



Endocrinology

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Chief Complaint

- “Lucy”
- 3 year old female Rottweiler
- Acute onset of bloody diarrhea
- Severe lethargy

Lucy



History

- Bloody Diarrhea started 2 days ago
- Vomiting 4 times /day for 2 days
- Complete Anorexia /Lethargy/Weight Loss
- Episodes of Lethargy past 2 months
- Trial Treatment /IV Fluids /Mild Response
- DA2PVP, Rabies and Bordetella up to date

Physical Examination

- Dull, Unresponsive, Lethargic
- Temperature 37.0 degrees C
- Heart Rate 60 bpm
- Polyuria/Polydipsea
- Pasty Bloody Feces around Anus
- Dehydrated 8 %
- Capillary Refill Time $>$ 3 seconds

Problem List ?

Problem List

- Severe lethargy
- Bloody Diarrhea
- Vomiting
- Dehydration
- Polyuria/Polydipsia
- Hypothermia
- Increased capillary refill time

Rule Outs

- List of all the possible diagnoses
- This is your Rule Out List

Rule Outs

- Canine Parvo Virus
- Salmonellosis
- Clostridium Infection
- Gastrointestinal Foreign Body
- Hypoadrenocorticism
- Renal Failure
- Pancreatitis

Plan

- Make a Plan – Diagnostic Tests
- List the Diagnostic Tests

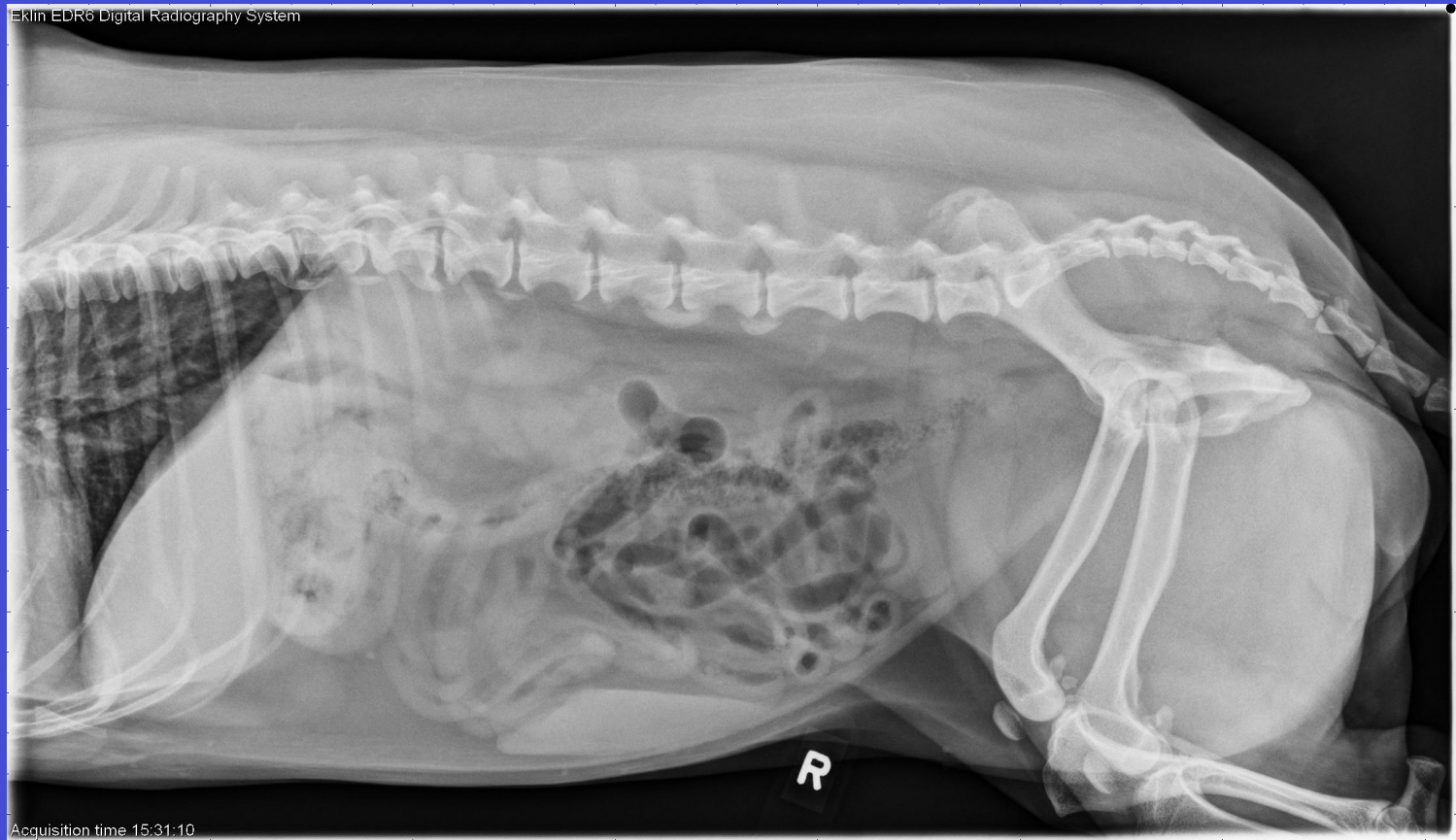
Plan

- Abdominal Radiographs
- CBC/Chemistry/Urinalysis

Radiographs

- Abdominal Radiographs
- Which Views do you wish to take?

Right Lateral Abdominal View



Dorsal Ventral Abdominal View



CBC and Blood Chemistry

- Lym 4.5 (.53-3.44)
- Eos 2.5 (0-1.82)
- BUN 50 mg/dl (10-26.0)
- Na 135 mmol/L (142-150)
- K 6.0 mmol/L (3.4-4.9)
- Cl 100 mmol/L (106-127)

Assessment of the Plan

- Assessing :
 - Clinical Signs
 - Radiographs
 - CBC and Blood Chemistry

What is the most likely Diagnosis?

Most Likely Diagnosis

- Hypoadrenocorticism (Addison's Disease)
- Reasons: low Na, high K, clinical signs of lethargy and bloody diarrhea
- What test would you use to confirm your Diagnosis?

Tests to Confirm Your Diagnosis

- ACTH Stimulation Test

Tests Used to Confirm Diagnosis

- ACTH Stimulation Test

| | | |
|--------------------|-------|---------|
| Pre Serum Cortisol | 20 IU | (25 IU) |
|--------------------|-------|---------|

| | | |
|---------------------|-------|-------------|
| Post Serum Cortisol | 20 IU | (40-200 IU) |
|---------------------|-------|-------------|

Interpretation of Tests

- ACTH stimulation test – in Hypoadrenocorticism you would expect no response to the ACTH stimulation test. Both the pre and post cortisol levels are the same.
- A normal response would be an increase in the post cortisol level with the ACTH stimulation test.

Diagnosis

- Hypoadrenocorticism (Addison's Disease)

What is your Treatment Plan?

- Treatment?

Treatment Plan

- Prednisone
- DOCP (Desoxycorticosterone Pivalate) also called Percortin V – one injection every 21 days
- Fludrocortisone acetate – daily dose

Prognosis

- Good with treatment

The End



























