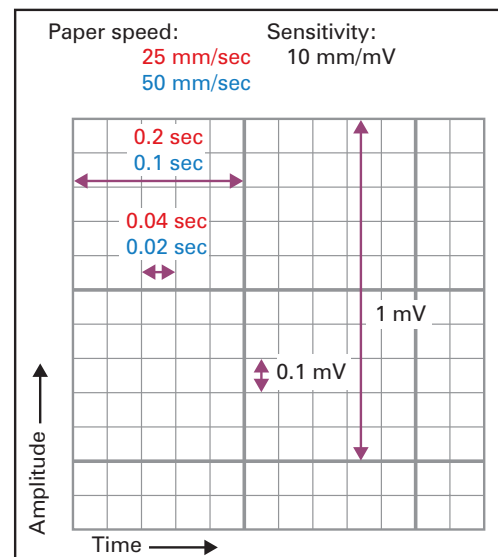


REFERENCE GUIDE

PAPER SPEED AND SENSITIVITY

Paper speed	Each 1 mm along x-axis
25 mm/sec	0.04 sec
50 mm/sec	0.02 sec

Sensitivity	Each 1 mm along y-axis
10 mm/mV	0.1 mV

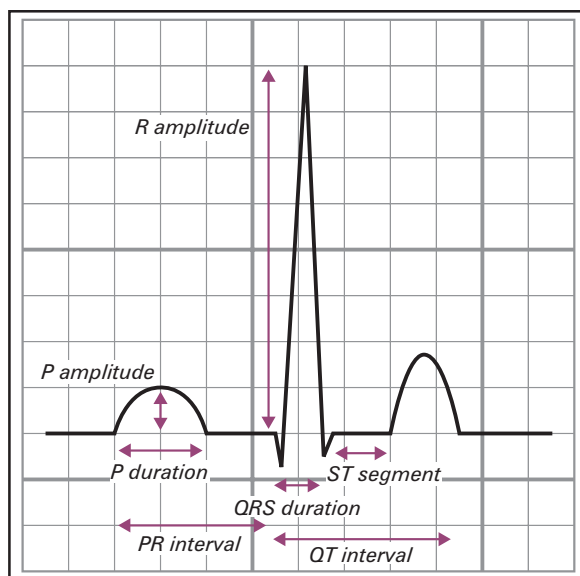


NORMAL ECG AMPLITUDES AND DURATIONS IN THE DOG AND CAT

	Dog	Cat
Heart rate	Puppy: 70–220 bpm Adult: 70–180 bpm	120–240 bpm
Rhythm	Sinus rhythm Sinus arrhythmia	Sinus rhythm
<i>P wave</i>		
Amplitude	Max: 0.4 mV	Max: 0.2 mV
Duration	Max: 0.04 s	Max: 0.04 s
PR interval	0.06–0.13 s	0.05–0.09 s
<i>QRS</i>		
Amplitude	Max: 2.5 mV, small breeds (3.0 mV, large breeds)	Max: 0.9 mV
Duration	0.06 s	0.04 s
ST segment	Not elevated or depressed >0.2 mV	No elevation or depression
T wave	Positive, negative, or biphasic, not >25% height of R wave	Isoelectric or usually positive <0.3 mV
Electrical axis	+40° to +100°	0 to +160°
<i>Source:</i> Adapted from Tilley LP and Smith WK. In: Tilley LP et al., eds. <i>Manual of Canine and Feline Cardiology</i> , 4th ed. Saunders Elsevier, St. Louis: 2008.		

Reference Guide

ECG WAVEFORM AMPLITUDES AND DURATIONS

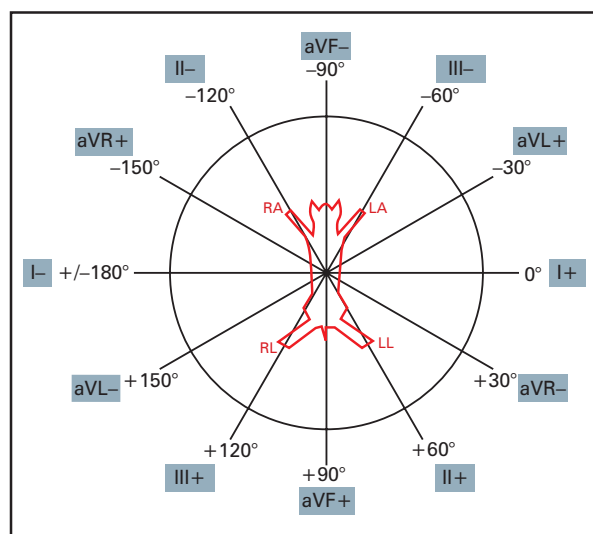


SIX-LEAD ECG AXIS SYSTEM

Mean electrical axis

Dog: +40° to +100°

Cat: 0° to +160°



SELECTED ANTIARRHYTHMIC DRUGS

Drug	Dose	Indication
Lidocaine	<i>Dog:</i> 2 mg/kg IV bolus up to 3 times 30–80 µg/kg/min CRI	Ventricular tachycardia
Procainamide	<i>Dog:</i> 5–15 mg/kg IV bolus, slowly over 2 minutes 25–50 µg/kg/min CRI <i>Cat:</i> 2–5 µg/kg/min	Ventricular or supraventricular tachycardia
Sotalol	<i>Dog:</i> 1.0–2.0 mg/kg PO BID <i>Cat:</i> 10 mg/cat PO BID	Ventricular or supraventricular tachycardia
Atenolol	<i>Dog:</i> 0.25–2.0 mg/kg PO S-BID <i>Cat:</i> 6.25–12.5 mg/cat PO S-BID	Ventricular or supraventricular tachycardia
Diltiazem XR	<i>Dog:</i> 3–4 mg/kg PO BID <i>Cat:</i> 30–60 mg/cat PO S-BID	Atrial fibrillation or supraventricular tachycardia
Diltiazem	<i>Dog:</i> 0.5–2.0 mg/kg PO TID 0.1–0.2 mg/kg IV 2–6 mcg/kg/min CRI <i>Cat:</i> 1.0–2.5 mg/kg PO TID	Atrial fibrillation or supraventricular tachycardia
Digoxin	<i>Dog:</i> 0.003–0.005 mg/kg PO BID <i>Cat:</i> 0.03125 mg/cat PO q48 hrs	Atrial fibrillation or supraventricular tachycardia
Atropine	<i>Dog/Cat:</i> 0.01–0.04 mg/kg IV/IM/SC	Bradycardia
Glycopyrrolate	<i>Dog/Cat:</i> 0.005–0.01 mg/kg IV/IM	Bradycardia
Propranolol	<i>Dog:</i> 0.25–0.5 mg/kg PO B-TID	Bradycardia
Theophylline	<i>Dog:</i> 10–20 mg/kg PO BID <i>Cat:</i> 15–25 mg/kg PO SID	Bradycardia
Terbutaline	<i>Dog:</i> 1.25–5.0 mg/dog PO B-TID	Bradycardia