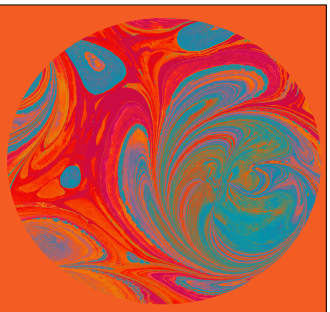
Discussione interattiva di casi clinici complessi

Giliola Spattini
DVM, GP cert Cardio, CCRT, PhD, DECVDI



Diagnostic Mindset

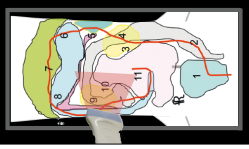
Clinica Veterinaria CASTELLARANO

Mefisto, DSH, MI, 18 months

- Loosing weight
- Diarrhea
- Anorexia
- FIV and FELV positive

Mefisto, MI, 18 months

Probe position in a different patient

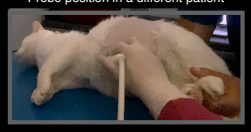


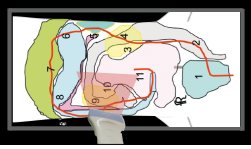
7-11

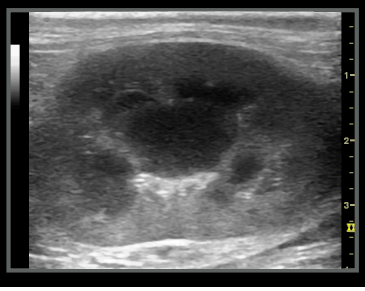
Mefisto, MI, 18 months

Probe position in a different patient

7-11



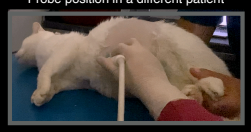


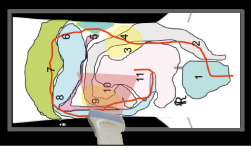


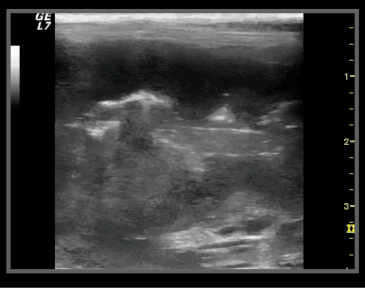
Mefisto, MI, 18 months

Probe position in a different patient

7-11

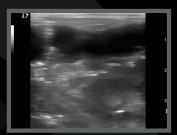


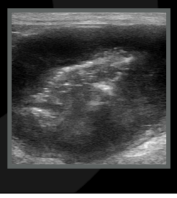




Mefisto, DSH, MI, 18 months

- Reverberation artifact
- Intestinal mass





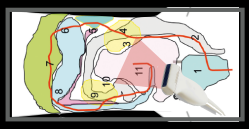
Pallino, DSH, MN, 2 years

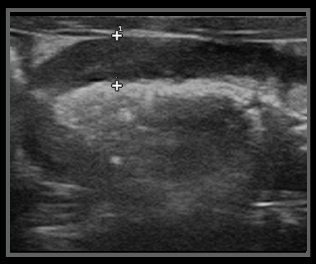
- Treated conservatively for pyothorax
- Pernicious vomiting

Pallino, MN, 2 years

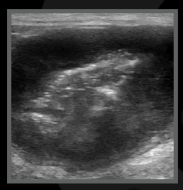
Probe position in a different patient

10-11



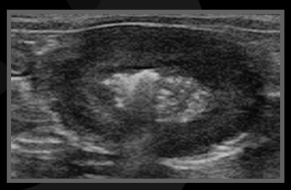


Mefisto, DSH, MI, 18 months



- Large cells lymphoma

Pallino, DSH, MN, 2 years



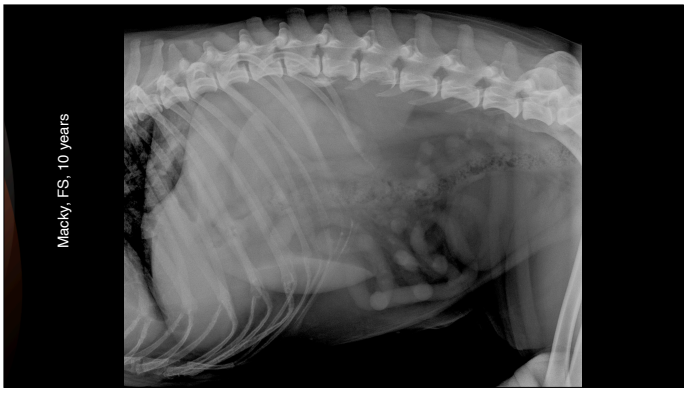
- Eosinophilic sclerosing fibroplasia

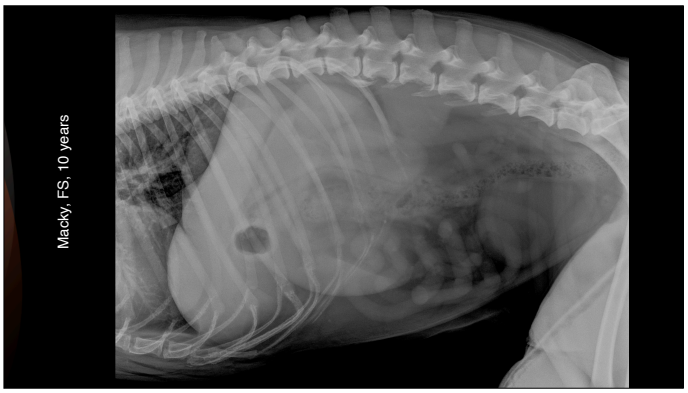
	Neoplasia	Inflammation
THICKNESS OF THE WAL	15 MM	6 MM
WALL LAYERING	99% LOST	88 % NORMAL
NUMBER OF LESIONS	2% MORE THAN ONE LESIONS	72% AT LIST TWO LESIONS
AVERAGE THICKNESS OF THE TRIBUTARY LYMPH NODES	1,9 CM	1,0 CM

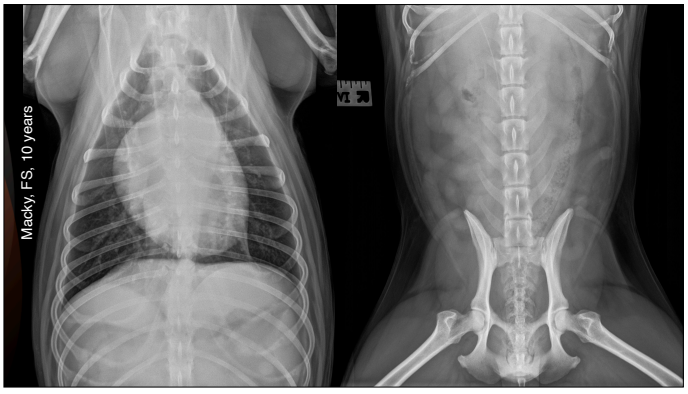
ADENOCARCINOMA	LYMPHOMA	LEYOMIOMA
SYMMETRIC	SYMMETRIC	ASYMMETRIC
SHORT, NO MORE THAN 3,5 CM	USUALLY MORE THAN 3,5 CM	LONG AND LARGE
USUALLY QUICKLY OBSTRUCTIVE	CAN BECOME OBSTRUCTIVE	USUALLY IT IS NOT OBSTRUCTIVE
REGIONAL LN NEARLY ALWAYS AFFECTED	REGIONAL LN USUALLY AFFECTED	REGIONAL LN USUALLY NOT AFFECTED
CAN BE ULCERATED	CAN BE ULCERATED	ULCERATION IS RARE

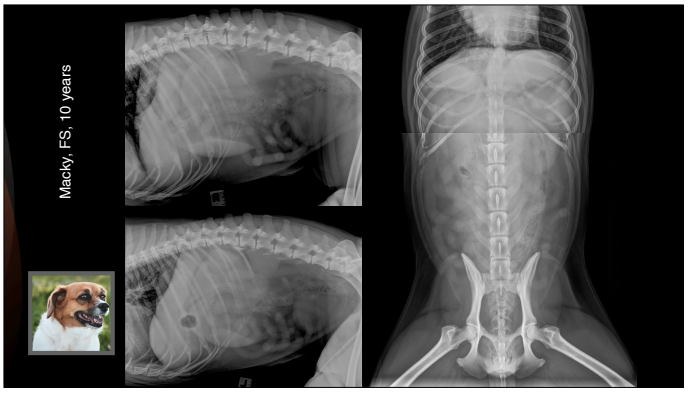
Macky, Mongrel, FS, 10 years

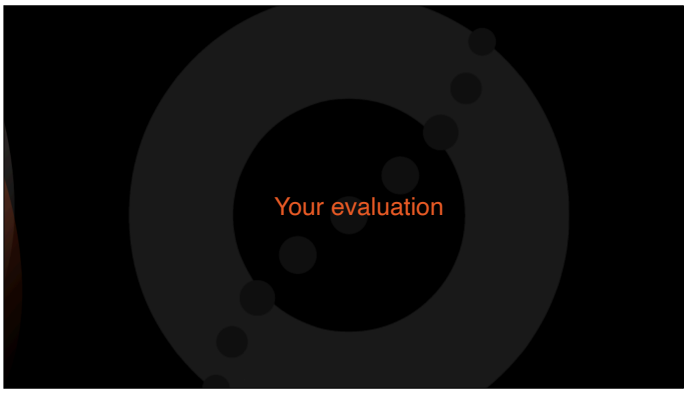
- One week of weakness during walks
- Yelped if touched on the flank
- Trouble setting

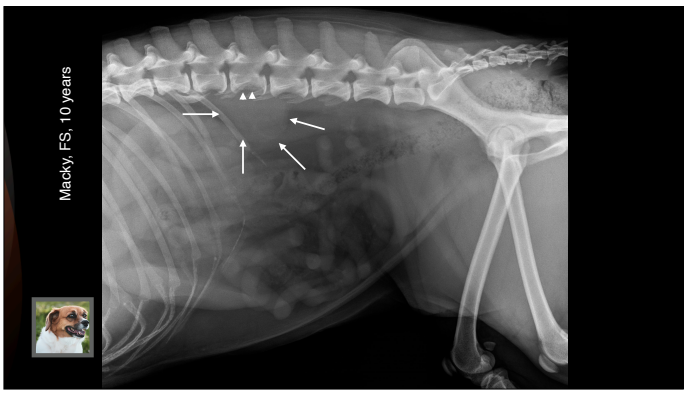

Macky, FS, 10 years


Macky, FS, 10 years


Macky, FS, 10 years


Macky, FS, 10 years


Your evaluation


Macky, FS, 10 years

Macky, Mongrel, FS, 10 years

Radiographic diagnoses:

- Focal retroperitoneal soft tissue mass
- Adjacent lytic lesion of the vertebral body

Conclusions

- FNA and biopsy confirmed a soft tissue sarcoma arising from the iliopsoas muscle
- Survived with radiation for 18 months

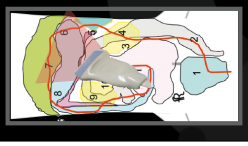
Spriz, Maine Coon, MN, 4 months

- Castrated and donated the next day
- Depressed
- Not eating
- Elevated renal values

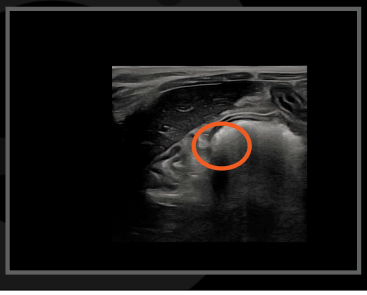
Urea (mg/dL):	273	20-65
Creatinina (mg/dL):	6.45	0.7-1.6
Fosforo (mg/dL):	17.3	2.6-5.0

Spriz, MN, 4 months

Probe position in a different patient



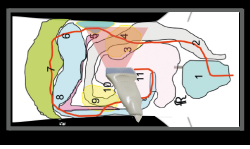
Gastric LN



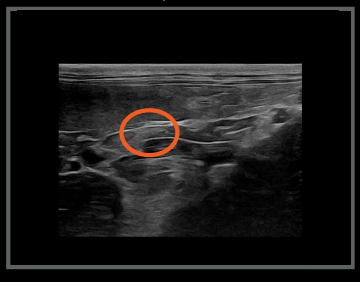
6-7

Spriz, MN, 4 months

Probe position in a different patient

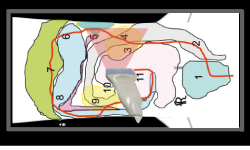


Splenic LN 5



Spriz, MN, 4 months

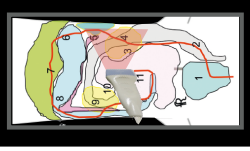
Probe position in a different patient



Jejunal LNs 5-11

Spriz, MN, 4 months

Probe position in a different patient



Jejunal LNs 5-11

Spriz, Maine Coon, MN, 4 months

- Are the LNs abnormal?
- Could this patient have a FIP?
- What would you do next?

Lymph nodes

Echogenicity

- WNL echogenicity
- Hypoechoic
- Mixed

Size

Enlarged

Puppies
Mildly reactive

Lymphadenogaly

Reactive

WNL

Shape?

Inflammation + +

Neoplasia + +

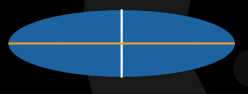
Spherix index

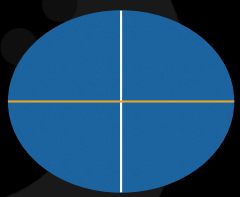
H / L < 0,7

Inflammation more likely

H / L < 0,7

Neoplasia more likely





Ultrasonographic assessment of abdominal lymph nodes in puppies.

Krol L, O'Brien R.

Vet Radiol Ultrasound. 2012 Jul-Aug;53(4):455-8. doi: 10.1111/j.1740-8261.2012.01932.x. Epub 2012 Apr 12.

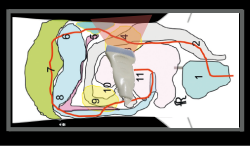
PMID: 22497669

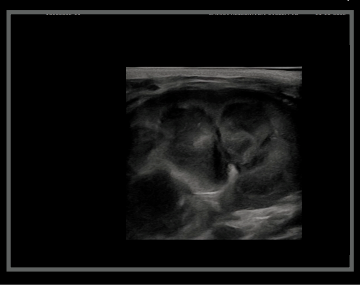
variety of shapes were seen, including vermiform and complex branching shapes. We concluded that in 4- to 6-week-old dogs, medial iliac lymph nodes are similar in size to adult dogs and jejunal lymph nodes are multiple, routinely seen, are larger than in adults and often have unconventional shapes.

Spriz, MN, 4 months

Probe position in a different patient

4



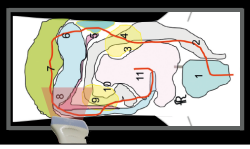


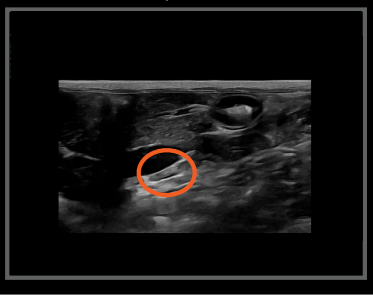
Spriz, MN, 4 months

Probe position in a different patient

Hepatic LNs

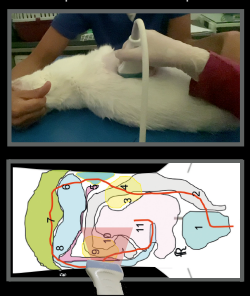
8-8'





Spriz, MN, 4 months

Probe position in a different patient



Right colic LNs

Spriz, Maine Coon, MN, 4 months

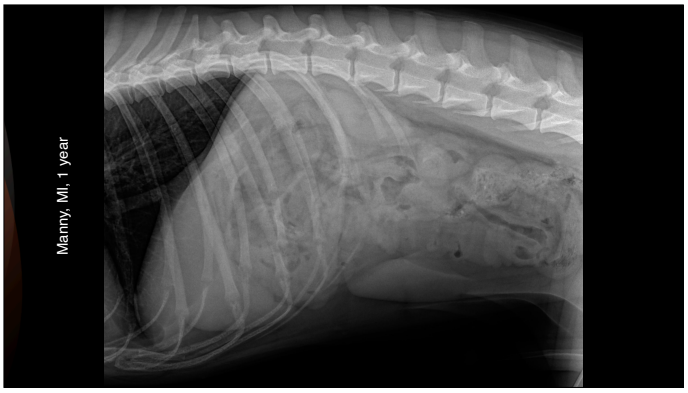
- Decreased cortical renal perfusion
- Hypotension?
- Clinically recovered in 24 hours

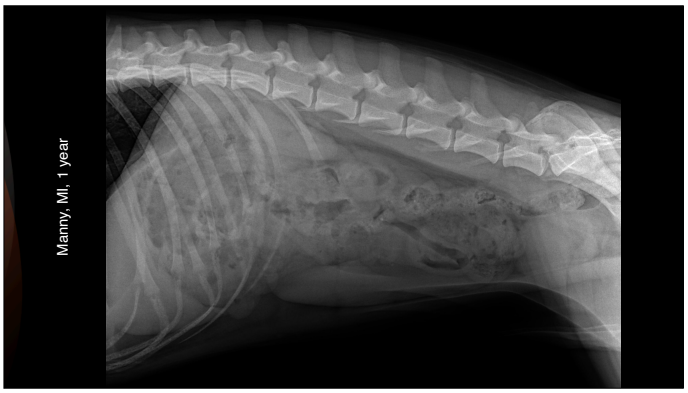
Urea (mg/dL):	42	20-65
Creatinina (mg/dL):	0.69	0.7-1.6
Glucosio (mg/dL):	73	80-145
Calcio (mg/dL):	8.1	8.0-11.2
Fosforo (mg/dL):	5.6	2.6-5.0

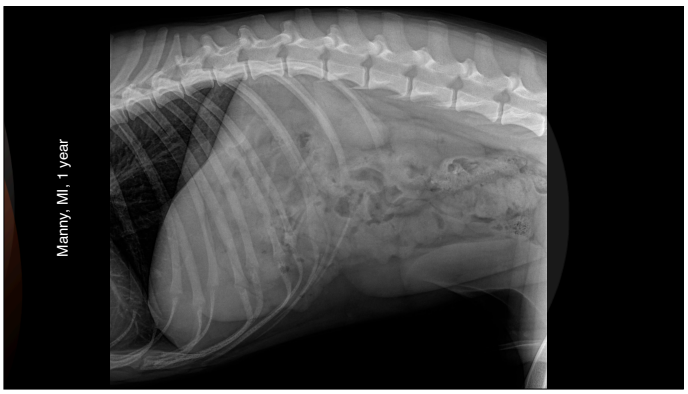
- Recheck renal vascularisation in one week
- Still doing fine two months later

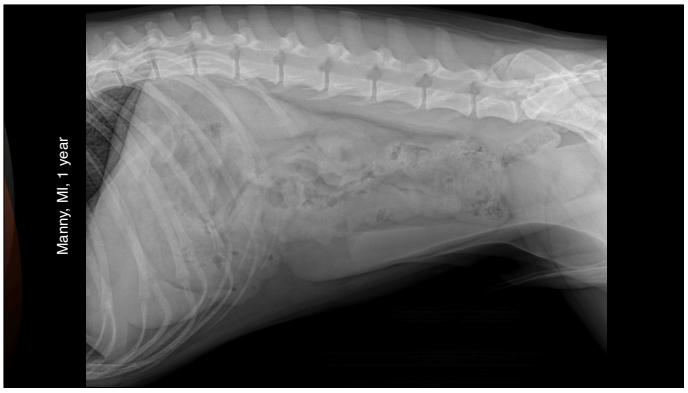
Manny, GS, MI, 1 year

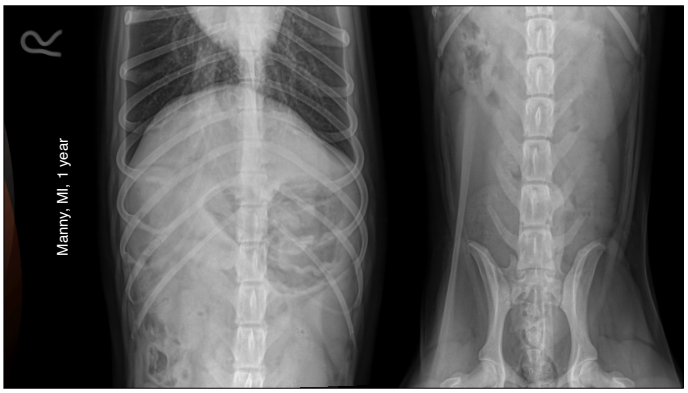
- Vomiting numerous times starting today
- Abdominal pain with vocalisation

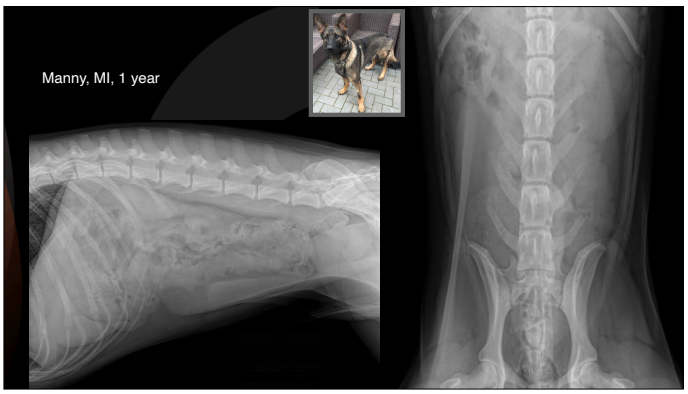

Manny, MI, 1 year


Manny, MI, 1 year

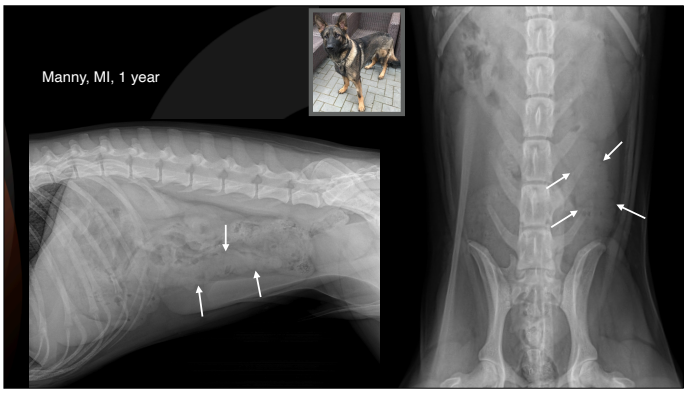

Manny, MI, 1 year


Manny, MI, 1 year


Manny, MI, 1 year


Manny, MI, 1 year

Your evaluation



Manny, GS, MI, 1 year

Radiographic diagnoses:

- Severe plication of the SI

Conclusions

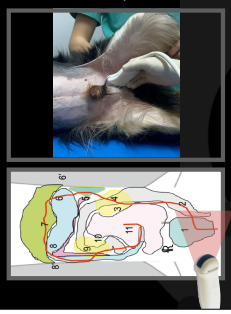
- A towel was removed at surgery (pylorus-jejunum)

Willy, Miniature Schnauzer, MI, 11 years

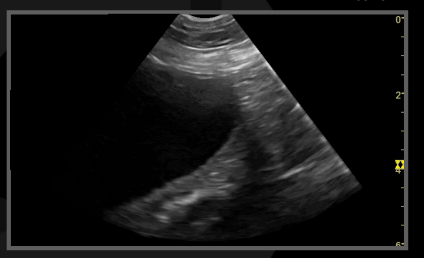
- Acute abdomen
- Not walking

Willy, MI, 11 years

Probe position

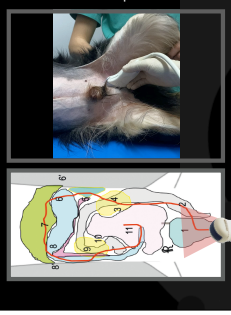


Position 1



Willy, MI, 11 years

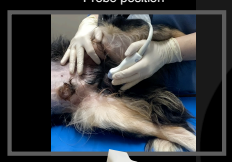
Probe position

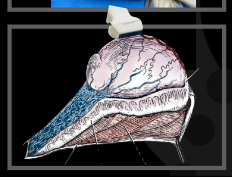


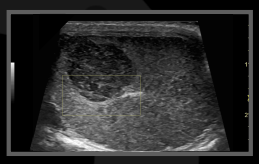
Position 1

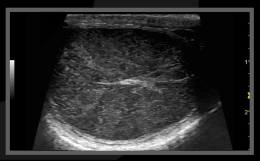
Willy, MI, 11 years

Probe position









Willy, Miniature Schnauzer, MI, 11 years

Ultrasonographic diagnoses:

- Mineralised prostatopathy
- Nodular and generalised testicular disease

ORIGINAL ARTICLE

Prostatitis and prostatic abscessation in dogs: retrospective study of 82 cases

Australian Veterinary Journal Volume 100 No 6, June 2022

C Lea,[1]* D Walker,[1] CA Blazquez,[1] O Zaghloul,[1] S Tappin[1] and D Kelly[2]

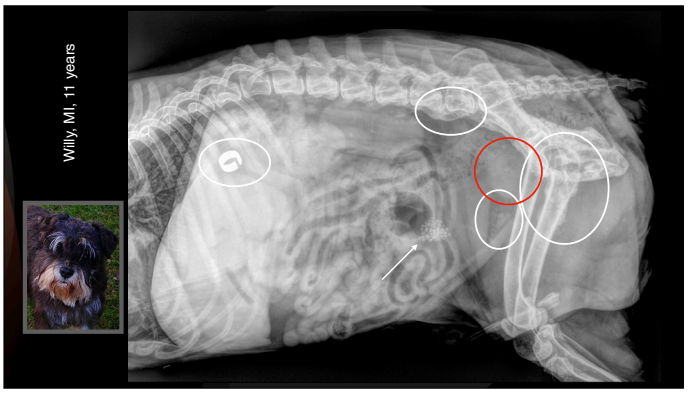
Results A total of 82 dogs were included, and the median age was nine years. Acute prostatitis was diagnosed in 63% of cases, chronic prostatitis in 37% of cases and 40% of cases had prostatic abscessation. Prostatomegaly was the most common ultrasonographic finding. Mineralisation was identified in 20% of cases. The results of urine and prostatic bacterial culture were concordant in only 50% of cases. Antimicrobial resistance was encountered commonly, with 29% of cultures resistant to one antimicrobial and 52% resistant to two or more antimicrobials. Abscesses were from samples from the prostate. Sampling of the prostate is required to confirm a diagnosis and exclude other pathologies such as neoplasia, particularly as mineralisation is seen in a reasonable number of cases of dogs with prostatitis.

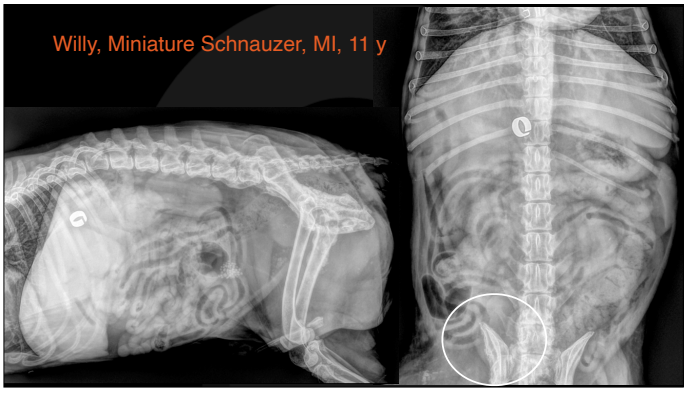
Willy, Miniature Schnauzer, MI, 11 years

Ultrasonographic diagnoses:

- Mineralised prostatopathy
- Nodular and generalised testicular disease

What next?

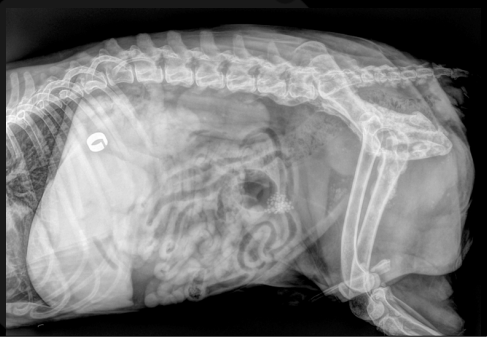




Willy, MI, 11 years

Metastatic path of canine prostatic cancer

- Continuity
- Lymphatic
- Venous



Willy, Miniature Schnauzer, MI, 11 years

Follow up

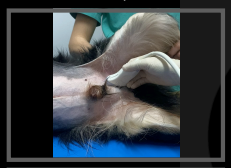
- Confirmed prostatic carcinoma
- Metastasis to the adjacent pelvic and femoral bones
- Metastasis to the surrounding peritoneum

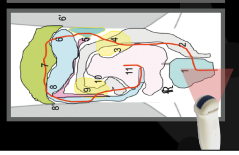
Nutella, Border Collies, MI, 6 years

- IMHA
- Treatment started two weeks ago
- Now sick again

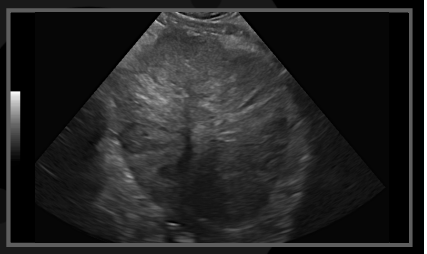
Nutella, MI, 11 years

Probe position





Position 1



Nutella, Border Collies, MI, 6 years

Ultrasonographic diagnoses:

- Prostatopathy
- Reactive surrounding peritoneum

Suspected acute prostatitis, Ab started, still under immunodepressant to treat the IMHA

Nutella, Border Collies, MI, 6 years

One week later

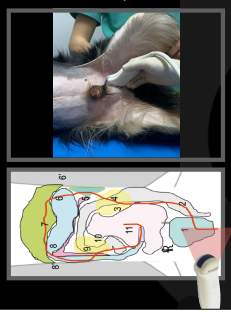
- Worsening general condition
- Fever
- Stranguria

Nutella, MI, 11 years

One week later

Probe position

Position 1

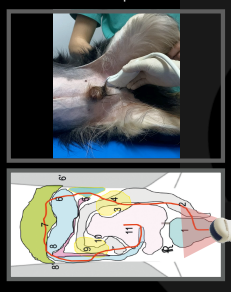


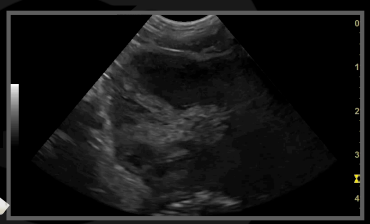
Nutella, MI, 11 years

One week later

Probe position

Position 1





Nutella, Border Collies, MI, 6 years

One week later

Ultrasonographic diagnoses:

- Prostatic cystic lesion
- Severely reactive surrounding peritoneum

Suspected prostatic abscess, reduced immunodepressant to treat the IMHA

Nutella, Border Collies, MI, 6 years

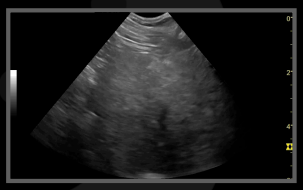
Two weeks later

- Back to normal clinically
- Still under AB
- No recurrance of IMHA

Nutella, Border Collies, MI, 6 years

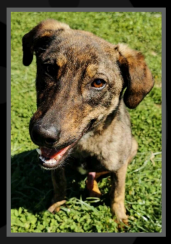
Six weeks later

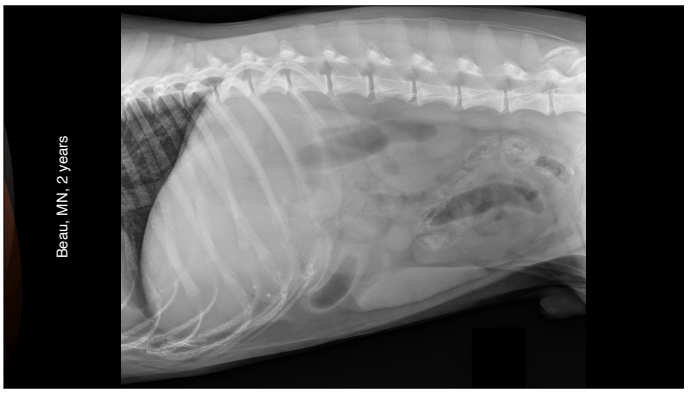
- Checking two weeks after AB discontinuation
- Unremarkable blood works

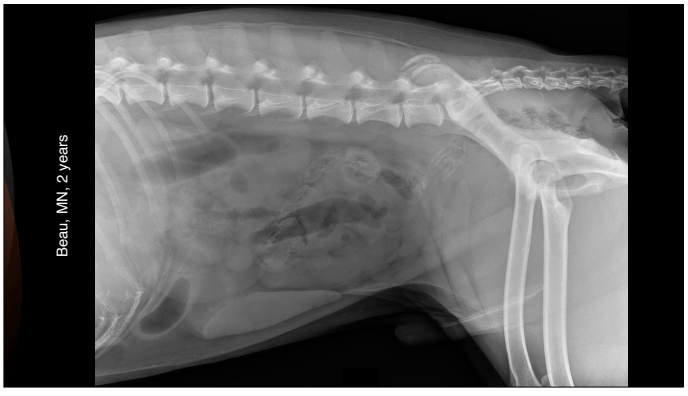


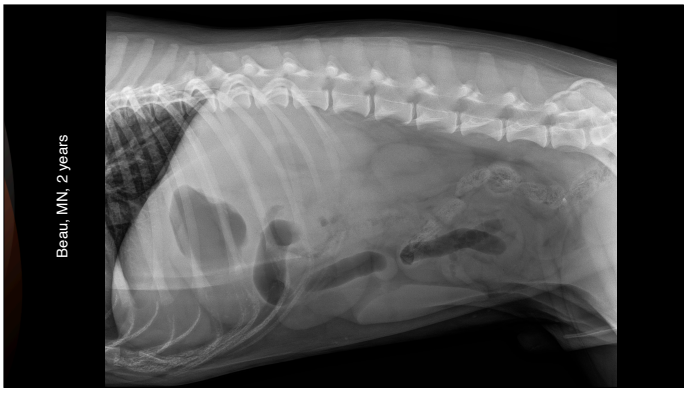
Beau, Mongrel, MN, 2 years

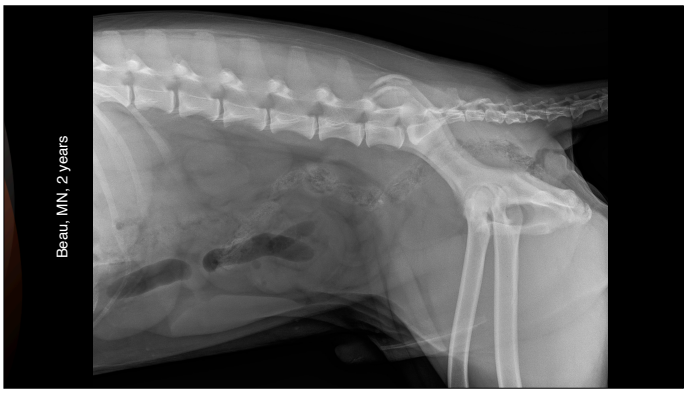
- Anorexic for three days
- Diarrhoea
- Now vomiting







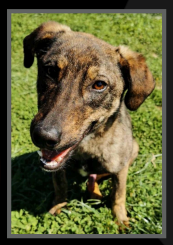

Beau, MN, 2 years

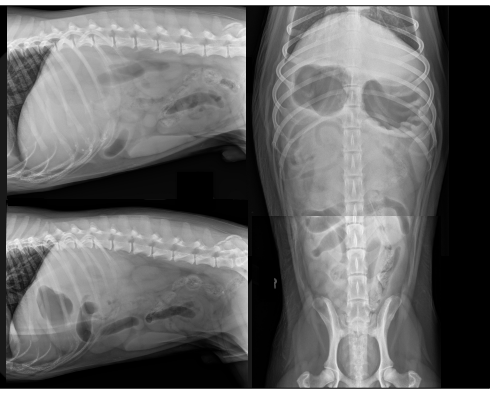

Beau, MN, 2 years


Beau, MN, 2 years

Your evaluation?

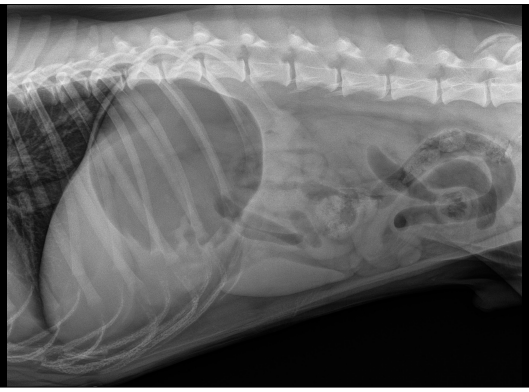
Beau, MN, 2 years





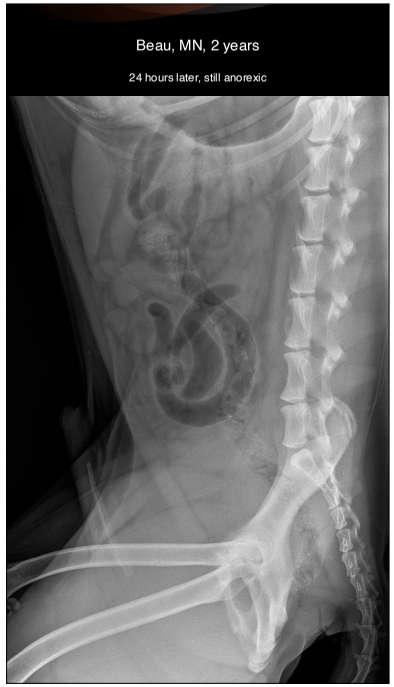
Beau, MN, 2 years

24 hours later, still anorexic




Beau, MN, 2 years
24 hours later, still anorexic
L
DLO


Beau, MN, 2 years
24 hours later, still anorexic

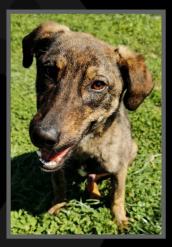

Beau, MN, 2 years
24 hours later, still anorexic

Beau, MN, 2 years
24 hours later, still anorexic
L
R

Your evaluation?

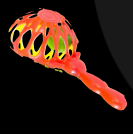
Beau, MN, 2 years
24 hours later, still anorexic
L
R

Beau, Mongrel, MN, 2 years



Radiographic diagnoses:

- Mechanical SI occlusion by FB



Conclusions

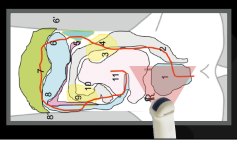
- Surgical removal of the FB

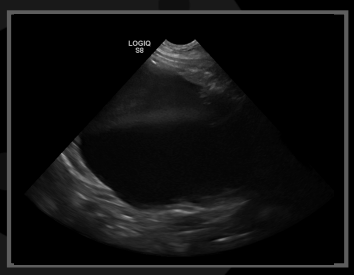
Thor, Neapolitan Mastiff, MI, 6 years

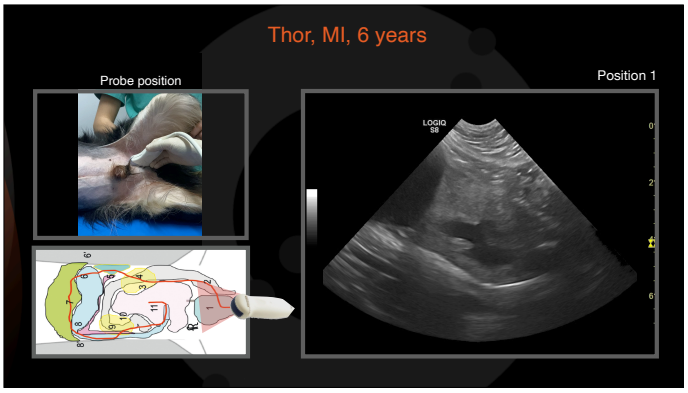
- Acute vomiting
- Not playing with the other two puppies
- Attempt to defecate, not successful
- Cryptorchid

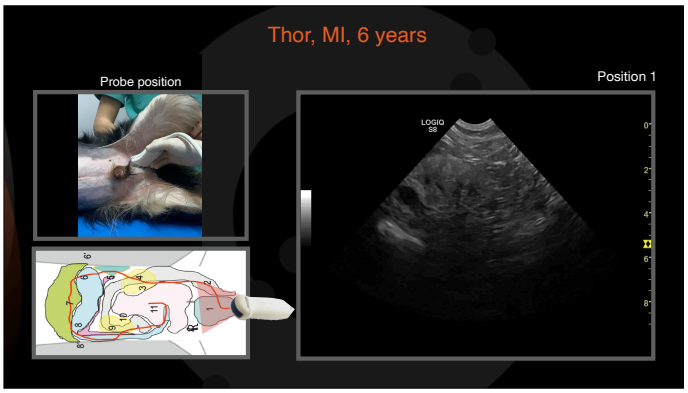
Thor, MI, 6 years

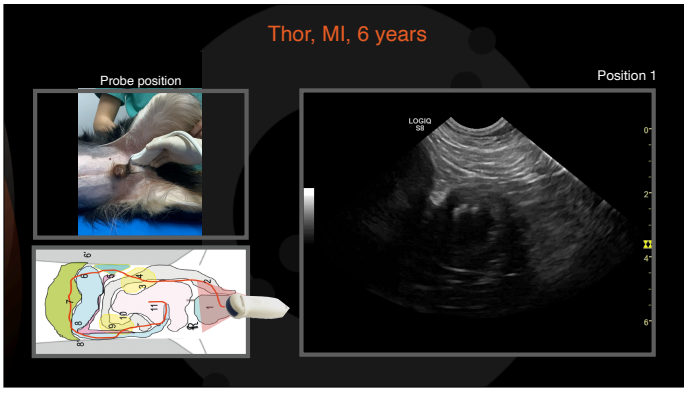
Probe position in a different patient





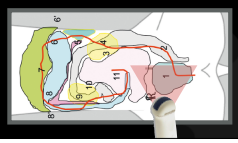

Thor, MI, 6 years
Probe position
Position 1
LOGIQ
S8

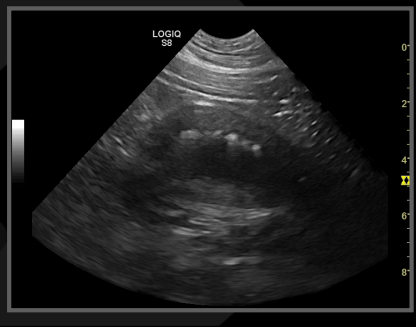

Thor, MI, 6 years
Probe position
Position 1
LOGIQ
S8


Thor, MI, 6 years
Probe position
Position 1
LOGIQ
S8

Thor, MI, 6 years

Probe position in a different patient





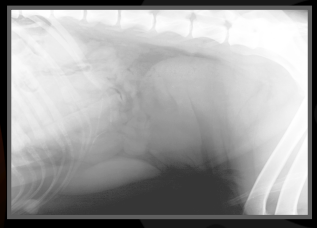
Thor, Neapolitan Mastiff, MI, 6 years

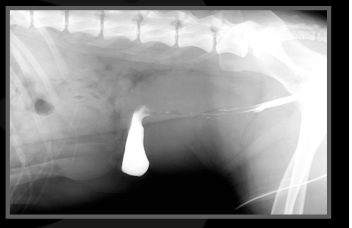
Ultrasonographic diagnoses:

- Paraprostatic cyst?
- Intraprostatic cysts?
- Urinary stones?

What next?

Thor, Neapolitan Mastiff, MI, 6 years

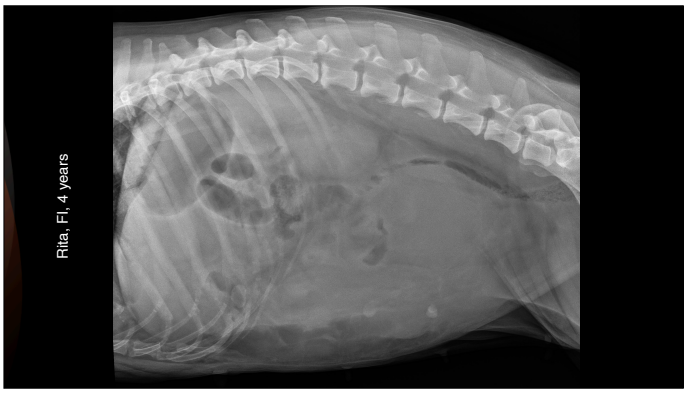


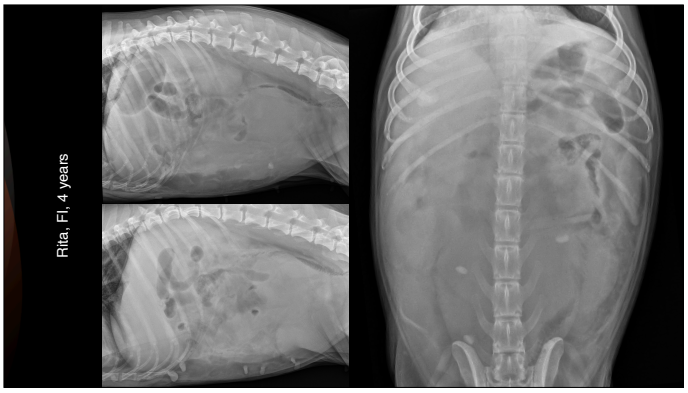


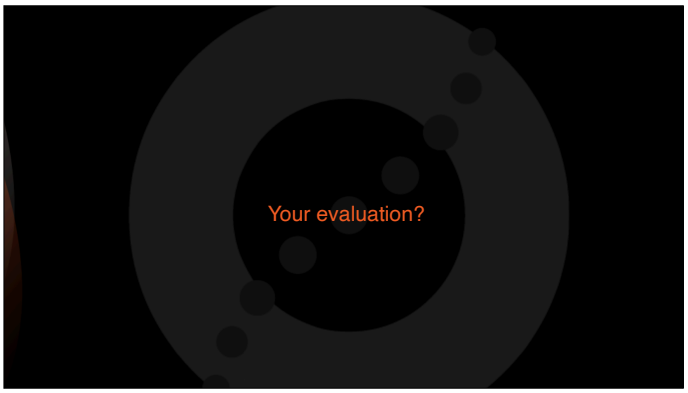
Follow up: peritoneal omentalization of the paraprostatic cyst

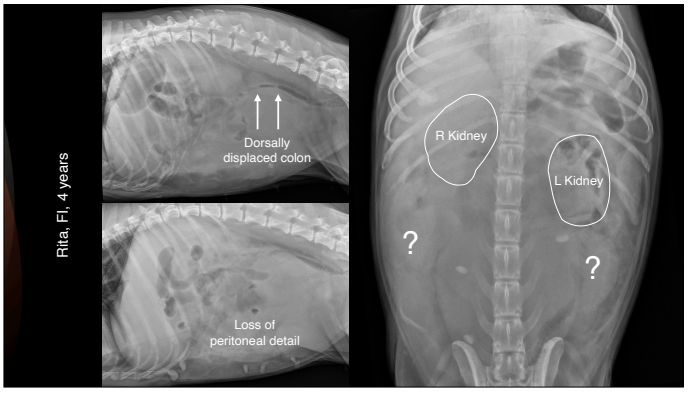
Rita, Brittany, FI, 4 years

- Presented in lateral recumbency
- Hypoglycaemia




Rita, FI, 4 years

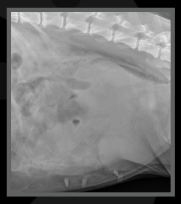

Your evaluation?


Rita, FI, 4 years
Dorsally
displaced colon
Loss of
peritoneal detail
R Kidney
L Kidney
?
?

Rita, Brittany, FI, 4 years

Radiographic diagnoses:

- Focal loss of abdominal detail
- Tubular structure



Conclusions

- Pyometra confirmed on US. Treated once stable, recovered

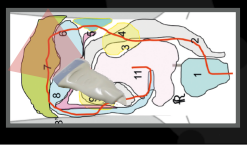
Basco, English Setter, MI, 3 Months

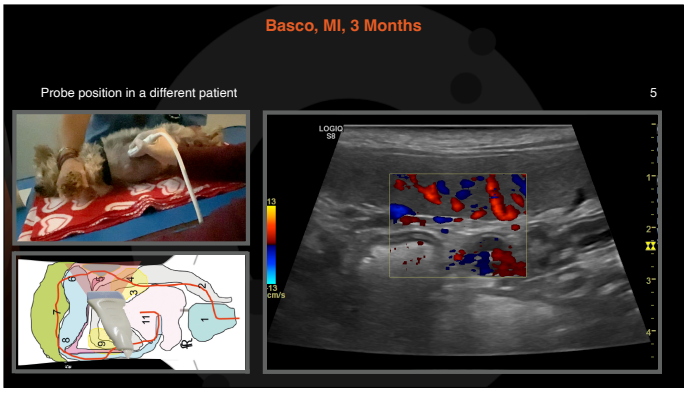
- Acute vomiting
- Not playing with the other two puppies
- Attempt to defecate, not successful
- Cryptorchid

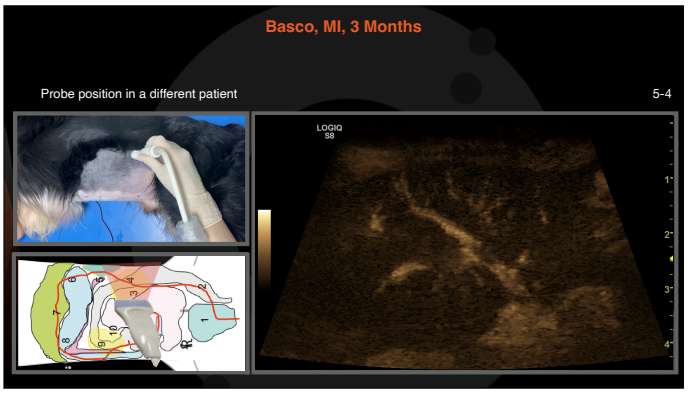
Basco, MI, 3 Months

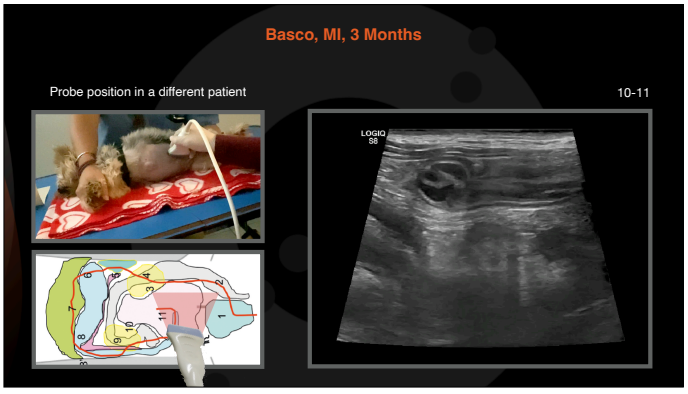
Probe position in a different patient

7-6




Basco, MI, 3 Months
Probe position in a different patient
5
LOGIQ
S8
13
13
cm/s

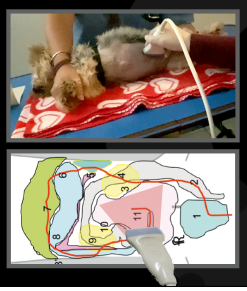

Basco, MI, 3 Months
Probe position in a different patient
5-4
LOGIQ
S8

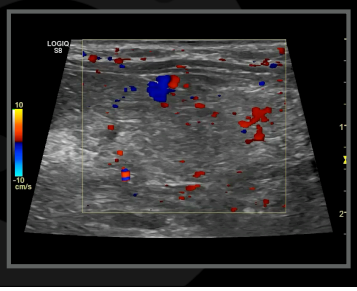

Basco, MI, 3 Months
Probe position in a different patient
10-11
LOGIQ
S8

Basco, MI, 3 Months

Probe position in a different patient

10-11





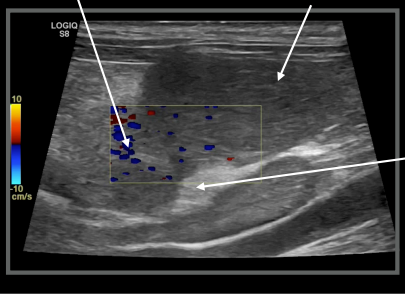
Basco, MI, 3 Months

Abdominal mass with decreased blood flow

Mass associated with an elongated hypoechoic structure

Mild abdominal effusion

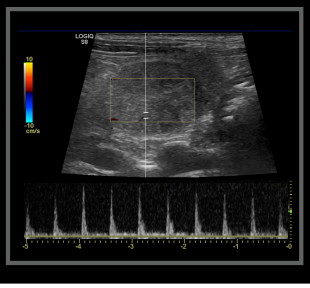
Scattering artifact



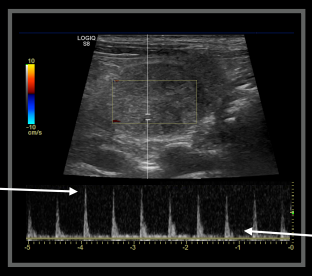
Basco, MI, 3 Months

Probe position in a different patient

10-11



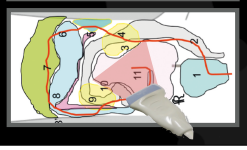
Basco, MI, 3 Months



Basco, MI, 3 Months

Probe position in a different patient

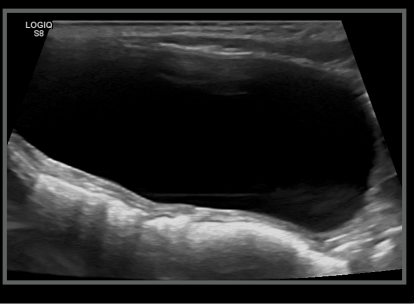
10-11

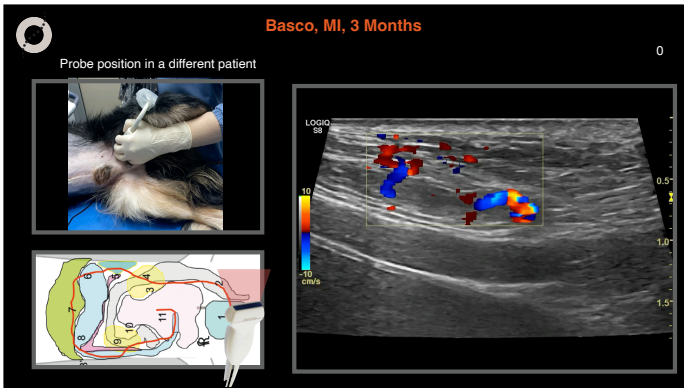


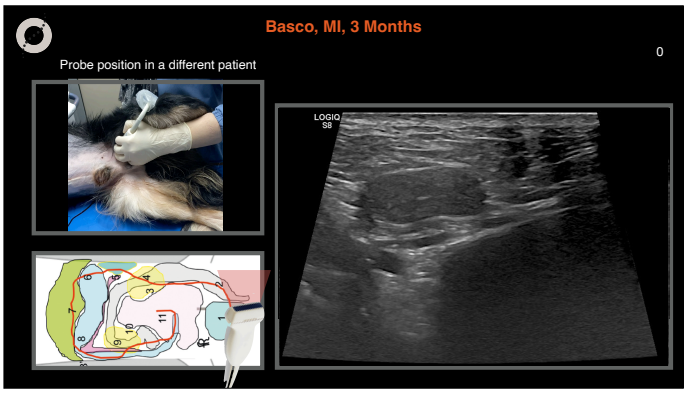
Basco, MI, 3 Months

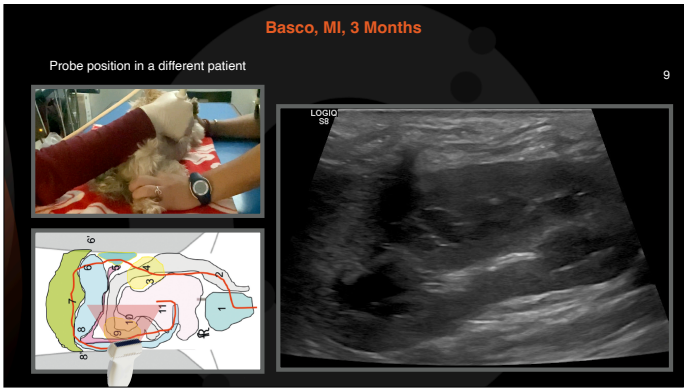
Probe position in a different patient

1




Basco, MI, 3 Months
Probe position in a different patient
0
LOGIQ S8
10
-10 cm/s
0.5
1.0
1.5

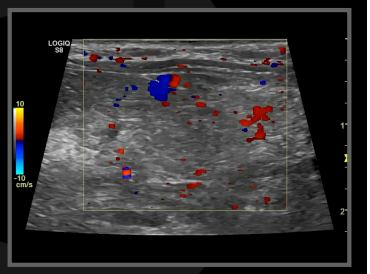

Basco, MI, 3 Months
Probe position in a different patient
0
LOGIQ S8


Basco, MI, 3 Months
Probe position in a different patient
9
LOGIQ S8

Basco, English Setter, MI, 3 Months

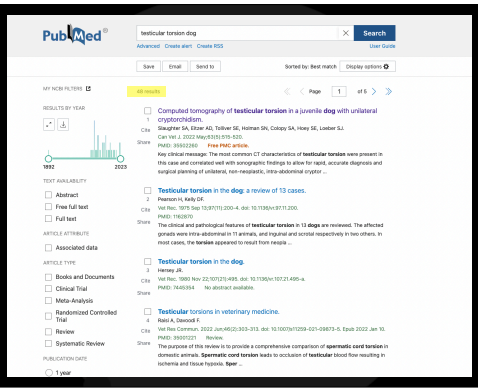
Ultrasonographic diagnoses:

- Poor vascularisation of retained right testicle
- Focal scattering artefact
- Torsional Doppler
- Para-prepuzial left testicle



How to arrive at Conclusions:

- PE examination
- Blood works
- Ultrasonographic findings
- Literature

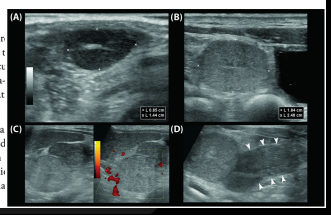


Case Report Rapport de cas

Can Vet J 2022;63:515–520

Computed tomography of testicular torsion in a juvenile dog with unilateral cryptorchidism

Sarah A. Slaughter, Andrew D. Eitzer, Sara E. Tolliver, Sarah N. Holman, Sara A. Colopy, Seamus E. Hoey, Samantha J. Loeber



Abstract — A 14-week-old male unilaterally cryptor
examination revealed abdominal pain, and a single t
computed tomography (CT) revealed a poorly vasc
with scant regional peritoneal effusion. Left intra-
routine cryptorchidectomy was performed. The pat

Key clinical message:
The most common CT characteristics of testicula
sonographic findings to allow for rapid, accurate d
intra-abdominal cryptorchid testicular torsion in
localization of the undescended testis and evaluati
ultrasound for diagnosing testicular torsion, especia

Effects of Unilateral Testicular Torsion on the Blood Flow of Contralateral Testis

An Experimental Study on Dogs

Scand J Urol Nephrol 34: 229–232, 2000

Fatih Tarhan, Mehmet Erkan Erbay, Erhan Erdoğan, Aydın Özgül and Uğur Kuyumcuoğlu

The effects of unilateral testicular torsion on the blood flow of the contralateral testis were investigated. Fourteen adult male dogs were recruited. Seven dogs underwent unilateral testicular torsion of 4 h duration, and the other seven dogs had a control operation. Testicular blood flow was determined by colour Doppler ultrasonography before and after the testicular torsion. Bilateral orchidectomy was performed at the end of the study and histopathological changes were evaluated. Values of peak systolic velocity, end diastolic velocity, and resistive index were not statistically significant between ipsilateral and contralateral testes in the study group ($p > 0.05$). On comparison with the control group, blood flow in the contralateral testes showed no statistically significant difference ($p > 0.05$). Oedema and congestion were seen on ipsilateral testes in the study group. No histopathological changes were noted on the contralateral testes. Minimal oedema and congestion secondary to manipulation were found in the control operation testes. We conclude that unilateral testicular torsion does not decrease contralateral testicular blood flow as shown by colour Doppler ultrasonography.

Basco, English Setter, MI, 3 Months

Conclusions:

- Strong suspicion of torsion of the right, retained, testicle
- Surrounding focal peritonitis

Follow up

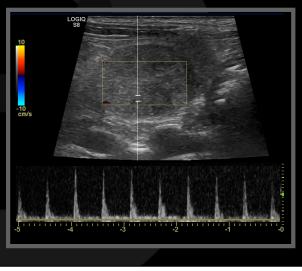
- Planned laparotomy

Basco, English Setter, MI, 3 Months

- Removed the twisted testicle
- Patient recovered in three days

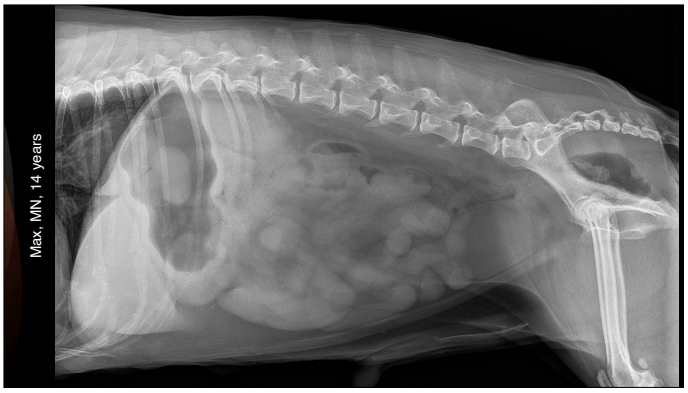
Key Points for testicular torsion

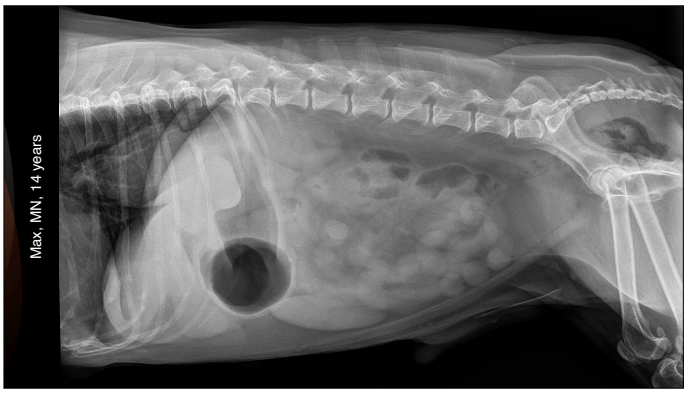
- Oval abdominal mass associated with an elongated hypoechoic structure
- Surrounding peritonitis
- Decreased blood flow in the mass
- +/- Torsional Doppler



Max, Cairn Terrier, MN, 14 years

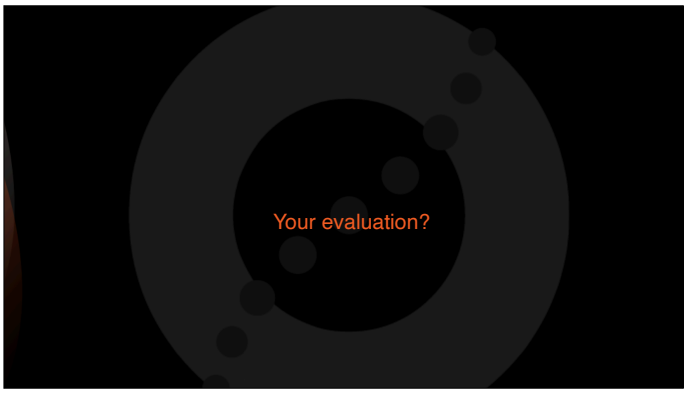
- Vomiting and anorexia
- Trembling episodes
- History of pancreatitis
- Soft brown stool on rectal examination

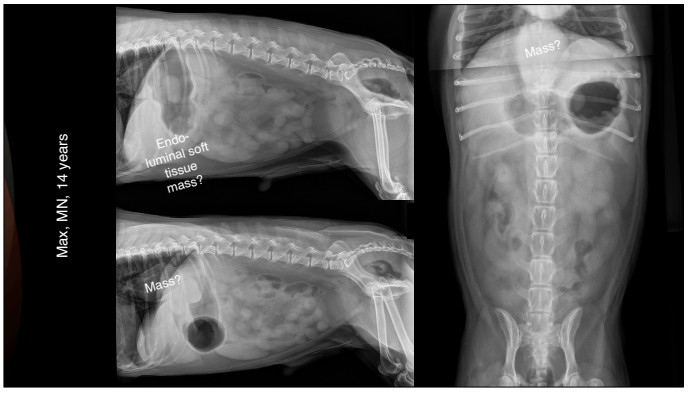

Max, MN, 14 years

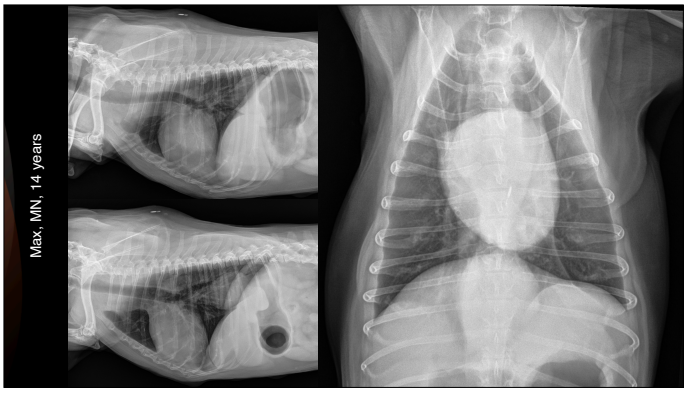

Max, MN, 14 years

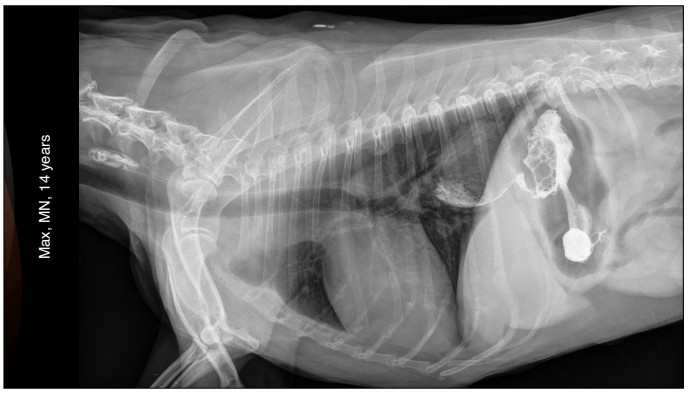

Max, MN, 14 years


Max, MN, 14 years


Your evaluation?


Max, MN, 14 years
Endo-luminal soft tissue mass?
Mass?
Mass?





Max, Cairn Terrier, MN, 14 years

Radiographic diagnoses:

- Caudal oesophageal mass protruding in the gastric lumen

Conclusions

- Endoscopic sampling: adenocarcinoma

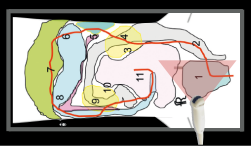
Newton, DSH, FI, 16 years

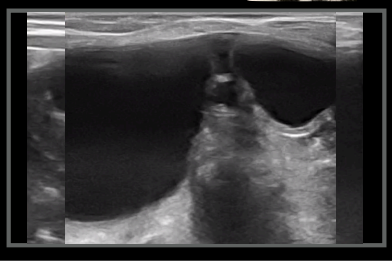
- Distended abdomen
- One episode of vomiting
- Less active
- Indoor only

Newton, FI, 16 years

Another patient, to show the position of the probe

1





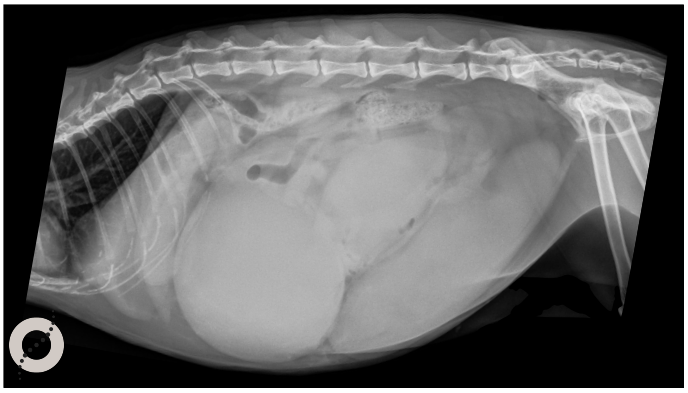
Newton, DSH, FI, 16 years

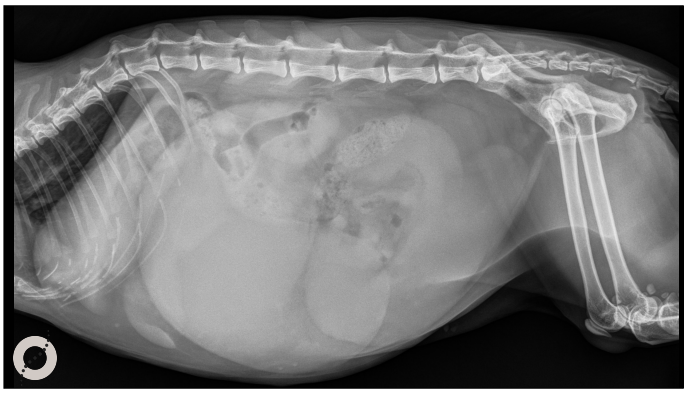
Ultrasonographic diagnoses:

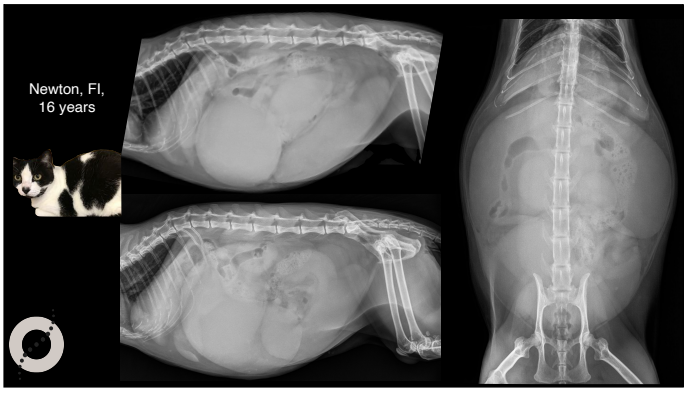
- “Double” urinary bladder, only one has a neck region
- Cystic structure inside a fluid filled structure?
- The kidneys were unremarkable for the age
- Uterus not seen, could be involved?

Conclusions:

- ???
- Pyometra/hydrometra?

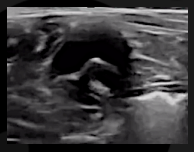


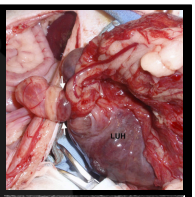


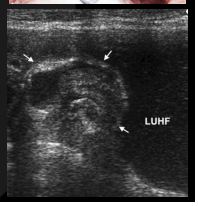

Newton, FI,
16 years

Uterine torsion

- Pregnancy predisposing factor
- One overdistended by fluid horn
- Focal eccentric “lump”





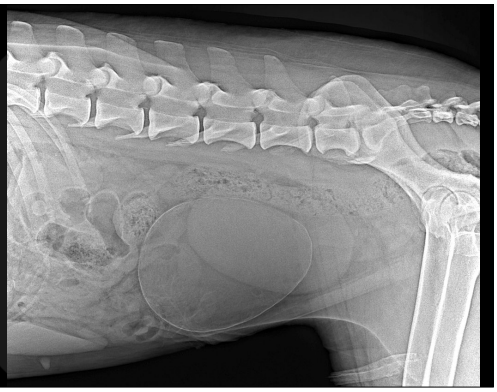


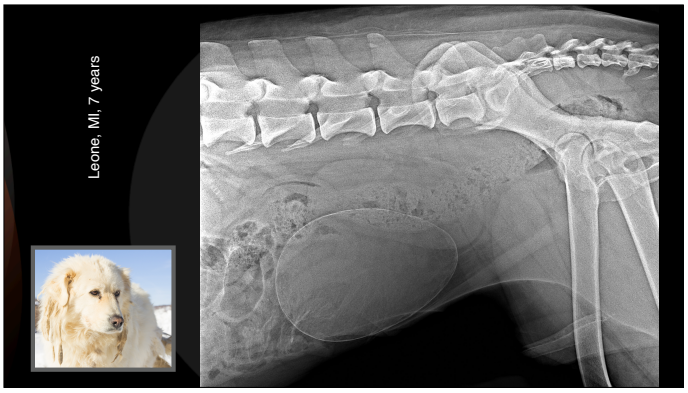
Bilateral segmental aplasia with unilateral **uterine** horn **torsion** in a Pomeranian bitch.
Nakamura K, Yamasaki M, Osaki T, Ohta H, Sasaki N, Aoshima K, Kimura T, Takiguchi M.
J Am Anim Hosp Assoc. 2012 Sep-Oct;48(5):327-30. doi: 10.5326/JAAHA-MS-5771. Epub 2012 Jul 27.
PMID: 22843825

Leone, Maremmano, MI, 7 years

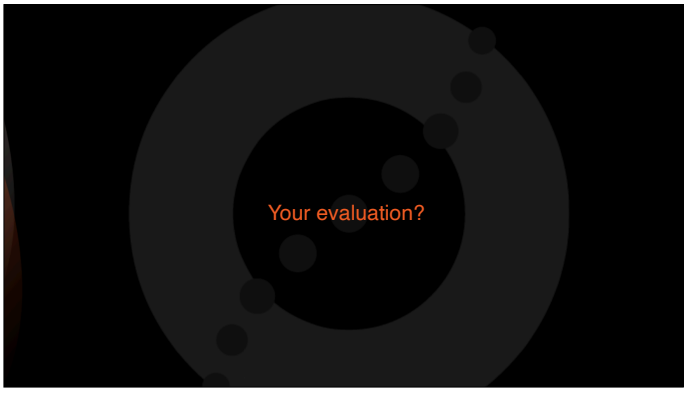
- Urinary incontinence
- Chemically castrated
- Weight loss
- Large mass palpated in the caudal abdomen

Leone, MI, 7 years

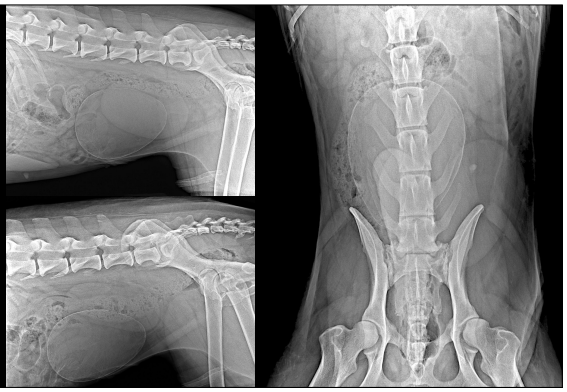



Leone, MI, 7 years


Leone, MI, 7 years


Your evaluation?

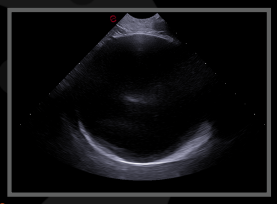
Leone, MI, 7 years



Leone, Maremmano, MI, 7 years

Radiographic diagnoses:

- Oval mineralise structure in the caudal abdomen



Conclusions

- Paraprostatic cyst

PubMed®

mineralized paraprostatic cyst dog

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- 5 years
- 10 years
- Custom Range

TEXT AVAILABILITY

1 Cite Share

Inguinal herniation of a **mineralized paraprostatic cyst** in a **dog**.

Vititoe KP, Grosso FV, Thomovsky S, Lim CK, Heng HG.

Can Vet J. 2017 Dec;58(12):1309-1312.

PMID: 29203942 Free PMC article.

A firm mass was noted in the right inguinal subcutaneous region of an 11-year-old intact male Labrador retriever **dog** presented for right pelvic limb weakness. Pelvic radiographs showed 2 large ovoid structures with circumferential thin eggshell-like **mineralization** i ...

2 Cite Share

Mineralized paraprostatic cyst as a potential contributing factor in the development of perineal hernias in a **dog**.

Head LL, Francis DA.

J Am Vet Med Assoc. 2002 Aug 15;221(4):533-5, 500. doi: 10.2460/javma.2002.221.533.

PMID: 12184704 Free article.

In **dogs** with perineal hernias and tenesmus it is important to include rectal and prostatic diseases, including **paraprostatic cysts**, in the differential list of potential underlying causes. ...Preferred treatment of a **paraprostatic cyst** is surgic ...

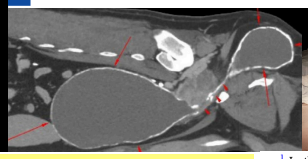
SMALL ANIMALS

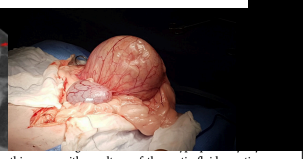
CASE REPORT

Surgical excision and omentalisation of mineralised paraprostatic cysts with concurrent ureteroneocystostomy and perineal herniorrhaphy in a 9-year-old male entire Bearded Collie

WB Moses[a] and AE Tipler[b]

Aust Vet J 2025;103:22–26





Omentalisation should be performed in all cases of paraprostatic cyst resection where possible due to the omental support of local immune function, improvement of lymphatic drainage and promotion of angiogenesis.[30] In this case, histopathology showed evidence of chronic prostatitis which has previously been reported to occur concurrently in dogs with paraprostatic cysts.[4,34] Benign prostatic hyperplasia was also present, which is unsurprising given that up to 95% of intact male dogs have evidence of hyperplasia by 9 years of age.[1] In this case, neither culture of the cystic fluid nor tissue was performed, however, one study reported positive bacterial cultures in 42% of dogs with prostatic cysts.[35] The presence of paraprostatic cysts and underlying benign prostatic hyperplasia may have contributed to development of prostatitis. Prostatitis can lead to cystitis, and the presence of chronic prostatitis and mild urinary incontinence likely contributed to the development of a urinary tract infection in this case.[2,3]

Thank you

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