



3. 25mm/s. 12y F/s German Shepherd 24h post-splenectomy.



Idioventricular rhythm: normal rate but all ventricular

V-tach: >180 beats/min, occasionally >160 beats/min

Idioventricular rhythm: <u>a perfusing rhythm</u> with a mono-focus (not multifocal in origin) -if patient is perfusing=monitor and evaluate why -is there a reversible cause that we can fix?

- -hypoxemia -splenectomy
- -poor perfusion -electrolyte abnormalities

Type 1 Mobitz: attributed to high vagal tone

-alpha 2 agonist administration

they wake up

-really fit animals/people (racing greyhounds) -under anesthesia: lots of drugs can induce this

This should go away when stimulated (sympathetic tone kicks in)

-as long as still perfusing, wait it out and it will go away when

-if patient is not perfusing=treat!

Why?

5. 12y male castrated Labrador mix with 3-day history of progressive lethargy, inappetence, vomiting. Examination identifies mild abdominal pain, moderate dehydration, melanic diarrhea.

pН	7.21	Na	158	Crea	10.3	
pCO ₂	31	к	44	Glucose	108	
HCO ₃	11.3	CI	114	Alb	2.7	
BE	-14.2	iCa	1.27	Phos	17.6	
sO ₂	68	Lactate	2.4			
pO ₂	34					

Describe the blood gas and electrolyte panel using the traditional approach to acid-base. Acidemia: Metabolic acidosis possible respiratory compensation

Drop in 8 points of HCO3 without a corresponding (8x0.7=5.6) 5.6 decrease in pCO2 -PCO2 should be 5.5 points lower so 34.5 +/-4 (pretty close, on the edge) -could be compensated

Anion Gap: (Na+K) - (HCO3+Cl)=(158+4.4)-(11.3+114)=162.4-125.3=**37.1** REALLY HIGH Differentials: acetominophen, D-lactate, renal acids, ketones

Describe the blood gas using the strong ion difference & SIG approach to acid-base

Strong Ion Difference (SID)=Na-Cl=158-114=44 What is normal= approximately 30 This value is high, which means that we have a strong ion acidosis

Strong Ion Gap (SIG)=

GOLD MARK

Glycols 5 Oxyprolene (acetominophen toxicity) L-Lactate D-Lactate

Methanol Aspirin: acute signs of toxicity=altered mentation with respiratory distress b/c trying to breath off all of the CO2 due to severe metabolic acidosis (7.7-7.8) Renal acids

Ketoacids