

thrombi from forming. Recheck echocardiogram in 4 months to monitor the pulmonary hypertension.

**Don't forget to SAVE your work!**

## Case Log 18

<b>Initial treatment date</b> 1/4/2021	<b>Patient ID</b> 20045420	<b>Species</b> Canine	
<b>Breed</b> Cairn Terrier	<b>Sex</b> Male Neutered	<b>Age</b> 7.00	<b>Weight in kg</b> 7.6

### Diagnosis (or differential list)

Sick Sinus Syndrome

### Case presentation

Patient presented as a consultation for the internal medicine department due to collapsing episodes. Physical examination: auscultated grade II/VI left apical systolic murmur with occasional pauses and heart rate of 50 bpm. Echocardiogram interpretation: mildly enlarged left atrium on right parasternal four chamber long axis view; mild mitral valve insufficiency and mild tricuspid valve insufficiency on color flow Doppler. Atropine response test performed with atropine 0.04 mg/kg (0.3mg) IV given. Electrocardiogram performed prior to atropine injection interpretation: heart rate 48 bpm, notched P waves of both negative and positive amplitude. Electrocardiogram interpretation 15 minutes following atropine injection: heart rate 52 bpm, 2nd degree atrioventricular block, notched P waves with duration of 50 ms with intermittent negative and positive amplitude, atrial repolarization (Ta) wave noted, and a normal Mean Electrical Axis.

### Advanced skills the applicant performed

Acquire and print a 50 mm/sec ECG strip for measurement (34)  
Calculate Mean Electrical Axis on ECG (38)  
Calculate P wave amplitude and duration on ECG (41)  
Identify 2nd degree atrioventricular block on ECG (54)  
Identify left atrial enlargement on echocardiogram (77)

### Advanced skills the applicant assisted with

Echocardiogram

### Outcome

Recommendation for patient is a pacemaker implantation. Patient was also diagnosed through internal medicine with thrombocytopenia and splenomegaly. Patient discharged with the owner possibly electing home euthanasia in the future. Added theophylline 9.87 mg/kg (75mg) PO BID to help with positive chronotropic and inotropic effects.

Patient was home euthanized 10 days later.

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## Case Log 19

<b>Initial treatment date</b> 11/11/2020	<b>Patient ID</b> 20045028	<b>Species</b> Canine	
<b>Breed</b> French Bulldog	<b>Sex</b> Male	<b>Age</b> 9.00	<b>Weight in kg</b> 13.0