



Small Animal
MEDICINE SOCIETY
Solving diagnostic and therapeutic challenges together

STOP on Sunday (SOS) Urinary Tract Infection Trial

URINARY TRACT INFECTIONS



Antibacterials are not indicated for:

- Feline idiopathic cystitis (FIC)
- Feline struvite urolithiasis and canine non-struvite urolithiasis
- Urinary incontinence
- Subclinical bacteriuria (canine or feline)
- Juvenile canine vaginitis

Uncomplicated, symptomatic, canine urinary tract infection (cystitis):

- Amoxicillin (+ clavulanate)
- ...phonamide



Treat for 7–10 days

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International Society for Companion Animal Infectious Diseases (ISCAID) guidelines for the diagnosis and management of bacterial urinary tract infections in dogs and cats



J. Scott Weese^{a,*}, Joseph Blondeau^{b,c}, Dawn Boothe^d, Luca G. Guardabassi^{e,f}, Nigel Gumley^g, Mark Papich^h, Lisbeth Rem Jessenⁱ, Michael Lappin^j, Shelley Rankin^k, Jodi L. Westropp^l, Jane Sykes^l

Current recommendations

URINARY TRACT INFECTIONS



3) The recommended duration of therapy is 3–5 days. The short end of that dosing period may be optimal, but veterinary research to support this is currently limited.

Uncomplicated, symptomatic, canine urinary tract infection (cystitis):

- Amoxicillin (\pm clavulanate)
- Trimethoprim/sulphonamide

Treat for 7–10 days



International Society for Companion Animal Infectious Diseases (ISCAID) guidelines for the diagnosis and management of bacterial urinary tract infections in dogs and cats

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Current recommendations

Stewardship: Shorter = Better

Diagnosis	Short (d)	Long (d)	Result	#RCTs
CAP	3-5	5-14	Equal	10
VAP	8	15	Equal	2
Pyelo	5 or 7	10 or 14	Equal	7
Intra-abd	4	10	Equal	2
GNB Bacteremia	7	14	Equal	2*
AECB & Acute Bac Sinusitis	≤5	≥7	Equal	>25
Cellulitis	5-6	10	Equal	4**
Chronic Osteomyelitis	42	84	Equal	2
Septic Arthritis	14	28	Equal	1
Ortho Implant w/removal	28	42	Equal	1
Neutropenic Fever	AFx72 h	+ANC>500	Equal	1
<i>P. vivax</i> Malaria	7	14	Equal	1

*GNB bacteremia also in UTI/cIAI RCTs; **3 cellulitis RCTs equal, 1 (low dose oral flucox) ↑relapses; refs at <https://www.bradspellberg.com/shorter-is-better>

Shorter is
better

SOS UTI

Female dogs

6m to 10y of age

LUT signs (pollakiuria, dysuria, haematuria)

Clinician intent to use abs

Urinalysis +/- culture encouraged but **not** essential




Data entry



Clinical Data Management System (CDMS)

Castor is a cloud-based clinical data management system, enabling researchers to easily capture and integrate data from clinicians, patients, devices, wearables, and EHR systems.

Record: 110002

Progress:  85%

Inclusion

● Completed

Demographics

● Completed

Clinical signs

● Completed

Previous history

● Completed

Urinalysis

● Completed

Abdominal ultrasound

● Completed

Abdominal radiography

● Completed

Baseline 2. Demographics

● 2.1 Is the dog neutered?

Yes
 No



● 2.2 What is the breed of the dog?

Boxer



● 2.3 How much does the dog weigh?



● 2.4 On a 9 point scale what is the dog's body condition score?



● 2.5 What is the patient's unique identifier?



Bichon Frise

Black Russian Terrier

Bloodhound

Border Collie

Border Terrier

Borzoi

Boston Terrier

Bouvier de Flandres

Boxer



Previous

Next

Objectives

To compare disease-related outcome measures in dogs with presumed urinary tract infection treated with different duration (3, 4, 5, 6 or 7 day) regimens of amoxicillin/clavulanate

To compare recurrence rates within the 3 weeks after completion of different duration (3, 4, 5, 6 or 7 day) regimens of amoxicillin/clavulanate

Procedure	Day of presentation	Sunday after presentation	Monday after presentation	7 days after completion antibiotics	21 days after completion antibiotics
Physical examination	X				
Antibiotic treatment	X				
Stop antibiotic treatment		X			
Telephone/in person follow up			X		X
Automatic owner survey				X	X

Trial procedures

Day/time of presentation	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Total doses
Mon. AM	*	*	*	*	*	*	*	14
Mon. PM	*	*	*	*	*	*	*	13
Tues. AM		*	*	*	*	*	*	12
Tues. PM		*	*	*	*	*	*	11
Wed. AM			*	*	*	*	*	10
Wed. PM			*	*	*	*	*	9
Thur. AM				*	*	*	*	8
Thur. PM				*	*	*	*	7
Fri. AM					*	*	*	6
Fri. PM					*	*	*	5

Treatment schedule

Please get involved

Ethical approval



ATC



Sample size calculation: target 940 cases

Please signal your interest:

- Enrol cases yourself
- Act as a regional hub and support group of vets in your area
- Email: fergus.allerton@willows.uk.net

Opportunities for authorship or just to participate in clinical research and support antibiotic stewardship



Stop Antibiotic Resistance.

Thank you
