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Clinical Sonography & Telecytology
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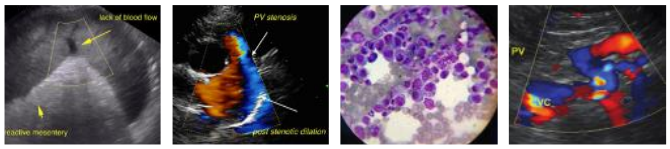

SonoPath.com
1-800-838-4268 info@sonopath.com

PATIENT

Roscoe VCHS

SPECIES

Canine

BREED

Terrier Cross

SEX

Male

AGE

5 Months

WEIGHT

25 Pounds

INTERPRETED BY

Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Sam Doverspike

HOSPITAL NAME

Franklin Animal Clinic

REFERRING VET

Sam Doverspike

INVOICE

22205

DATE

4/28/23

PRESENTING CLINICAL SIGNS

History: Shelter dog, Loud Heart murmur heard on exam.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.3	28-40	40-100	<0.6
PATIENT	5.5	--	2.0	1.9	42	72	0.2
CANINE CARDIAC PARAMETERS	**HR** (BPM)	**AV VMAX** (m/s)	**PV MAX** (m/s)	**BODY WEIGHT** (kg)	**LA** 2D short axis Base view (cm)	**LVIDd** Avg; 2D and m-mode short axis (cm)	**LVIDs** Avg; 2D and m-mode short axis (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
PATIENT	--	6.0	3.0	--	4.52	4.75	--

Cardiac Presentation

The cardiac presentation in this patient presented mild volume overload of the left atrium and left ventricle. Aortic outflow was severely affected in this patient (6.8 m/s), with secondary aortic insufficiency. Severe turbulence was noted. The aortic valve appeared to be thickened and domed/irregular with a fixed LVOT obstruction from a septal limbus, causing obstruction. The pulmonic valve was thickened and domed. Pulmonic velocity was mildly elevated. The deep pulmonary artery revealed a continuous flow, consistent with PDA with secondary pulmonic insufficiency. Mitral insufficiency was noted.

ULTRASONOGRAPHIC FINDINGS

- Multiple congenital defects
- Dysplastic aortic valve with subaortic stenosis pattern
- Dysplastic pulmonic valve with pulmonic insufficiency
- Continuous flow in the deep pulmonary artery consistent with PDA

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Referral for interventional cardiologist is warranted in this patient. I feel that the aortic outflow velocity is severely elevated, consistent with pulmonic stenosis and not compensatory owing to underlying PDA. Prognosis is poor. If the breeding line is able to be evaluated, then it should be. Siblings and parents should be evaluated for concurrent congenital defects.

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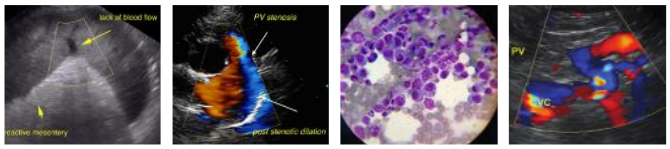

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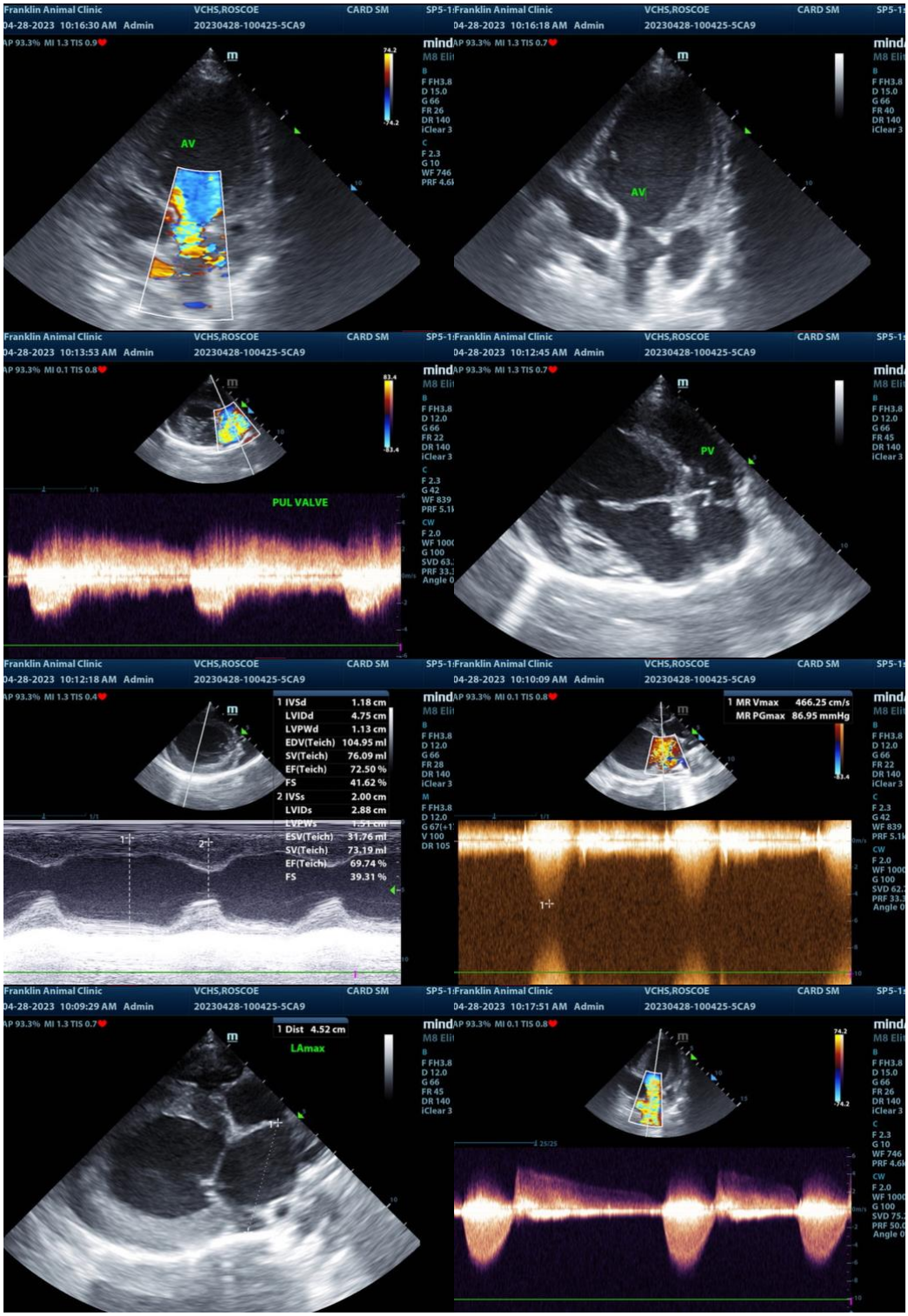

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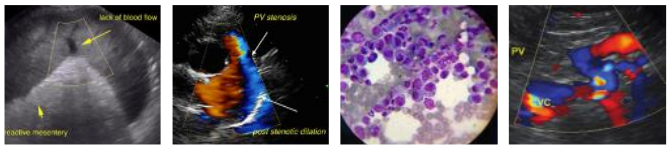

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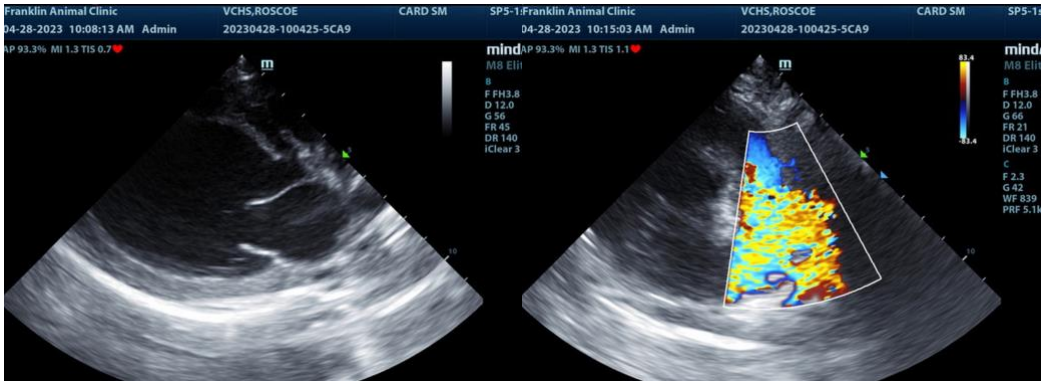

The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
info@SonoPath.com