

ANTIMICROBIALS CASE STUDY - one week old standardbred foal

Foal was normal until yesterday, other than leaking urine from the umbilicus for 2 days after birth.

Yesterday developed swelling of the left hock and is now very lame in that leg.

Clinical Examination:

Lameness, fluid swelling of the tibiotarsal joint, left hock, febrile with a moist exudative umbilicus.

ANTIMÍCROBIÁLS CASE STUDY 1 - 1 week old standardbred foal

List the Problems you can identify:
Lameness
Tibial tarsal joint is swollen
Fever
Umbilicus leaking urine

ANTIMICROBIALS CASE STUDY 1 - 1 week old standardbred foal

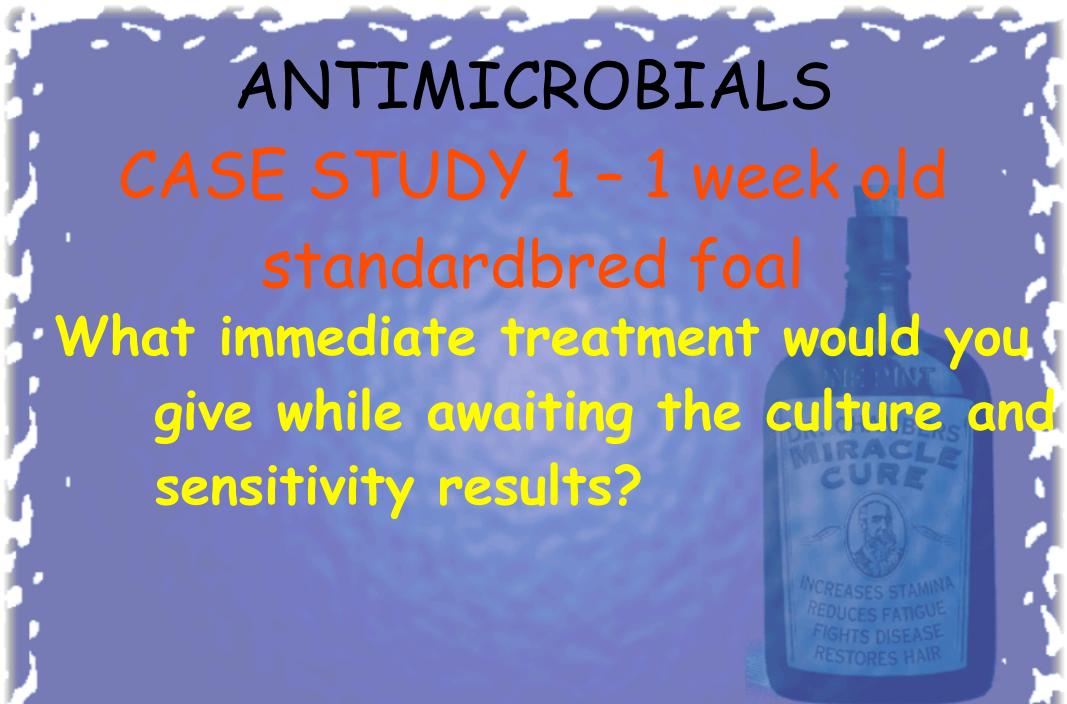
What samples would you take?





Diagnostic Workup

- Radiographs of the left hock do not indicate osteomyelitis.
- · Ultrasound scan of the umbilicus indicates fluid accumulation in an umbilical
 - remnant, suggestive of an
 - abscess







give while awaiting the culture and

sensitivity results?



CASE STUDY - 1 week old standardbred foal Results:

Joint fluid - E. coli (1) Blood culture - E coli (2) Bacillus spp (3) Umbilical fluid - E coli (4) Antibiotic MIC ug/mL1,2,4 **Ampicillin** Penicillin >64 0.5 amoxycillin 0.4 co-trimazine gentamicin (& amikacin) 0.25 0.1 0.032 erythromycin >64 cephalothin oxytetracycline enrofloxacin 0.016

ANTIMICROBIALS CASE STUDY 1 - 1 week old standardbred foal What antibiotic treatment would you J choose based on the sensitivities? What practical considerations should be taken into account? How long will the foal need to be __treated?

ANTIMICROBIALS

CASE STUDY 2- Scottish

Terrier named Snapper

·10 year old entire male dog History:

Treated by Ref vet "on and off" for 8 mos for a recurrent urinary cystitis

History of dysuria and proteinuria

Amoxycillin, co-trimazine and enrofloxacin used at 6-7 day courses without complete success.









CASE STUDY - Snapper

*Results:

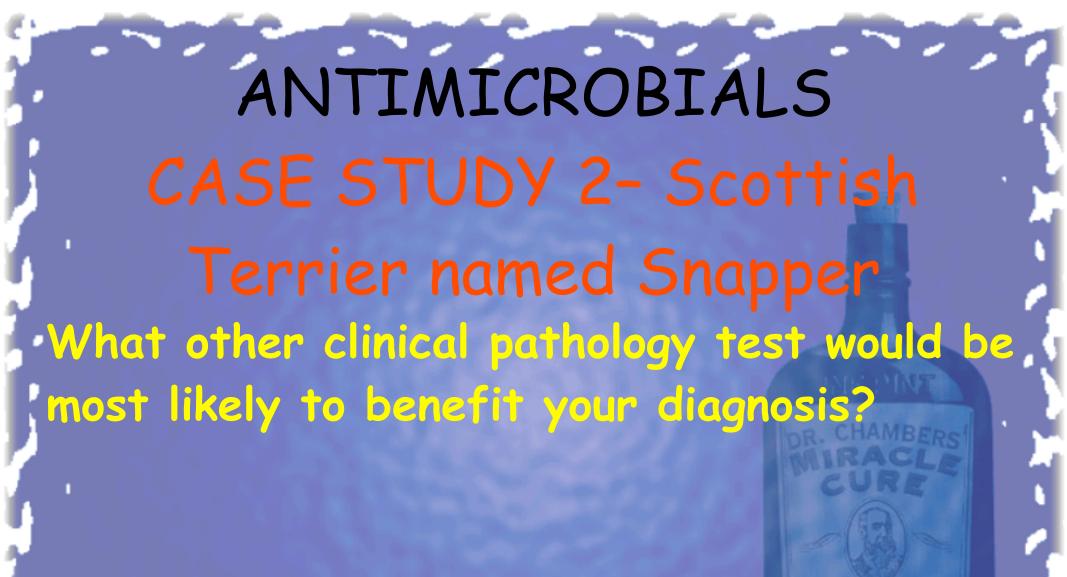
Urine culture - E. coli (1)

Urine culture - Proteus (2)

		mL1

norfloxacin

amoxycillin	16	>32
carbenicillin	>32	>32
cephalothin	16	1
cephadroxil	0.5	0.5
erythromycin	1	16
gentamicin	2	>32
amikacin	1	2
co-trimoxazole	0.5	0.5
tetracycline	2	4



CASE STUDY - Snapper

0.08

*Results:

Urine culture - E. coli (1)

Urine culture - Proteus (2)

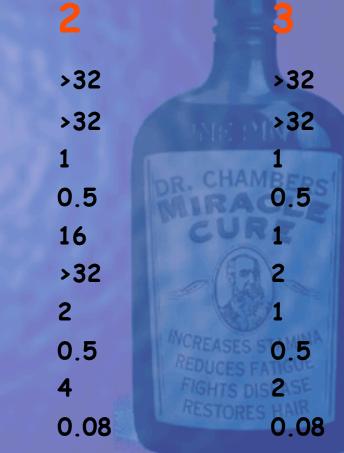
Antibiotic MIC ug/mL 1

amoxycillin

norfloxacin

unioxycmm	-0	
carbenicillin	>32	
cephalothin	16	
cephadroxil	0.5	
erythromycin	1	
gentamicin	2	
amikacin	1	
co-trimoxazole	0.5	
tetracycline	2	

Ejaculate - E. coli (3)



ANTIMICROBIALS CASE STUDY 2- Scottish Terrier named Snapper

What are the limitations of in vitro antibiotic sensitivity testing?

Misleading due to:



ANTIMICROBIALS

CASE STUDY 2- Scottish Terrier named Snapper

Choose a treatment plan for Snapper

Be able to justify your plan.

ANTIMICROBIALS CASE STUDY 2- Scottish Terrier named Snapper

Antibiotic sensitivity for E. coli:

cephalothin sensitive
cephadroxil sensitive
gentamicin sensitive
amikacin sensitive
co-trimoxazole sensitive
norfloxacin sensitive

