

## PATIENT DATA

<b>OWNER NAME</b>	F-----	<b>ANIMAL NAME</b>	C----
<b>BREED</b>	CKCS	<b>NEUTERED</b>	NO
<b>BIRTH DATE</b>		<b>AGE</b>	7 m
<b>GENDER</b>	F		
<b>IDENTIFICATION</b>		<b>EXAM DATE</b>	21 MAR 2018
<b>ACCESSION NUMBER</b>			
<b>OPERATOR</b>			
<b>EXAM DESCRIPTION</b>	CARDIAC		
<b>PERFORMING PHYSICIAN</b>	GEMMA O DONOGHUE	<b>REPORT DATE</b>	21 MAR 2018

## CARDIO CANINE

### B-Mode

#### Aorta/LA

Ao Diam	14.1	mm	LA Diam	14.5	mm
[14.4, 13.8]			[14.4, 14.6]		
LA/Ao	1.03				

### Doppler

#### Aorta

AV Vmax	-1.00	m/s	AV max PG	4.0	mmHg
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#### MV

MV E Vel	0.60	m/s	MV A Vel	0.52	m/s
MV E PG	1.4	mmHg	MV A PG	1.1	mmHg
MV E/A	1.16		IVRT	68	ms

#### TV

TV E Vel	0.54	m/s	TV A Vel	0.27	m/s
TV E PG	1.2	mmHg	TV A PG	0.3	mmHg
TV E/A	2.00				

#### Pulmonary A

PA Vmax	-4.65	m/s	PA max PG	86.6	mmHg
[-4.81, -4.49]					

#### AVA (VTI)

AV Vmax	-1.00	m/s			
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### M-Mode

#### MV

EPSS	1.3	mm			
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#### Left Ventricle

IVSd	6.7	mm	LVIDd	25.7	mm
LVPWd	5.7	mm	IVSs	9.3	mm
LVIDs	18.7	mm	LVPWs	9.9	mm
EF	55	%	%LV FS	27	%
% IVS	38	%	%PW	73	%
LV Mass	27	g			

## OBSERVATIONS

#### Cardio remarks

Mild-moderate right ventricular hypertrophy was identified, the right atrium was normal. The pulmonic valves were thickened, tethered and poorly mobile. The pulmonic annulus was not hypoplastic. A post stenotic dilation of the main pulmonary artery was present. The maximum velocity across the pulmonic valve was 4.81m/s which equates to a pressure gradient of 92.5mmHg. There was also moderate pulmonic insufficiency present. The left sided chambers were normal. The

mitral, tricuspid and aortic valves were normal.  
Sinus tachycardia present on ECG.

## Conclusions

Type A moderate to severe pulmonic stenosis.

Consultation for balloon valvuloplasty is recommended. If this is not financially viable then medical treatment with atenolol (0.5mg/kg bid) is recommended. Uncomplicated survival to adulthood is common in dogs with mild to moderate pulmonic stenosis. Dogs with moderate to severe pulmonic stenosis may have signs of right sided congestive heart failure, cardiac arrhythmias, syncope with exertion or sudden death. Balloon valvuloplasty is successful in alleviating clinical signs (exercise intolerance often not noticed by owner until improvement seen following treatment) and prolonging survival in dogs with severe pulmonic stenosis (reduces risk of sudden death by half).

## SIGNATURE

Gemma O'Donoghue PgC ESPVS Cert Cardiology.

## ATTACHED IMAGES





