



PATIENT PRESENTING CLINICAL SIGNS

MIKEY HICKSON
History: hypospadias - US to check for uterus/ovaries/prostate and cryptorchid(left). GI/GU: Abdominal palpation benign, bladder small, normal prepuces and very small perineal opening (were urine comes from). Two testicles palpable in scrotum that move in/out of inguinal canal. A-FAST: Small normal bladder and large kidneys pressed against bladder (very abnormal location) - DWO abnormal position of the kidneys and re-US with PAWS when older to see if uterine tissue present and-
Abnormal PE/Chem/CBC/UA Results: LABS WNL

BREED ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Dandie Dinmont Terrier

Urinary System

SEX
Intact Male
The urinary bladder is moderately distended with anechoic urine. The Bladder wall, trigone, ureteral papillae and visible urethra (to a depth of 2.0 cm) appear normal with no evidence of wall thickening, mucosal irregularities, masses or cystic calculi.

AGE
18 Weeks
The prostate is large in size (0.64 cm) but has a regular shape with smooth external margins. The parenchyma is heterogenous, but no discrete focal lesions are present. The prostatic urethra appears normal with no evidence of irregularity, invasion, mass effect or calculi.

WEIGHT
14.6 Pounds
The left kidney has a normal shape and appears large in size (4.93 cm). The kidney appears relatively normal in architecture but is displaced caudally in the abdomen just cranial to the urinary bladder. Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex: medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

INTERPRETED BY
Kathleen Sennello DVM, MS, Diplomate ACVIM (Small Animal Internal Medicine)
The right kidney has a normal shape and appears large in size (4.68 cm). The kidney appears relatively normal in architecture but is displaced caudally in the abdomen just cranial to the urinary bladder. Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex: medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

IMAGING PERFORMED BY
Loetitia Saint-Jacques, RVT
Adrenal Glands
The left adrenal gland is normal in size measuring 0.21 cm. It is observed in its normal position cranial to the left renal artery. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

HOSPITAL NAME
Sierra Oaks VC
The right adrenal gland is normal in size measuring 0.33 cm. It is observed in its normal position between the cranial aspect of the right kidney and the caudal vena cava. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

REFERRING VET
Spleen
The spleen is subjectively normal in size, echotexture is homogenous, and the splenic capsule is smooth with no irregularities. The blood flow through the hilus and splenic parenchyma appears normal. No focal parenchymal abnormalities are visualized.

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Liver



PATIENT

Mikey Hickson

The liver is subjectively normal in size, and echogenicity with smooth peripheral margins. The parenchyma is homogenous echotexture. The visible portions of the vasculature and biliary tract appear normal. No focal nodules or cystic lesions are observed. The gall bladder lumen is moderately distended. The wall of the gall bladder is not thickened and has a smooth mucosal surface. Luminal contents are primarily anechoic. The cystic and common bile ducts are normal/not visible.

SPECIES

Canine

Gastrointestinal

BREED

Dandie Dinmont Terrier

The stomach contains minimal luminal contents. It measures at a normal thickness of <0.7cm with some variability due to the presence of rugal folds. The distinction of the gastric wall layers is adequate and there is no impression of reduced peristaltic activity. No masses or focal lesions were observed.

SEX

Intact Male

The visualized areas of duodenum, jejunum and ileum have a relatively uniform diameter with minimal fluid distension. Wall thickness is normal. Bowel loops follow a curvilinear path with distinct wall layering maintaining the typical 1:3 muscularis:mucosa layer ratio. The duodenum measured as normal (0.27 cm in wall thickness), and the jejunum measured as normal (0.25 cm) Visualized peristalsis appears appropriate. There were no focal lesions consistent with obstruction or a mass effect observed.

AGE

18 Weeks

The ileocecal junction was visualized and exhibited normal intact wall layering and is subjectively of normal thickness. Sections of colon are visualized with formed fecal material and gas shadowing distally. There is no observed focal or generalized colon wall thickening or loss of layering.

WEIGHT

14.6 Pounds

Pancreas

The (pancreas/region of the pancreas) is normal and isoechoic to surrounding mesentery. There is no evidence of nodules or cystic lesions. There is no evidence of regional mesenteric inflammation or fluid.

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Medicine)

Free Abdomen

Scant anechoic free fluid. Mild mesenteric lymphadenopathy is present with mesenteric lymph node, measuring 0.82 cm and a sublumbar lymph node, measuring 0.67 cm. The omentum is of normal echogenicity.

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Other

The left testicle is visualized intraabdominally, measuring 1.44 cm caudal to the left kidney. The right testicle is visualized, measuring 1.94 cm, it appears to have descended and is visualized within the scrotum.

HOSPITAL NAME

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ULTRASONOGRAPHIC FINDINGS

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Primary Findings

- Hypospadias is present- urethral opening visualized caudal to the prepuce.
- Suspect unilateral cryptorchid- the left testicle appears to be within the abdominal cavity.

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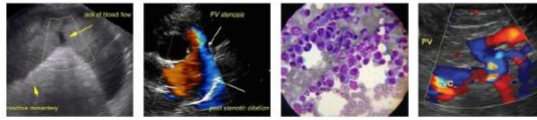
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Secondary Findings

- Large caudally displaced kidneys- The significance of this is currently unclear but is likely associated with the congenital abnormalities reported.

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MIKEY HICKSON

- Mild mesenteric lymphadenopathy- This is a common finding in young dogs.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

SPECIES

Canine

This patient has hypospadias with a urethral opening caudal to the prepuce. Additionally, there appears to be a cryptorchid left testicle observed in the abdomen.

BREED

Dandie Dinmont Terrier

Both kidneys are large and are situated caudally in the abdomen. The significance of this is unclear. Given the congenital abnormalities present, you could consider a liver function test to look for evidence of a liver shunt as this is a differential for renomegaly.

SEX

Intact Male

I do not see evidence of a uterus or ovaries but this is a very small dog so an exploratory should be performed at the time of neutering (the abdominal testicle) to see if any abnormal structures are present.

AGE

18 Weeks

Consultation with a veterinary surgeon is recommended regarding correction of the hypospadias. These dogs can be at increased risk for urinary tract infections so monitoring for lower urinary tract signs is recommended.

I suspect surgery would be recommended after puberty.

WEIGHT

14.6 Pounds

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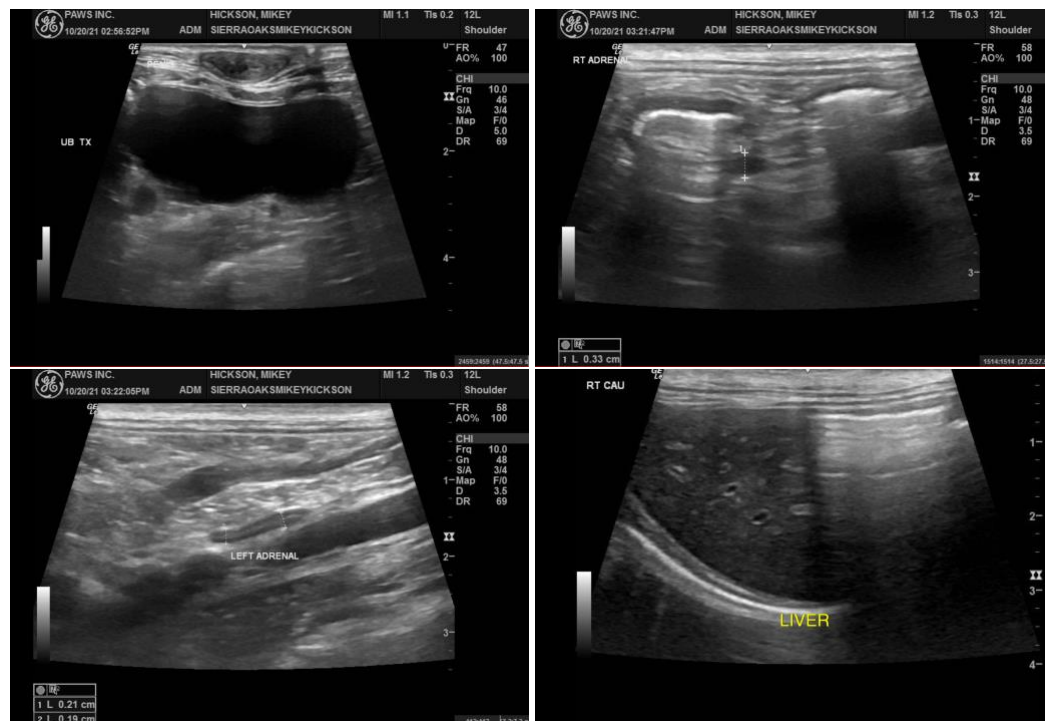
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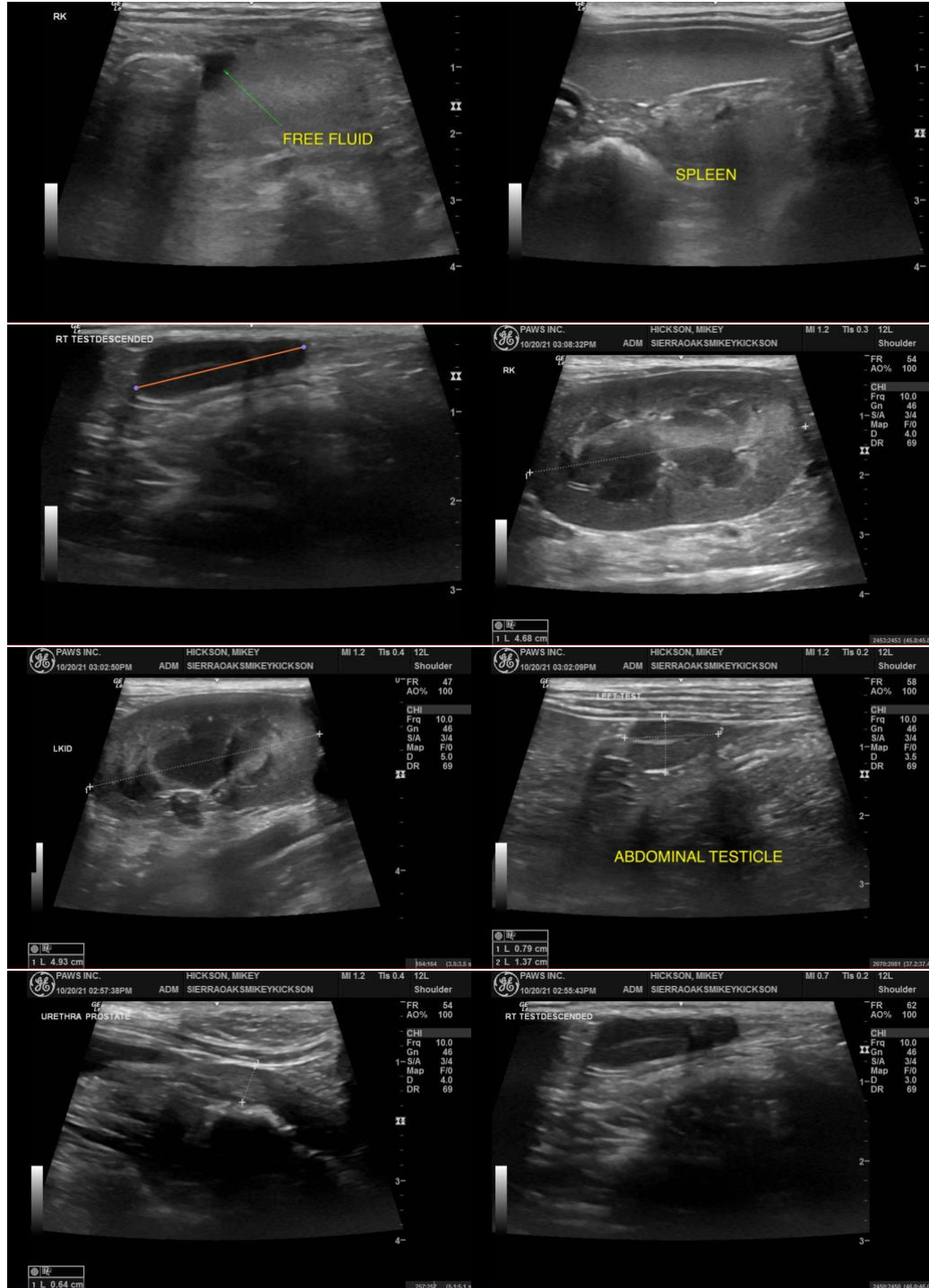
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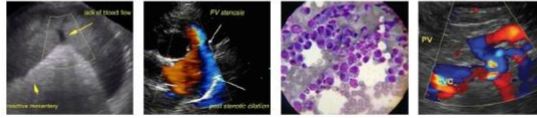
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.



PATIENT

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.

Mikey Hickson

Kathleen Sennello DVM, MS, Diplomate ACVIM (Small animal Internal Medicine)

SPECIES

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Intact Male

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