

rescribe only when necessary

- Consider non-bacterial disease (e.g. viral infection, nutritional imbalance, metabolic disorders)
- Some bacterial diseases will self-resolve without antibiotics
- Offer a non-prescription form (see box bottom right) Perioperative antibiotics are **not** a substitute for surgical asepsis

eplace with non-antibiotic treatments

- Lavage and debridement of infected material, fluid therapy, dietary management, cough suppressants and measures to address underlying conditions may negate the need for antibiotics
- Use topical preparations (ideally antiseptics) where possible to reduce selection pressure on intestinal flora (the microbiome)

ptimise dosage protocols

- Use the shortest effective course and avoid underdosing
- Treat until clinical resolution

reat effectively

- Consider which bacteria are likely to be involved Consider drug penetration of the target site (e.g. for
- prostatitis, osteomyelitis) Consider pharmacokinetics and drug interactions with concurrent medication
- Provide instructions, including demonstrations, on how to administer prescribed antibiotics

mploy narrow spectrum

- Use narrow-spectrum, rather than broad-spectrum, antibiotics to minimize resistance
- Avoid antibiotic combination therapy
- Use culture results to support de-escalation (switch to a narrower spectrum antibiotic)

onduct cytology and culture

- Use cytology to demonstrate bacterial involvement and an inflammatory response consistent with
- infection (e.g. intracellular bacteria) Collect a sample for culture **before** starting antibiotic therapy wherever possible
- Culture is essential when using prolonged (>1 week) treatment courses, where there are risk factors for resistance (e.g. healthcare associated infections, antibiotic treatment in the prior 60 days or multiple prior courses/repeated antibiotic use) and in lifethreatening situations

ailor your practice policy

- Discuss your practice's first-line antibiotic choice for each condition with your colleagues, complete the tick boxes in this poster and display it so your protocols are clear, including when the approach is to not prescribe an antibiotic
- Evaluate practice biosecurity and hand hygiene protocols
- Practice preventative medicine (vaccination, parasite prevention)

M onitor

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- Monitor for preventable infections (e.g. surgical site) infections) and alter practice protocols if needed Audit your own antibiotic use, particularly of EMA
- **Restrict** category antibiotics (fluoroquinolones/3rd generation cephalosporins), e.g. using RCVS Knowledge Audit tool

ducate others

Promote awareness of AMR among staff and clients (use tools such as the owner education animation) Encourage return of leftover antibiotics for safe disposal

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st follow all appropriate national legislation and regulations (for example, in the United Kingdom, the prescribing cascade

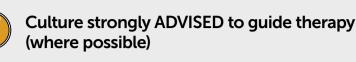
n time to time in force. Other than adding practice policy, the poster may not be altered in any way or used for any other



Antibiotic use in our practice

Select which antibiotics your practice uses in the boxes below

Culture ESSENTIAL to ensure effective therapy



Cytology advised to guide therapy



Scan the QR codes to access extra information. Alternatively visit: bsavalibrary.com/protectme

GASTRC	INTESTINAL INFECTIONS
Antibiotics	are not indicated for:
 Acute ve Acute de 	omiting arrhoea (including acute haemorrhagic (AHDS) cases) unless sepsi
 Acute d Pancrea 	
	Helicobacter infections obacter, Salmonella, Clostridium perfringens or C. difficile infection
	diarrhoea
	hoea with signs of sepsis:
	reatening infections' ONLY if neutrophil count <1x10º/l
	lin or amoxicillin or cefalexin
Amoxic	illin/clavulanate
Clinical Gia	ardia infection:
	Idazole for 5 days
SNLY use r strategies i	netronidazole if fenbendazole AND environmental management neffective
Chronic di	arrhoea/chronic enteropathy ('inflammatory bowel disease'):
	stics and treatments including <i>Giardia</i> treatment, dietary ement, measures to address dysbiosis (e.g. prebiotics, probiotics
or faec	al matter transplantation) and/or a prednisolone trial should be
perforr	ned BEFORE an antibiotic trial e of antibiotics for putative immunomodulatory or anti-
	e of antibiotics for putative immunomodulatory or anti- natory effects is discouraged
Cholangiti	s/cholangiohepatitis (consult QR code):
	illin/clavulanate
Cefalex	in v to first-line therapy
	loxacin OR enrofloxacin (dogs only)
	veeks then reassess. Monitor liver enzyme activities/bilirubin
URINAR	Y TRACT INFECTIONS
Antibiotics	are not indicated for:
	iopathic cystitis
	rolithiasis and canine non-struvite urolithiasis incontinence
Subclini	cal bacteriuria (canine or feline) including animals with
	renocorticism, diabetes mellitus or spinal cord injury uvenile vaginitis
Sporadic c	ystitis (bacterial urinary tract infection):
Amoxid	illin (<u>+</u> clavulanate)
	noprim/sulphonamide
Treat for 3-	5 days
Recurrent	
	n, recurrent and persistent urinary tract infections:
	noprim/sulphonamide
f recurrent	/persistent infection, modify selection based on susceptibility
esting f recurrend	e, pending susceptibility testing use the SAME antibiotic for 3–5
days if prev	iously successful
Review pre Treat for 7-	disposing factors (e.g. urolithiasis, anatomical abnormalities) 10 days
	(entire males):
_	noprim/sulphonamide
	quinolone (enrofloxacin 10 mg/kg IV q24h (dogs only) OR loxacin 5 mg/kg)
	4 weeks AND perform medical/surgical castration
Urolithiasi	s (≠ crystalluria):
	vite urolithiasis
Dietary mo	illin (\pm clavulanate) until resolution of urolithiasis dification and urine acidification useful for dissolution
	irgical removal
	onephritis (consult QR code):
	noprim/sulphonamide
	' if signs of sepsis
Treat for 10	
ORAL IN	IFECTIONS 回版回
	12% chlorhexidine mouthwash or gels/pastes
	are not indicated for:
	chronic ulcerative stomatitis
CanineGingivit	chronic ulcerative stomatitis s/periodontitis aronic gingivostomatitis

- angivius/penodonuus Feline chronic gingivostomatitis
- Fractured teeth ■ Tooth root abscess (unless facial cellutitis is evident)
- Dental procedures including tooth extractions
- Osteomyelitis (confirmed via histopathology):
- Amoxicillin/clavulanate for 4–6 weeks or as indicated by fresh tissue culture
- Oral swabs usually grow oral commensals: culture fresh tissue Facial cellulitis (for emergency pain relief rather than definitive treatment): Amoxicillin/clavulanate

Fusidic acid Chlortetracycline Chloramphenicol Treat for 5–7 days Feline-specific disease: Chlamydophila felis

Conjunctivitis:

and kittens) Treat for 21–28 days Mycoplasma felis Topical chlortetracycline Systemic doxycycline

Treat for 21–28 days

Topical chloramphenicol

corneal ulcer, keratomalacia):

If corneal perforation

Amoxicillin/clavulanate

Cefalexin and metronidazole Cefalexin and clindamycin

susceptibility testing

 Neutropenia (see below) Bacteraemia/sepsis:

10 mg/kg IV q12h

Septic peritonitis:

f amoxicillin/clavulanate unavailable

f colonic perforation

Neutropenia: No antibiotic required

Cefalexin PO

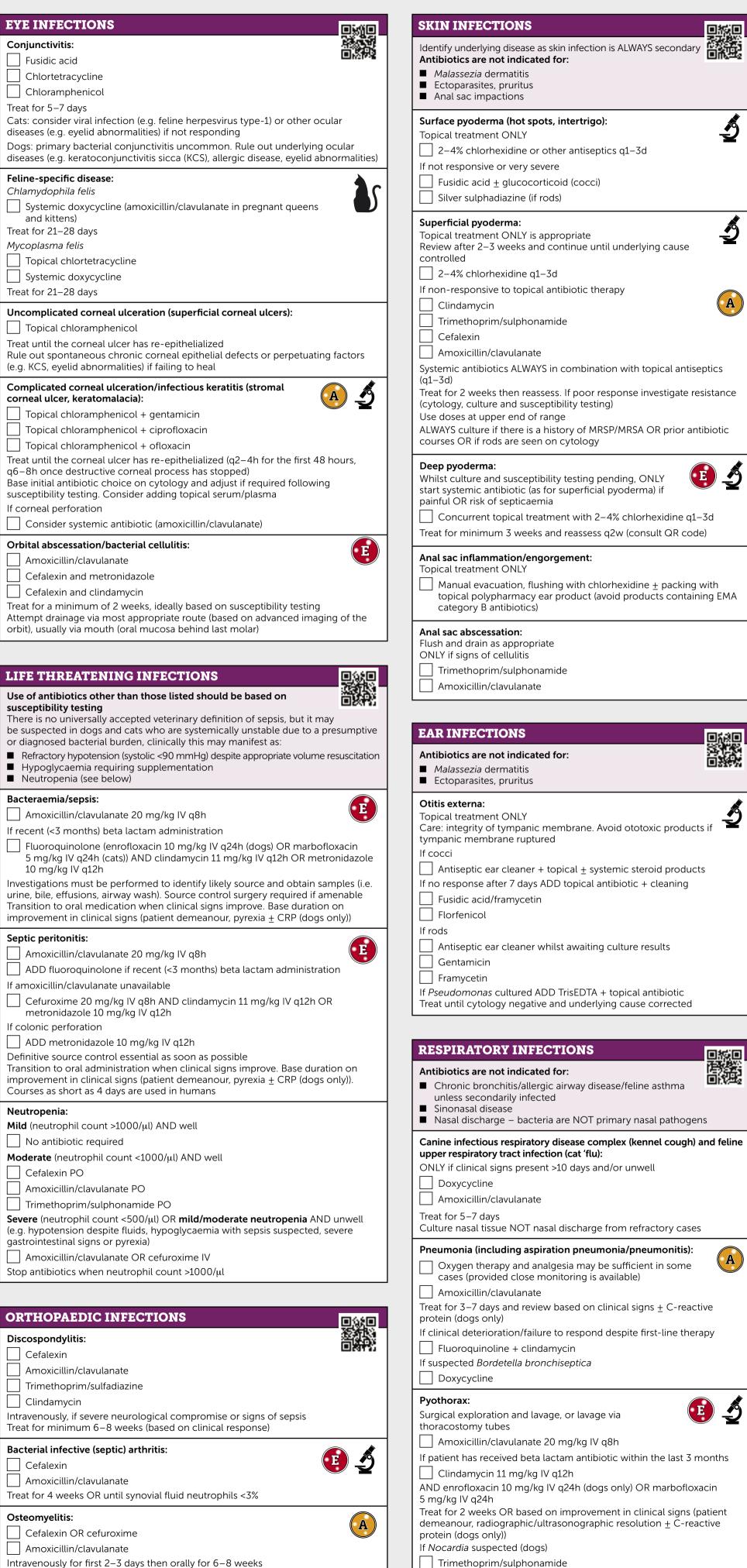
Amoxicillin/clavulanate PO Trimethoprim/sulphonamide PO

- gastrointestinal signs or pyrexia)

- **ORTHOPAEDIC INFECTIONS** Discospondylitis Cefalexin Amoxicillin/clavulanate Trimethoprim/sulfadiazine | Clindamvcin

- Bacterial infective (septic) arthritis:
- Cefalexin Amoxicillin/clavulanate

Osteomyelitis: Cefalexin OR cefuroxime Amoxicillin/clavulanate



	 Prophylactic antibiotics are not indicated for: Clean surgical procedures including many orthopaedic
	 procedures Dental procedures including tooth extractions
4	 Postoperative use for ANY procedure unless treating kr Prophylactic (perioperative) antibiotics are appropriate:
	 For prolonged clean surgery (anticipated >90 minutes) For surgery involving an implant (e.g. pin, screw, plate of the surgery involving an implant (e.g. pin, screw)).
	For surgery involving entry into a hollow viscus (e.g. ga tract, urinary tract) or where a joint capsule is penetrate
	 For debilitated or immunosuppressed patients (ASA scolution) Cefuroxime 20 mg/kg IV
	Cefazolin 22 mg/kg IV
	Amoxicillin/clavulanate 20 mg/kg IV Administer 30–60 minutes before the first incision, then e
	(amoxicillin/clavulanate) or 120 (cefuroxime, cefazolin) mir end of surgery
	Where anaerobic involvement is highly likely (e.g. colonic ADD metronidazole 10 mg/kg IV
	Do not continue antibiotics beyond the day of surgery, un therapeutic indication
	Therapeutic antibiotics are indicated:
	To treat a KNOWN bacterial infection (e.g. septic peritoniti there is pre-existing remote infection
	 Where there is an obvious major break in asepsis causing s contamination of the surgical site For 2–3 days postoperatively for open fractures
	Until source control has been achieved AND sufficient clir improvement documented for dirty procedures
	MISCELLANEOUS INFECTIONS
	Surgically managed pyometra:
	No antibiotics
	If unwell, consider perioperative Amoxicillin (± clavulanate)
	Cefalexin + enrofloxacin
	Medically managed pyometra:
	Mastitis:
	Cefalexin Amoxicillin/clavulanate
	Trimethoprim/sulphonamide
	Treat for 2–3 weeks or until offspring weaned (early weani <i>Mycoplasma haemofelis</i> (feline infectious anaemia):
J	Doxycycline
	Treat for 2–4 weeks Suspected leptospirosis:
	$ Amoxicillin (\pm clavulanate) $
	Doxycycline (may achieve improved renal clearance) Treat for 2 weeks
	Hepatic encephalopathy:
	Diet and lactulose should be first line therapies ONLY if clinical signs persistent despite dose escalation
	Metronidazole (decreased dose)
	Ampicillin
	Use ONLY until clinical signs are controlled
	WOUNDS AND SURGICAL SITE INFECTIO
	Antibiotics are not indicated for:
	 Cat bite abscess (unless surrounding cellulitis or pyrexis) Cutaneous surgical site dehiscence without gross evide
J	 or surgical site infection (SSI) Acute superficial traumatic wounds Snake bites
	Bites and traumatic wounds:
	Decontaminate and debride (lavage \pm surgical debrideme of dressings)
	If systemically well and not pyrexic Wound lavage with isotonic solution (e.g. saline)
	If wound located over abdomen or thorax
	Further investigation (imaging) ± surgical exploration in If systemically unwell OR pyrexic OR suspicion of cavity per
	Cefuroxime <u>+</u> cefalexin Amoxicillin/clavulanate
	Acute bite wound prophylaxis
	Thorough flushing with saline + open wound manage Systemic antibiotics not required if affected region is s
	localized Amoxicillin/clavulanate (for 1–3 days or until tissues de
	bite at critical site
	Superficial SSI: Topical treatment ONLY
	Frequent saline lavage
	Deep SSI: If systemically unwell OR pyrexic OR local cellulitis/purule
	discharge from deep incision Cefuroxime OR cefalexin
	Amoxicillin/clavulanate
	Consider ADDING fluoroquinolone
	If there is a history of MRSP/MRSA

SURGICAL USE

adapting treatment reat for 1–2 weeks guided by clinical progression

Organ space or implant-associated SSI: As for deep SSI whilst culture pending, systemic antibiotic therapy

based on cytology with duration of therapy guided by clinical progression following source control Source control (e.g. removal of infected implant material) critical to successful treatment



The antibiotic guardian(s) of this practice is/are:



