veterinary medicine do you believe may play a role in antibiotic resistance?		Where might you seek continuing education pertaining to antimicrobial use, resistance and/or stewardship?		Have you ever prescribed or administered any of the following antibiotics (Select all that apply)?		Which veterinary antibiotic use guidelines do you typically refer to?	
Variable Level:	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)
	Antibiotic use in human medicine	8 (100)	Owner/producer compliance	7 (88)	In-person continuing education conference	7 (88)	Imipenem, meropenem, ertapenem, doripenem	0 (0)	Organizational antibiotic use guidelines (i.e., AVMA, AAHA, ISCAID)	6 (75)
	Antibiotic use in small animal veterinary medicine	6 (75)	Veterinary medicine prescription practices	4 (50)	Online continuing education conference	7 (88)	Linezolid	1 (13)	Hospital-specific antibiotic use guidelines	0 (0)
	Antibiotic use in food animal veterinary medicine	5 (63)	Client expectations	5 (63)	Journal articles	6 (75)	Oral Polymyxin B	2 (25)	Personally developed antibiotic use guidelines	1 (13)
	Environmental pressure	5 (63)	Prescription of broad spectrum antimicrobial drugs for treatment	5 (63)	ISCAID or similar recommendations	0 (0)	Mupirocin	1 (13)	I generally do not refer to antibiotic use guidelines during my practice.	1 (13)
	Random genetic mutations	5 (63)	Financial constraints	2 (25)	Veterinary teaching hospitals/infectious disease specialists	4 (50)	Injectable aminoglycoside in cattle	0 (0)		
			Restrictions of owner (For example: time available to administer treatment, etc)	4 (50)	Diagnostic labs	2 (25)	Vancomycin	3 (38)		
			Antimicrobial drugs available on site	2 (25)	Textbooks	1 (13)	Ciprofloxacin	1 (13)		
			Lack of veterinary education on antimicrobial use and stewardship	2 (25)	Pharmaceutical representatives	0 (0)	No, I have NOT prescribed or administered any of these antibiotics	4 (50)		

Table S5: Summary Results of Opinion-Based Questions, Dairy Cattle Respondents

Prompt:	In your opinion, which of the following contributes to antibiotic resistant infections in people?		Which of the following factors in veterinary medicine do you believe may play a role in antibiotic resistance?		Where might you seek continuing education pertaining to antimicrobial use, resistance and/or stewardship?		Have you ever prescribed or administered any of the following antibiotics (Select all that apply)?		Which veterinary antibiotic use guidelines do you typically refer to?	
Variable Level:	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)	Answer	Number (%)
	Antibiotic use in human medicine	5 (83)	Owner/producer compliance	5 (83)	In-person continuing education conference	5 (83)	Imipenem, meropenem, ertapenem, doripenem	0 (0)	Organizational antibiotic use guidelines (i.e., AVMA, AAHA, ISCAID)	3 (50)
	Antibiotic use in small animal veterinary medicine	4 (67)	Veterinary medicine prescription practices	4 (67)	Online continuing education conference	6 (100)	Linezolid	0 (0)	Hospital-specific antibiotic use guidelines	0 (0)
	Antibiotic use in food animal veterinary medicine	5 (83)	Client expectations	5 (83)	Journal articles	4 (67)	Oral Polymyxin B	0 (0)	Personally developed antibiotic use guidelines	4 (67)
	Environmental pressure	4 (67)	Prescription of broad spectrum antimicrobial drugs for treatment	5 (83)	ISCAID or similar recommendations	1 (17)	Mupirocin	1 (17)	I generally do not refer to antibiotic use guidelines during my practice.	1 (17)
	Random genetic mutations	5 (83)	Financial constraints	2 (33)	Veterinary teaching hospitals/infectious disease specialists	2 (33)	Injectable aminoglycoside in cattle	0 (0)		
			Restrictions of owner (For example: time available to administer treatment, etc)	3 (50)	Diagnostic labs	2 (33)	Vancomycin	0 (0)		
			Antimicrobial drugs available on site	3 (50)	Textbooks	1 (17)	Ciprofloxacin	0 (0)		
			Lack of veterinary education on antimicrobial use and stewardship	3 (50)	Pharmaceutical representatives	0 (0)	No, I have NOT prescribed or administered any of these antibiotics	5 (83)		

Table S6: Summary results of Likert scale question for all respondents. This question asked whether the following factors influence how antimicrobials are prescribed in their practice.

	Strongly Disagree (%)	Somewhat Disagree (%)	Neither Agree nor Disagree (%)	Somewhat Agree (%)	Strongly Agree (%)
Client expectations of receiving antibiotics influence the way I prescribe antimicrobials.	15 (28)	18 (33)	7 (13)	12 (22)	2 (04)
Client ability to medicate influences the way I prescribe antimicrobials.	1 (02)	1 (02)	1 (02)	30 (56)	21 (39)
Client finances influence the way I prescribe antimicrobials.	6 (11)	4 (07)	6 (11)	32 (59)	6 (11)
When prescribing antimicrobials, the stock of readily available antimicrobials (e.g. the formulary of my in-clinic pharmacy, availability from pharmaceutical company) impacts which antibiotic I decide to prescribe.	4 (07)	4 (07)	7 (13)	24 (44)	15 (28)
Preference for certain antibiotics impacts which antimicrobial I select to prescribe.	0 (0)	5 (09)	13 (24)	22 (41)	14 (26)
Consideration of antimicrobial resistance influences the manner in which I prescribe antimicrobials.	1 (02)	1 (02)	4 (07)	29 (54)	19 (35)
Training that I have received in veterinary school influences the manner in which I prescribe antimicrobials.	1 (02)	11 (20)	10 (19)	18 (33)	14 (26)

Table S7: Summary results of Likert scale question for small animal respondents. This question asked whether the following factors influence how antimicrobials are prescribed in their practice.

	Strongly Disagree (%)	Somewhat Disagree (%)	Neither Agree nor Disagree (%)	Somewhat Agree (%)	Strongly Agree (%)
Client expectations of receiving antibiotics influence the way I prescribe antimicrobials.	12 (26)	17 (37)	6 (13)	10 (22)	1 (02)
Client ability to medicate influences the way I prescribe antimicrobials.	1 (02)	1 (02)	1 (02)	27 (59)	16 (35)
Client finances influence the way I prescribe antimicrobials.	5 (11)	3 (07)	4 (09)	29 (63)	5 (11)
When prescribing antimicrobials, the stock of readily available antimicrobials (e.g. the formulary of my in-clinic pharmacy, availability from pharmaceutical company) impacts which antibiotic I decide to prescribe.	3 (07)	3 (07)	6 (13)	22 (49)	12 (26)
Preference for certain antibiotics impacts which antimicrobial I select to prescribe.	0 (0)	5 (11)	12 (26)	18 (39)	11 (24)
Consideration of antimicrobial resistance influences the manner in which I prescribe antimicrobials.	1 (02)	1 (02)	2 (04)	26 (57)	16 (35)
Training that I have received in veterinary school influences the manner in which I prescribe antimicrobials.	0 (0)	10 (22)	8 (17)	16 (35)	12 (26)

Table S8: Summary results of Likert scale question for mixed animal respondents. This question asked whether the following factors influence how antimicrobials are prescribed in their practice.

	Strongly Disagree (%)	Somewhat Disagree (%)	Neither Agree nor Disagree (%)	Somewhat Agree (%)	Strongly Agree (%)
Client expectations of receiving antibiotics influence the way I prescribe antimicrobials.	5 (29)	5 (29)	3 (18)	4 (24)	0 (0)
Client ability to medicate influences the way I prescribe antimicrobials.	0 (0)	0 (0)	1 (06)	9 (53)	7 (41)
Client finances influence the way I prescribe antimicrobials.	1 (06)	0 (0)	1 (06)	13 (76)	2 (12)
When prescribing antimicrobials, the stock of readily available antimicrobials (e.g. the formulary of my in-clinic pharmacy, availability from pharmaceutical company) impacts which antibiotic I decide to prescribe.	0 (0)	2 (12)	3 (18)	7 (44)	5 (28)
Preference for certain antibiotics impacts which antimicrobial I select to prescribe.	0 (0)	3 (09)	4 (24)	9 (53)	1 (06)
Consideration of antimicrobial resistance influences the manner in which I prescribe antimicrobials.	0 (0)	0 (0)	2 (12)	11 (65)	4 (24)
Training that I have received in veterinary school influences the manner in which I prescribe antimicrobials.	0 (0)	3 (18)	3 (18)	9 (53)	2 (12)

Table S9: Summary results of likert scale question for equine respondents. This question asked whether the following factors influence how antimicrobials are prescribed in their practice.

	Strongly Disagree (%)	Somewhat Disagree (%)	Neither Agree nor Disagree (%)	Somewhat Agree (%)	Strongly Agree (%)
Client expectations of receiving antibiotics influence the way I prescribe antimicrobials.	3 (38)	3 (38)	1 (13)	1 (13)	0 (0)
Client ability to medicate influences the way I prescribe antimicrobials.	0 (0)	0 (0)	0 (0)	6 (75)	2 (25)
Client finances influence the way I prescribe antimicrobials.	1 (13)	0 (0)	0 (0)	7 (88)	0 (0)
When prescribing antimicrobials, the stock of readily available antimicrobials (e.g. the formulary of my in-clinic pharmacy, availability from pharmaceutical company) impacts which antibiotic I decide to prescribe.	0 (0)	0 (0)	2 (25)	4 (50)	2 (25)
Preference for certain antibiotics impacts which antimicrobial I select to prescribe.	0 (0)	2 (25)	2 (25)	4 (50)	0 (0)
Consideration of antimicrobial resistance influences the manner in which I prescribe antimicrobials.	0 (0)	0 (0)	1 (13)	3 (38)	4 (50)
Training that I have received in veterinary school influences the manner in which I prescribe antimicrobials.	0 (0)	2 (25)	1 (13)	3 (38)	2 (25)

Table S10: Summary results of likert scale question for dairy cattle respondents. This question asked whether the following factors influence how antimicrobials are prescribed in their practice.

	Strongly Disagree (%)	Somewhat Disagree (%)	Neither Agree nor Disagree (%)	Somewhat Agree (%)	Strongly Agree (%)
Client expectations of receiving antibiotics influence the way I prescribe antimicrobials.	1 (17)	2 (33)	0 (0)	2 (33)	1 (17)
Client ability to medicate influences the way I prescribe antimicrobials.	0 (0)	0 (0)	0 (0)	2 (33)	4 (67)
Client finances influence the way I prescribe antimicrobials.	1 (17)	1 (17)	1 (17)	3 (50)	0 (0)
When prescribing antimicrobials, the stock of readily available antimicrobials (e.g. the formulary of my in-clinic pharmacy, availability from pharmaceutical company) impacts which antibiotic I decide to prescribe.	1 (17)	1 (17)	0 (0)	1 (17)	3 (50)
Preference for certain antibiotics impacts which antimicrobial I select to prescribe.	0 (0)	0 (0)	1 (17)	4 (67)	1 (17)
Consideration of antimicrobial resistance influences the manner in which I prescribe antimicrobials.	0 (0)	0 (0)	1 (17)	3 (50)	2 (33)
Training that I have received in veterinary school influences the manner in which I prescribe antimicrobials.	0 (0)	1 (17)	1 (17)	1 (17)	3 (5)

Table S11: Corrected p-values for the association between which of the following factors plays a role in antibiotic resistance and answers to each scenario question for small and mixed animal veterinarians. Chi-squared tests were used for individual scenario questions and linear models were used for associations with total score. P-values were corrected using the Bonferroni method.

	Owner/producer compliance		Veterinary medicine prescription practices		Client expectations		Prescription of broad spectrum antimicrobial drugs for treatment		Financial constraints		Restrictions of owner (For example: time available to administer treatment, etc)		Antimicrobial drugs available on site		Lack of veterinary education on antimicrobial use and stewardship	
	statistic	p-value (adjusted)	statistic	p-value (adjusted)	statistic	P-value (adjusted)	statistic	p-value (adjusted)	statistic	p-value (adjusted)	statistic	p-value (adjusted)	statistic	p-value (adjusted)	statistic	p-value (adjusted)
Small animal																
Kitten case	0 (1, 46)	1.0	0.08 (1, 46)	1.0	1.25 (1, 46)	0.78	0.18 (1, 46)	1.0	2.40 (1, 46)	0.36	0.01 (1, 46)	1.0	0.31 (1, 46)	1.0	0.10 (1, 46)	1.0
Dog case	0.04 (1, 46)	1.0	0.001 (1, 46)	1.0	0.0 (1, 46)	1.0	0.15 (1, 46)	1.0	1.7156 (1, 46)	0.57	0.71 (1, 46)	1.0	1.55 (1, 46)	0.63	0 (1, 46)	1.0
Cat case	0.25 (1, 46)	1.0	0.67 (1, 46)	1.0	0.18 (1, 46)	1.0	1.14 (1, 46)	0.87	0.20 (1, 46)	1.0	0.20 (1, 46)	1.0	5.23 (1, 46)	0.06*	0.20 (1, 46)	1.0
Summation score	0.06 (0.3565)	1.0	0.28 (0.3001)	1.0	-0.09 (0.24708)	1.0	0.46 (0.2523)	0.21	0.05 (0.24243)	1.0	0.23 (0.2401)	1.0	0.47 (0.2350)	0.15	NA	NA
Mixed animal																
Goat case	NA	NA	0 (1, 15)	1.0	4.05 (1, 15)	0.08*	0.04 (1, 15)	1.0	0 (1, 15)	1.0	0.84 (1, 15)	0.72	0.03 (1, 15)	1.0	0.04 (1, 15)	1.0
Backyard chicken case	NA	NA	0.17 (1, 16)	1.0	0.27 (1, 16)	1.0	0.64 (1, 16)	1.0	0.27 (1, 16)	1.0	0 (1, 16)	1.0	0.83 (1, 16)	0.72	0.48 (1, 16)	0.98
Summation score	NA	NA	0.11 (0.3837)	1.0	0.84 (0.2978)	0.04*	.50 (0.3752)	0.42	0.23 (0.3724)	1.0	0.23 (0.3724)	1.0	0.50 (0.3516)	0.36	.1000 (0.3990)	1.0

Table S12: Corrected p-values for the association between veterinary antibiotic use guidelines used and answers to each scenarios question for small and mixed animal veterinarians.

Chi-squared tests were used for individual scenario questions and linear models were used for associations with total score. P-values were corrected using the Bonferroni method.

	Organizational antibiotic use guidelines (i.e., AVMA, AAHA, ISCAD)		Hospital-specific antibiotic use guidelines		Personally developed antibiotic use guidelines		I generally do not refer to antibiotic use guidelines during my practice	
	statistic	p-value (adjusted)	statistic	p-value (adjusted)	statistic	P-value (adjusted)	statistic	p-value (adjusted)
Small animal								
Kitten case	0.0 (1, 46)	1.0	0 (1, 46)	1.0	0.8273 (1, 46)	1.0	0.46431 (1, 46)	1.0
Dog case	0.090237 (1, 46)	1.0	0.22624 (1, 46)	1.0	0.57923 (1, 46)	1.0	0.21279 (1, 46)	1.0
Cat case	0.0 (1, 46)	1.0	0.78644 (1, 46)	1.0	0 (1, 46)	1.0	3.2228e-30 (1, 46)	1.0
Summation score	0.09358 (0.28176)	1.0	-0.3759 (0.3296)	0.78	0.3745 (0.2387)	0.36	0.8333 (0.4691)	0.24
Mixed animal								
Goat case	1.8375 (1, 15)	0.36	0.0 (1, 15)	1.0	0.0375 (1, 15)	1.0	0.072115 (1, 15)	1.0
Backyard chicken case	0.071111 (1, 16)	1.0	0.071111 (1, 16)	1.0	0.17455 (1, 16)	1.0	1.3714 (1, 16)	0.72
Summation score	0.2000 (0.3961)	1.0	0.2857 (0.7518)	1.0	-0.6591 (0.3852)	0.33	0.3077 (0.5481)	0.58

R-code:

Notes:

-deleted responses that were not completed in Excel (exclusion criteria in thesis written document), then imported the data afterwards

- R version used: 4.1.1

To import data set:

```
coeamrdata <- read.csv("C:\\Users\\eliza\\Desktop\\Thesis Data\\vetamrdata.csv")
```

Load in packages if needed:

```
if(!require(pacman)) install.packages('pacman', repos = 'https://cloud.r-project/org')
```

```
library(dplyr)
```

Subsetting data based on "animal type" selected:

```
smallanimalqs <- coeamrdata %>% filter(coeamrdata$type_species__1 == 1 | type_species__2 == 1)
```

```
> backyardqs <- coeamrdata %>% filter(coeamrdata$type_species__3 == 1)
```

```
> commpoultryqs <- coeamrdata %>% filter(coeamrdata$type_species__4 == 1)
```

```
> dairyqs <- coeamrdata %>% filter(coeamrdata$type_species__5 == 1)
```

```
> cattleqs <- coeamrdata %>% filter(coeamrdata$type_species__6 == 1)
```

```
> equineqs <- coeamrdata %>% filter(coeamrdata$type_species__7 == 1)
```

Demographics Information:

1. Clean up Vet School Free Response

```
table(coeamrdata$vet_school)
```

```
coeamrdata$vet_school <- replace(coeamrdata$vet_school, coeamrdata$vet_school=="Uw madison", "University of Wisconsin Madison")
```

```
> coeamrdata$vet_school <- replace(coeamrdata$vet_school, coeamrdata$vet_school=="Uw madison svm", "University of Wisconsin Madison")
```

```

> coeamrdata$vet_school <- replace(coeamrdata$vet_school, coeamrdata$vet_school=="niversity of Florida College of Veterinary Medicine",
"University of Florida")
> coeamrdata$vet_school <- replace(coeamrdata$vet_school, coeamrdata$vet_school=="wsu", "Washington State University")
> coeamrdata$vet_school <- replace(coeamrdata$vet_school, coeamrdata$vet_school=="WSU", "Washington State University")
> coeamrdata$vet_school <- replace(coeamrdata$vet_school, coeamrdata$vet_school=="WSU/USU", "Washington State University")
> coeamrdata$vet_school <- replace(coeamrdata$vet_school, coeamrdata$vet_school=="Washington State", "Washington State University")
> coeamrdata$vet_school <- replace(coeamrdata$vet_school, coeamrdata$vet_school=="university of Missouri ", "University of Missouri")
> coeamrdata$vet_school <- replace(coeamrdata$vet_school, coeamrdata$vet_school=="UCDavis", "UC Davis")
> coeamrdata$vet_school <- replace(coeamrdata$vet_school, coeamrdata$vet_school=="Minnesota", "University of Minnesota")
> coeamrdata$vet_school <- replace(coeamrdata$vet_school, coeamrdata$vet_school=="The Ohio State University College of Veterinary
Medicine ", "Ohio State University")
> coeamrdata$vet_school <- replace(coeamrdata$vet_school, coeamrdata$vet_school=="oregon state university", "Oregon State University")
> coeamrdata$vet_school <- replace(coeamrdata$vet_school, coeamrdata$vet_school=="oregon state university", "Oregon State University")
> coeamrdata$vet_school <- replace(coeamrdata$vet_school, coeamrdata$vet_school=="Oregon State university/Washington State University",
"Oregon State University")

```

2. Convert vet school attended into COE regions

Use the same function as above, but instead change "Oregon State University" to "Colorado" etc

```

smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Colorado State University", "Colorado COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Kansas State", "Colorado COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Oklahoma State University", "Colorado COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Midwestern University", "Colorado COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="University of Minnesota", "Minnesota COE")

```

```
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="University of Wisconsin Madison", "Minnesota COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Ohio State University", "Minnesota COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Ohio State University", "Minnesota COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="University of Illinois", "Minnesota COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="University of Missouri", "Minnesota COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Virginia-Maryland", "New York COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Cornell", "New York COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Tufts University", "New York COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="University Pennsylvania", "New York COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="University of Florida", "Tennessee COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Auburn", "Tennessee COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="UC Davis", "Washington COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Oregon State University", "Washington COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Washington State University", "Washington COE")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Armenia", "Other")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Ross ", "Other")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="Latvian University of Agriculture ", "Other")
> smallanimalqs$vet_school <- replace(smallanimalqs$vet_school, smallanimalqs$vet_school=="University of Adelaide", "Other")
```

3. Get basic info on the numbers for demo qs/variables

```
table(coeamrdata$years_practice)
```

```
table(coeamrdata$type_vet)
```

```
table(coeamrdata$role)
```

```
table(coeamrdata$vet_school)
```

```
table(coeamrdata$type_species1,2,3,4,5...)
```

Converted numbers to percentage**

Creating a variable for "correct" vs. incorrect within the data frames:

```
>smallanimalqs <- smallanimalqs %>% mutate(cat_case_wr = ifelse(cat_case == 3, "1", "0"))
```

```
>smallanimalqs <- smallanimalqs %>% mutate(dog_case_wr = ifelse(dog_case == 4, "1", "0"))
```

```
>smallanimalqs <- smallanimalqs %>% mutate(kitten_case_wr = ifelse(kitten_case == 4, "1", "0"))
```

```
>equineqs <- equineqs %>% mutate(horse1_case_wr = ifelse(horse1_case == 3 | horse1_case == 4, "1", "0"))
```

```
> equineqs <- equineqs %>% mutate(horse2_case_wr = ifelse(horse2_case == 3 | horse2_case == 4, "1", "0"))
```

```
> dairyqs <- dairyqs %>% mutate(heif1_dc_case_wr = ifelse(heif1_dc_case == 3, "1", "0"))
```

```
> dairyqs <- dairyqs %>% mutate(heif2_dc_case_wr = ifelse(heif2_dc_case == 2, "1", "0"))
```

```
> dairyqs <- dairyqs %>% mutate(heif3_dc_case_wr = ifelse(heif3_dc_case == 1 | heif3_dc_case == 3, "1", "0"))
```

```
> dairyqs <- dairyqs %>% mutate(cow_dc_case_wr = ifelse(cow_dc_case == 4, "1", "0"))
```

```
> cattleqs <- cattleqs %>% mutate(calf1_fl_case_wr = ifelse(calf1_fl_case == 2 | calf1_fl_case == 4, "1", "0"))
```

```
> cattleqs <- cattleqs %>% mutate(ang_heif_fl_case_wr = ifelse(ang_heif_fl_case == 2 | ang_heif_fl_case == 4, "1", "0"))
```

```
> cattleqs <- cattleqs %>% mutate(steer_fl_case_wr = ifelse(steer_fl_case == 3, "1", "0"))
```

```
> backyardqs <- backyardqs %>% mutate(chick1_by_case_wr = ifelse(chick1_by_case == 3 | chick1_by_case == 4, "1", "0"))
```

```
> backyardqs <- backyardqs %>% mutate(goat_case_wr = ifelse(goat_case == 4, "1", "0"))
> commpoultryqs <- commpoultryqs %>% mutate(poultry_case_wr = ifelse(poultry_case == 1, "correct", "incorrect"))
```

Create Summation Score for Small and Mixed Animal Questions, respectively:

summation score w NA values:

```
> by_sum <- data.frame(backyardqs$goat_case_wr, backyardqs$chick1_by_case_wr)
> by_sum <- by_sum[complete.cases(by_sum), ]
> by_sum$backyardqs.goat_case_wr <- as.numeric(by_sum$backyardqs.goat_case_wr)
> by_sum$backyardqs.chick1_by_case_wr <- as.numeric(by_sum$backyardqs.chick1_by_case_wr)
> by_sum$sum_wr <- rowSums(by_sum)

> small_sum <- data.frame(smallanimalqs$cat_case_wr, smallanimalqs$dog_case_wr, smallanimalqs$kitten_case_wr)
> small_sum <- small_sum[complete.cases(small_sum), ]
> small_sum$smallanimalqs.cat_case_wr <- as.numeric(small_sum$smallanimalqs.cat_case_wr)
> small_sum$smallanimalqs.dog_case_wr <- as.numeric(small_sum$smallanimalqs.dog_case_wr)
> small_sum$smallanimalqs.kitten_case_wr <- as.numeric(small_sum$smallanimalqs.kitten_case_wr)
> small_sum$sum_wr <- rowSums(small_sum)

> small_sum2 <- data.frame(smallanimalqs$cat_case_wr, smallanimalqs$dog_case_wr, smallanimalqs$kitten_case_wr)
> small_sum2 <- small_sum2[complete.cases(small_sum2), ]
> small_sum2$smallanimalqs.cat_case_wr <- as.numeric(small_sum2$smallanimalqs.cat_case_wr)
> small_sum2$smallanimalqs.dog_case_wr <- as.numeric(small_sum2$smallanimalqs.dog_case_wr)
> small_sum2$smallanimalqs.kitten_case_wr <- as.numeric(small_sum2$smallanimalqs.kitten_case_wr)
```

```
> smallanimalqs$summ_wr <- c(small_sum$sum_wr, NA)
```

```
> t.test(smallanimalqs$summ_wr ~ smallanimalqs$vet_amr____7, data = smallanimalqs)
```

Adjust Likert Scale Question (combining Strongly Disagree and Disagree → Disagree and Strongly Agree and Agree → Agree):

```
> likert_scale_q <- data.frame(coeamrdata$finance_rx, coeamrdata$expect_rx, coeamrdata$access_rx, coeamrdata$preference_rx,
coeamrdata$amr_rx, coeamrdata$train_rx, coeamrdata$dispense_rx)
```

```
> likert_function_2 <- function(x) {
```

```
+   +   ifelse(x %in% c(1, 2), 1,
```

```
+         +   ifelse(x == 3, 2,
```

```
+               +   ifelse(x %in% c(4, 5), 3, NA)))
```

```
+ }
```

```
> likert_function <- function(x) {
```

```
+   ifelse(x %in% c(1, 2), 1,
```

```
+         ifelse(x == 3, 2,
```

```
+               ifelse(x %in% c(4, 5), 3, NA)))
```

```
+ }
```

```
> likert_scale_q_applied <- as.data.frame(lapply(likert_scale_q, likert_function))
```

```
> View(likert_scale_q_applied)
```

```
> small_animal_likert_scale_q <- data.frame(smallanimalqs$expect_rx, smallanimalqs$dispense_rx, smallanimalqs$finance_rx,
smallanimalqs$access_rx, smallanimalqs$preference_rx, smallanimalqs$amr_rx, smallanimalqs$train_rx)
```

```
> small_animal_likert_scale_q_applied <- as.data.frame(lapply(small_animal_likert_scale_q, likert_function))
```

```
> mixed_animal_likert_scale_q <- data.frame(backyardqs$expect_rx, backyardqs$dispense_rx, backyardqs$finance_rx, backyardqs$access_rx,
backyardqs$preference_rx, backyardqs$amr_rx, backyardqs$train_rx)
```

```
> mixed_animal_likert_scale_q_applied <- as.data.frame(lapply(mixed_animal_likert_scale_q, likert_function))
> equine_animal_likert_scale_q <- data.frame(equineqs$expect_rx, equineqs$dispense_rx, equineqs$finance_rx, equineqs$access_rx,
equineqs$preference_rx, equineqs$amr_rx, equineqs$train_rx)
> equine_animal_likert_scale_q_applied <- as.data.frame(lapply(equine_animal_likert_scale_q, likert_function))
> View(small_animal_likert_scale_q_applied)
> small_animal_likert_scale_q_applied$smallanimalqs.expect_rx <- as.factor(small_animal_likert_scale_q_applied$smallanimalqs.expect_rx)
> small_animal_likert_scale_q_applied$smallanimalqs.dispense_rx <- as.factor(small_animal_likert_scale_q_applied$smallanimalqs.dispense_rx)
> small_animal_likert_scale_q_applied$smallanimalqs.finance_rx <- as.factor(small_animal_likert_scale_q_applied$smallanimalqs.finance_rx)
> small_animal_likert_scale_q_applied$smallanimalqs.access_rx <- as.factor(small_animal_likert_scale_q_applied$smallanimalqs.access_rx)
> small_animal_likert_scale_q_applied$smallanimalqs.preference_rx <-
as.factor(small_animal_likert_scale_q_applied$smallanimalqs.preference_rx)
> small_animal_likert_scale_q_applied$smallanimalqs.amr_rx <- as.factor(small_animal_likert_scale_q_applied$smallanimalqs.amr_rx)
> small_animal_likert_scale_q_applied$smallanimalqs.train_rx <- as.factor(small_animal_likert_scale_q_applied$smallanimalqs.train_rx)
> mixed_animal_likert_scale_q_applied$backyardqs.expect_rx <- as.factor(mixed_animal_likert_scale_q_applied$backyardqs.expect_rx)
> mixed_animal_likert_scale_q_applied$backyardqs.dispense_rx <- as.factor(mixed_animal_likert_scale_q_applied$backyardqs.dispense_rx)
> mixed_animal_likert_scale_q_applied$backyardqs.finance_rx <- as.factor(mixed_animal_likert_scale_q_applied$backyardqs.finance_rx)
> mixed_animal_likert_scale_q_applied$backyardqs.access_rx <- as.factor(mixed_animal_likert_scale_q_applied$backyardqs.access_rx)
> mixed_animal_likert_scale_q_applied$backyardqs.preference_rx <- as.factor(mixed_animal_likert_scale_q_applied$backyardqs.preference_rx)
> mixed_animal_likert_scale_q_applied$backyardqs.amr_rx <- as.factor(mixed_animal_likert_scale_q_applied$backyardqs.amr_rx)
> mixed_animal_likert_scale_q_applied$backyardqs.train_rx <- as.factor(mixed_animal_likert_scale_q_applied$backyardqs.train_rx)
> equine_animal_likert_scale_q_applied$equineqs.expect_rx <- as.factor(equine_animal_likert_scale_q_applied$equineqs.expect_rx)
```

```
> equine_animal_likert_scale_q_applied$equineqs.dispense_rx <- as.factor(equine_animal_likert_scale_q_applied$equineqs.dispense_rx)
> equine_animal_likert_scale_q_applied$equineqs.finance_rx <- as.factor(equine_animal_likert_scale_q_applied$equineqs.finance_rx)
> equine_animal_likert_scale_q_applied$equineqs.access_rx <- as.factor(equine_animal_likert_scale_q_applied$equineqs.access_rx)
> equine_animal_likert_scale_q_applied$equineqs.preference_rx <- as.factor(equine_animal_likert_scale_q_applied$equineqs.preference_rx)
> equine_animal_likert_scale_q_applied$equineqs.amr_rx <- as.factor(equine_animal_likert_scale_q_applied$equineqs.amr_rx)
> equine_animal_likert_scale_q_applied$equineqs.train_rx <- as.factor(equine_animal_likert_scale_q_applied$equineqs.train_rx)
```

Run Chi Sq and Linear Regression:

1. Ensure variables are factors:

```
dataset_name$variable_name<-as.factor(dataset_name$variable_name)
```

2. Run chi-square test

```
chi.sq(dataset_name$variable_name1, dataset_name$variable_name2)
```

3. Run linear regression

```
>variable_name_linear_model <- lm(dataset_name$variable_name1~dataset_name$variable_name2)
```

```
> summary(variable_name_linear_model)
```


4. Run t-test for linear regression


```
ttest(response variable, independent variable, data= ____)
```


- Response variable: Summation score or correct/incorrect for scenario based question
- Independent variable: Answer (selected y/n) for an opinion-based question or answer to Likert scale question

Data Dictionary Codebook

05/10/2023 11:19am

#	Variable / Field Name	Field Label <i>Field Note</i>	Field Attributes (Field Type, Validation, Choices, Calculations, etc.)
Instrument: Informationsscreening (informationsscreening)  Enabled as survey			
1	[record_id]	Record ID	text
2	[infosheet]	<p>Evaluating antimicrobial usage practices in small and large animal veterinary medicine:</p> <p>Washington Integrated Food Safety Center of Excellence (CoE) and Washington Animal Disease Diagnostic Laboratory (WADDL) are conducting a survey to evaluate veterinarian prescription practices in Washington State. We will be collecting surveys from all veterinarians currently providing care in Washington State.</p> <p>What does this study involve? The one-time survey should take approximately 10-15 minutes and will comprise 2-3 scenario based questions, demographic questions and opinion based questions. Responses will be kept confidential and participation in the survey is voluntary.</p> <p>Who is eligible to participate? Any small or large animal veterinarian currently practicing in Washington State is eligible to participate.</p> <p>What are the benefits for participating? The results of this study will be used to inform the creation of best practice recommendations to be used in the veterinary community.</p> <p>Will there be compensation for my time? Your name will be entered in a raffle to receive a \$50 tango gift card. We will ask for your email address at the conclusion of the survey which will only be used for the purpose of sending you a gift card, should you win. You may also opt in to receiving follow up information, including a summary of our findings from the survey.</p> <p>For additional information or questions contact Dr. Erica Fuhrmeister at efuhrm@uw.edu.</p>	descriptive

		Click "Next" to see if you are eligible to participate in this study.									
3	[screen_practicing]	Section Header: <i>These questions are designed to see if you are eligible to participate in this study.</i> Are you actively practicing veterinary medicine in Washington State?	radio, Required <table border="1"> <tr> <td>1</td> <td>Yes, I am actively practicing veterinary medicine in Washington State</td> </tr> <tr> <td>2</td> <td>I am actively practicing veterinary medicine but in another state</td> </tr> <tr> <td>3</td> <td>I am a retired Washington State veterinarian</td> </tr> <tr> <td>4</td> <td>I am not a licensed veterinarian</td> </tr> </table>	1	Yes, I am actively practicing veterinary medicine in Washington State	2	I am actively practicing veterinary medicine but in another state	3	I am a retired Washington State veterinarian	4	I am not a licensed veterinarian
1	Yes, I am actively practicing veterinary medicine in Washington State										
2	I am actively practicing veterinary medicine but in another state										
3	I am a retired Washington State veterinarian										
4	I am not a licensed veterinarian										
4	[recruit_type]	How did you hear about this study?	radio <table border="1"> <tr> <td>1</td> <td>Through WSVMA</td> </tr> <tr> <td>2</td> <td>From a colleague</td> </tr> <tr> <td>3</td> <td>Through social media</td> </tr> <tr> <td>4</td> <td>Other</td> </tr> </table>	1	Through WSVMA	2	From a colleague	3	Through social media	4	Other
1	Through WSVMA										
2	From a colleague										
3	Through social media										
4	Other										
5	[recruit_other] Show the field ONLY if: [recruit_type] = '4'	If other, please describe:	text, Required								
6	[screen_eligible] Show the field ONLY if: [screen_practicing] = '1'	Section Header: <i>Eligibility status:</i> You are eligible to participate in this survey. Please click "Submit" if you wish to continue to the e-consent form. If you prefer to do the consent and survey over the phone with a member of the study team, please call us at 206-685-2654.	descriptive								
7	[screen_ineligible] Show the field ONLY if: [screen_practicing] = '2' or [screen_practicing] = '3' or [screen_practicing] = '4'	We're sorry, we are currently only collecting information from practicing veterinarians in Washington state and you do not meet the eligibility criteria for this study. Thank you for your time and feel free to contact the study team at 206-685-2654 if you have any questions.	descriptive								
8	[informationscreening_complete]	Section Header: <i>Form Status</i> Complete?	dropdown <table border="1"> <tr> <td>0</td> <td>Incomplete</td> </tr> <tr> <td>1</td> <td>Unverified</td> </tr> <tr> <td>2</td> <td>Complete</td> </tr> </table>	0	Incomplete	1	Unverified	2	Complete		
0	Incomplete										
1	Unverified										
2	Complete										
Instrument: Consent (consent)  Enabled as survey											
9	[consent_yn]	Section Header: <i>Consent form for the "Evaluating Antimicrobial Usage Practices in Small and Large Animal Veterinary Medicine" study</i> You are invited to participate in a survey to evaluate veterinarian prescription practices in Washington State. This study is a collaboration between the Washington Integrated Food Safety Center of Excellence (CoE) and Washington Animal Disease Diagnostic Laboratory (WADDL). You will be asked to complete a short survey comprised of demographic questions, opinion based	yesno, Required <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>0</td> <td>No</td> </tr> </table> Custom alignment: LH	1	Yes	0	No				
1	Yes										
0	No										

		<p>questions and 2-3 scenario based questions regarding your veterinary work. This survey should take 10-15 minutes.</p> <p>Your decision to participate in this study is completely voluntary and you have the right to stop your participation at any time without penalty.</p> <p>Data Confidentiality: You will be assigned a confidential study number that will be used to analyze your survey. If you participate in the raffle or opt in to hear about future studies, we will separate your contact information from your responses prior to analysis. We will securely retain this information in order to contact you about the raffle or future studies.</p> <p>Risks, and Benefits: There is a minimal risk of a loss of data confidentiality. Extra care will be taken to ensure that your answers are secure and kept separate from any identifying information.</p> <p>Benefits to participants: There are minimal benefits to the participants, but the results of the study may be helpful for the veterinary community.</p> <p>Contact Information: If you have any questions about this project, you may contact PI Erica Fuhrmeister at efuhrm@uw.edu or Vickie Ramirez at +1(206)-685-2654 (ramirezv@uw.edu).</p> <p>Do wish to participate in this study and proceed to the survey?</p>											
10	[consent_no] Show the field ONLY if: [consent_yn] = '0'	Thank you for your interest in this study. Please feel free to contact us at 206-685-2654 if you have any questions or think you may wish to participate in the future.	descriptive										
11	[consent_complete]	Section Header: <i>Form Status</i> Complete?	dropdown <table border="1"> <tr> <td>0</td> <td>Incomplete</td> </tr> <tr> <td>1</td> <td>Unverified</td> </tr> <tr> <td>2</td> <td>Complete</td> </tr> </table>	0	Incomplete	1	Unverified	2	Complete				
0	Incomplete												
1	Unverified												
2	Complete												
Instrument: Form 1 (form_1)  Enabled as survey													
12	[survey_date]	Section Header: <i>We will start this survey about your veterinary clinic experience and type(s) of care you provide.</i> Date the survey was started <i>MM-DD-YYYY</i>	text (date_mdy) Field Annotation: @TODAY @HIDDEN										
13	[years_practice]	How many years of veterinary clinical practice experience do you have?	radio, Required <table border="1"> <tr> <td>1</td> <td>Less than 5 years</td> </tr> <tr> <td>2</td> <td>5-10 years</td> </tr> <tr> <td>3</td> <td>11-15 years</td> </tr> <tr> <td>4</td> <td>16-20 years</td> </tr> <tr> <td>5</td> <td>More than 20 years</td> </tr> </table>	1	Less than 5 years	2	5-10 years	3	11-15 years	4	16-20 years	5	More than 20 years
1	Less than 5 years												
2	5-10 years												
3	11-15 years												
4	16-20 years												
5	More than 20 years												
14	[grad_year]	What year did you graduate from veterinary school? (Please answer in a 4-digit year, e.g. 1996)	text (number, Min: 1930, Max: 2024), Required										

15	[vet_school]	What veterinary school did you attend?	text, Required																														
16	[type_vet]	What best describes your current employment setting?	radio, Required <table border="1"> <tr><td>1</td><td>Small Animal Veterinary</td></tr> <tr><td>2</td><td>Mixed Animal Veterinary</td></tr> <tr><td>3</td><td>Large Animal Veterinary</td></tr> </table>	1	Small Animal Veterinary	2	Mixed Animal Veterinary	3	Large Animal Veterinary																								
1	Small Animal Veterinary																																
2	Mixed Animal Veterinary																																
3	Large Animal Veterinary																																
17	[role]	What is your practice role?	radio, Required <table border="1"> <tr><td>1</td><td>Owner</td></tr> <tr><td>2</td><td>Associate</td></tr> <tr><td>3</td><td>Locum</td></tr> <tr><td>4</td><td>Other</td></tr> </table>	1	Owner	2	Associate	3	Locum	4	Other																						
1	Owner																																
2	Associate																																
3	Locum																																
4	Other																																
18	[role_other] Show the field ONLY if: [role] = '4'	If other, what is your role?	text, Required																														
19	[type_species]	What species do you accept for treatment? (Select all that apply)	checkbox, Required <table border="1"> <tr><td>1</td><td>type_species__1</td><td>Dogs</td></tr> <tr><td>2</td><td>type_species__2</td><td>Cats</td></tr> <tr><td>3</td><td>type_species__3</td><td>Backyard livestock/hobby farm species (For example but not limited to: chickens, goats, sheep)</td></tr> <tr><td>4</td><td>type_species__4</td><td>Commercial poultry farms</td></tr> <tr><td>5</td><td>type_species__5</td><td>Commercial dairy cattle</td></tr> <tr><td>6</td><td>type_species__6</td><td>Commercial feedlot cattle</td></tr> <tr><td>7</td><td>type_species__7</td><td>Equine</td></tr> <tr><td>8</td><td>type_species__8</td><td>Pocket/exotic pets</td></tr> <tr><td>9</td><td>type_species__9</td><td>Wildlife</td></tr> <tr><td>10</td><td>type_species__10</td><td>Other</td></tr> </table>	1	type_species__1	Dogs	2	type_species__2	Cats	3	type_species__3	Backyard livestock/hobby farm species (For example but not limited to: chickens, goats, sheep)	4	type_species__4	Commercial poultry farms	5	type_species__5	Commercial dairy cattle	6	type_species__6	Commercial feedlot cattle	7	type_species__7	Equine	8	type_species__8	Pocket/exotic pets	9	type_species__9	Wildlife	10	type_species__10	Other
1	type_species__1	Dogs																															
2	type_species__2	Cats																															
3	type_species__3	Backyard livestock/hobby farm species (For example but not limited to: chickens, goats, sheep)																															
4	type_species__4	Commercial poultry farms																															
5	type_species__5	Commercial dairy cattle																															
6	type_species__6	Commercial feedlot cattle																															
7	type_species__7	Equine																															
8	type_species__8	Pocket/exotic pets																															
9	type_species__9	Wildlife																															
10	type_species__10	Other																															
20	[other_species] Show the field ONLY if: [type_species(10)] = '1'	If other species, what species?	text, Required																														
21	[vet_sector]	What sector of veterinary medicine are you currently employed? (Select all that apply)	checkbox, Required <table border="1"> <tr><td>1</td><td>vet_sector__1</td><td>Private Practice</td></tr> <tr><td>2</td><td>vet_sector__2</td><td>Corporate Practice</td></tr> <tr><td>3</td><td>vet_sector__3</td><td>Government</td></tr> <tr><td>4</td><td>vet_sector__4</td><td>Industry</td></tr> <tr><td>5</td><td>vet_sector__5</td><td>Academia</td></tr> <tr><td>6</td><td>vet_sector__6</td><td>Other</td></tr> </table>	1	vet_sector__1	Private Practice	2	vet_sector__2	Corporate Practice	3	vet_sector__3	Government	4	vet_sector__4	Industry	5	vet_sector__5	Academia	6	vet_sector__6	Other												
1	vet_sector__1	Private Practice																															
2	vet_sector__2	Corporate Practice																															
3	vet_sector__3	Government																															
4	vet_sector__4	Industry																															
5	vet_sector__5	Academia																															
6	vet_sector__6	Other																															
22	[other_sector] Show the field ONLY if:	If other sector, what sector?	text, Required																														

	[vet_sector(6)] = '1'																										
23	[desc_text1]	This next section asks your opinion about antibiotic resistance.	descriptive																								
24	[opinion_amr_people]	In your opinion, which of the following contributes to antibiotic resistant infections in people? (Select all that apply)	checkbox <table border="1"> <tr> <td>1</td> <td>opinion_amr_people__1</td> <td>Antibiotic use in human medicine</td> </tr> <tr> <td>2</td> <td>opinion_amr_people__2</td> <td>Antibiotic use in small animal veterinary medicine</td> </tr> <tr> <td>3</td> <td>opinion_amr_people__3</td> <td>Antibiotic use in food animal veterinary medicine</td> </tr> <tr> <td>4</td> <td>opinion_amr_people__4</td> <td>Environmental pressure</td> </tr> <tr> <td>5</td> <td>opinion_amr_people__5</td> <td>Random genetic mutations</td> </tr> <tr> <td>6</td> <td>opinion_amr_people__6</td> <td>Other</td> </tr> </table>	1	opinion_amr_people__1	Antibiotic use in human medicine	2	opinion_amr_people__2	Antibiotic use in small animal veterinary medicine	3	opinion_amr_people__3	Antibiotic use in food animal veterinary medicine	4	opinion_amr_people__4	Environmental pressure	5	opinion_amr_people__5	Random genetic mutations	6	opinion_amr_people__6	Other						
1	opinion_amr_people__1	Antibiotic use in human medicine																									
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4	opinion_amr_people__4	Environmental pressure																									
5	opinion_amr_people__5	Random genetic mutations																									
6	opinion_amr_people__6	Other																									
25	[other_amr_people] Show the field ONLY if: [opinion_amr_people(6)] = '1'	If other, what else do you think contributes to antibiotic resistant infections in people?	text																								
26	[vet_amr]	Which of the following factors in veterinary medicine do you believe may play a role in antibiotic resistance? (Select all that apply)	checkbox <table border="1"> <tr> <td>1</td> <td>vet_amr__1</td> <td>Owner/producer compliance</td> </tr> <tr> <td>2</td> <td>vet_amr__2</td> <td>Veterinary medicine prescription practices</td> </tr> <tr> <td>3</td> <td>vet_amr__3</td> <td>Client expectations</td> </tr> <tr> <td>4</td> <td>vet_amr__4</td> <td>Prescription of broad spectrum antimicrobial drugs for treatment</td> </tr> <tr> <td>5</td> <td>vet_amr__5</td> <td>Financial constraints</td> </tr> <tr> <td>6</td> <td>vet_amr__6</td> <td>Restrictions of owner (For example: time available to administer treatment, etc)</td> </tr> <tr> <td>7</td> <td>vet_amr__7</td> <td>Antimicrobial drugs available on site</td> </tr> <tr> <td>8</td> <td>vet_amr__8</td> <td>Lack of veterinary education on antimicrobial use and stewardship</td> </tr> </table>	1	vet_amr__1	Owner/producer compliance	2	vet_amr__2	Veterinary medicine prescription practices	3	vet_amr__3	Client expectations	4	vet_amr__4	Prescription of broad spectrum antimicrobial drugs for treatment	5	vet_amr__5	Financial constraints	6	vet_amr__6	Restrictions of owner (For example: time available to administer treatment, etc)	7	vet_amr__7	Antimicrobial drugs available on site	8	vet_amr__8	Lack of veterinary education on antimicrobial use and stewardship
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27	[edu_amr]	Where might you seek continuing education pertaining to antimicrobial use, resistance and/or stewardship? (Select all that apply)	checkbox <table border="1"> <tr> <td>1</td> <td>edu_amr__1</td> <td>In-person continuing education conference</td> </tr> <tr> <td>2</td> <td>edu_amr__2</td> <td>Online continuing education conference</td> </tr> <tr> <td>3</td> <td>edu_amr__3</td> <td>Journal articles</td> </tr> </table>	1	edu_amr__1	In-person continuing education conference	2	edu_amr__2	Online continuing education conference	3	edu_amr__3	Journal articles															
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9	edu_amr__9	Other																									
28	[other_edu_amr] Show the field ONLY if: [edu_amr(9)] = '1'	What other place might you seek education?	text																								
29	[use_abx]	Have you ever prescribed or administered any of the following antibiotics (Select all that apply)?	checkbox <table border="1"> <tr> <td>7</td> <td>use_abx__7</td> <td>Imipenem, meropenem, ertapenem, doripenem</td> </tr> <tr> <td>1</td> <td>use_abx__1</td> <td>Linezolid</td> </tr> <tr> <td>2</td> <td>use_abx__2</td> <td>Oral Polymyxin B</td> </tr> <tr> <td>3</td> <td>use_abx__3</td> <td>Mupirocin</td> </tr> <tr> <td>4</td> <td>use_abx__4</td> <td>Injectable aminoglycoside in cattle</td> </tr> <tr> <td>5</td> <td>use_abx__5</td> <td>Vancomycin</td> </tr> <tr> <td>6</td> <td>use_abx__6</td> <td>Ciprofloxacin</td> </tr> <tr> <td>8</td> <td>use_abx__8</td> <td>No, I have NOT prescribed or administered any of these antibiotics</td> </tr> </table>	7	use_abx__7	Imipenem, meropenem, ertapenem, doripenem	1	use_abx__1	Linezolid	2	use_abx__2	Oral Polymyxin B	3	use_abx__3	Mupirocin	4	use_abx__4	Injectable aminoglycoside in cattle	5	use_abx__5	Vancomycin	6	use_abx__6	Ciprofloxacin	8	use_abx__8	No, I have NOT prescribed or administered any of these antibiotics
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6	use_abx__6	Ciprofloxacin																									
8	use_abx__8	No, I have NOT prescribed or administered any of these antibiotics																									
30	[vet_abx_guide]	Which veterinary antibiotic use guidelines do you typically refer to? (Select all that apply)	checkbox <table border="1"> <tr> <td>1</td> <td>vet_abx_guide__1</td> <td>Organizational antibiotic use guidelines (i.e., AVMA, AAHA, ISCAID)</td> </tr> <tr> <td>2</td> <td>vet_abx_guide__2</td> <td>Hospital-specific antibiotic use guidelines</td> </tr> <tr> <td>3</td> <td>vet_abx_guide__3</td> <td>Personally developed antibiotic use guidelines</td> </tr> <tr> <td>4</td> <td>vet_abx_guide__4</td> <td>I generally do not refer to antibiotic use guidelines during my practice.</td> </tr> <tr> <td>5</td> <td>vet_abx_guide__5</td> <td>Other</td> </tr> </table>	1	vet_abx_guide__1	Organizational antibiotic use guidelines (i.e., AVMA, AAHA, ISCAID)	2	vet_abx_guide__2	Hospital-specific antibiotic use guidelines	3	vet_abx_guide__3	Personally developed antibiotic use guidelines	4	vet_abx_guide__4	I generally do not refer to antibiotic use guidelines during my practice.	5	vet_abx_guide__5	Other									
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5	vet_abx_guide__5	Other																									
31	[other_vet_abx_guide] Show the field ONLY if: [vet_abx_guide(5)] = '1'	What other veterinary antibiotic guidelines do you use?	text																								
32	[descr_text2]	Do the following factors influence how you prescribe antibiotics? Please rate your level of agreement with	descriptive																								

		the following statements:											
33	[expect_rx]	Client expectations of receiving antibiotics influence the way I prescribe antimicrobials.	dropdown <table border="1"> <tr><td>1</td><td>Strongly Disagree</td></tr> <tr><td>2</td><td>Somewhat Disagree</td></tr> <tr><td>3</td><td>Neither Agree nor Disagree</td></tr> <tr><td>4</td><td>Somewhat Agree</td></tr> <tr><td>5</td><td>Strongly Agree</td></tr> </table>	1	Strongly Disagree	2	Somewhat Disagree	3	Neither Agree nor Disagree	4	Somewhat Agree	5	Strongly Agree
1	Strongly Disagree												
2	Somewhat Disagree												
3	Neither Agree nor Disagree												
4	Somewhat Agree												
5	Strongly Agree												
34	[dispense_rx]	Client ability to medicate influences the way I prescribe antimicrobials.	dropdown <table border="1"> <tr><td>1</td><td>Strongly Disagree</td></tr> <tr><td>2</td><td>Somewhat Disagree</td></tr> <tr><td>3</td><td>Neither Agree nor Disagree</td></tr> <tr><td>4</td><td>Somewhat Agree</td></tr> <tr><td>5</td><td>Strongly Agree</td></tr> </table>	1	Strongly Disagree	2	Somewhat Disagree	3	Neither Agree nor Disagree	4	Somewhat Agree	5	Strongly Agree
1	Strongly Disagree												
2	Somewhat Disagree												
3	Neither Agree nor Disagree												
4	Somewhat Agree												
5	Strongly Agree												
35	[finance_rx]	Client finances influence the way I prescribe antimicrobials.	dropdown <table border="1"> <tr><td>1</td><td>Strongly Disagree</td></tr> <tr><td>2</td><td>Somewhat Disagree</td></tr> <tr><td>3</td><td>Neither Agree nor Disagree</td></tr> <tr><td>4</td><td>Somewhat Agree</td></tr> <tr><td>5</td><td>Strongly Agree</td></tr> </table>	1	Strongly Disagree	2	Somewhat Disagree	3	Neither Agree nor Disagree	4	Somewhat Agree	5	Strongly Agree
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36	[access_rx]	When prescribing antimicrobials, the stock of readily available antimicrobials (e.g. the formulary of my in-clinic pharmacy, availability from pharmaceutical company) impacts which antibiotic I decide to prescribe.	dropdown <table border="1"> <tr><td>1</td><td>Strongly Disagree</td></tr> <tr><td>2</td><td>Somewhat Disagree</td></tr> <tr><td>3</td><td>Neither Agree nor Disagree</td></tr> <tr><td>4</td><td>Somewhat Agree</td></tr> <tr><td>5</td><td>Strongly Agree</td></tr> </table>	1	Strongly Disagree	2	Somewhat Disagree	3	Neither Agree nor Disagree	4	Somewhat Agree	5	Strongly Agree
1	Strongly Disagree												
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3	Neither Agree nor Disagree												
4	Somewhat Agree												
5	Strongly Agree												
37	[preference_rx]	Preference for certain antibiotics impacts which antimicrobial I select to prescribe.	dropdown <table border="1"> <tr><td>1</td><td>Strongly Disagree</td></tr> <tr><td>2</td><td>Somewhat Disagree</td></tr> <tr><td>3</td><td>Neither Agree nor Disagree</td></tr> <tr><td>4</td><td>Somewhat Agree</td></tr> <tr><td>5</td><td>Strongly Agree</td></tr> </table>	1	Strongly Disagree	2	Somewhat Disagree	3	Neither Agree nor Disagree	4	Somewhat Agree	5	Strongly Agree
1	Strongly Disagree												
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4	Somewhat Agree												
5	Strongly Agree												
38	[amr_rx]	Consideration of antimicrobial resistance influences the manner in which I prescribe antimicrobials.	dropdown <table border="1"> <tr><td>1</td><td>Strongly Disagree</td></tr> <tr><td>2</td><td>Somewhat Disagree</td></tr> <tr><td>3</td><td>Neither Agree nor Disagree</td></tr> <tr><td>4</td><td>Somewhat Agree</td></tr> <tr><td>5</td><td>Strongly Agree</td></tr> </table>	1	Strongly Disagree	2	Somewhat Disagree	3	Neither Agree nor Disagree	4	Somewhat Agree	5	Strongly Agree
1	Strongly Disagree												
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4	Somewhat Agree												
5	Strongly Agree												
39	[train_rx]	Training that I have received in veterinary school influences the manner in which I prescribe antimicrobials.	dropdown <table border="1"> <tr><td>1</td><td>Strongly Disagree</td></tr> <tr><td>2</td><td>Somewhat Disagree</td></tr> <tr><td>3</td><td>Neither Agree nor Disagree</td></tr> </table>	1	Strongly Disagree	2	Somewhat Disagree	3	Neither Agree nor Disagree				
1	Strongly Disagree												
2	Somewhat Disagree												
3	Neither Agree nor Disagree												

4	Somewhat Agree
5	Strongly Agree

40 [**cat_case**]
 Show the field ONLY if:
 [type_species(1)] = '1' or
 [type_species(2)] = '1'

Section Header: *This next section includes short vignettes asking how you would treat an animal with specific signs.*
 A 4-year-old castrated male domestic shorthair cat presents with a 3-day history of stranguria, hematuria and urination outside of the litter box. On exam, no abnormalities are noted other than a small, mildly painful bladder. What diagnostics and/or treatments do you recommend?

radio	
1	Empiric antimicrobial therapy without submitting samples for diagnostic testing
2	Empiric antimicrobial drugs while awaiting results from diagnostic lab
3	I may prescribe antimicrobial drugs once diagnostic test results are complete
4	Non-antimicrobial treatment options (For example: diet, pain management, behavioral modifications)
5	I do not treat this species

41 [**cat_rx_no_test**]
 Show the field ONLY if:
 [cat_case] = '1'

What antimicrobial drug would you prescribe for treatment?

radio	
1	Amikacin
2	Amoxicillin
3	Amoxicillin/Clavulanic Acid
4	Ampicillin/sulbactam
5	Cefazolin
6	Cefovecin
7	Cefpodoxime
8	Ceftazidime
9	Ceftiofur
10	Cephalexin
11	Cephalothin
12	Chloramphenicol
13	Clindamycin
14	Doripenem
15	Doxycycline
16	Enrofloxacin
17	Ertapenem
18	Erythromycin
19	Florfenicol
20	Gentamicin
21	Imipenem
22	Linezolid
23	Marbofloxacin
24	Meropenem
25	Minocycline
26	Mupirocin
27	Nitrofurantoin
28	Orbifloxacin

29	Oxacillin
30	Penicillin
31	Piperacillin/tazobactam
32	Pradofloxacin
33	Rifampin
34	Tetracycline
35	Trimethoprim/sulfamethoxazole
36	Vancomycin

42 [`cat_rx_while_test`]
 Show the field ONLY if:
`[cat_case] = '2'`

What antimicrobial drug would you prescribe for treatment?

radio	
1	Amikacin
2	Amoxicillin
3	Amoxicillin/Clavulanic Acid
4	Ampicillin/sulbactam
5	Cefazolin
6	Cefovecin
7	Cefpodoxime
8	Ceftazidime
9	Ceftiofur
10	Cephalexin
11	Cephalothin
12	Chloramphenicol
13	Clindamycin
14	Doripenem
15	Doxycycline
16	Enrofloxacin
17	Ertapenem
18	Erythromycin
19	Florfenicol
20	Gentamicin
21	Imipenem
22	Linezolid
23	Marbofloxacin
24	Meropenem
25	Minocycline
26	Mupirocin
27	Nitrofurantoin
28	Orbifloxacin
29	Oxacillin
30	Penicillin
31	Piperacillin/tazobactam
32	Pradofloxacin

			<table border="1"> <tr><td>33</td><td>Rifampin</td></tr> <tr><td>34</td><td>Tetracycline</td></tr> <tr><td>35</td><td>Trimethoprim/sulfamethoxazole</td></tr> <tr><td>36</td><td>Vancomycin</td></tr> </table>	33	Rifampin	34	Tetracycline	35	Trimethoprim/sulfamethoxazole	36	Vancomycin																																																						
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43	<p>[cat_rx_while_result]</p> <p>Show the field ONLY if: [cat_case] = '2'</p>	<p>A urine culture and urinalysis was performed. There was no growth on the culture and >10 red blood cells/high powered field, 4-5 white blood cells/HPF, and a USG of 1.040 was found. Given this information, would you change the antimicrobial treatment prescribed?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>Stop antimicrobial treatment</td></tr> <tr><td>3</td><td>No</td></tr> </table>	1	Yes	2	Stop antimicrobial treatment	3	No																																																								
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44	<p>[cat_change_rx]</p> <p>Show the field ONLY if: [cat_rx_while_result] = '1'</p>	<p>What would you change to?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Amikacin</td></tr> <tr><td>2</td><td>Amoxicillin</td></tr> <tr><td>3</td><td>Amoxicillin/Clavulanic Acid</td></tr> <tr><td>4</td><td>Ampicillin/sulbactam</td></tr> <tr><td>5</td><td>Cefazolin</td></tr> <tr><td>6</td><td>Cefovecin</td></tr> <tr><td>7</td><td>Cefpodoxime</td></tr> <tr><td>8</td><td>Ceftazidime</td></tr> <tr><td>9</td><td>Ceftiofur</td></tr> <tr><td>10</td><td>Cephalexin</td></tr> <tr><td>11</td><td>Cephalothin</td></tr> <tr><td>12</td><td>Chloramphenicol</td></tr> <tr><td>13</td><td>Clindamycin</td></tr> <tr><td>14</td><td>Doripenem</td></tr> <tr><td>15</td><td>Doxycycline</td></tr> <tr><td>16</td><td>Enrofloxacin</td></tr> <tr><td>17</td><td>Ertapenem</td></tr> <tr><td>18</td><td>Erythromycin</td></tr> <tr><td>19</td><td>Florfenicol</td></tr> <tr><td>20</td><td>Gentamicin</td></tr> <tr><td>21</td><td>Imipenem</td></tr> <tr><td>22</td><td>Linezolid</td></tr> <tr><td>23</td><td>Marbofloxacin</td></tr> <tr><td>24</td><td>Meropenem</td></tr> <tr><td>25</td><td>Minocycline</td></tr> <tr><td>26</td><td>Mupirocin</td></tr> <tr><td>27</td><td>Nitrofurantoin</td></tr> <tr><td>28</td><td>Orbifloxacin</td></tr> <tr><td>29</td><td>Oxacillin</td></tr> <tr><td>30</td><td>Penicillin</td></tr> <tr><td>31</td><td>Piperacillin/tazobactam</td></tr> </table>	1	Amikacin	2	Amoxicillin	3	Amoxicillin/Clavulanic Acid	4	Ampicillin/sulbactam	5	Cefazolin	6	Cefovecin	7	Cefpodoxime	8	Ceftazidime	9	Ceftiofur	10	Cephalexin	11	Cephalothin	12	Chloramphenicol	13	Clindamycin	14	Doripenem	15	Doxycycline	16	Enrofloxacin	17	Ertapenem	18	Erythromycin	19	Florfenicol	20	Gentamicin	21	Imipenem	22	Linezolid	23	Marbofloxacin	24	Meropenem	25	Minocycline	26	Mupirocin	27	Nitrofurantoin	28	Orbifloxacin	29	Oxacillin	30	Penicillin	31	Piperacillin/tazobactam
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32	Pradofloxacin
33	Rifampin
34	Tetracycline
35	Trimethoprim/sulfamethoxazole
36	Vancomycin

45 [cat_test_rx]
 Show the field ONLY if:
 [cat_case] = '3'

A urine culture and urinalysis was performed. There was no growth on the culture and >10 red blood cells/high powered field, 4-5 white blood cells/HPF, and a USG of 1.040 was found. Given this information, what antimicrobial treatment, if any, would you prescribe?

radio	
1	None
2	Amikacin
3	Amoxicillin
4	Amoxicillin/Clavulanic Acid
5	Ampicillin/sulbactam
6	Cefazolin
7	Cefovecin
8	Cefpodoxime
9	Ceftazidime
10	Ceftiofur
11	Cephalexin
12	Cephalothin
13	Chloramphenicol
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15	Doripenem
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33	Pradofloxacin
34	Rifampin
35	Tetracycline

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46	<p>[dog_case]</p> <p>Show the field ONLY if: [type_species(1)] = '1' or [type_species(2)] = '1'</p>	<p>A 3-year-old spayed, female mixed breed dog presents for a 2-3 day history of non-bloody diarrhea. The patient is still eating/drinking, has not had any vomiting, does not have a fever and is acting normally. The exam is unremarkable and the dog is up to date on vaccines. In clinic parasitology was negative, including Giardia. What diagnostic and/or treatment do you recommend?</p>	<p>radio</p> <table border="1"> <tr> <td>1</td> <td>Empiric antimicrobial therapy without submitting samples for diagnostic testing</td> </tr> <tr> <td>2</td> <td>Empiric antimicrobial drugs while awaiting results from diagnostic lab</td> </tr> <tr> <td>3</td> <td>I may prescribe antimicrobial drugs once diagnostic test results are complete</td> </tr> <tr> <td>4</td> <td>Non-antimicrobial treatments (For example: diet, probiotic)</td> </tr> <tr> <td>5</td> <td>I do not treat this species</td> </tr> </table>	1	Empiric antimicrobial therapy without submitting samples for diagnostic testing	2	Empiric antimicrobial drugs while awaiting results from diagnostic lab	3	I may prescribe antimicrobial drugs once diagnostic test results are complete	4	Non-antimicrobial treatments (For example: diet, probiotic)	5	I do not treat this species																																														
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32	Pradofloxacin
33	Rifampin
34	Tetracycline
35	Trimethoprim/sulfamethoxazole
36	Vancomycin

48 [dog_rx_while_test]
 Show the field ONLY if:
 [dog_case] = '2'

What antimicrobial drug would you prescribe for treatment?

radio	
1	Amikacin
2	Amoxicillin
3	Amoxicillin/Clavulanic Acid
4	Ampicillin/sulbactam
5	Cefazolin
6	Cefovecin
7	Cefpodoxime
8	Ceftazidime
9	Ceftiofur
10	Cephalexin
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12	Chloramphenicol
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21	Imipenem
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23	Marbofloxacin
24	Meropenem
25	Minocycline
26	Mupirocin
27	Nitrofurantoin
28	Orbifloxacin
29	Oxacillin
30	Penicillin
31	Piperacillin/tazobactam
32	Pradofloxacin

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33	Rifampin
34	Tetracycline
35	Trimethoprim/sulfamethoxazole
36	Vancomycin

51 [dog_test_rx]
 Show the field ONLY if:
 [dog_case] = '3'

A bacterial culture of the animal's feces is performed. Results show mixed bacterial growth, with no enteric pathogens identified. Given this information, what antimicrobial treatment, if any, would you prescribe?

radio	
1	None
2	Amikacin
3	Amoxicillin
4	Amoxicillin/Clavulanic Acid
5	Ampicillin/sulbactam
6	Cefazolin
7	Cefovecin
8	Cefpodoxime
9	Ceftazidime
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33	Pradofloxacin
34	Rifampin
35	Tetracycline
36	Trimethoprim/sulfamethoxazole

			37	Vancomycin																																																										
52	<p>[kitten_case]</p> <p>Show the field ONLY if: [type_species(1)] = '1' or [type_species(2)] = '1'</p>	<p>A 1-year-old spayed domestic short hair cat presents to you for a 2-day history of nasal discharge. She has also been sneezing some at home, but is still eating/drinking. A new kitten from a shelter was introduced into the home 7 days ago. On exam, lungs auscultate clearly. She has a normal respiratory rate, normal temperature, mild bilateral conjunctivitis and a moderate amount of bilateral clear nasal discharge are noted. The cat has been previously healthy and is up to date on vaccines. What diagnostic and/or treatment do you recommend?</p>	<p>radio</p> <table border="1"> <tr> <td>1</td> <td>Empiric antimicrobial therapy without submitting samples for diagnostic testing</td> </tr> <tr> <td>2</td> <td>Empiric antimicrobial drugs while awaiting results from diagnostic lab</td> </tr> <tr> <td>3</td> <td>I may prescribe antimicrobial drugs once diagnostic test results are complete</td> </tr> <tr> <td>4</td> <td>Non-antimicrobial treatments (For example: diet, pain management, behavioral modifications)</td> </tr> <tr> <td>5</td> <td>I do not treat this species</td> </tr> </table>		1	Empiric antimicrobial therapy without submitting samples for diagnostic testing	2	Empiric antimicrobial drugs while awaiting results from diagnostic lab	3	I may prescribe antimicrobial drugs once diagnostic test results are complete	4	Non-antimicrobial treatments (For example: diet, pain management, behavioral modifications)	5	I do not treat this species																																																
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33	Rifampin
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35	Trimethoprim/sulfamethoxazole
36	Vancomycin

54 [kitten_rx_while_test]
 Show the field ONLY if:
 [kitten_case] = '2'

What antimicrobial drug would you prescribe for treatment?

radio	
1	Amikacin
2	Amoxicillin
3	Amoxicillin/Clavulanic Acid
4	Ampicillin/sulbactam
5	Cefazolin
6	Cefovecin
7	Cefpodoxime
8	Ceftazidime
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33	Rifampin

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35	Trimethoprim/sulfamethoxazole
36	Vancomycin

55	[kitten_rx_while_result] Show the field ONLY if: [kitten_case] = '2'	A swab of the nasal and ocular discharge was taken for bacterial culture. Culture results indicated normal respiratory flora. Given this information, would you change the antimicrobial treatment prescribed?	radio <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>Stop antimicrobial treatment</td> </tr> <tr> <td>3</td> <td>No</td> </tr> </table>	1	Yes	2	Stop antimicrobial treatment	3	No
1	Yes								
2	Stop antimicrobial treatment								
3	No								

56	[kitten_change_rx] Show the field ONLY if: [kitten_rx_while_result] = '1'	What would you change to?	radio <table border="1"> <tr><td>1</td><td>Amikacin</td></tr> <tr><td>2</td><td>Amoxicillin</td></tr> <tr><td>3</td><td>Amoxicillin/Clavulanic Acid</td></tr> <tr><td>4</td><td>Ampicillin/sulbactam</td></tr> <tr><td>5</td><td>Cefazolin</td></tr> <tr><td>6</td><td>Cefovecin</td></tr> <tr><td>7</td><td>Cefpodoxime</td></tr> <tr><td>8</td><td>Ceftazidime</td></tr> <tr><td>9</td><td>Ceftiofur</td></tr> <tr><td>10</td><td>Cephalexin</td></tr> <tr><td>11</td><td>Cephalothin</td></tr> <tr><td>12</td><td>Chloramphenicol</td></tr> <tr><td>13</td><td>Clindamycin</td></tr> <tr><td>14</td><td>Doripenem</td></tr> <tr><td>15</td><td>Doxycycline</td></tr> <tr><td>16</td><td>Enrofloxacin</td></tr> <tr><td>17</td><td>Ertapenem</td></tr> <tr><td>18</td><td>Erythromycin</td></tr> <tr><td>19</td><td>Florfenicol</td></tr> <tr><td>20</td><td>Gentamicin</td></tr> <tr><td>21</td><td>Imipenem</td></tr> <tr><td>22</td><td>Linezolid</td></tr> <tr><td>23</td><td>Marbofloxacin</td></tr> <tr><td>24</td><td>Meropenem</td></tr> <tr><td>25</td><td>Minocycline</td></tr> <tr><td>26</td><td>Mupirocin</td></tr> <tr><td>27</td><td>Nitrofurantoin</td></tr> <tr><td>28</td><td>Orbifloxacin</td></tr> <tr><td>29</td><td>Oxacillin</td></tr> <tr><td>30</td><td>Penicillin</td></tr> <tr><td>31</td><td>Piperacillin/tazobactam</td></tr> <tr><td>32</td><td>Pradofloxacin</td></tr> <tr><td>33</td><td>Rifampin</td></tr> </table>	1	Amikacin	2	Amoxicillin	3	Amoxicillin/Clavulanic Acid	4	Ampicillin/sulbactam	5	Cefazolin	6	Cefovecin	7	Cefpodoxime	8	Ceftazidime	9	Ceftiofur	10	Cephalexin	11	Cephalothin	12	Chloramphenicol	13	Clindamycin	14	Doripenem	15	Doxycycline	16	Enrofloxacin	17	Ertapenem	18	Erythromycin	19	Florfenicol	20	Gentamicin	21	Imipenem	22	Linezolid	23	Marbofloxacin	24	Meropenem	25	Minocycline	26	Mupirocin	27	Nitrofurantoin	28	Orbifloxacin	29	Oxacillin	30	Penicillin	31	Piperacillin/tazobactam	32	Pradofloxacin	33	Rifampin
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34	Tetracycline
35	Trimethoprim/sulfamethoxazole
36	Vancomycin

57 [kitten_test_rx]

Show the field ONLY if:
[kitten_case] = '3'

A swab of the nasal and ocular discharge nasal or ocular swab was taken for bacterial culture. Culture results indicated normal respiratory flora. Given this information, what antimicrobial treatment, if any, would you prescribe?

radio	
1	None
2	Amikacin
3	Amoxicillin
4	Amoxicillin/Clavulanic Acid
5	Ampicillin/sulbactam
6	Cefazolin
7	Cefovecin
8	Cefpodoxime
9	Ceftazidime
10	Ceftiofur
11	Cephalexin
12	Cephalothin
13	Chloramphenicol
14	Clindamycin
15	Doripenem
16	Doxycycline
17	Enrofloxacin
18	Ertapenem
19	Erythromycin
20	Florfenicol
21	Gentamicin
22	Imipenem
23	Linezolid
24	Marbofloxacin
25	Meropenem
26	Minocycline
27	Mupirocin
28	Nitrofurantoin
29	Orbifloxacin
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32	Piperacillin/tazobactam
33	Pradofloxacin
34	Rifampin
35	Tetracycline
36	Trimethoprim/sulfamethoxazole
37	Vancomycin

<p>58</p>	<p>[horse1_case] Show the field ONLY if: [type_species(7)] = '1'</p>	<p>At a stable, a horse is presenting with purulent nasal discharge, fever, decreased appetite and lethargy. The horse has recently attended an event, and developed these symptoms after returning. Given this information, which treatment do you recommend for this horse?</p>	<p>radio</p> <table border="1"> <tr> <td>1</td> <td>Empiric antimicrobial therapy without submitting samples for diagnostic testing</td> </tr> <tr> <td>2</td> <td>Empiric antimicrobial drugs while awaiting results from diagnostic lab</td> </tr> <tr> <td>3</td> <td>Antimicrobial drugs once diagnostic test results are complete</td> </tr> <tr> <td>4</td> <td>Non-antimicrobial treatments (For example: quarantine symptomatic individuals, cull)</td> </tr> </table>	1	Empiric antimicrobial therapy without submitting samples for diagnostic testing	2	Empiric antimicrobial drugs while awaiting results from diagnostic lab	3	Antimicrobial drugs once diagnostic test results are complete	4	Non-antimicrobial treatments (For example: quarantine symptomatic individuals, cull)																																				
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<p>59</p>	<p>[horse1_rx_no_test] Show the field ONLY if: [horse1_case] = '1'</p>	<p>What antimicrobial drug would you prescribe for treatment?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Amikacin</td></tr> <tr><td>2</td><td>Amoxicillin/Clavulanic Acid</td></tr> <tr><td>3</td><td>Ampicillin</td></tr> <tr><td>4</td><td>Ampicillin/sulbactam</td></tr> <tr><td>5</td><td>Cefazolin</td></tr> <tr><td>6</td><td>Ceftazidime</td></tr> <tr><td>7</td><td>Ceftiofur</td></tr> <tr><td>8</td><td>Chloramphenicol</td></tr> <tr><td>9</td><td>Clarithromycin</td></tr> <tr><td>10</td><td>Doxycycline</td></tr> <tr><td>11</td><td>Enrofloxacin</td></tr> <tr><td>12</td><td>Erythromycin</td></tr> <tr><td>13</td><td>Gentamicin</td></tr> <tr><td>14</td><td>Imipenem</td></tr> <tr><td>15</td><td>Meropenem</td></tr> <tr><td>16</td><td>Minocycline</td></tr> <tr><td>17</td><td>Oxacillin</td></tr> <tr><td>18</td><td>Penicillin</td></tr> <tr><td>19</td><td>Piperacillin/tazobactam</td></tr> <tr><td>20</td><td>Rifampin</td></tr> <tr><td>21</td><td>Tetracycline</td></tr> <tr><td>22</td><td>Trimethoprim/sulfamethoxazole</td></tr> </table>	1	Amikacin	2	Amoxicillin/Clavulanic Acid	3	Ampicillin	4	Ampicillin/sulbactam	5	Cefazolin	6	Ceftazidime	7	Ceftiofur	8	Chloramphenicol	9	Clarithromycin	10	Doxycycline	11	Enrofloxacin	12	Erythromycin	13	Gentamicin	14	Imipenem	15	Meropenem	16	Minocycline	17	Oxacillin	18	Penicillin	19	Piperacillin/tazobactam	20	Rifampin	21	Tetracycline	22	Trimethoprim/sulfamethoxazole
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<p>60</p>	<p>[horse1_rx_while_test] Show the field ONLY if: [horse1_case] = '2'</p>	<p>What antimicrobial drug would you prescribe for treatment?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Amikacin</td></tr> <tr><td>2</td><td>Amoxicillin/Clavulanic Acid</td></tr> <tr><td>3</td><td>Ampicillin</td></tr> <tr><td>4</td><td>Ampicillin/sulbactam</td></tr> <tr><td>5</td><td>Cefazolin</td></tr> <tr><td>6</td><td>Ceftazidime</td></tr> <tr><td>7</td><td>Ceftiofur</td></tr> <tr><td>8</td><td>Chloramphenicol</td></tr> </table>	1	Amikacin	2	Amoxicillin/Clavulanic Acid	3	Ampicillin	4	Ampicillin/sulbactam	5	Cefazolin	6	Ceftazidime	7	Ceftiofur	8	Chloramphenicol																												
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20	Rifampin
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61	<p>[horse1_while_result]</p> <p>Show the field ONLY if: [horse1_case] = '2'</p>	<p>A BAL sample was obtained and bacterial culture and a screen for respiratory viruses via PCR performed. Streptococcus equi subsp. zooepidemicus was identified with no viral pathogens detected. Given this information, would you change the antimicrobial treatment prescribed?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>Stop antimicrobial treatment</td></tr> <tr><td>3</td><td>No</td></tr> </table>	1	Yes	2	Stop antimicrobial treatment	3	No
1	Yes								
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3	No								

62	<p>[horse1_change_rx]</p> <p>Show the field ONLY if: [horse1_while_result] = '1'</p>	<p>What would you change to?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Amikacin</td></tr> <tr><td>2</td><td>Amoxicillin/Clavulanic Acid</td></tr> <tr><td>3</td><td>Ampicillin</td></tr> <tr><td>4</td><td>Ampicillin/sulbactam</td></tr> <tr><td>5</td><td>Cefazolin</td></tr> <tr><td>6</td><td>Ceftazidime</td></tr> <tr><td>7</td><td>Ceftiofur</td></tr> <tr><td>8</td><td>Chloramphenicol</td></tr> <tr><td>9</td><td>Clarithromycin</td></tr> <tr><td>10</td><td>Doxycycline</td></tr> <tr><td>11</td><td>Enrofloxacin</td></tr> <tr><td>12</td><td>Erythromycin</td></tr> <tr><td>13</td><td>Gentamicin</td></tr> <tr><td>14</td><td>Imipenem</td></tr> <tr><td>15</td><td>Meropenem</td></tr> <tr><td>16</td><td>Minocycline</td></tr> <tr><td>17</td><td>Oxacillin</td></tr> <tr><td>18</td><td>Penicillin</td></tr> <tr><td>19</td><td>Piperacillin/tazobactam</td></tr> <tr><td>20</td><td>Rifampin</td></tr> <tr><td>21</td><td>Tetracycline</td></tr> <tr><td>22</td><td>Trimethoprim/sulfamethoxazole</td></tr> </table>	1	Amikacin	2	Amoxicillin/Clavulanic Acid	3	Ampicillin	4	Ampicillin/sulbactam	5	Cefazolin	6	Ceftazidime	7	Ceftiofur	8	Chloramphenicol	9	Clarithromycin	10	Doxycycline	11	Enrofloxacin	12	Erythromycin	13	Gentamicin	14	Imipenem	15	Meropenem	16	Minocycline	17	Oxacillin	18	Penicillin	19	Piperacillin/tazobactam	20	Rifampin	21	Tetracycline	22	Trimethoprim/sulfamethoxazole
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<p>63</p>	<p>[horse1_test_rx]</p> <p>Show the field ONLY if: [horse1_case] = '3'</p>	<p>A BAL sample was obtained and bacterial culture and a screen for respiratory viruses via PCR performed. Streptococcus equi subsp. zooepidemicus was identified with no viral pathogens detected. Given this information, what antimicrobial, if any, would you prescribe?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>None</td></tr> <tr><td>2</td><td>Amikacin</td></tr> <tr><td>3</td><td>Amoxicillin/Clavulanic Acid</td></tr> <tr><td>4</td><td>Ampicillin</td></tr> <tr><td>5</td><td>Ampicillin/sulbactam</td></tr> <tr><td>6</td><td>Cefazolin</td></tr> <tr><td>7</td><td>Ceftazidime</td></tr> <tr><td>8</td><td>Ceftiofur</td></tr> <tr><td>9</td><td>Chloramphenicol</td></tr> <tr><td>10</td><td>Clarithromycin</td></tr> <tr><td>11</td><td>Doxycycline</td></tr> <tr><td>12</td><td>Enrofloxacin</td></tr> <tr><td>13</td><td>Erythromycin</td></tr> <tr><td>14</td><td>Gentamicin</td></tr> <tr><td>15</td><td>Imipenem</td></tr> <tr><td>16</td><td>Meropenem</td></tr> <tr><td>17</td><td>Minocycline</td></tr> <tr><td>18</td><td>Oxacillin</td></tr> <tr><td>19</td><td>Penicillin</td></tr> <tr><td>20</td><td>Piperacillin/tazobactam</td></tr> <tr><td>21</td><td>Rifampin</td></tr> <tr><td>22</td><td>Tetracycline</td></tr> <tr><td>23</td><td>Trimethoprim/sulfamethoxazole</td></tr> </table>	1	None	2	Amikacin	3	Amoxicillin/Clavulanic Acid	4	Ampicillin	5	Ampicillin/sulbactam	6	Cefazolin	7	Ceftazidime	8	Ceftiofur	9	Chloramphenicol	10	Clarithromycin	11	Doxycycline	12	Enrofloxacin	13	Erythromycin	14	Gentamicin	15	Imipenem	16	Meropenem	17	Minocycline	18	Oxacillin	19	Penicillin	20	Piperacillin/tazobactam	21	Rifampin	22	Tetracycline	23	Trimethoprim/sulfamethoxazole
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<p>64</p>	<p>[horse1_report]</p> <p>Show the field ONLY if: [horse1_case] = '1' or [horse1_case] = '2' or [horse1_case] = '3' or [horse1_case] = '4'</p>	<p>For the above scenario, would you contact the state veterinary office?</p>	<p>yesno</p> <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>0</td><td>No</td></tr> </table>	1	Yes	0	No																																										
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<p>65</p>	<p>[horse2_case]</p> <p>Show the field ONLY if: [type_species(7)] = '1'</p>	<p>A 2-year old quarter horse presents with diarrhea, fever and lethargy of 2-3 days. The horse is well vaccinated, and has no history of medications or other health concerns. The horse is housed in a show barn, with horses traveling in and out on a regular basis. No other horses are affected at this time. After physical examination infectious diarrhea is suspected. Given this information, which treatment do you recommend for this horse?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Empiric antimicrobial therapy without submitting samples for diagnostic testing</td></tr> <tr><td>2</td><td>Empiric antimicrobial drugs while awaiting results from diagnostic lab</td></tr> <tr><td>3</td><td>Antimicrobial drugs once diagnostic test results are complete</td></tr> <tr><td>4</td><td>Non-antimicrobial treatments (For example: quarantine symptomatic individuals, cull)</td></tr> <tr><td>5</td><td>I do not treat this type of animal</td></tr> </table>	1	Empiric antimicrobial therapy without submitting samples for diagnostic testing	2	Empiric antimicrobial drugs while awaiting results from diagnostic lab	3	Antimicrobial drugs once diagnostic test results are complete	4	Non-antimicrobial treatments (For example: quarantine symptomatic individuals, cull)	5	I do not treat this type of animal																																				
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<p>66</p>	<p>[horse2_rx_no_test]</p> <p>Show the field ONLY if: [horse2_case] = '1'</p>	<p>What antimicrobial drug would you prescribe for treatment?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Amikacin</td></tr> <tr><td>2</td><td>Amoxicillin/Clavulanic Acid</td></tr> </table>	1	Amikacin	2	Amoxicillin/Clavulanic Acid																																										
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19	Piperacillin/tazobactam
20	Rifampin
21	Tetracycline
22	Trimethoprim/sulfamethoxazole

67 [horse2_rx_while_test]
 Show the field ONLY if:
 [horse2_case] = '2'

What antimicrobial drug would you prescribe for treatment?

radio

1	Amikacin
2	Amoxicillin/Clavulanic Acid
3	Ampicillin
4	Ampicillin/sulbactam
5	Cefazolin
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72	<p>[header_small_matrix_instruct]</p> <p>Show the field ONLY if: [type_species(1)] = '1' or [type_species(2)] = '1' or [type_species(8)] = '1' or [type_species(7)] = '1'</p>	When working with these animals, who do you communicate instructions to for administering antimicrobials to the patient(s)?	descriptive																								
73	<p>[instruct_owner]</p> <p>Show the field ONLY if: [type_species(1)] = '1' or [type_species(2)] = '1' or [type_species(8)] = '1' or [type_species(7)] = '1'</p>	I communicate the antimicrobial treatment plan directly to the owner of the patient	<p>radio (Matrix)</p> <table border="1"> <tbody> <tr><td>1</td><td>Strongly Agree</td></tr> <tr><td>2</td><td>Agree</td></tr> <tr><td>3</td><td>Neutral</td></tr> <tr><td>4</td><td>Disagree</td></tr> <tr><td>5</td><td>Strongly Disagree</td></tr> </tbody> </table>	1	Strongly Agree	2	Agree	3	Neutral	4	Disagree	5	Strongly Disagree														
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76	<p>[instruct_kennel]</p> <p>Show the field ONLY if: [type_species(1)] = '1' or [type_species(2)] = '1' or [type_species(8)] = '1' or [type_species(7)] = '1'</p>	<p>I communicate the antimicrobial treatment plan to kennel/stable workers</p>	<p>radio (Matrix)</p> <table border="1"> <tr><td>1</td><td>Strongly Agree</td></tr> <tr><td>2</td><td>Agree</td></tr> <tr><td>3</td><td>Neutral</td></tr> <tr><td>4</td><td>Disagree</td></tr> <tr><td>5</td><td>Strongly Disagree</td></tr> </table>	1	Strongly Agree	2	Agree	3	Neutral	4	Disagree	5	Strongly Disagree																																		
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77	<p>[calf1_fl_case]</p> <p>Show the field ONLY if: [type_species(6)] = '1'</p>	<p>Section Header: In a backgrounding yard, a recently weaned Hereford calf newly arrived to the premise is showing signs of lethargy, soft/moist cough and isolation from the group. Physical exam reveals a fever of 105F, increased cranioventral lungs sounds and a decreased rumen fill. The calf has not received vaccines prior to shipment. Given this information, what treatment would you recommend for this calf?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Empiric antimicrobial therapy without submitting samples for diagnostic testing</td></tr> <tr><td>2</td><td>Empiric antimicrobial drugs while awaiting results from diagnostic lab</td></tr> <tr><td>3</td><td>I may prescribe antimicrobial drugs once diagnostic test results are complete</td></tr> <tr><td>4</td><td>Non-antimicrobial treatments (For example: Non-steroid antiinflammatories, corticosteroids, behavioral modifications, diet)</td></tr> </table>	1	Empiric antimicrobial therapy without submitting samples for diagnostic testing	2	Empiric antimicrobial drugs while awaiting results from diagnostic lab	3	I may prescribe antimicrobial drugs once diagnostic test results are complete	4	Non-antimicrobial treatments (For example: Non-steroid antiinflammatories, corticosteroids, behavioral modifications, diet)																																				
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84	<p>[ang_heif_fl_case]</p> <p>Show the field ONLY if: [type_species(6)] = '1'</p>	<p>You are presented with an angus heifer that was moved to the sick pen after signs of lethargy, isolation and coughing were noted. Examination reveals dehydration, lethargy, increased respiratory rate, increased cranioventral lung sounds and a fever of 105F. The heifer was vaccinated at birth with</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Empiric antimicrobial therapy without submitting samples for diagnostic testing</td></tr> <tr><td>2</td><td>Empiric antimicrobial drugs while</td></tr> </table>	1	Empiric antimicrobial therapy without submitting samples for diagnostic testing	2	Empiric antimicrobial drugs while																																										
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85	<p>[ang_heif_fl_not_test]</p> <p>Show the field ONLY if: [ang_heif_fl_case] = '1'</p>	<p>What antimicrobial drug would you prescribe for treatment?</p>	<table border="1"> <tr> <td colspan="2" data-bbox="1045 338 1516 380">radio</td> </tr> <tr><td data-bbox="1045 380 1073 417">1</td><td data-bbox="1073 380 1516 417">Ampicillin</td></tr> <tr><td data-bbox="1045 417 1073 455">2</td><td data-bbox="1073 417 1516 455">Bacitracin</td></tr> <tr><td data-bbox="1045 455 1073 493">3</td><td data-bbox="1073 455 1516 493">Ceftiofur</td></tr> <tr><td data-bbox="1045 493 1073 531">4</td><td data-bbox="1073 493 1516 531">Danofloxacin</td></tr> <tr><td data-bbox="1045 531 1073 569">5</td><td data-bbox="1073 531 1516 569">Enrofloxacin</td></tr> <tr><td data-bbox="1045 569 1073 606">6</td><td data-bbox="1073 569 1516 606">Florfenicol</td></tr> <tr><td data-bbox="1045 606 1073 644">7</td><td data-bbox="1073 606 1516 644">Gamithromycin</td></tr> <tr><td data-bbox="1045 644 1073 682">8</td><td data-bbox="1073 644 1516 682">Gentamicin</td></tr> <tr><td data-bbox="1045 682 1073 720">9</td><td data-bbox="1073 682 1516 720">Lincomycin</td></tr> <tr><td data-bbox="1045 720 1073 758">10</td><td data-bbox="1073 720 1516 758">Neomycin</td></tr> <tr><td data-bbox="1045 758 1073 795">11</td><td data-bbox="1073 758 1516 795">Penicillin</td></tr> <tr><td data-bbox="1045 795 1073 833">12</td><td data-bbox="1073 795 1516 833">Pradofloxacin</td></tr> <tr><td data-bbox="1045 833 1073 871">13</td><td data-bbox="1073 833 1516 871">Spectinomycin</td></tr> <tr><td data-bbox="1045 871 1073 909">14</td><td data-bbox="1073 871 1516 909">Sulfadimethoxine</td></tr> <tr><td data-bbox="1045 909 1073 947">15</td><td data-bbox="1073 909 1516 947">Tetracycline</td></tr> <tr><td data-bbox="1045 947 1073 984">16</td><td data-bbox="1073 947 1516 984">Tiamulin</td></tr> <tr><td data-bbox="1045 984 1073 1022">17</td><td data-bbox="1073 984 1516 1022">Tildipirosin</td></tr> <tr><td data-bbox="1045 1022 1073 1060">18</td><td data-bbox="1073 1022 1516 1060">Tilmicosin</td></tr> <tr><td data-bbox="1045 1060 1073 1098">19</td><td data-bbox="1073 1060 1516 1098">Trimethoprim/sulfamethoxazole</td></tr> <tr><td data-bbox="1045 1098 1073 1136">20</td><td data-bbox="1073 1098 1516 1136">Tulathromycin</td></tr> <tr><td data-bbox="1045 1136 1073 1173">21</td><td data-bbox="1073 1136 1516 1173">Tylosin tartrate</td></tr> <tr><td data-bbox="1045 1173 1073 1211">22</td><td data-bbox="1073 1173 1516 1211">Virginiamycin</td></tr> </table>	radio		1	Ampicillin	2	Bacitracin	3	Ceftiofur	4	Danofloxacin	5	Enrofloxacin	6	Florfenicol	7	Gamithromycin	8	Gentamicin	9	Lincomycin	10	Neomycin	11	Penicillin	12	Pradofloxacin	13	Spectinomycin	14	Sulfadimethoxine	15	Tetracycline	16	Tiamulin	17	Tildipirosin	18	Tilmicosin	19	Trimethoprim/sulfamethoxazole	20	Tulathromycin	21	Tylosin tartrate	22	Virginiamycin
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87	<p>[ang_heif_fl_while_result]</p> <p>Show the field ONLY if: [ang_heif_fl_case] = '2'</p>	<p>A deep nasopharyngeal swab was obtained and bacterial culture and testing for respiratory viruses via PCR was performed. Salmonella Dublin was isolated on culture with no viral agents detected. Given this information, would you change the antimicrobial treatment prescribed?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>Stop antimicrobial treatment</td></tr> <tr><td>3</td><td>No</td></tr> </table>	1	Yes	2	Stop antimicrobial treatment	3	No
1	Yes								
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3	No								

88	<p>[ang_heif_fl_change_rx]</p> <p>Show the field ONLY if: [ang_heif_fl_while_result] = '1'</p>	<p>What would you change to?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Ampicillin</td></tr> <tr><td>2</td><td>Bacitracin</td></tr> <tr><td>3</td><td>Ceftiofur</td></tr> <tr><td>4</td><td>Danofloxacin</td></tr> <tr><td>5</td><td>Enrofloxacin</td></tr> <tr><td>6</td><td>Florfenicol</td></tr> <tr><td>7</td><td>Gamithromycin</td></tr> <tr><td>8</td><td>Gentamicin</td></tr> <tr><td>9</td><td>Lincomycin</td></tr> <tr><td>10</td><td>Neomycin</td></tr> <tr><td>11</td><td>Penicillin</td></tr> <tr><td>12</td><td>Pradofloxacin</td></tr> <tr><td>13</td><td>Spectinomycin</td></tr> <tr><td>14</td><td>Sulfadimethoxine</td></tr> <tr><td>15</td><td>Tetracycline</td></tr> <tr><td>16</td><td>Tiamulin</td></tr> <tr><td>17</td><td>Tildipirosin</td></tr> <tr><td>18</td><td>Tilmicosin</td></tr> <tr><td>19</td><td>Trimethoprim/sulfamethoxazole</td></tr> <tr><td>20</td><td>Tulathromycin</td></tr> <tr><td>21</td><td>Tylosin tartrate</td></tr> <tr><td>22</td><td>Virginiamycin</td></tr> </table>	1	Ampicillin	2	Bacitracin	3	Ceftiofur	4	Danofloxacin	5	Enrofloxacin	6	Florfenicol	7	Gamithromycin	8	Gentamicin	9	Lincomycin	10	Neomycin	11	Penicillin	12	Pradofloxacin	13	Spectinomycin	14	Sulfadimethoxine	15	Tetracycline	16	Tiamulin	17	Tildipirosin	18	Tilmicosin	19	Trimethoprim/sulfamethoxazole	20	Tulathromycin	21	Tylosin tartrate	22	Virginiamycin
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89	<p>[ang_heif_fl_test_rx]</p> <p>Show the field ONLY if: [ang_heif_fl_case] = '3'</p>	<p>A deep nasopharyngeal swab was obtained and bacterial culture; and a screen testing for respiratory viruses via PCR was performed. Results showed isolation of Salmonella Dublin was isolated on culture with no viral agents detected. Given this information,</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>None</td></tr> <tr><td>2</td><td>Ampicillin</td></tr> <tr><td>3</td><td>Bacitracin</td></tr> </table>	1	None	2	Ampicillin	3	Bacitracin
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<p>90</p>	<p>[ang_heif_report] Show the field ONLY if: [ang_heif_fl_case] = '1' or [ang_heif_fl_case] = '2' or [ang_heif_fl_case] = '3' or [ang_heif_fl_case] = '4'</p>	<p>For the above scenario, would you contact the state veterinary office?</p>	<p>yesno</p> <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>0</td><td>No</td></tr> </table>	1	Yes	0	No																																				
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<p>91</p>	<p>[steer_fl_case] Show the field ONLY if: [type_species(6)] = '1'</p>	<p>An angus steer is showing symptoms such lethargy, soft cough and isolation from the herd housed in a feedlot. The group (pen) comes from three different direct sources and the animals entered the operation at around the same time. Of the fifty animals originally housed in the pen, 20% are showing signs of respiratory disease. Given this information, what treatment would you recommend for the cattle in this group?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Empiric antimicrobial therapy to only cattle showing symptoms</td></tr> <tr><td>2</td><td>Empiric antimicrobial therapy for all cattle</td></tr> <tr><td>3</td><td>Evaluate the health of all cattle in a chute and administer antibiotics to those showing symptoms</td></tr> <tr><td>4</td><td>Non-antimicrobial treatments (intensify monitoring, nutritional supplements, vaccination, etc)</td></tr> <tr><td>5</td><td>No treatment</td></tr> </table>	1	Empiric antimicrobial therapy to only cattle showing symptoms	2	Empiric antimicrobial therapy for all cattle	3	Evaluate the health of all cattle in a chute and administer antibiotics to those showing symptoms	4	Non-antimicrobial treatments (intensify monitoring, nutritional supplements, vaccination, etc)	5	No treatment																														
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93	<p>[steer_intervention]</p> <p>Show the field ONLY if: [steer_fl_case] = '1' or [steer_fl_case] = '2' or [steer_fl_case] = '3' or [steer_fl_case] = '4'</p>	<p>Given the situation described above, which of the following interventions would you recommend? (Select all that apply)</p>	<p>checkbox</p> <table border="1"> <tr> <td>1</td> <td>steer_intervention__1</td> <td>Prophylaxis of incoming calves onto premise</td> </tr> <tr> <td>2</td> <td>steer_intervention__2</td> <td>Individual animal treatment based on clinical signs</td> </tr> <tr> <td>3</td> <td>steer_intervention__3</td> <td>Metaphylaxis of in-contact calves in the same pen as the affected calf.</td> </tr> </table>	1	steer_intervention__1	Prophylaxis of incoming calves onto premise	2	steer_intervention__2	Individual animal treatment based on clinical signs	3	steer_intervention__3	Metaphylaxis of in-contact calves in the same pen as the affected calf.																							
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95	<p>[heif1_dc_case]</p> <p>Show the field ONLY if: [type_vet] = '3' or [type_species(5)] = '1'</p>	<p>A group of holstein heifers of weaning age are to be moved from hutches to a grow barn. This calf source consistently has some management issues with colostrum administration at birth, and the facilities are minimally adequate. The calves on this farm have 15% mortality due to respiratory disease. Which of the following interventions do you recommend to prevent bacterial disease in this group at the dairy?</p>	<p>radio</p> <table border="1"> <tr> <td>1</td> <td>Empiric antimicrobial therapy to only cattle showing symptoms</td> </tr> <tr> <td>2</td> <td>Empiric antimicrobial therapy for all cattle</td> </tr> <tr> <td>3</td> <td>Non-antimicrobial treatments (For example: nutritional support, vaccination, allowing rest and acclimatization time, etc)</td> </tr> <tr> <td>4</td> <td>No treatment</td> </tr> </table>	1	Empiric antimicrobial therapy to only cattle showing symptoms	2	Empiric antimicrobial therapy for all cattle	3	Non-antimicrobial treatments (For example: nutritional support, vaccination, allowing rest and acclimatization time, etc)	4	No treatment																								
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<p>96</p>	<p>[heif1_dc_dx]</p> <p>Show the field ONLY if: [heif1_dc_case] = '1' or [heif1_dc_case] = '2'</p>	<p>What antimicrobial drug would you prescribe for treatment?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Ampicillin</td></tr> <tr><td>2</td><td>Bacitracin</td></tr> <tr><td>3</td><td>Ceftiofur</td></tr> <tr><td>4</td><td>Danofloxacin</td></tr> <tr><td>5</td><td>Enrofloxacin</td></tr> <tr><td>6</td><td>Florfenicol</td></tr> <tr><td>7</td><td>Gamithromycin</td></tr> <tr><td>8</td><td>Gentamicin</td></tr> <tr><td>9</td><td>Lincomycin</td></tr> <tr><td>10</td><td>Neomycin</td></tr> <tr><td>11</td><td>Penicillin</td></tr> <tr><td>12</td><td>Pradofloxacin</td></tr> <tr><td>13</td><td>Spectinomycin</td></tr> <tr><td>14</td><td>Sulfadimethoxine</td></tr> <tr><td>15</td><td>Tetracycline</td></tr> <tr><td>16</td><td>Tiamulin</td></tr> <tr><td>17</td><td>Tildipirosin</td></tr> <tr><td>18</td><td>Tilmicosin</td></tr> <tr><td>19</td><td>Trimethoprim/sulfamethoxazole</td></tr> <tr><td>20</td><td>Tulathromycin</td></tr> <tr><td>21</td><td>Tylosin tartrate</td></tr> <tr><td>22</td><td>Virginiamycin</td></tr> </table>	1	Ampicillin	2	Bacitracin	3	Ceftiofur	4	Danofloxacin	5	Enrofloxacin	6	Florfenicol	7	Gamithromycin	8	Gentamicin	9	Lincomycin	10	Neomycin	11	Penicillin	12	Pradofloxacin	13	Spectinomycin	14	Sulfadimethoxine	15	Tetracycline	16	Tiamulin	17	Tildipirosin	18	Tilmicosin	19	Trimethoprim/sulfamethoxazole	20	Tulathromycin	21	Tylosin tartrate	22	Virginiamycin
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<p>97</p>	<p>[heif1_dc_report]</p> <p>Show the field ONLY if: [heif1_dc_case] = '1' or [heif1_dc_case] = '2' or [heif1_dc_case] = '3' or [heif1_dc_case] = '4'</p>	<p>For the above scenario, would you contact the state veterinary office?</p>	<p>yesno</p> <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>0</td><td>No</td></tr> </table>	1	Yes	0	No																																								
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<p>98</p>	<p>[heif2_dc_case]</p> <p>Show the field ONLY if: [type_species(5)] = '1'</p>	<p>You are presented with a holstein heifer that was moved to the sick pen after signs of lethargy, isolation and diarrhea were noted. Exam reveals dehydration, depression, increased respiratory rate, fecal staining of hind legs and a fever of 105F. This calf was vaccinated at birth with intranasal PI3/IBR MLV and vaccinated systemically at 2 weeks with a IBR/PI3/BRSV/BVD-MLV. Given this information, what treatment would you recommend for this calf?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Empiric antimicrobial therapy without submitting samples for diagnostic testing</td></tr> <tr><td>2</td><td>Empiric antimicrobial drugs while awaiting results from diagnostic lab</td></tr> <tr><td>3</td><td>Antimicrobial drugs once diagnostic test results are complete</td></tr> <tr><td>4</td><td>Non-antimicrobial treatments (For example: Non-steroid antiinflammatories, corticosteroids, behavioral modifications, diet)</td></tr> <tr><td>5</td><td>I do not treat this type of animal</td></tr> </table>	1	Empiric antimicrobial therapy without submitting samples for diagnostic testing	2	Empiric antimicrobial drugs while awaiting results from diagnostic lab	3	Antimicrobial drugs once diagnostic test results are complete	4	Non-antimicrobial treatments (For example: Non-steroid antiinflammatories, corticosteroids, behavioral modifications, diet)	5	I do not treat this type of animal																																		
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<p>99</p>	<p>[heif2_dc_rx_no_test]</p> <p>Show the field ONLY if: [heif2_dc_case] = '1'</p>	<p>What antimicrobial drug would you prescribe for treatment?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Ampicillin</td></tr> <tr><td>2</td><td>Bacitracin</td></tr> </table>	1	Ampicillin	2	Bacitracin																																								
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13	Spectinomycin
14	Sulfadimethoxine
15	Tetracycline
16	Tiamulin
17	Tildipirosin
18	Tilmicosin
19	Trimethoprim/sulfamethoxazole
20	Tulathromycin
21	Tylosin tartrate
22	Virginiamycin

100 [heif2_dc_rx_while_test]
 Show the field ONLY if:
 [heif2_dc_case] = '2'

What antimicrobial drug would you prescribe for treatment?

radio

1	Ampicillin
2	Bacitracin
3	Ceftiofur
4	Danofloxacin
5	Enrofloxacin
6	Florfenicol
7	Gamithromycin
8	Gentamicin
9	Lincomycin
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101	<p>[heif2_dc_rx_while_result]</p> <p>Show the field ONLY if: [heif2_dc_case] = '2'</p>	<p>A fecal sample was obtained and bacterial culture and a screen for viruses via PCR performed. Salmonella Typhimurium was identified, and the animal is also positive for bovine coronavirus. Given this information, would you change the antimicrobial treatment prescribed?</p>	<p>radio</p> <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>Stop antimicrobial treatment</td> </tr> <tr> <td>3</td> <td>No</td> </tr> </table>	1	Yes	2	Stop antimicrobial treatment	3	No																																						
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102	<p>[heif2_dc_change_rx]</p> <p>Show the field ONLY if: [heif2_dc_rx_while_result] = '1'</p>	<p>What would you change to?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Ampicillin</td></tr> <tr><td>2</td><td>Bacitracin</td></tr> <tr><td>3</td><td>Ceftiofur</td></tr> <tr><td>4</td><td>Danofloxacin</td></tr> <tr><td>5</td><td>Enrofloxacin</td></tr> <tr><td>6</td><td>Florfenicol</td></tr> <tr><td>7</td><td>Gamithromycin</td></tr> <tr><td>8</td><td>Gentamicin</td></tr> <tr><td>9</td><td>Lincomycin</td></tr> <tr><td>10</td><td>Neomycin</td></tr> <tr><td>11</td><td>Penicillin</td></tr> <tr><td>12</td><td>Pradofloxacin</td></tr> <tr><td>13</td><td>Spectinomycin</td></tr> <tr><td>14</td><td>Sulfadimethoxine</td></tr> <tr><td>15</td><td>Tetracycline</td></tr> <tr><td>16</td><td>Tiamulin</td></tr> <tr><td>17</td><td>Tildipirosin</td></tr> <tr><td>18</td><td>Tilmicosin</td></tr> <tr><td>19</td><td>Trimethoprim/sulfamethoxazole</td></tr> <tr><td>20</td><td>Tulathromycin</td></tr> <tr><td>21</td><td>Tylosin tartrate</td></tr> <tr><td>22</td><td>Virginiamycin</td></tr> </table>	1	Ampicillin	2	Bacitracin	3	Ceftiofur	4	Danofloxacin	5	Enrofloxacin	6	Florfenicol	7	Gamithromycin	8	Gentamicin	9	Lincomycin	10	Neomycin	11	Penicillin	12	Pradofloxacin	13	Spectinomycin	14	Sulfadimethoxine	15	Tetracycline	16	Tiamulin	17	Tildipirosin	18	Tilmicosin	19	Trimethoprim/sulfamethoxazole	20	Tulathromycin	21	Tylosin tartrate	22	Virginiamycin
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103	<p>[heif2_dc_test_rx]</p> <p>Show the field ONLY if: [heif2_dc_case] = '3'</p>	<p>A fecal sample was obtained and bacterial culture and a screen for viruses via PCR performed. Salmonella Typhimurium was identified, and the animal is also positive for bovine coronavirus. Given this information, what antimicrobial, if any, would you prescribe?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>None</td></tr> <tr><td>2</td><td>Ampicillin</td></tr> <tr><td>3</td><td>Bacitracin</td></tr> <tr><td>4</td><td>Ceftiofur</td></tr> <tr><td>5</td><td>Danofloxacin</td></tr> <tr><td>6</td><td>Enrofloxacin</td></tr> <tr><td>7</td><td>Florfenicol</td></tr> <tr><td>8</td><td>Gamithromycin</td></tr> <tr><td>9</td><td>Gentamicin</td></tr> <tr><td>10</td><td>Lincomycin</td></tr> <tr><td>11</td><td>Neomycin</td></tr> </table>	1	None	2	Ampicillin	3	Bacitracin	4	Ceftiofur	5	Danofloxacin	6	Enrofloxacin	7	Florfenicol	8	Gamithromycin	9	Gentamicin	10	Lincomycin	11	Neomycin																						
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104	[heif2_dc_report] Show the field ONLY if: [heif2_dc_case] = '1' or [heif2_dc_case] = '2' or [heif2_dc_case] = '3' or [heif2_dc_case] = '4'	For the above scenario, would you contact the state veterinary office?	yesno <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>0</td><td>No</td></tr> </table>	1	Yes	0	No
1	Yes						
0	No						

105	[heif3_dc_case] Show the field ONLY if: [type_species(5)] = '1'	You are presented with 50 heifers that were recently weaned and co-mingled. Five animals are showing similar signs of respiratory disease, including lethargy, isolation, coughing, dehydration, increased respiratory rate and increased cranioventral lung sounds, and a fever of 105F. There have been two dead, which necropsies have been performed on. One necropsy revealed fibrinous pneumonia while the other showed effusive pleuritis. Given this information, which of the following intervention is your group treatment of choice?	radio <table border="1"> <tr><td>1</td><td>Empiric antimicrobial therapy to only cattle showing symptoms</td></tr> <tr><td>2</td><td>Empiric antimicrobial therapy for all cattle</td></tr> <tr><td>3</td><td>Non-antimicrobial treatments (For example: Evaluate the health of all cattle in a chute, nutritional support, vaccination, etc)</td></tr> <tr><td>4</td><td>No treatment</td></tr> </table>	1	Empiric antimicrobial therapy to only cattle showing symptoms	2	Empiric antimicrobial therapy for all cattle	3	Non-antimicrobial treatments (For example: Evaluate the health of all cattle in a chute, nutritional support, vaccination, etc)	4	No treatment
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106	[heif3_dc_rx] Show the field ONLY if: [heif3_dc_case] = '1' or [heif3_dc_case] = '2'	What antimicrobial drug would you prescribe for treatment?	radio <table border="1"> <tr><td>1</td><td>Ampicillin</td></tr> <tr><td>2</td><td>Bacitracin</td></tr> <tr><td>3</td><td>Ceftiofur</td></tr> <tr><td>4</td><td>Danofloxacin</td></tr> <tr><td>5</td><td>Enrofloxacin</td></tr> <tr><td>6</td><td>Florfenicol</td></tr> <tr><td>7</td><td>Gamithromycin</td></tr> <tr><td>8</td><td>Gentamicin</td></tr> <tr><td>9</td><td>Lincomycin</td></tr> <tr><td>10</td><td>Neomycin</td></tr> <tr><td>11</td><td>Penicillin</td></tr> <tr><td>12</td><td>Pradofloxacin</td></tr> <tr><td>13</td><td>Spectinomycin</td></tr> <tr><td>14</td><td>Sulfadimethoxine</td></tr> <tr><td>15</td><td>Tetracycline</td></tr> </table>	1	Ampicillin	2	Bacitracin	3	Ceftiofur	4	Danofloxacin	5	Enrofloxacin	6	Florfenicol	7	Gamithromycin	8	Gentamicin	9	Lincomycin	10	Neomycin	11	Penicillin	12	Pradofloxacin	13	Spectinomycin	14	Sulfadimethoxine	15	Tetracycline
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107	<p>[heif3_dc_test_rx]</p> <p>Show the field ONLY if: [heif3_dc_case] = '1' or [heif3_dc_case] = '2' or [heif3_dc_case] = '3' or [heif3_dc_case] = '4'</p>	<p>Histophilus somni and Mycoplasma bovis are identified on culture and no viruses are detected from the lungs of two affected animals. No viruses were detected. Given this information, would you change the initial treatment prescribed?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Start antimicrobial treatment</td></tr> <tr><td>2</td><td>Change antimicrobial drug prescribed</td></tr> <tr><td>3</td><td>Stop antimicrobial treatment</td></tr> <tr><td>4</td><td>Start non-antimicrobial treatments</td></tr> <tr><td>5</td><td>No changes to treatment plan</td></tr> </table>	1	Start antimicrobial treatment	2	Change antimicrobial drug prescribed	3	Stop antimicrobial treatment	4	Start non-antimicrobial treatments	5	No changes to treatment plan																																		
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109	<p>[heif3_dc_report]</p> <p>Show the field ONLY if: [heif3_dc_case] = '1' or [heif3_dc_case] = '2' or [heif3_dc_case] = '3' or [heif3_dc_case] = '4'</p>	<p>For the above scenario, would you contact the state veterinary office?</p>	<p>yesno</p> <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>0</td><td>No</td></tr> </table>	1	Yes	0	No																																								
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110	<p>[cow_dc_case]</p> <p>Show the field ONLY if: [type_species(5)] = '1'</p>	<p>A 4 year old Jersey cow that is 90 days in milk presents with a 30% drop in production. Her front left quarter is firm, painful, and hot to the touch. She is bright, alert and responsive, and has a temperature of 103 F and a heart rate of 95 bpm. Given this information, which of the following intervention would you pursue?</p>	<p>radio</p> <table border="1"> <tr> <td data-bbox="1045 121 1084 226">1</td> <td data-bbox="1084 121 1524 226">Empiric antimicrobial therapy without submitting samples for diagnostic testing</td> </tr> <tr> <td data-bbox="1045 226 1084 302">2</td> <td data-bbox="1084 226 1524 302">Empiric antimicrobial drugs while awaiting results from diagnostic lab</td> </tr> <tr> <td data-bbox="1045 302 1084 378">3</td> <td data-bbox="1084 302 1524 378">Antimicrobial drugs once diagnostic test results are complete</td> </tr> <tr> <td data-bbox="1045 378 1084 520">4</td> <td data-bbox="1084 378 1524 520">Non-antimicrobial treatment options (For example: Non-steroid antiinflammatories, corticosteroids, behavioral modifications, diet)</td> </tr> </table>	1	Empiric antimicrobial therapy without submitting samples for diagnostic testing	2	Empiric antimicrobial drugs while awaiting results from diagnostic lab	3	Antimicrobial drugs once diagnostic test results are complete	4	Non-antimicrobial treatment options (For example: Non-steroid antiinflammatories, corticosteroids, behavioral modifications, diet)																		
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111	<p>[cow_dc_rx_no_test]</p> <p>Show the field ONLY if: [cow_dc_case] = '1'</p>	<p>What antimicrobial drug would you prescribe for treatment?</p>	<p>radio</p> <table border="1"> <tr> <td data-bbox="1045 569 1084 617">1</td> <td data-bbox="1084 569 1524 617">Amoxicillin Trihydrate</td> </tr> <tr> <td data-bbox="1045 617 1084 665">2</td> <td data-bbox="1084 617 1524 665">Ceftiofur Hydrochloride</td> </tr> <tr> <td data-bbox="1045 665 1084 714">3</td> <td data-bbox="1084 665 1524 714">Ceftiofur Sodium</td> </tr> <tr> <td data-bbox="1045 714 1084 762">4</td> <td data-bbox="1084 714 1524 762">Cephapirin Sodium</td> </tr> <tr> <td data-bbox="1045 762 1084 810">5</td> <td data-bbox="1084 762 1524 810">Cloxacillin Benzathine or Sodium</td> </tr> <tr> <td data-bbox="1045 810 1084 858">6</td> <td data-bbox="1084 810 1524 858">Erythromycin</td> </tr> <tr> <td data-bbox="1045 858 1084 907">7</td> <td data-bbox="1084 858 1524 907">Hetacillin Potassium</td> </tr> <tr> <td data-bbox="1045 907 1084 955">8</td> <td data-bbox="1084 907 1524 955">Novobiocin Sodium</td> </tr> <tr> <td data-bbox="1045 955 1084 1003">9</td> <td data-bbox="1084 955 1524 1003">Penicillin G Procaine</td> </tr> <tr> <td data-bbox="1045 1003 1084 1079">10</td> <td data-bbox="1084 1003 1524 1079">Penicillin G Procaine and Dihydrostreptomycin</td> </tr> <tr> <td data-bbox="1045 1079 1084 1155">11</td> <td data-bbox="1084 1079 1524 1155">Penicillin G Procaine and Novobiocin Sodium</td> </tr> <tr> <td data-bbox="1045 1155 1084 1203">12</td> <td data-bbox="1084 1155 1524 1203">Pirlimycin Hydrochloride</td> </tr> <tr> <td data-bbox="1045 1203 1084 1247">13</td> <td data-bbox="1084 1203 1524 1247">Other</td> </tr> </table>	1	Amoxicillin Trihydrate	2	Ceftiofur Hydrochloride	3	Ceftiofur Sodium	4	Cephapirin Sodium	5	Cloxacillin Benzathine or Sodium	6	Erythromycin	7	Hetacillin Potassium	8	Novobiocin Sodium	9	Penicillin G Procaine	10	Penicillin G Procaine and Dihydrostreptomycin	11	Penicillin G Procaine and Novobiocin Sodium	12	Pirlimycin Hydrochloride	13	Other
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112	<p>[other_rx_notest_cow_dc]</p> <p>Show the field ONLY if: [cow_dc_rx_no_test] = '13'</p>	<p>If you chose other, what antimicrobial drug would you prescribe?</p>	<p>text</p>																										
113	<p>[cow_dc_rx_while_test]</p> <p>Show the field ONLY if: [cow_dc_case] = '2'</p>	<p>What antimicrobial drug would you prescribe for treatment?</p>	<p>radio</p> <table border="1"> <tr> <td data-bbox="1045 1478 1084 1526">1</td> <td data-bbox="1084 1478 1524 1526">Amoxicillin Trihydrate</td> </tr> <tr> <td data-bbox="1045 1526 1084 1575">2</td> <td data-bbox="1084 1526 1524 1575">Ceftiofur Hydrochloride</td> </tr> <tr> <td data-bbox="1045 1575 1084 1623">3</td> <td data-bbox="1084 1575 1524 1623">Ceftiofur Sodium</td> </tr> <tr> <td data-bbox="1045 1623 1084 1671">4</td> <td data-bbox="1084 1623 1524 1671">Cephapirin Sodium</td> </tr> <tr> <td data-bbox="1045 1671 1084 1719">5</td> <td data-bbox="1084 1671 1524 1719">Cloxacillin Benzathine or Sodium</td> </tr> <tr> <td data-bbox="1045 1719 1084 1768">6</td> <td data-bbox="1084 1719 1524 1768">Erythromycin</td> </tr> <tr> <td data-bbox="1045 1768 1084 1816">7</td> <td data-bbox="1084 1768 1524 1816">Hetacillin Potassium</td> </tr> <tr> <td data-bbox="1045 1816 1084 1864">8</td> <td data-bbox="1084 1816 1524 1864">Novobiocin Sodium</td> </tr> <tr> <td data-bbox="1045 1864 1084 1913">9</td> <td data-bbox="1084 1864 1524 1913">Penicillin G Procaine</td> </tr> <tr> <td data-bbox="1045 1913 1084 1976">10</td> <td data-bbox="1084 1913 1524 1976">Penicillin G Procaine and Dihydrostreptomycin</td> </tr> </table>	1	Amoxicillin Trihydrate	2	Ceftiofur Hydrochloride	3	Ceftiofur Sodium	4	Cephapirin Sodium	5	Cloxacillin Benzathine or Sodium	6	Erythromycin	7	Hetacillin Potassium	8	Novobiocin Sodium	9	Penicillin G Procaine	10	Penicillin G Procaine and Dihydrostreptomycin						
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115	[cow_dc_while_result] Show the field ONLY if: [cow_dc_case] = '2'	A sample of milk is cultured and E. coli is identified. Given this information, would you change the antimicrobial treatment prescribed?	radio <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>Stop antimicrobial treatment</td> </tr> <tr> <td>3</td> <td>No</td> </tr> </table>	1	Yes	2	Stop antimicrobial treatment	3	No																				
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116	[cow_dc_change_rx] Show the field ONLY if: [cow_dc_while_result] = '1'	What would you change to?	radio <table border="1"> <tr> <td>1</td> <td>Amoxicillin Trihydrate</td> </tr> <tr> <td>2</td> <td>Ceftiofur Hydrochloride</td> </tr> <tr> <td>3</td> <td>Ceftiofur Sodium</td> </tr> <tr> <td>4</td> <td>Cephapirin Sodium</td> </tr> <tr> <td>5</td> <td>Cloxacillin Benzathine or Sodium</td> </tr> <tr> <td>6</td> <td>Erythromycin</td> </tr> <tr> <td>7</td> <td>Hetacillin Potassium</td> </tr> <tr> <td>8</td> <td>Novobiocin Sodium</td> </tr> <tr> <td>9</td> <td>Penicillin G Procaine</td> </tr> <tr> <td>10</td> <td>Penicillin G Procaine and Dihydrostreptomycin</td> </tr> <tr> <td>11</td> <td>Penicillin G Procaine and Novobiocin Sodium</td> </tr> <tr> <td>12</td> <td>Pirlimycin Hydrochloride</td> </tr> <tr> <td>13</td> <td>Other</td> </tr> </table>	1	Amoxicillin Trihydrate	2	Ceftiofur Hydrochloride	3	Ceftiofur Sodium	4	Cephapirin Sodium	5	Cloxacillin Benzathine or Sodium	6	Erythromycin	7	Hetacillin Potassium	8	Novobiocin Sodium	9	Penicillin G Procaine	10	Penicillin G Procaine and Dihydrostreptomycin	11	Penicillin G Procaine and Novobiocin Sodium	12	Pirlimycin Hydrochloride	13	Other
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118	[cow_dc_test_rx] Show the field ONLY if: [cow_dc_case] = '3'	A sample of milk is cultured and E. coli is identified. Given this information, if any, antimicrobial treatment would you prescribe?	radio <table border="1"> <tr> <td>1</td> <td>None</td> </tr> <tr> <td>2</td> <td>Amoxicillin Trihydrate</td> </tr> <tr> <td>3</td> <td>Ceftiofur Hydrochloride</td> </tr> <tr> <td>4</td> <td>Ceftiofur Sodium</td> </tr> <tr> <td>5</td> <td>Cephapirin Sodium</td> </tr> <tr> <td>6</td> <td>Cloxacillin Benzathine or Sodium</td> </tr> <tr> <td>7</td> <td>Erythromycin</td> </tr> <tr> <td>8</td> <td>Hetacillin Potassium</td> </tr> <tr> <td>9</td> <td>Novobiocin Sodium</td> </tr> <tr> <td>10</td> <td>Penicillin G Procaine</td> </tr> </table>	1	None	2	Amoxicillin Trihydrate	3	Ceftiofur Hydrochloride	4	Ceftiofur Sodium	5	Cephapirin Sodium	6	Cloxacillin Benzathine or Sodium	7	Erythromycin	8	Hetacillin Potassium	9	Novobiocin Sodium	10	Penicillin G Procaine						
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120	[cow_dc_report] Show the field ONLY if: [cow_dc_case] = '1' or [cow_dc_case] = '2' or [cow_dc_case] = '3' or [cow_dc_case] = '4'	For the above scenario, would you contact the state veterinary office?	yesno <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>0</td> <td>No</td> </tr> </table>	1	Yes	0	No																																				
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121	[poultry_case] Show the field ONLY if: [type_species(4)] = '1'	A 20,000 bird commercial poultry farm (5,000 birds per barn) reports a 20% mortality in chicks with clinical signs including sudden death, respiratory distress and lethargy in one barn. Recently, there was a change in source for the breeder flock. Given this information, which treatment do you recommend?	radio <table border="1"> <tr> <td>1</td> <td>Administer antimicrobial therapy to all poultry on premises</td> </tr> <tr> <td>2</td> <td>Administer antimicrobial therapy to affected poultry barns only</td> </tr> <tr> <td>3</td> <td>Non-antimicrobial treatments (intensify monitoring, nutritional supplements, vaccination, etc)</td> </tr> <tr> <td>4</td> <td>No treatment</td> </tr> </table>	1	Administer antimicrobial therapy to all poultry on premises	2	Administer antimicrobial therapy to affected poultry barns only	3	Non-antimicrobial treatments (intensify monitoring, nutritional supplements, vaccination, etc)	4	No treatment																																
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122	[poultry_rx] Show the field ONLY if: [poultry_case] = '1' or [poultry_case] = '2'	What antimicrobial drug would you prescribe for treatment?	radio <table border="1"> <tr><td>1</td><td>Amoxicillin</td></tr> <tr><td>2</td><td>Bacitracin</td></tr> <tr><td>3</td><td>Bambermycin</td></tr> <tr><td>4</td><td>Ceftiofur</td></tr> <tr><td>5</td><td>Chlortetracycline</td></tr> <tr><td>6</td><td>Enrofloxacin</td></tr> <tr><td>7</td><td>Erythromycin</td></tr> <tr><td>8</td><td>Flavophospholipol</td></tr> <tr><td>9</td><td>Florfenicol</td></tr> <tr><td>10</td><td>Gentamicin</td></tr> <tr><td>11</td><td>Lincomycin</td></tr> <tr><td>12</td><td>Neomycin</td></tr> <tr><td>13</td><td>Novobiocin</td></tr> <tr><td>14</td><td>Oxytetracycline</td></tr> <tr><td>15</td><td>Penicillin</td></tr> <tr><td>16</td><td>Spectinomycin</td></tr> <tr><td>17</td><td>Streptomycin</td></tr> <tr><td>18</td><td>Sulfadimethoxine</td></tr> <tr><td>19</td><td>Sulphathiazole</td></tr> <tr><td>20</td><td>Tetracycline</td></tr> </table>	1	Amoxicillin	2	Bacitracin	3	Bambermycin	4	Ceftiofur	5	Chlortetracycline	6	Enrofloxacin	7	Erythromycin	8	Flavophospholipol	9	Florfenicol	10	Gentamicin	11	Lincomycin	12	Neomycin	13	Novobiocin	14	Oxytetracycline	15	Penicillin	16	Spectinomycin	17	Streptomycin	18	Sulfadimethoxine	19	Sulphathiazole	20	Tetracycline
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123	<p>[poultry_result]</p> <p>Show the field ONLY if: [poultry_case] = '1' or [poultry_case] = '2'</p>	<p>A culture of the liver and air sac was performed on four affected chicks, and results showed isolation of E. coli. Given this information, would you change the treatment prescribed?</p>	<p>radio</p> <table border="1"> <tr><td>2</td><td>Start antimicrobial treatment</td></tr> <tr><td>3</td><td>Change antimicrobial drug prescribed</td></tr> <tr><td>4</td><td>Stop antimicrobial treatment</td></tr> <tr><td>5</td><td>Start non-antimicrobial treatments</td></tr> <tr><td>1</td><td>No changes to treatment plan</td></tr> </table>	2	Start antimicrobial treatment	3	Change antimicrobial drug prescribed	4	Stop antimicrobial treatment	5	Start non-antimicrobial treatments	1	No changes to treatment plan																																				
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124	<p>[poultry_result_rx]</p> <p>Show the field ONLY if: [poultry_result] = '2' or [poultry_result] = '3'</p>	<p>What antimicrobial would you use to treat these animals?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Amoxicillin</td></tr> <tr><td>2</td><td>Bacitracin</td></tr> <tr><td>3</td><td>Bambermycin</td></tr> <tr><td>4</td><td>Ceftiofur</td></tr> <tr><td>5</td><td>Chlortetracycline</td></tr> <tr><td>6</td><td>Enrofloxacin</td></tr> <tr><td>7</td><td>Erythromycin</td></tr> <tr><td>8</td><td>Flavophospholipol</td></tr> <tr><td>9</td><td>Florfenicol</td></tr> <tr><td>10</td><td>Gentamicin</td></tr> <tr><td>11</td><td>Lincomycin</td></tr> <tr><td>12</td><td>Neomycin</td></tr> <tr><td>13</td><td>Novobiocin</td></tr> <tr><td>14</td><td>Oxytetracycline</td></tr> <tr><td>15</td><td>Penicillin</td></tr> <tr><td>16</td><td>Spectinomycin</td></tr> <tr><td>17</td><td>Streptomycin</td></tr> <tr><td>18</td><td>Sulfadimethoxine</td></tr> <tr><td>19</td><td>Sulphathiazole</td></tr> <tr><td>20</td><td>Tetracycline</td></tr> <tr><td>21</td><td>Trimethoprim/sulfamethoxazole</td></tr> <tr><td>22</td><td>Tylosin tartrate</td></tr> <tr><td>23</td><td>Virginiamycin</td></tr> </table>	1	Amoxicillin	2	Bacitracin	3	Bambermycin	4	Ceftiofur	5	Chlortetracycline	6	Enrofloxacin	7	Erythromycin	8	Flavophospholipol	9	Florfenicol	10	Gentamicin	11	Lincomycin	12	Neomycin	13	Novobiocin	14	Oxytetracycline	15	Penicillin	16	Spectinomycin	17	Streptomycin	18	Sulfadimethoxine	19	Sulphathiazole	20	Tetracycline	21	Trimethoprim/sulfamethoxazole	22	Tylosin tartrate	23	Virginiamycin
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126	<p>[header_large_matrix_labels]</p> <p>Show the field ONLY if:</p>	<p>When working with commercial or large animals, who do you communicate instructions to for administering antimicrobials to the patient(s)?</p>	<p>descriptive</p>																																														

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127	[la_owner_coms] Show the field ONLY if: [type_species(4)] = '1' or [type_species(5)] = '1' or [type_species(6)] = '1'	I communicate antimicrobial treatment plan directly to the farm or premise owner	radio (Matrix) <table border="1"> <tr><td>1</td><td>Strongly Agree</td></tr> <tr><td>2</td><td>Agree</td></tr> <tr><td>3</td><td>Neutral</td></tr> <tr><td>4</td><td>Disagree</td></tr> <tr><td>5</td><td>Strongly Disagree</td></tr> </table>	1	Strongly Agree	2	Agree	3	Neutral	4	Disagree	5	Strongly Disagree
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128	[la_tech_coms] Show the field ONLY if: [type_species(4)] = '1' or [type_species(5)] = '1' or [type_species(6)] = '1'	I communicate antimicrobial treatment plan to a veterinary assistant/technician, who communicates this to individuals carrying out treatment.	radio (Matrix) <table border="1"> <tr><td>1</td><td>Strongly Agree</td></tr> <tr><td>2</td><td>Agree</td></tr> <tr><td>3</td><td>Neutral</td></tr> <tr><td>4</td><td>Disagree</td></tr> <tr><td>5</td><td>Strongly Disagree</td></tr> </table>	1	Strongly Agree	2	Agree	3	Neutral	4	Disagree	5	Strongly Disagree
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129	[la_manager_coms] Show the field ONLY if: [type_species(4)] = '1' or [type_species(5)] = '1' or [type_species(6)] = '1'	I communicate antimicrobial treatment plan to the farm or premise manager.	radio (Matrix) <table border="1"> <tr><td>1</td><td>Strongly Agree</td></tr> <tr><td>2</td><td>Agree</td></tr> <tr><td>3</td><td>Neutral</td></tr> <tr><td>4</td><td>Disagree</td></tr> <tr><td>5</td><td>Strongly Disagree</td></tr> </table>	1	Strongly Agree	2	Agree	3	Neutral	4	Disagree	5	Strongly Disagree
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130	[la_hand_coms] Show the field ONLY if: [type_species(4)] = '1' or [type_species(5)] = '1' or [type_species(6)] = '1'	I communicate antimicrobial treatment plan to a farm hand, who is employed by animal owner and provides care to animal.	radio (Matrix) <table border="1"> <tr><td>1</td><td>Strongly Agree</td></tr> <tr><td>2</td><td>Agree</td></tr> <tr><td>3</td><td>Neutral</td></tr> <tr><td>4</td><td>Disagree</td></tr> <tr><td>5</td><td>Strongly Disagree</td></tr> </table>	1	Strongly Agree	2	Agree	3	Neutral	4	Disagree	5	Strongly Disagree
1	Strongly Agree												
2	Agree												
3	Neutral												
4	Disagree												
5	Strongly Disagree												
131	[chick1_by_case] Show the field ONLY if: [type_species(3)] = '1'	Section Header: The owner of a backyard chicken enclosure has just received 8 new chicks in the mail, and has introduced them to the flock. Since then, some adult birds in the flock are showing respiratory symptoms, including wheezing, discharge from eyes and nose, lethargy and decreased appetite. Given this information, which treatment do you recommend?	radio <table border="1"> <tr><td>1</td><td>Empiric antimicrobial therapy without submitting samples for diagnostic testing</td></tr> <tr><td>2</td><td>Empiric antimicrobial drugs while awaiting results from diagnostic lab</td></tr> <tr><td>3</td><td>Antimicrobial drugs once diagnostic test results are complete</td></tr> <tr><td>4</td><td>Non-antimicrobial treatment options (For example: quarantine symptomatic individuals, cull)</td></tr> <tr><td>5</td><td>I do not treat this species</td></tr> </table>	1	Empiric antimicrobial therapy without submitting samples for diagnostic testing	2	Empiric antimicrobial drugs while awaiting results from diagnostic lab	3	Antimicrobial drugs once diagnostic test results are complete	4	Non-antimicrobial treatment options (For example: quarantine symptomatic individuals, cull)	5	I do not treat this species
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132	[which_chick] Show the field ONLY if: [chick1_by_case] = '1' or [chick1_by_case] = '2' or [chick1_by_case] = '3'	For this situation given, would you treat:	radio <table border="1"> <tr><td>1</td><td>Symptomatic adult birds</td></tr> <tr><td>2</td><td>All adult birds</td></tr> <tr><td>3</td><td>All birds in the flock (adults and chicks)</td></tr> </table>	1	Symptomatic adult birds	2	All adult birds	3	All birds in the flock (adults and chicks)				
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<p>133</p>	<p>[<i>chick1_by_rx_no_test</i>] Show the field ONLY if: [chick1_by_case] = '1'</p>	<p>What antimicrobial drug would you prescribe for treatment?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Amoxicillin</td></tr> <tr><td>2</td><td>Bacitracin</td></tr> <tr><td>3</td><td>Bambermycin</td></tr> <tr><td>4</td><td>Ceftiofur</td></tr> <tr><td>5</td><td>Chlortetracycline</td></tr> <tr><td>6</td><td>Enrofloxacin</td></tr> <tr><td>7</td><td>Erythromycin</td></tr> <tr><td>8</td><td>Flavophospholipol</td></tr> <tr><td>9</td><td>Florfenicol</td></tr> <tr><td>10</td><td>Gentamicin</td></tr> <tr><td>11</td><td>Lincomycin</td></tr> <tr><td>12</td><td>Neomycin</td></tr> <tr><td>13</td><td>Novobiocin</td></tr> <tr><td>14</td><td>Oxytetracycline</td></tr> <tr><td>15</td><td>Penicillin</td></tr> <tr><td>16</td><td>Spectinomycin</td></tr> <tr><td>17</td><td>Streptomycin</td></tr> <tr><td>18</td><td>Sulphathiazole</td></tr> <tr><td>19</td><td>Tetracycline</td></tr> <tr><td>20</td><td>Trimethoprim/sulfamethoxazole</td></tr> <tr><td>21</td><td>Tylosin tartrate</td></tr> <tr><td>22</td><td>Virginiamycin</td></tr> </table>	1	Amoxicillin	2	Bacitracin	3	Bambermycin	4	Ceftiofur	5	Chlortetracycline	6	Enrofloxacin	7	Erythromycin	8	Flavophospholipol	9	Florfenicol	10	Gentamicin	11	Lincomycin	12	Neomycin	13	Novobiocin	14	Oxytetracycline	15	Penicillin	16	Spectinomycin	17	Streptomycin	18	Sulphathiazole	19	Tetracycline	20	Trimethoprim/sulfamethoxazole	21	Tylosin tartrate	22	Virginiamycin
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<p>134</p>	<p>[<i>chick1_by_rx_while_test</i>] Show the field ONLY if: [chick1_by_case] = '2'</p>	<p>What antimicrobial drug would you prescribe for treatment?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Amoxicillin</td></tr> <tr><td>2</td><td>Bacitracin</td></tr> <tr><td>3</td><td>Bambermycin</td></tr> <tr><td>4</td><td>Ceftiofur</td></tr> <tr><td>5</td><td>Chlortetracycline</td></tr> <tr><td>6</td><td>Enrofloxacin</td></tr> <tr><td>7</td><td>Erythromycin</td></tr> <tr><td>8</td><td>Flavophospholipol</td></tr> <tr><td>9</td><td>Florfenicol</td></tr> <tr><td>10</td><td>Gentamicin</td></tr> <tr><td>11</td><td>Lincomycin</td></tr> <tr><td>12</td><td>Neomycin</td></tr> <tr><td>13</td><td>Novobiocin</td></tr> <tr><td>14</td><td>Oxytetracycline</td></tr> <tr><td>15</td><td>Penicillin</td></tr> <tr><td>16</td><td>Spectinomycin</td></tr> <tr><td>17</td><td>Streptomycin</td></tr> </table>	1	Amoxicillin	2	Bacitracin	3	Bambermycin	4	Ceftiofur	5	Chlortetracycline	6	Enrofloxacin	7	Erythromycin	8	Flavophospholipol	9	Florfenicol	10	Gentamicin	11	Lincomycin	12	Neomycin	13	Novobiocin	14	Oxytetracycline	15	Penicillin	16	Spectinomycin	17	Streptomycin										
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135	<p>[chick1_by_rx_while_result]</p> <p>Show the field ONLY if: [chick1_by_case] = '2'</p>	<p>A tracheal swab was taken to identify bacterial and/or viral pathogens. Results showed a positive PCR for Mycoplasma gallisepticum. Given this information, would you change the antimicrobial treatment prescribed?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>Stop antimicrobial treatment</td></tr> <tr><td>3</td><td>No</td></tr> </table>	1	Yes	2	Stop antimicrobial treatment	3	No																																						
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136	<p>[chick1_by_change_rx]</p> <p>Show the field ONLY if: [chick1_by_rx_while_result] = '1'</p>	<p>What would you change to?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Amoxicillin</td></tr> <tr><td>2</td><td>Bacitracin</td></tr> <tr><td>3</td><td>Bambermycin</td></tr> <tr><td>4</td><td>Ceftiofur</td></tr> <tr><td>5</td><td>Chlortetracycline</td></tr> <tr><td>6</td><td>Enrofloxacin</td></tr> <tr><td>7</td><td>Erythromycin</td></tr> <tr><td>8</td><td>Flavophospholipol</td></tr> <tr><td>9</td><td>Florfenicol</td></tr> <tr><td>10</td><td>Gentamicin</td></tr> <tr><td>11</td><td>Lincomycin</td></tr> <tr><td>12</td><td>Neomycin</td></tr> <tr><td>13</td><td>Novobiocin</td></tr> <tr><td>14</td><td>Oxytetracycline</td></tr> <tr><td>15</td><td>Penicillin</td></tr> <tr><td>16</td><td>Spectinomycin</td></tr> <tr><td>17</td><td>Streptomycin</td></tr> <tr><td>18</td><td>Sulphathiazole</td></tr> <tr><td>19</td><td>Tetracycline</td></tr> <tr><td>20</td><td>Trimethoprim/sulfamethoxazole</td></tr> <tr><td>21</td><td>Tylosin tartrate</td></tr> <tr><td>22</td><td>Virginiamycin</td></tr> </table>	1	Amoxicillin	2	Bacitracin	3	Bambermycin	4	Ceftiofur	5	Chlortetracycline	6	Enrofloxacin	7	Erythromycin	8	Flavophospholipol	9	Florfenicol	10	Gentamicin	11	Lincomycin	12	Neomycin	13	Novobiocin	14	Oxytetracycline	15	Penicillin	16	Spectinomycin	17	Streptomycin	18	Sulphathiazole	19	Tetracycline	20	Trimethoprim/sulfamethoxazole	21	Tylosin tartrate	22	Virginiamycin
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137	<p>[chick1_by_test_rx]</p> <p>Show the field ONLY if: [chick1_by_case] = '3'</p>	<p>A tracheal swab was taken to identify bacterial and/or viral pathogens. Results showed a positive PCR for Mycoplasma gallisepticum. Given this information, what antimicrobial treatment, if any, would you prescribe?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>None</td></tr> <tr><td>2</td><td>Amoxicillin</td></tr> <tr><td>3</td><td>Bacitracin</td></tr> <tr><td>4</td><td>Bambermycin</td></tr> <tr><td>5</td><td>Ceftiofur</td></tr> <tr><td>6</td><td>Chlortetracycline</td></tr> <tr><td>7</td><td>Enrofloxacin</td></tr> <tr><td>8</td><td>Erythromycin</td></tr> </table>	1	None	2	Amoxicillin	3	Bacitracin	4	Bambermycin	5	Ceftiofur	6	Chlortetracycline	7	Enrofloxacin	8	Erythromycin																												
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138	<p>[chick1_by_report]</p> <p>Show the field ONLY if: [chick1_by_case] = '1' or [chick1_by_case] = '2' or [chick1_by_case] = '3' or [chick1_by_case] = '4'</p>	<p>For the above scenario, would you contact the state veterinary office?</p>	<p>yesno</p> <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>0</td><td>No</td></tr> </table>	1	Yes	0	No																										
1	Yes																																
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139	<p>[goat_case]</p> <p>Show the field ONLY if: [type_species(3)] = '1'</p>	<p>In a backyard farm setting, a goat presents with a submandibular abscess. The owner of the backyard farm is concerned about caseous lymphadenitis (Corynebacterium pseudotuberculosis, CL), and is inquiring about treatment for this, as well as methods to control the spread to the rest of the herd. Given this information, which treatment do you recommend?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Empiric antimicrobial therapy without submitting samples for diagnostic testing</td></tr> <tr><td>2</td><td>Empiric antimicrobial drugs while awaiting results from diagnostic lab</td></tr> <tr><td>3</td><td>Antimicrobial drugs once diagnostic test results are complete</td></tr> <tr><td>4</td><td>Non-antimicrobial treatments (For example: quarantine symptomatic individuals, drain abscess, remove lymph nodes, cull)</td></tr> <tr><td>5</td><td>I do not treat this species</td></tr> </table>	1	Empiric antimicrobial therapy without submitting samples for diagnostic testing	2	Empiric antimicrobial drugs while awaiting results from diagnostic lab	3	Antimicrobial drugs once diagnostic test results are complete	4	Non-antimicrobial treatments (For example: quarantine symptomatic individuals, drain abscess, remove lymph nodes, cull)	5	I do not treat this species																				
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140	<p>[which_goats]</p> <p>Show the field ONLY if: [goat_case] = '1' or [goat_case] = '2' or [goat_case] = '3'</p>	<p>For the above scenario, which animals in the backyard farm would be treated?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Treat symptomatic goat only</td></tr> <tr><td>2</td><td>Treat all goats in the herd</td></tr> <tr><td>3</td><td>Treat all animals on the farm</td></tr> </table>	1	Treat symptomatic goat only	2	Treat all goats in the herd	3	Treat all animals on the farm																								
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141	<p>[goat_rx_no_test]</p> <p>Show the field ONLY if: [goat_case] = '1'</p>	<p>What antimicrobial drug would you prescribe for treatment?</p>	<p>radio</p> <table border="1"> <tr><td>1</td><td>Ampicillin</td></tr> <tr><td>2</td><td>Bacitracin</td></tr> <tr><td>3</td><td>Ceftiofur</td></tr> <tr><td>4</td><td>Danofloxacin</td></tr> <tr><td>5</td><td>Enrofloxacin</td></tr> <tr><td>6</td><td>Florfenicol</td></tr> </table>	1	Ampicillin	2	Bacitracin	3	Ceftiofur	4	Danofloxacin	5	Enrofloxacin	6	Florfenicol																		
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18	Tilmicosin
19	Trimethoprim/sulfamethoxazole
20	Tulathromycin
21	Tylosin tartrate
22	Virginiamycin

142 [goat_rx_while_test]
 Show the field ONLY if:
 [goat_case] = '2'

What antimicrobial drug would you prescribe for treatment?

radio

1	Ampicillin
2	Bacitracin
3	Ceftiofur
4	Danofloxacin
5	Enrofloxacin
6	Florfenicol
7	Gamithromycin
8	Gentamicin
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143 [goat_rx_while_result]
 Show the field ONLY if:

A culture of the abscess material or exudate was performed, and results showed isolation of

radio

1	Yes
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	[goat_case] = '2'	Staphylococcus aureus. Given this information, would you change the antimicrobial treatment prescribed?	<table border="1"> <tr> <td>2</td> <td>Stop antimicrobial treatment</td> </tr> <tr> <td>3</td> <td>No</td> </tr> </table>	2	Stop antimicrobial treatment	3	No																																								
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145	<p>[goat_test_rx]</p> <p>Show the field ONLY if: [goat_case] = '3'</p>	A culture of the abscess material or exudate was performed, and results showed isolation of Staphylococcus aureus. Given this information, what antimicrobial treatment, if any, would you prescribe?	<p>radio</p> <table border="1"> <tr><td>1</td><td>None</td></tr> <tr><td>2</td><td>Ampicillin</td></tr> <tr><td>3</td><td>Bacitracin</td></tr> <tr><td>4</td><td>Ceftiofur</td></tr> <tr><td>5</td><td>Danofloxacin</td></tr> <tr><td>6</td><td>Enrofloxacin</td></tr> <tr><td>7</td><td>Florfenicol</td></tr> <tr><td>8</td><td>Gamithromycin</td></tr> <tr><td>9</td><td>Gentamicin</td></tr> <tr><td>10</td><td>Lincomycin</td></tr> <tr><td>11</td><td>Neomycin</td></tr> <tr><td>12</td><td>Penicillin</td></tr> <tr><td>13</td><td>Pradofloxacin</td></tr> <tr><td>14</td><td>Spectinomycin</td></tr> <tr><td>15</td><td>Sulfadimethoxine</td></tr> </table>	1	None	2	Ampicillin	3	Bacitracin	4	Ceftiofur	5	Danofloxacin	6	Enrofloxacin	7	Florfenicol	8	Gamithromycin	9	Gentamicin	10	Lincomycin	11	Neomycin	12	Penicillin	13	Pradofloxacin	14	Spectinomycin	15	Sulfadimethoxine														
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146	<p>[goat_report]</p> <p>Show the field ONLY if: [goat_case] = '1' or [goat_case] = '2' or [goat_case] = '3' or [goat_case] = '4'</p>	For the above scenario, would you contact the state veterinary office?	<p>yesno</p> <table border="1"> <tr><td>1</td><td>Yes</td></tr> <tr><td>0</td><td>No</td></tr> </table>	1	Yes	0	No												
1	Yes																		
0	No																		
147	<p>[header_large_matrix_by_coms]</p> <p>Show the field ONLY if: [type_species(3)] = '1'</p>	When working with backyard animals, who do you communicate instructions to for administering antimicrobials to the patient(s)?	descriptive																
148	<p>[by_owner_coms]</p> <p>Show the field ONLY if: [type_species(3)] = '1'</p>	I communicate antimicrobial treatment plan directly to backyard farm or animal owner.	<p>radio (Matrix)</p> <table border="1"> <tr><td>1</td><td>Strongly Agree</td></tr> <tr><td>2</td><td>Agree</td></tr> <tr><td>3</td><td>Neutral</td></tr> <tr><td>4</td><td>Disagree</td></tr> <tr><td>5</td><td>Strongly Disagree</td></tr> </table>	1	Strongly Agree	2	Agree	3	Neutral	4	Disagree	5	Strongly Disagree						
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3	Neutral																		
4	Disagree																		
5	Strongly Disagree																		
149	<p>[by_manager_coms]</p> <p>Show the field ONLY if: [type_species(3)] = '1'</p>	I communicate antimicrobial treatment plan to the production manager of farm where animal resides.	<p>radio (Matrix)</p> <table border="1"> <tr><td>1</td><td>Strongly Agree</td></tr> <tr><td>2</td><td>Agree</td></tr> <tr><td>3</td><td>Neutral</td></tr> <tr><td>4</td><td>Disagree</td></tr> <tr><td>5</td><td>Strongly Disagree</td></tr> </table>	1	Strongly Agree	2	Agree	3	Neutral	4	Disagree	5	Strongly Disagree						
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150	<p>[by_tech_coms]</p> <p>Show the field ONLY if: [type_species(3)] = '1'</p>	I communicate antimicrobial treatment plan to a veterinary assistant/technician, who communicates this to individuals carrying out treatment.	<p>radio (Matrix)</p> <table border="1"> <tr><td>1</td><td>Strongly Agree</td></tr> <tr><td>2</td><td>Agree</td></tr> <tr><td>3</td><td>Neutral</td></tr> <tr><td>4</td><td>Disagree</td></tr> <tr><td>5</td><td>Strongly Disagree</td></tr> </table>	1	Strongly Agree	2	Agree	3	Neutral	4	Disagree	5	Strongly Disagree						
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151	<p>[by_staff_coms]</p> <p>Show the field ONLY if: [type_species(3)] = '1'</p>	I communicate antimicrobial treatment plan to animal care staff.	<p>radio (Matrix)</p> <table border="1"> <tr><td>1</td><td>Strongly Agree</td></tr> <tr><td>2</td><td>Agree</td></tr> <tr><td>3</td><td>Neutral</td></tr> <tr><td>4</td><td>Disagree</td></tr> <tr><td>5</td><td>Strongly Disagree</td></tr> </table>	1	Strongly Agree	2	Agree	3	Neutral	4	Disagree	5	Strongly Disagree						
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152	<p>[by_other_coms]</p> <p>Show the field ONLY if:</p>	I communicate antimicrobial treatment plan to another person not directly involved in treatment	<p>radio (Matrix)</p> <table border="1"> <tr><td>1</td><td>Strongly Agree</td></tr> </table>	1	Strongly Agree														
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	[type_species(3)] = '1'	plan of the animal.	<table border="1"> <tr><td>2</td><td>Agree</td></tr> <tr><td>3</td><td>Neutral</td></tr> <tr><td>4</td><td>Disagree</td></tr> <tr><td>5</td><td>Strongly Disagree</td></tr> </table>	2	Agree	3	Neutral	4	Disagree	5	Strongly Disagree																																																																																																				
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153	[unknown_abx]	<p>Section Header: <i>You are almost done with the survey, just one very long question, and two very short questions left!</i></p> <p>This is a very long list, but please select all the antimicrobials that you have NOT heard of, or are unfamiliar with.</p>	<p>checkbox</p> <table border="1"> <tr><td>1</td><td>unknown_abx__1</td><td>Amikacin</td></tr> <tr><td>2</td><td>unknown_abx__2</td><td>Amoxicillin</td></tr> <tr><td>3</td><td>unknown_abx__3</td><td>Amoxicillin Trihydrate</td></tr> <tr><td>4</td><td>unknown_abx__4</td><td>Amoxicillin/Clavulanate</td></tr> <tr><td>5</td><td>unknown_abx__5</td><td>Ampicillin</td></tr> <tr><td>6</td><td>unknown_abx__6</td><td>Bacitracin</td></tr> <tr><td>7</td><td>unknown_abx__7</td><td>Bambergmycin</td></tr> <tr><td>8</td><td>unknown_abx__8</td><td>Cefazolin</td></tr> <tr><td>9</td><td>unknown_abx__9</td><td>Cefovecin</td></tr> <tr><td>10</td><td>unknown_abx__10</td><td>Cefpodoxime</td></tr> <tr><td>11</td><td>unknown_abx__11</td><td>Ceftazidime</td></tr> <tr><td>12</td><td>unknown_abx__12</td><td>Ceftiofur</td></tr> <tr><td>13</td><td>unknown_abx__13</td><td>Ceftiofur Hydrochloride</td></tr> <tr><td>14</td><td>unknown_abx__14</td><td>Ceftiofur Sodium</td></tr> <tr><td>15</td><td>unknown_abx__15</td><td>Cephalexin</td></tr> <tr><td>16</td><td>unknown_abx__16</td><td>Cephalothin</td></tr> <tr><td>17</td><td>unknown_abx__17</td><td>Cephapirin Sodium</td></tr> <tr><td>18</td><td>unknown_abx__18</td><td>Chloramphenicol</td></tr> <tr><td>19</td><td>unknown_abx__19</td><td>Chlortetracycline</td></tr> <tr><td>20</td><td>unknown_abx__20</td><td>Clarithromycin</td></tr> <tr><td>21</td><td>unknown_abx__21</td><td>Clindamycin</td></tr> <tr><td>22</td><td>unknown_abx__22</td><td>Cloxacillin Benzathine Sodium</td></tr> <tr><td>23</td><td>unknown_abx__23</td><td>Danofloxacin</td></tr> <tr><td>24</td><td>unknown_abx__24</td><td>Doripenem</td></tr> <tr><td>25</td><td>unknown_abx__25</td><td>Doxycycline</td></tr> <tr><td>26</td><td>unknown_abx__26</td><td>Enrofloxacin</td></tr> <tr><td>27</td><td>unknown_abx__27</td><td>Ertapenem</td></tr> <tr><td>28</td><td>unknown_abx__28</td><td>Erythromycin</td></tr> <tr><td>29</td><td>unknown_abx__29</td><td>Flavophospholipol</td></tr> <tr><td>30</td><td>unknown_abx__30</td><td>Florfenicol</td></tr> <tr><td>31</td><td>unknown_abx__31</td><td>Gamithromycin</td></tr> <tr><td>32</td><td>unknown_abx__32</td><td>Gentamicin</td></tr> <tr><td>33</td><td>unknown_abx__33</td><td>Hetacillin Potassium</td></tr> <tr><td>34</td><td>unknown_abx__34</td><td>Imipenem</td></tr> <tr><td>35</td><td>unknown_abx__35</td><td>Imipenim</td></tr> <tr><td>36</td><td>unknown_abx__36</td><td>Lincomycin</td></tr> </table>	1	unknown_abx__1	Amikacin	2	unknown_abx__2	Amoxicillin	3	unknown_abx__3	Amoxicillin Trihydrate	4	unknown_abx__4	Amoxicillin/Clavulanate	5	unknown_abx__5	Ampicillin	6	unknown_abx__6	Bacitracin	7	unknown_abx__7	Bambergmycin	8	unknown_abx__8	Cefazolin	9	unknown_abx__9	Cefovecin	10	unknown_abx__10	Cefpodoxime	11	unknown_abx__11	Ceftazidime	12	unknown_abx__12	Ceftiofur	13	unknown_abx__13	Ceftiofur Hydrochloride	14	unknown_abx__14	Ceftiofur Sodium	15	unknown_abx__15	Cephalexin	16	unknown_abx__16	Cephalothin	17	unknown_abx__17	Cephapirin Sodium	18	unknown_abx__18	Chloramphenicol	19	unknown_abx__19	Chlortetracycline	20	unknown_abx__20	Clarithromycin	21	unknown_abx__21	Clindamycin	22	unknown_abx__22	Cloxacillin Benzathine Sodium	23	unknown_abx__23	Danofloxacin	24	unknown_abx__24	Doripenem	25	unknown_abx__25	Doxycycline	26	unknown_abx__26	Enrofloxacin	27	unknown_abx__27	Ertapenem	28	unknown_abx__28	Erythromycin	29	unknown_abx__29	Flavophospholipol	30	unknown_abx__30	Florfenicol	31	unknown_abx__31	Gamithromycin	32	unknown_abx__32	Gentamicin	33	unknown_abx__33	Hetacillin Potassium	34	unknown_abx__34	Imipenem	35	unknown_abx__35	Imipenim	36	unknown_abx__36	Lincomycin
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37	unknown_abx__37	Linezolid
38	unknown_abx__38	Marbofloxacin
39	unknown_abx__39	Meropenem
40	unknown_abx__40	Minocycline
41	unknown_abx__41	Mupirocin
42	unknown_abx__42	Neomycin
43	unknown_abx__43	Nitrofurantoin
44	unknown_abx__44	Novobiocin
45	unknown_abx__45	Novobiocin Sodium
46	unknown_abx__46	Orbifloxacin
47	unknown_abx__47	Oxacillin
48	unknown_abx__48	Oxytetracycline
49	unknown_abx__49	Penicillin
50	unknown_abx__50	Penicillin G Procaine
51	unknown_abx__51	Penicillin G Procaine and Dihydrostreptomycin
52	unknown_abx__52	Penicillin G Procaine and Novobiocin Sodium
53	unknown_abx__53	Piperacillin/tazobactam
54	unknown_abx__54	Pirlimycin Hydrochloride
55	unknown_abx__55	Pradofloxacin
56	unknown_abx__56	Rifampin
57	unknown_abx__57	Spectinomycin
58	unknown_abx__58	Streptomycin
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60	unknown_abx__60	Sulphadimethoxine
61	unknown_abx__61	Sulphathiazole
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66	unknown_abx__66	Trimethoprim/sulfamethoxazole
67	unknown_abx__67	Tulathromycin
68	unknown_abx__68	Tylosin tartrate
69	unknown_abx__69	Vancomycin
70	unknown_abx__70	Virginiamycin

154	[desc_text4]	Thank you for your time! Just two final questions.	descriptive				
155	[raffle]	For participating in this study, we would like to compensate you for your time by putting your name into a raffle to win a \$50 gift card. Would you like your name added to the raffle?	yesno <table border="1" style="display: inline-table;"> <tr><td>1</td><td>Yes</td></tr> <tr><td>0</td><td>No</td></tr> </table>	1	Yes	0	No
1	Yes						
0	No						
156	[raffle_email] Show the field ONLY if:	Please provide your email to notify you if you are a raffle winner.	text (email)				

	[raffle] = '1'								
157	[future]	Would you be interested in hearing about future studies and the results of this survey? Future studies would be strictly related to the veterinary field (e.g., occupational health, one health, AMR)	yesno <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>0</td> <td>No</td> </tr> </table>	1	Yes	0	No		
1	Yes								
0	No								
158	[future_email] Show the field ONLY if: [future] = '1'	Please provide your email to connect with you about future studies.	text (email)						
159	[form_1_complete]	Section Header: <i>Form Status</i> Complete?	dropdown <table border="1"> <tr> <td>0</td> <td>Incomplete</td> </tr> <tr> <td>1</td> <td>Unverified</td> </tr> <tr> <td>2</td> <td>Complete</td> </tr> </table>	0	Incomplete	1	Unverified	2	Complete
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