



Ultrasound Cases - Pancreas

Wendy Blount, DVM

Kooper



10 yr CM Miniature Schnauzer

- CC:** anorexia, vomiting and weight loss
 - 6 weeks duration
 - No response to treatment with IV fluids, metoclopramide, antibiotics, mirtazapine
 - Another similar episode 3 months ago responded well to same treatment
- Exam:** BCS 4/9, temp 103.1°F, pain on palpation of the cranial abdomen, dehydrated 5%

Kooper



- CBC:** neutrophilia 17,300/uI
- profile:** albumin 2.1 g/dl, ALP 1105 U/L, ALT 984 U/L, bili 1.3 mg/dl, Ca^{++} 7.9 mg/dl, serum is lipemic 3+
- UA:** proteinuria 2+
- cPL:** abnormal
- Abdominal Ultrasound:**

Kooper



- CBC:

- profile

984 U/L

lipemic

- UA: p

- cPL:

- Abdom



ALT
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Kooper



- CBC:

- profil

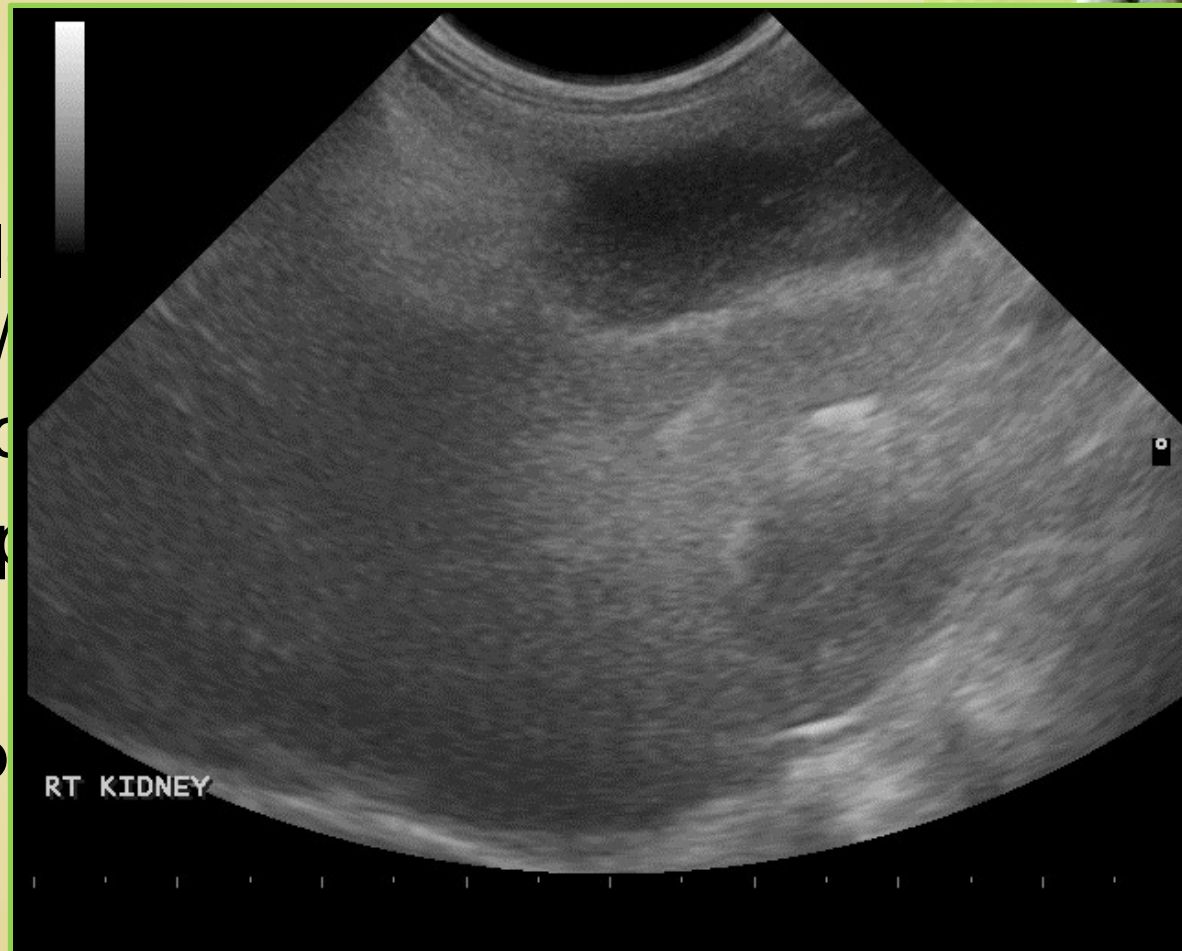
984 U/

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- UA: p

- cPL:

- Abdo



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- CBC

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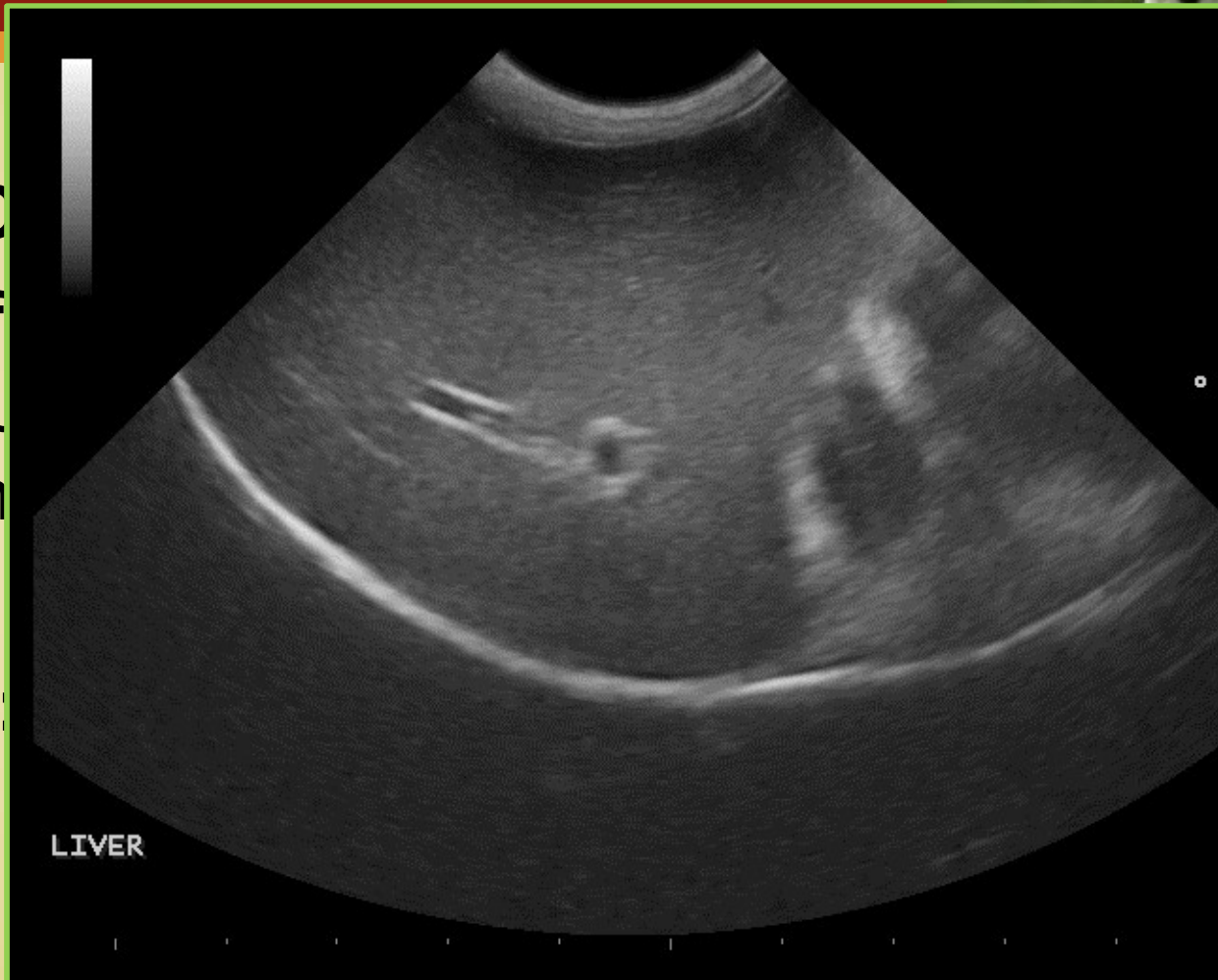
- UA:

- cPL

- Abd

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Kooper



- CBC:

- profil

984 U

lipemi

- UA:

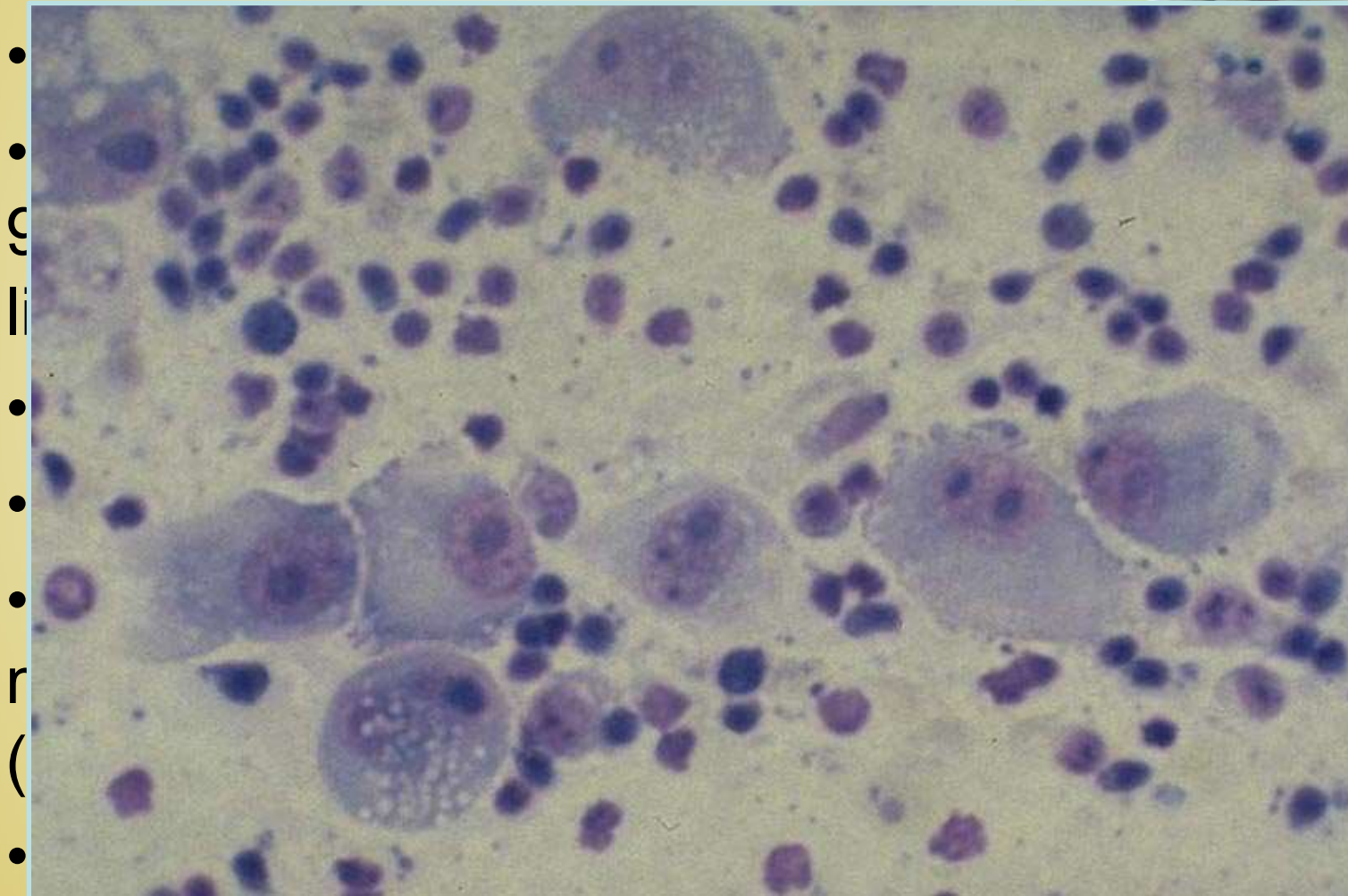
- cPL:

- Abdc



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- profile:** albumin 2.1 g/dl, ALP 1105 U/L, ALT 984 U/L, bili 1.3 mg/dl, Ca^{++} 7.9 mg/dl, serum is lipemic 3+
- UA:** proteinuria 2+
- cPL:** abnormal
- Abdominal Ultrasound:** pancreatitis, pancreatic masses, stomach 1-2 contractions per minute (hypomotile)
- FNA:** carcinoma, presumed pancreatic
- Outcome:** Kooper euthanized 3 weeks later

Lessons from Kooper

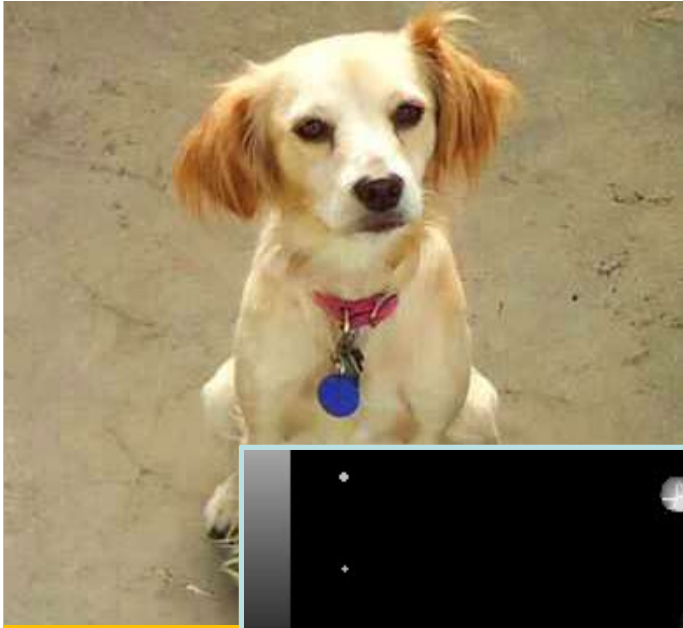


- Pancreatic carcinoma often presents as pancreatitis unresponsive to therapy
- Ultrasound at the onset of treatment for pancreatic is advisable
 - evaluates for disease that might confound successful treatment, including pancreatic cancer
- Prognosis for pancreatic carcinoma is dismal

GI Hypomotility

- Bowel obstruction
- Gastric ulcers
- Severe pancreatitis
- Inflammatory bowel disease
- GI neoplasia
- Peritonitis
- Post-operative ileus (abdominal surgery)

Most common cause of hypermotility is acute GI obstruction (FB, neoplasia, mass)



Goldie

8 yr old SF Mixed Dog - ADR

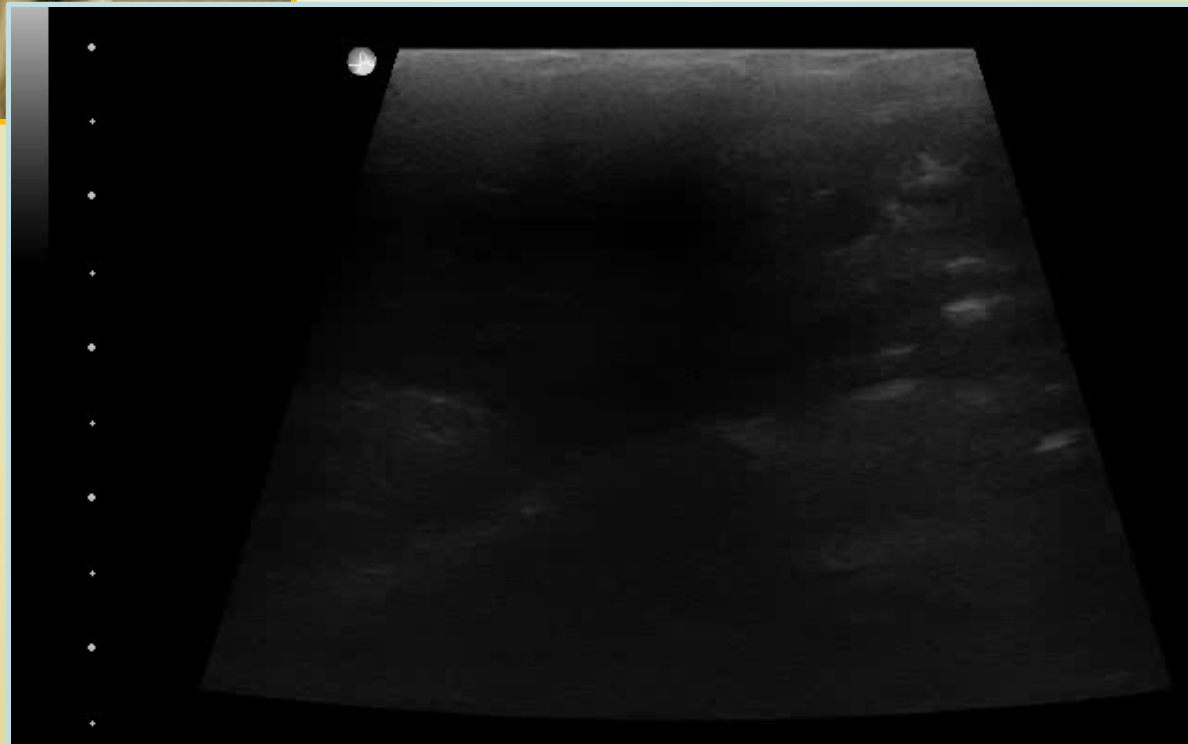


**Target Lesions in the Spleen
glimpse of another deeper mass**



Goldie

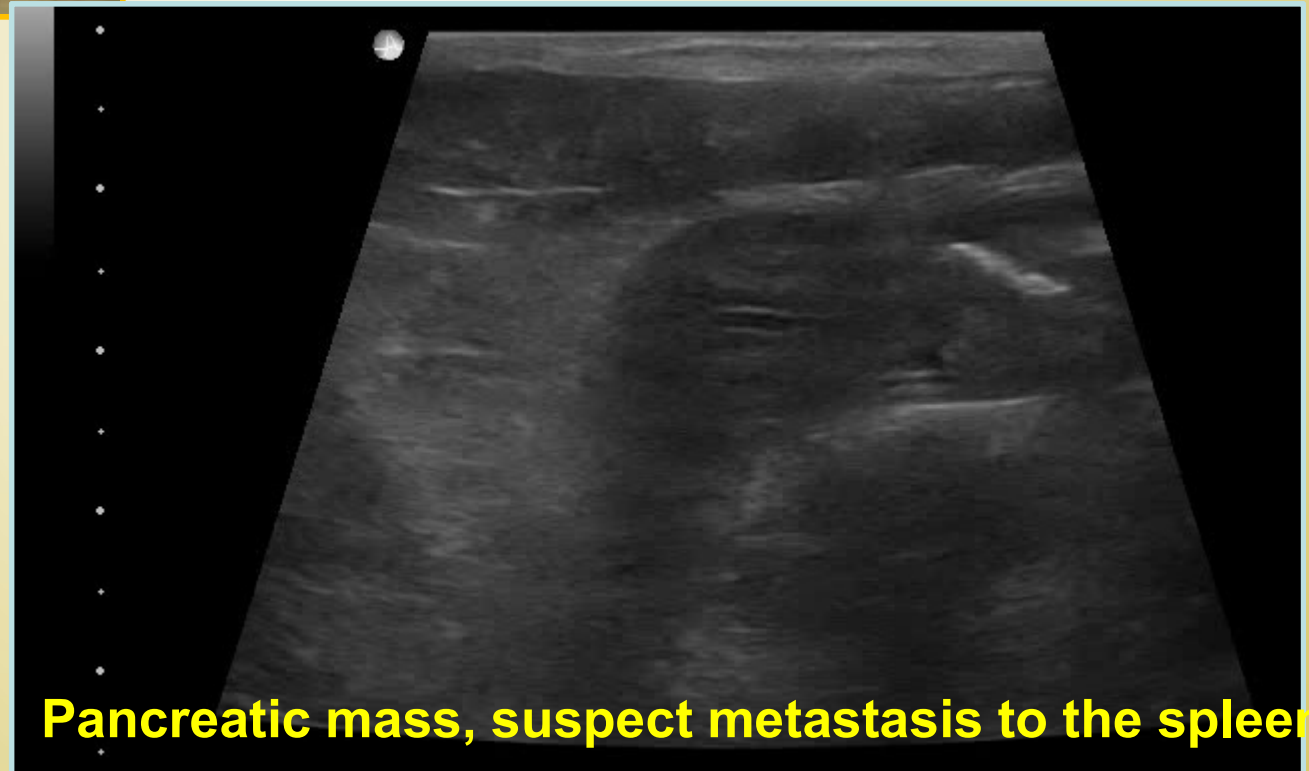
8 yr old SF Mixed Dog - ADR



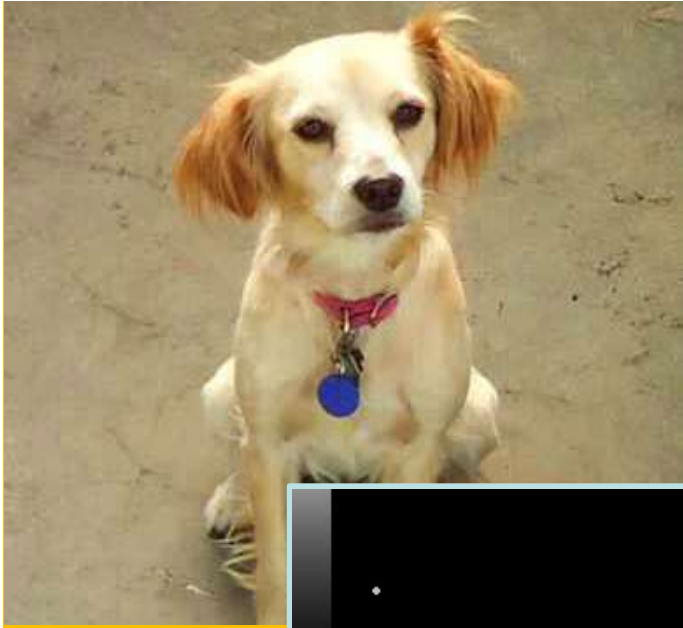


Goldie

8 yr old SF Mixed Dog - ADR

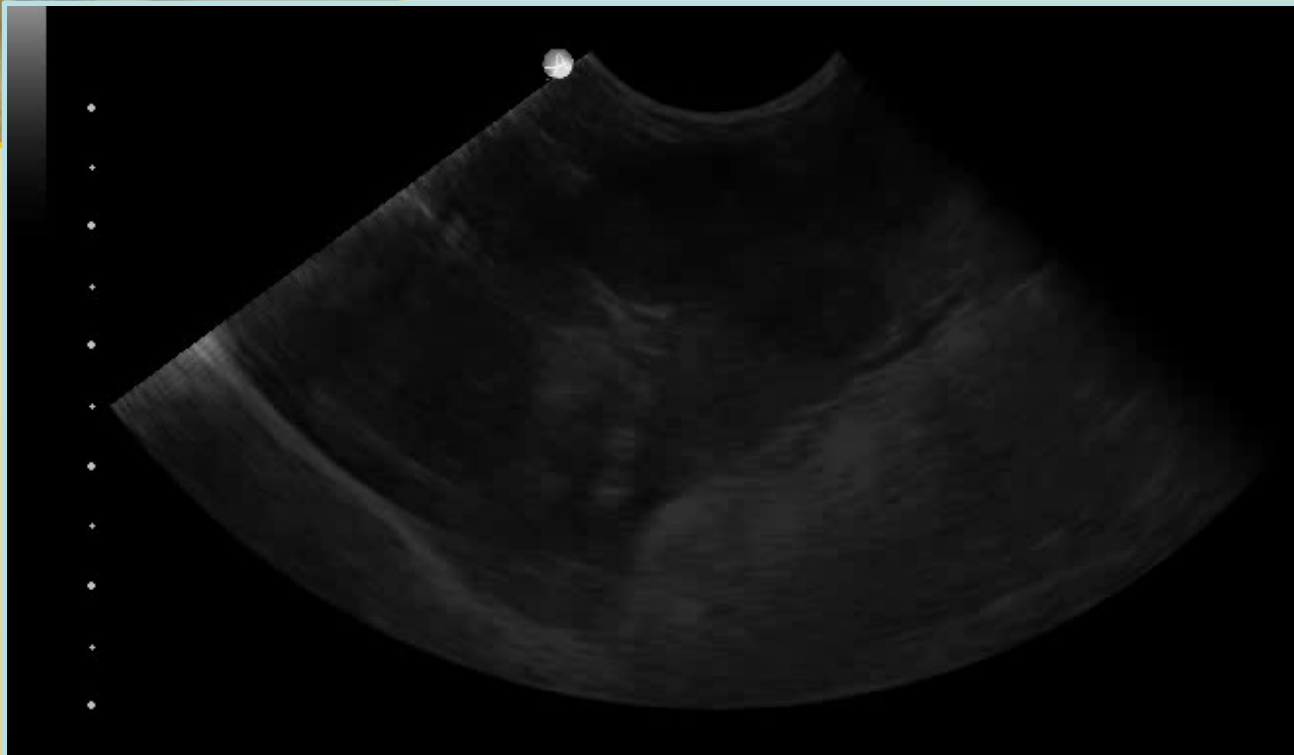


Pancreatic mass, suspect metastasis to the spleen



Goldie

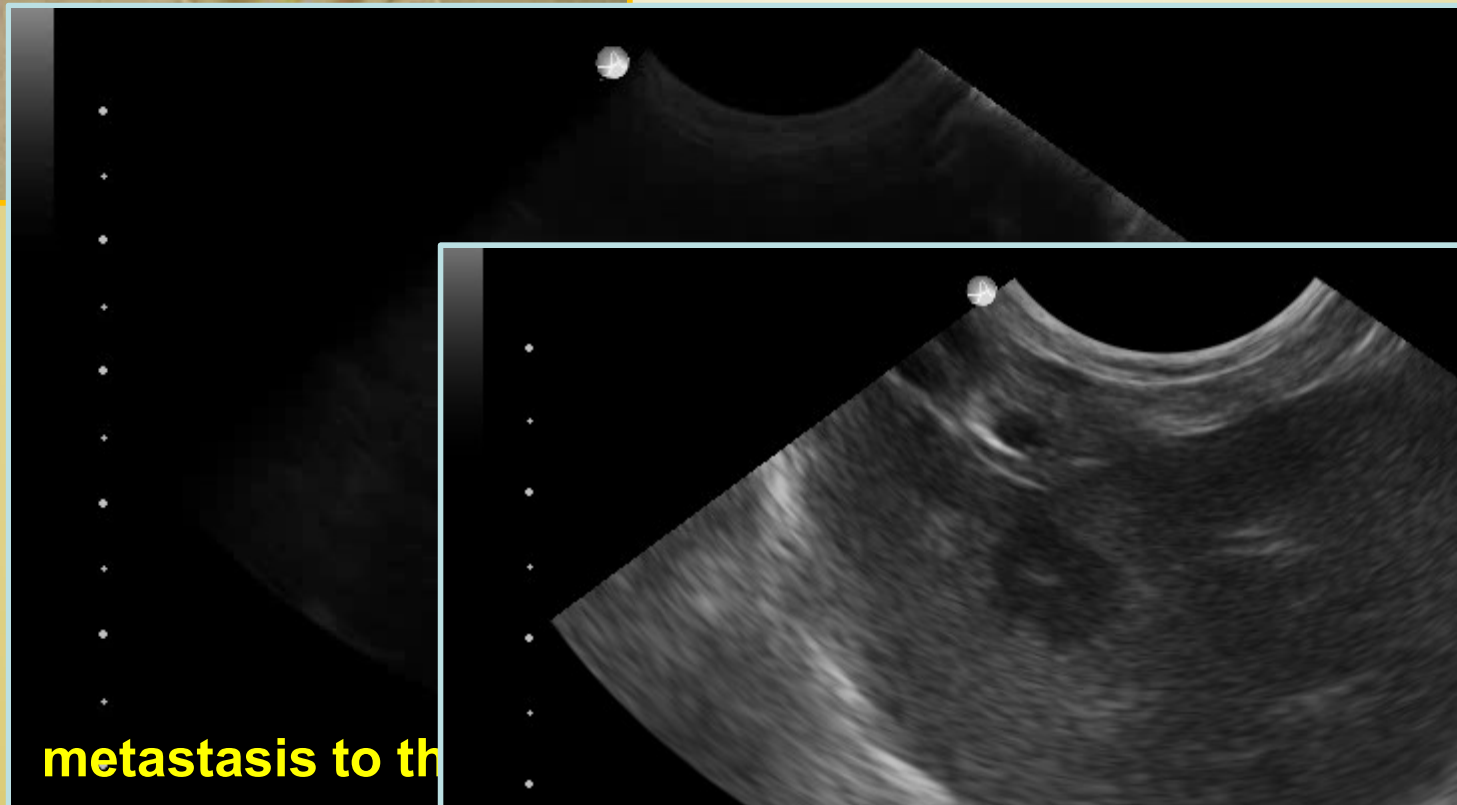
8 yr old SF Mixed Dog - ADR



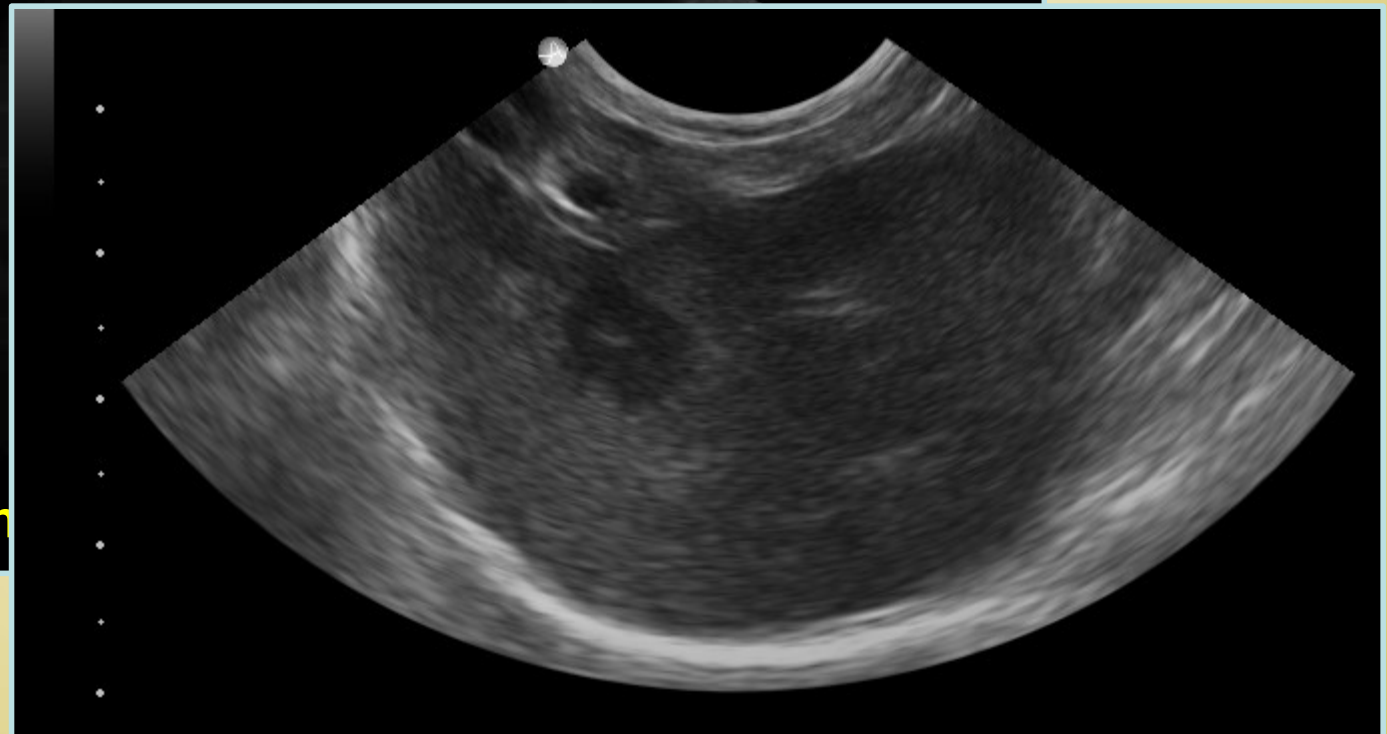


Goldie

8 yr old SF Mixed Dog - ADR



metastasis to th



Jessie



10 yr SF Lab Ret

Hx: moved to TX last year, dog has trouble with blood sugar and was diagnosed with insulinoma 2 yrs ago. Right now, doing well on 5 meals a day and 5mg pred daily

- New TexasVet doesn't think Jessie has insulinoma, because she would be dead by now. When they try to wean off prednisone, she crashes (glu 30-40)

DDx: long term episodic hypoglycemia

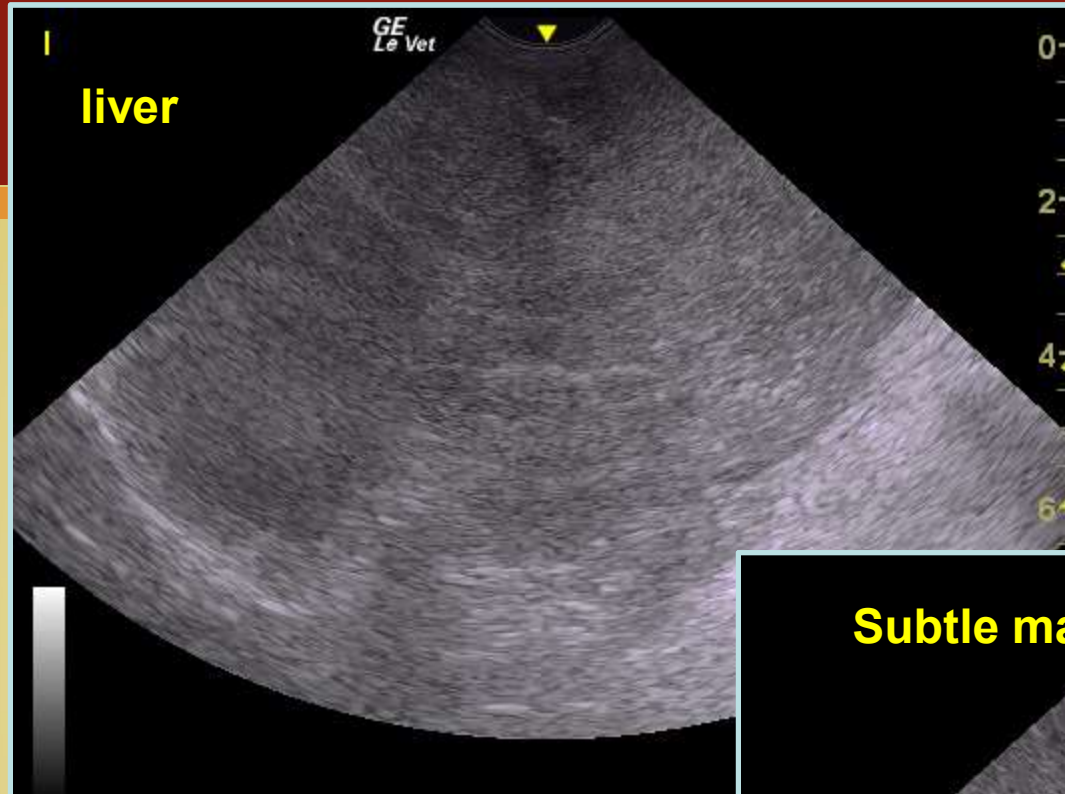
- Exercise induce collapse of Lab Ret (EIC)
- Atypical Hypoadrenocorticism
- Severe liver disease
- Insulinoma, hepatic tumor or other neoplasia

Jessie



Plan:

- *EIC DNA test* at www.vetgen.com - negative
- *ACTH stim* – baseline 0.6, post 5.1
 - Jessie had prednisone the day before
- *Bile Acids* – fasting 3, post prandial 6
- *RadBLUE®*, *Abd US* -



- negative

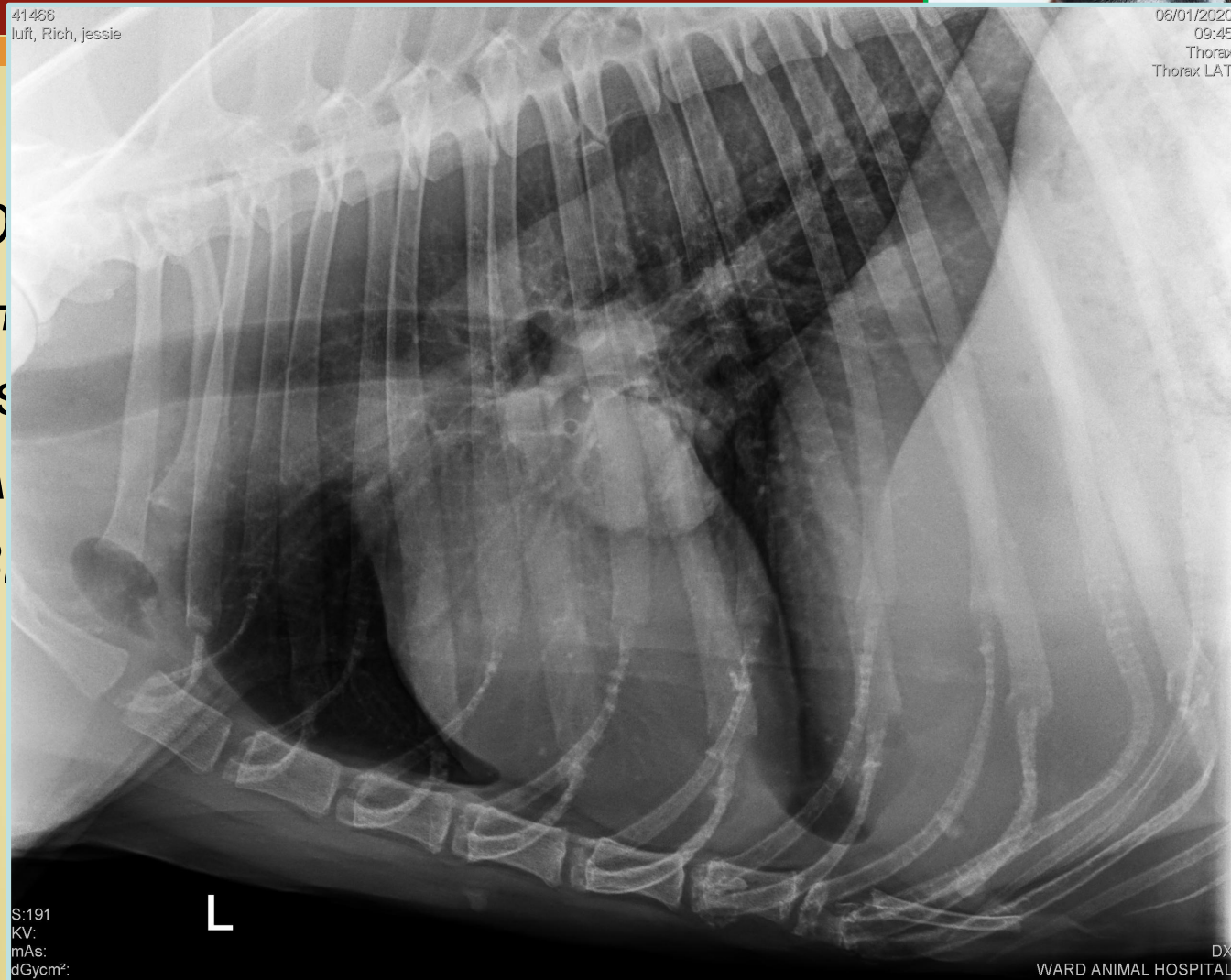


Jessie

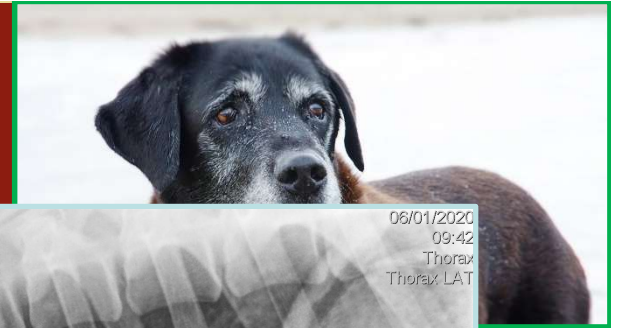


Plan:

- EIC D
- ACTH
 - Jess
- Bile A
- RadB



Jessie



Plan:

- *EIC DNA t*
- *ACTH stim*
 - Jessie
- *Bile Acids*
- *RadBLUE*

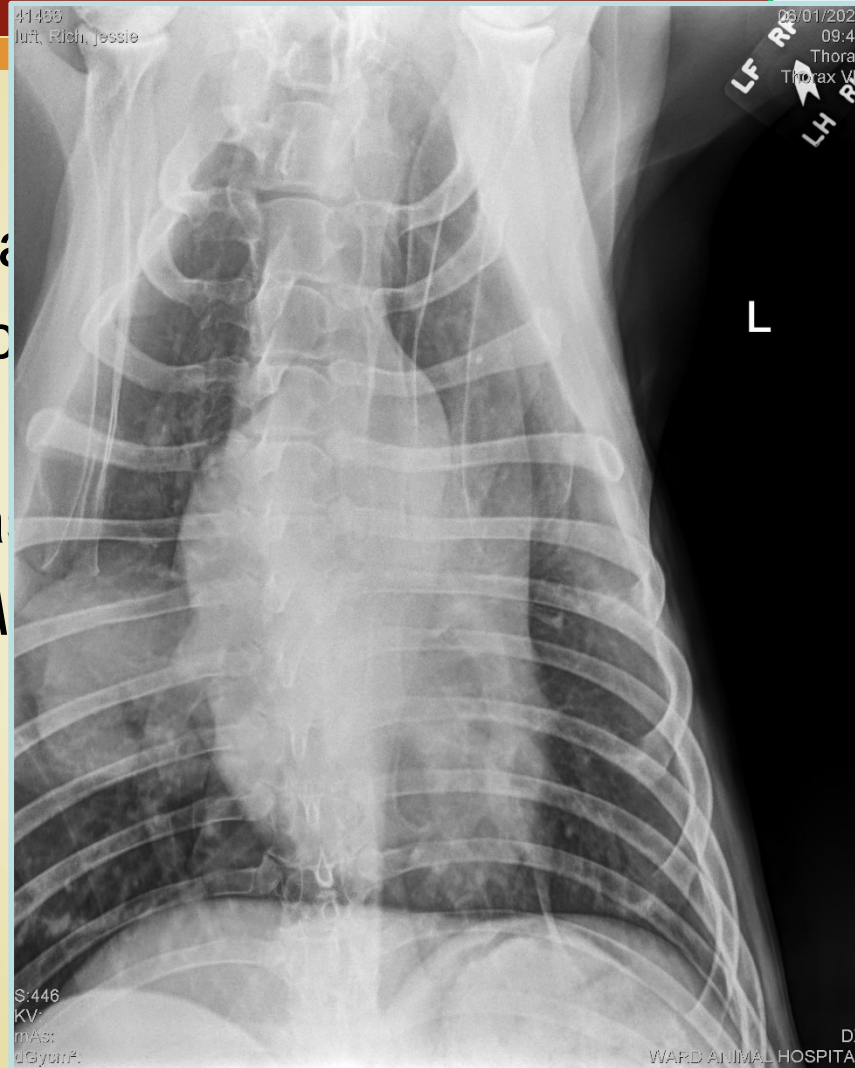


Jessie



Plan:

- *EIC DNA test*
- *ACTH stim* – b
 - Jessie had
- *Bile Acids* – fa
- *RadBLUE®*, A



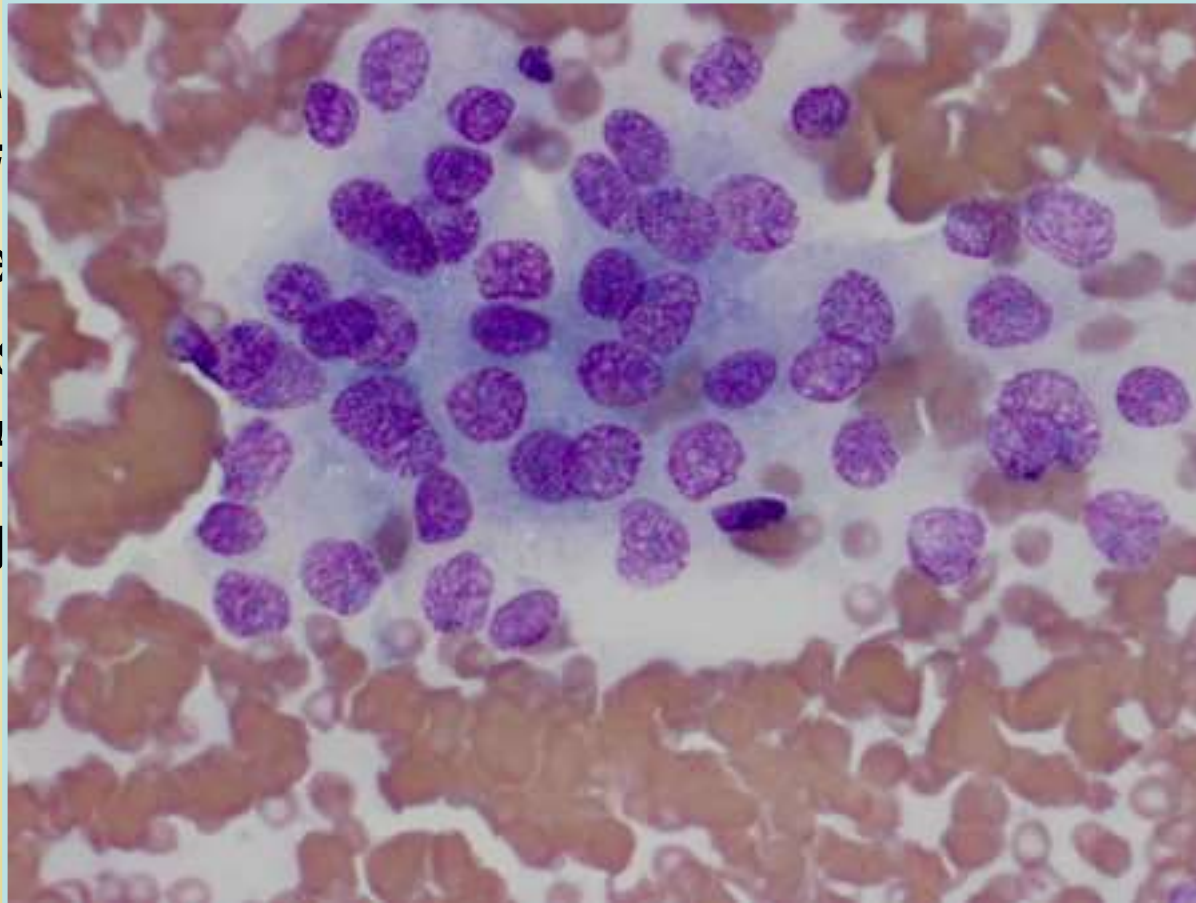
pancreas

Jessie



Plan:

- *EIC DNA*
- *ACTH sti*
 - Jessie
- *Bile Acids*
- *RadBLU*
- FNA lung



Jessie



Plan:

- *EIC DNA test* at www.vetgen.com - negative
- *ACTH stim* – baseline 0.6, post 5.1
 - Jessie had prednisone the day before
- *Bile Acids* – fasting 3, post prandial 6
- *RadBLUE®*, *Abd US* - no abnormalities in pancreas
- FNA lung mass – neuroendocrine cells – presumed insulinoma
- **CBC, panel:** glucose 62
- Could confirm with simultaneous insulin and glucose, but not need

Summary

- PowerPoints -[Pancreas Ultrasound Cases](#)
- .pdf of PowerPoint -[Pancreas Ultrasound Cases](#)

Acknowledgements

- Eastex Vet Clinic - Nacogdoches TX - Kooper
- Southwood Drive Animal Clinic - Lufkin TX - Goldie