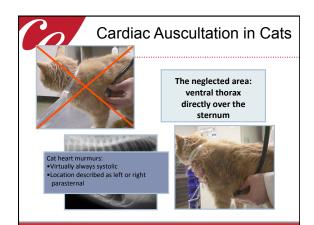


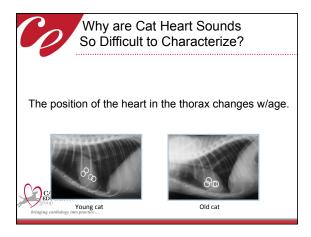




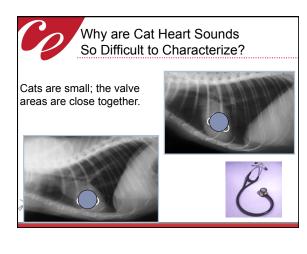
# Why are Cat Heart Sounds So Difficult to Characterize?

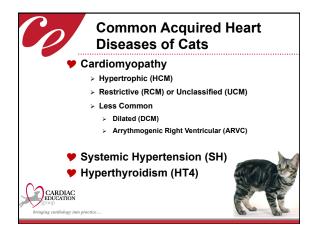
- A. Gallop heart sounds can be hard to detect.
- B. Murmurs in cats all sound the same.
- C. Cats are small; the valve areas are close together.
- D. The position of the heart in the thorax changes w/age.
- E. Most feline heart murmurs are dynamic (labile).
- F. Knowledge deficits about murmur location, prevalence.
- G. All of the Above.

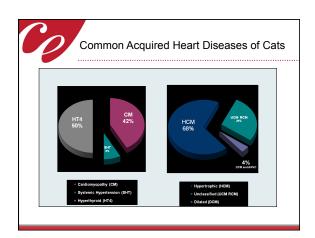


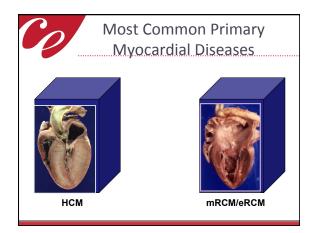


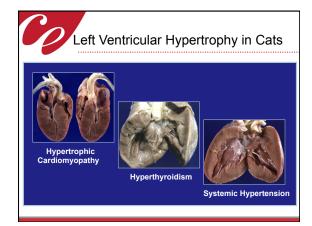


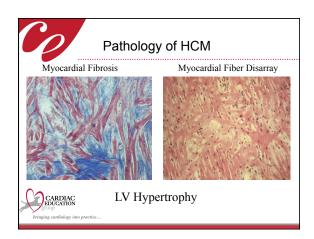




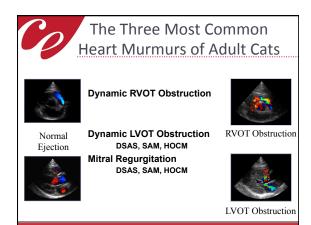


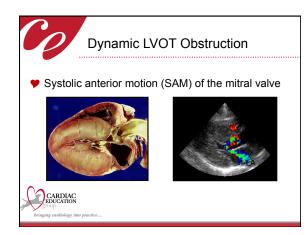






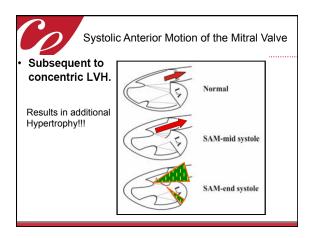




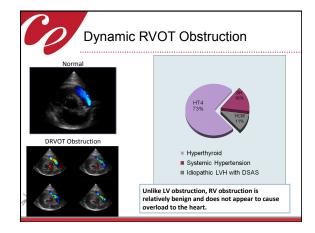


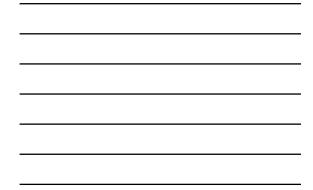
| Dynamic   | LVOT Obst   | ruction         |
|---|---|-----------------|
| Dynamic LVOT obstruction:   |   |                 |
| •Caused by systolic anterior motion (<br>•Creates a source of pressure overload       |   | /e              |
| Pressure overload → concentric hype<br>HCM heart!                                     | ertrophy in an already  | hypertrophied   |
|   |   | e de            |
|   | alter and a second s | al all          |
| $\stackrel{\text{early}}{\underset{\text{systole}}{\longrightarrow}} \longrightarrow$ | mid<br>systole  | late<br>systole |

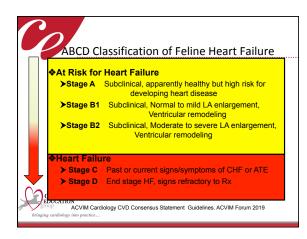




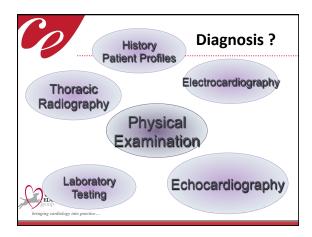










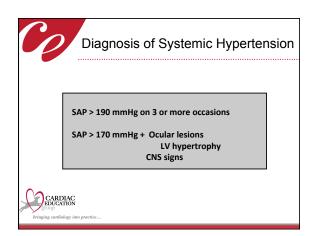


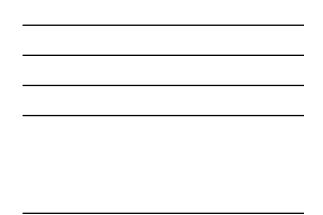


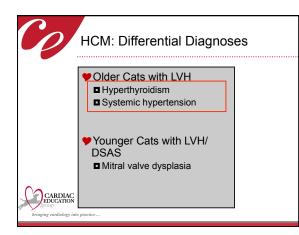
After Hearing a gallop or murmur, what is the next step in the cardiac evaluation?

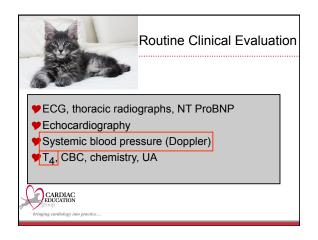
## A. ECG

- B. NT ProBNP
- C. Blood Pressure
- D. Serum Thyroid Levels
- E. Thoracic Radiographs
- F. Echocardiogram



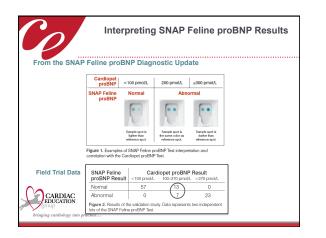




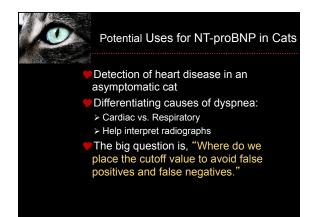


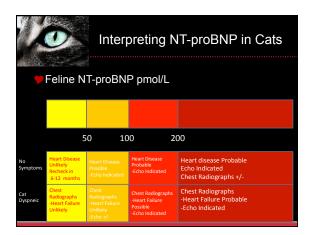




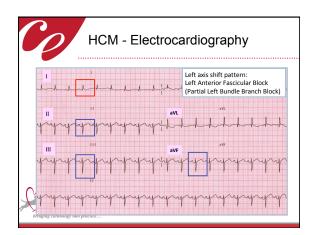




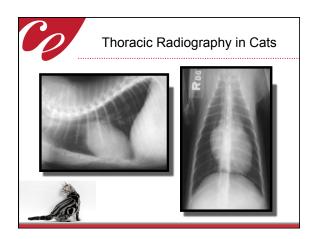




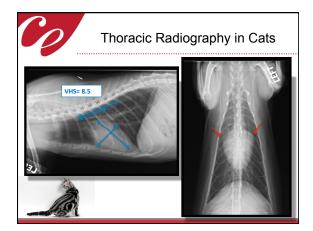
-



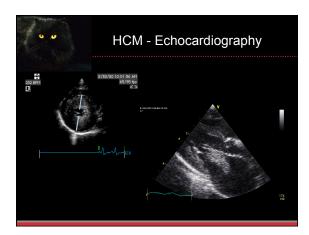




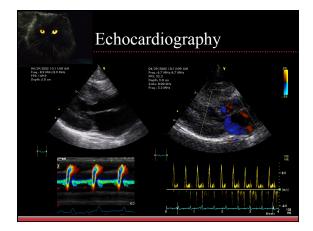


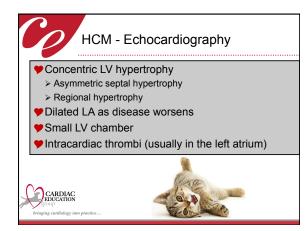


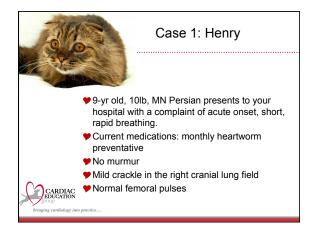


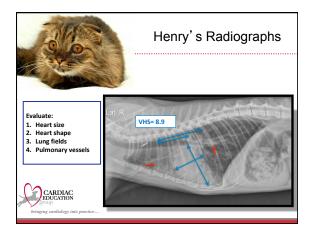


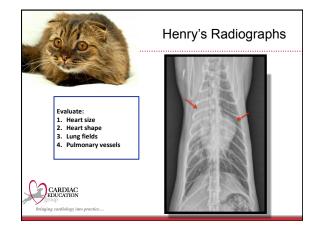












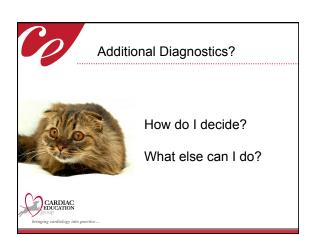


# Henry: Radiographs

#### Radiographic diagnosis:

- > Moderate enlargement of the left atrium suspected.
- > Distended and indistinct pulmonary veins/vasculature.
- $\succ$  There is an alveolar pattern in the right cranial lung field.
- $\succ$  Rule outs include pneumonia or congestive heart failure.

# CARDIAC



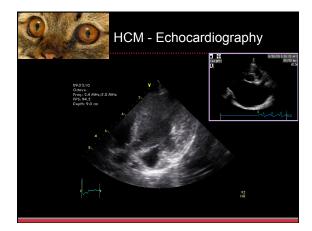
| 0               | Perform an NT-proBNP?                                  |   |  |   |
|-----------------|--|---|--|---|
| •               | ♥260 pmol/L (Positive on the SNAP)                     |   |  |   |
|                 |  |   |  |   |
|                 | 5  | 0 10  | 0 20   | 00  |
| No<br>Symptoms  | Heart Disease<br>Unlikely<br>Recheck in<br>6-12 months | Heart Disease<br>Possible<br>-Echo Indicated                    | Heart Disease<br>Probable<br>-Echo Indicated                       | Heart disease Probable<br>Echo Indicated<br>Chest Radiographs +/- |
| Cat<br>Dyspneic | Chest<br>Radiographs<br>-Heart Failure<br>Unlikely     | Chest<br>Radiographs<br>-Heart Failure<br>Unlikely<br>-Echo +/- | Chest Radiographs<br>-Heart Failure<br>Possible<br>-Echo Indicated | Chest Radiographs<br>-Heart Failure Probable<br>-Echo Indicated   |

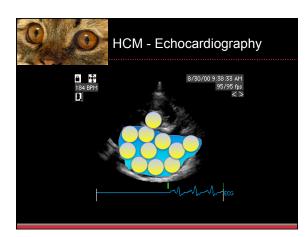
















# Henry's Diagnosis!

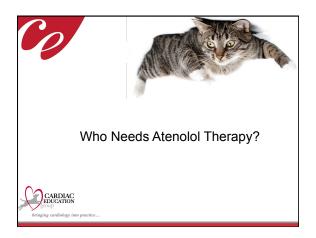
Hypertrophic Cardiomyopathy Congestive Heart Failure No Outflow Obstruction

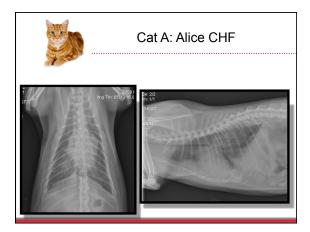
### **Recommended Medications:**

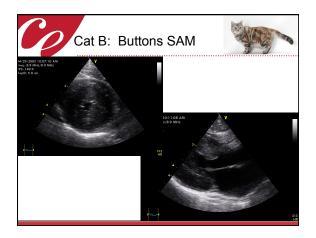
Lasix (~2mg/kg/day)

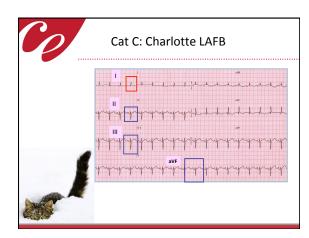
ACE Inhibitor (Benazepril 0.5mg/kg BID)

Secondary Treatments: Consider Aspirin or Plavix to prevent thrombis formation, For refractory pulmonary edema or pleural effusion: *S*pironolactone 2mg/kg q 24hrs or possibly Vetmedin (Pimobendan 0.25mg/kg BID)

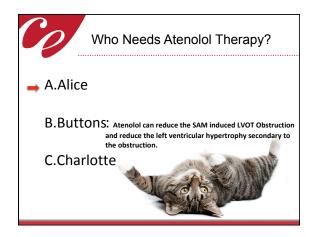












|                                | Questio | ons?      |
|--------------------------------|---------|-----------|
| 83,064,2833 66688.19 996<br>17 |         |           |
|                                |         |           |
| •   <br>                       |         |           |
| ,                              |         | 174<br>HR |
| CARDIAC                        |         |           |