

Small Animal Internal Medicine 2

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Chief Complaint

Samantha is a 7 year old female spayed Standardbred poodle with a chief complaint of dyspnea and coughing

Samantha





- All vaccinations are up to date
- Today Samantha developed dyspnea and started to cough
- She did not eat this morning
- Very lethargic
- Retching with blood colored fluid

Physical Examination

- Dull/ listless
- Temperature 40 degrees C
- Heart Rate 150 bpm
- Respiratory Rate 40 per minute
- Pale mucous membranes
- Cyanotic mucous membranes
- Difficult to hear lung sounds in the ventral thorax

Problem List

- Anorexia
- Dyspnea
- Tachycardia
- Retching with blood
- Difficult to hear lungs on the right thorax
- Coughing
- Pale and cyanotic mucous membranes

Rule Outs

- List all the Possible Diagnoses
- This list is your Rule Out list

Rule Outs

- Gastro/dilatation/volvulus GDV
- Diaphragmatic hernia
- Lung neoplasia
- Pneumonia
- Fungal or foreign body lung granuloma



- CBC
- Blood chemistry
- Complete urinalysis
- Thorasic and abdominal radiographs

Findings

- RBC 5.0 x 103 (5.5-11.0)
- WBC $19 \times 10_3 \text{ mm } 3 \text{ (7-17)}$
- Neutrophils 15 x 10₃ mm 3 (3.2-10.8)
- Lymphocytes 0.25 x 10₃ mm 3 (0.53-3.44)
- PCV 60 (37-55)
- BUN 50 mg/dl (16-36)
- SCr. -1.7 mg/dl (0.8-2.4)
- USG 1.037 (> 1.035)

Interpretation of laboratory findings

- List all the abnormal findings and discuss a possible cause for each of them.
- RBC 5.0 x 103 (5.5-11.0) insignificant
- WBC 19 x 103 mm 3 (7-17) infection/inflammation
- Neutrophils 15 x 103 mm 3 (3.2-10.8) stress leukon
- Lymphocytes 0.25 x 10₃ mm 3 (0.53-3.44) stress leukon
- PCV 60 (37-55) hemoconcentration dehydration
- BUN 50 mg/dl (16-36) pre-renal azotemia
- SCr. 1.7 mg/dl (0.8-2.4) normal
- USG 1.037 (> 1.035) normal kidney's are concentrating urine

Abdominal Radiograph (right lateral)



Thorax – left lateral



Thoracic radiograph V/D



List all the abnormal radiographic signs

- Abdominal radiographs normal not GDV
- There is a large air bronchogram in the right middle lung lobe seen overlying the area where the cardiac silhouette would be
- Lobar Sign: The presence of consolidation in the right middle lung lobe adjacent to the dorsally aerated lung
- Pleural effusion
- Lung leafing

Final Diagnosis

- Lung lobe torsion of the right middle lobe
- More common in large deep chested dogs
- Spontaneous syndrome in pugs < or 4 years old

Treatment Plan

- Thoracentesis to remove pleural fluid
- IV fluids
- Antibiotics
- Administer O2
- Surgery to remove the right middle lung lobe



• Fair to good with surgical treatment

The End







