## GI Antiemetic Drugs Vet 405

Drug	Receptor / MOA	Indication	Species	Side effects	Route
Maropitant	Neurokinin 1 (NK-1) receptor antagonist in GIT and vomiting	Broad spectrum antiemetic	Canine and Feline	Decreased appetite, diarrhea	Dogs: PO
	center CTZ	Peripheral and centrally triggered emesis	Extra label in equine and porcine	Injectable sting	SQ IV
	Prevents Substance P from binding	Motion sickness (8mg/kg instead of 2 mg/kg)		Bone marrow suppression in	
	NK-1	Pancreatitis and GI disease		young animals!	Cats:
		Drug induced		>8 weeks puppies	SQ
		Chemotherapy induced		>16 weeks kittens	IV
		*visceral analgesia			
Ondansetron	Serotonergic antagonist (5-HT3) receptor	Fairly broad spectrum	Extra-label use in canines and felines	Tachycardia, bradycardia	PO IV
		Peripheral triggered emesis similar to Maropitant but		RP and QT prolongation on	
	Centrally acting: inhibit serotonin receptors in CTZ	weaker centrally		ECG in humans	
		Not effective in motion sickness or vestibular disease		Disrupt GI motility	
				-Constipation or diarrhea	
		Chemotherapy			
		Radiation			
		Parvo			
		Adjunctive for pancreatitis and GI-irritation origin emesis			
Metoclopramide	D2-dopamine receptor antagonist	Close to broad spectrum	More effective in dogs as	CNS excitement	IV
Wietoelopiumide	D2 dopamme receptor amagomst	Close to broad spectrum	an antiemetic *cats don't	(extrapyramidal signs)	PO
	Secondary: 5-HT3 antagonist	Stronger peripherally triggered emesis than centrally	have as many dopamine	(	SQ
	Tertiary: H1 antagonist	triggered emesis	receptors	Caution in heart failure	
				(increases aldosterone > edema)	
	*prokinetic effect	Weak for motion sickness	Horses and livestock:		
	(5-HT3 agonist)		prokinetic and anti-	Do not use with animals with	
		Chemotherapy	nausea	GI obstructions	
		Drug, toxin, inflammation			
		Viral enteritis			
Phenothiazines	D2 receptor antagonist	Delayed gastric emptying  Broad spectrum	Feline	Hypotension (alpha-1	IV
(acepromazine,	152 receptor antagonist	Dioad spectrum	Canine	adrenergic receptor blockage)	PO
chlorpromazine,	Secondary: antihistamine activity	Peripherally triggered emesis (stronger)	Equine	very limited use for this reason -	
prochlorperazine,	Secondary 5-HT3 activity	1 5 55	1	> it dehydrates the patients	
perphenazine,	Tertiary: Anticholinergic activity	Centrally triggered emesis			
mepazine,				Sedation	

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prochlorperazine,		Weak for motion sickness			
triflupromazine)					
		*Primary use is for motion sickness in cats			
Antihistamines	Acts on vestibular apparatus (less so	Narrow spectrum	Primarily used in dogs	Mild sedation	PO
(diphenhydramine,	on the emetic center)		but maropitant may be		IV
Dimenhydrinate,		Peripherally triggered emesis: Weak to none	more beneficial	Paradoxical excitement	SQ
Cyclizine,	Anticholinergic and Antihistamine				IM
Meclizine)	-	Centrally triggered emesis: vestibular disease (inner ear only)			
		Motion sickness (strong)			
		*More effective in dogs than cats			