

Cardiology Lecture Notes

Cardiac Structure/Function

- Pattern of blood flow through the heart:

_____ → _____ → _____ → _____ → _____ → _____ → _____
 _____ → _____ → _____ → _____ → _____ → _____ → _____

- Inotropy:

- Cardiac Output = _____ x _____

- Diastole:

Cardiac Electrical Activity

- Cardiac electrical pathway:

_____ → _____ → _____ → _____ → _____

- Cardiac pacemaker = _____

- P wave = _____

- QRS Complex = _____

- We typically use _____ for ECG tracing

- Threshold potential is set by _____

- Phase 0 of the cardiac action potential (rapid depolarization) is characterized by an _____ of _____

- Characteristics of a sinus rhythm:

- _____
- _____
- _____
- _____

- Treatment for VTach = _____

- Treatment for AIVR = _____

- Treatment for VFib = _____



Cardiac Disease

- The most common cardiomyopathy of CATS = _____
- DCM often progresses to cause _____
- _____ can be a sign of CHF in cats
- MMVD often progresses to _____
- _____ is a result of HWD
- Two symptoms of left-sided heart failure:
 - _____
 - _____
- Heart disease leads to an increase in LA pressure and _____
- The system that is triggered by decreased renal perfusion is _____
 - This system also increases _____
- An LA:Ao ratio of _____ is consistent with chronic LA overload
- B-lines represent _____ lung
- Examples of Na channel blockers:
 - _____
 - _____
- The primary neurotransmitter of the SNS = _____
- An example of a common PDE III inhibitor = _____
- Remin release is stimulated by:
 - _____
 - _____
 - _____
- Mechanism of action of Loop diuretics = _____



Holiday Toxins Lecture Notes

- What does activated charcoal do?
 - _____
 - _____
 - _____
- What is the toxic substance in raw bread dough? _____
- In regards to alcohol toxicity, if severe metabolic acidosis is present, this treatment may be considered
 - _____
- What is the effect of THC on the nervous system?
 - _____
 - _____
 - _____
 - _____
- How is a patient treated for THC toxicity if they are not vomiting?
 - _____

Brewed Coffee	_____ mg caffeine per serving	_____ mg caffeine per 100g
Brewed Tea	_____ mg caffeine per serving	_____ mg caffeine per 100g
Reduced sugar cola	_____ mg caffeine per serving	_____ mg caffeine per 100g
Milk chocolate coated raisins	_____ mg caffeine per serving	_____ mg caffeine per 100g
Cacao beans	_____ mg/g theobromine	
Baking chocolate	_____ mg/g theobromine	
Dark chocolate	_____ mg/g theobromine	
Cocoa powder	_____ mg/g theobromine	

- The toxic substances in chocolate are
 - _____
 - _____
- Why are UCaths placed in chocolate toxicosis cases?
 - _____





- What is the toxic substance in grapes?
 - _____
- Are there contraindications to induced emesis for grape ingestion? _____
- Clinical symptoms of mistletoe/holly/poinsettia ingestion?
 - _____
 - _____
 - _____
- Symptoms of thiosulfate toxicity (garlic, onions)
 - _____
 - _____
 - _____
 - _____
 - _____
 - _____
 - _____
- To what family do onions belong to? _____
- Which toxin can cause rapid insulin release and liver failure in dogs?
 - _____
- Is emesis a treatment option for xylitol ingestion? _____
- What is the toxic compound found in avocados?
 - _____
- What toxin causes fatal kidney failure in cats?
 - _____
- Symptoms of Pine toxicity
 - _____
 - _____
 - _____
 - _____
 - _____
 - _____





Extra notes

