

# Antimicrobial stewardship survey

Please complete the survey below.

If you'd like more information about this survey click on the link to the participant information sheet.

[Attachment: "PLS\_v1.docx"]

Which university do you attend?

- ☐ Charles Sturt University
- ☐ James Cook University
- ☐ Murdoch University
- ☐ University of Adelaide
- ☐ University of Melbourne
- ☐ University of Queensland
- ☐ University of Sydney

All going well, in which year will you graduate?

- ☐ 2017
- ☐ 2018
- ☐ 2019

What is your main area of interest?

- ☐ Companion animals
- ☐ Equine
- ☐ Bovine
- ☐ A mix of the above
- ☐ Public health, government, industry, research
- ☐ Haven't decided yet

Do you think that veterinary use of antimicrobials contributes to overall antimicrobial resistance?

- ☐ Strong contribution
- ☐ Moderate contribution
- ☐ Minimal contribution
- ☐ No contribution
- ☐ Not sure

For the question above, what are the major reasons you answered this way?

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**For each of the following antimicrobials, please indicate if they are for first, second or third line therapy:**

	First line	Second line	Third line	Not sure
Amoxicillin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Amoxicillin clavulanate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Amikacin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Oxytetracycline	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Metronidazole	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enrofloxacin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Procaine penicillin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cefovecin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Trimethoprim sulphonamide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gentamicin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Vancomycin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Clindamycin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Chloramphenicol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cephalexin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Marbofloxacin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rifampicin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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**For each of the following scenarios please indicate if you think systemic (injectable or oral) antimicrobials are indicated**

	Always	Frequently	Rarely	Never	Not sure
Routine dog spey	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pancreatitis in a dog	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2 year old cat with stranguria and haematuria	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lame cow	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Routine gelding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2 day old wound over the canon bone of a horse with bone exposed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cat with a draining abscess on its face	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Routine dental prophylaxis in a dog	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Upper respiratory tract disease of 4 days duration in an otherwise healthy cat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dog with superficial bacterial dermatitis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3 week old calf with diarrhoea	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Foal with patent urachus	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Horse with fever of unknown origin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dog with severe haemorrhagic gastroenteritis but not sepsis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cow that calved 2 days ago that has retained foetal membranes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3 year old cow with moderate mastitis in 1 quarter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Colibacillosis in a poultry flock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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**For each of the following scenarios please indicate if you would submit samples for culture and susceptibility testing:**

	Always	Frequently	Rarely	Never	Not sure
2 year old cat with stranguria and haematuria	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5 year old female dog with stranguria and haematuria (first occurrence)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5 year old female dog with stranguria and haematuria that has previously been treated with amoxicillin clavulanate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4 week old foal with pneumonia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A group of 4 week old calves with pneumonia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4 year old cow with mild mastitis in 1 quarter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4 year old cow with gangrenous mastitis (black mastitis)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Otitis externa in a dog (1st occurrence)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recurrent otitis externa in a dog	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adult cow with acute watery diarrhoea	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Horse with distal limb cellulitis in a single leg	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Calf with a septic hock joint	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Foal with a septic hock joint	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pyothorax in a cat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dog with recurrent pyoderma	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Diarrhoea in grower pigs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pneumonia in a group of feedlot cattle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What are the 3 most important factors that would influence your decision to submit samples for culture and sensitivity?

- ☐ Location of the infection
- ☐ Ease of obtaining a sample
- ☐ Persistent infection
- ☐ Severe infection
- ☐ Client finances
- ☐ Unusual infection
- ☐ Atypical cytology
- ☐ To confirm a diagnosis
- ☐ Notifiable diseases
- ☐ Herd problems
- ☐ Re-occurring infections
- ☐ Other

Please specify

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**For each of the following scenarios please indicate the level of biosecurity you would take for examination and performing procedures**

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	None	Hand wash after contact	Gloves only	Gown/overalls only	Gloves & gown/overalls	Gloves, gown/overalls & face protection (respiratory mask and goggles)	Gloves, overalls with head protection, P2 respiratory mask and goggles	Not sure
Routine examination of a dog or cat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Routine examination of a horse	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Routine examination of a cow	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Horse with fever of unknown origin and neurological signs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Horse with acute watery diarrhoea	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cow with acute watery diarrhoea	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cat flu of 4 days duration in an otherwise healthy cat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Post mortem examination of a cow	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Post mortem examination of a horse	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Galah with respiratory disease	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aborted foetal material from a horse	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Routine dental prophylaxis in a dog	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cow with dystocia (calving)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sick bat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goats with poor conception rates	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mare with dystocia (foaling)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Methicillin resistant Staphylococcus pseudintermedius dermatitis in a dog	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An animal with a multi-drug resistant urinary tract infection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When entering a pig farm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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**Please indicate your level of knowledge about the following guidelines:**

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	Know of	Have read	Refer to often	Never heard of
AVA Guidelines for veterinary personal biosecurity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
AIDAP Practical infection control guidelines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
University of Melbourne Australian veterinary prescribing guidelines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
AIDAP Antimicrobial prescribing guidelines for dogs and cats	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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**Please indicate how strongly you agree to each of the following statements:**

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
I understand what antimicrobial stewardship is.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The amount of teaching time for prudent antibiotic use is about right.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I understand antimicrobial resistance mechanisms.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have a good knowledge of the pharmacology of antibiotics.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The amount of teaching time for pharmacology is about right.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I know how to use antibiotics to minimise the risk of antimicrobial resistance developing.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
What I have learnt about antibiotic use in clinics is the same as what is taught to me in lectures.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
What I have learnt in clinics is more useful than what I learnt in lectures.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Anything else you'd like to tell us?

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Thank you for completing the survey! You're entitled to a copy of the guidelines as a thanks from us. If you didn't get your copy please email me at: [laura.hardefeldt@unimelb.edu.au](mailto:laura.hardefeldt@unimelb.edu.au)