

# COMPUTED TOMOGRAPHIC APPEARANCE OF GASTROPEXY SITES IN 22 DOGS

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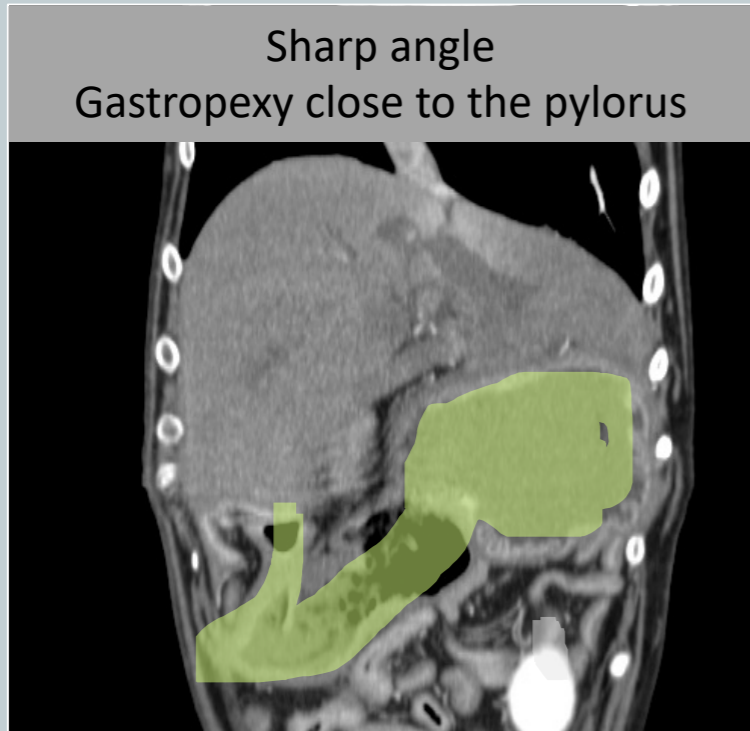
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## AIM

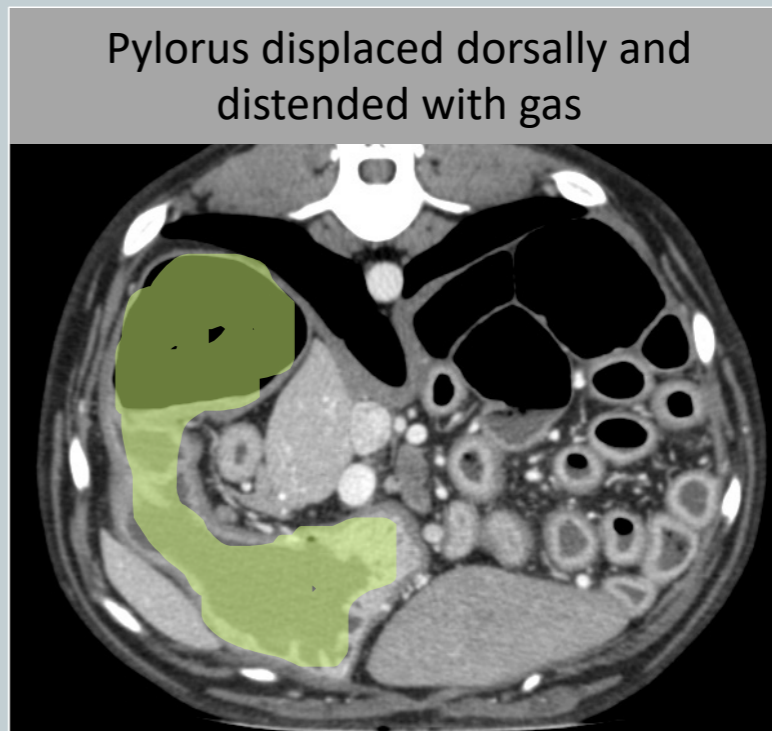
- Description of the CT appearance of gastropexy sites
- Focus on anatomical and potential functional abnormalities

## MATERIAL & METHODS

- Retrospective, observational study design
- Inclusion criteria: prior gastropexy + CT of diagnostic value → 22 dogs



2 groups based on gastric/gastropexy location:  
ANATOMIC (10) vs. NON-ANATOMIC (12)



Examples of abnormal anatomy of the stomach & gastropexy location

- Reason for clinical presentation: Gastrointestinal (9/22)

BOTH GROUPS

## RESULTS

ANATOMIC (A)

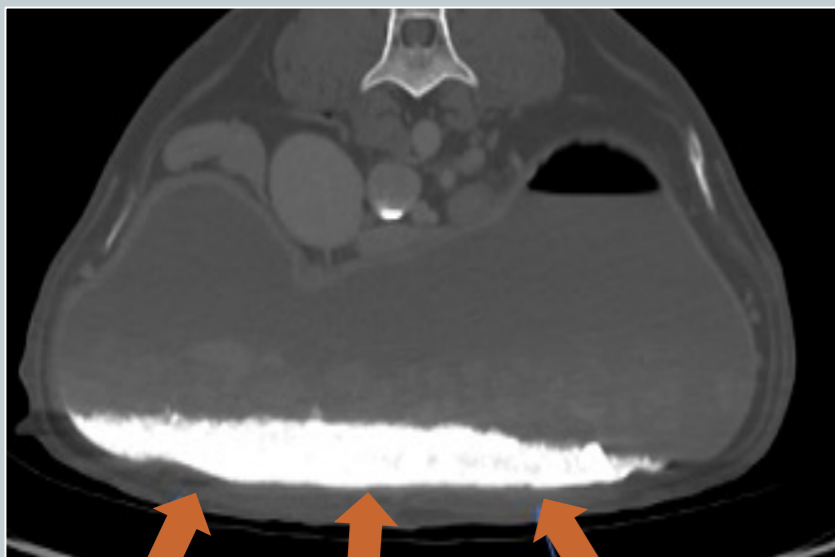
- Various surgical techniques and indications for gastropexy
- Time since gastropexy: 16-1552 days

NON-ANATOMIC (NA)

### STOMACH

Gravel sign (16/22)  
Gastric dilation (7/22)

No association between gastric filling/hyperattenuating material and gastric/gastropexy location

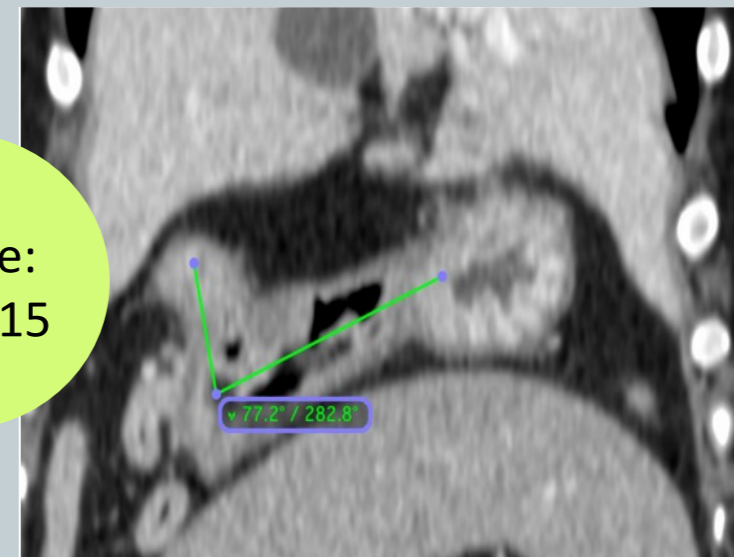


Obtuse gastric angles  
(94 ± 23°)

Significant difference between NA and A  
Significant difference between control group and NA and A  
Control group: 12 dogs of a similar breed and age without gastropexy (123 ± 23°)



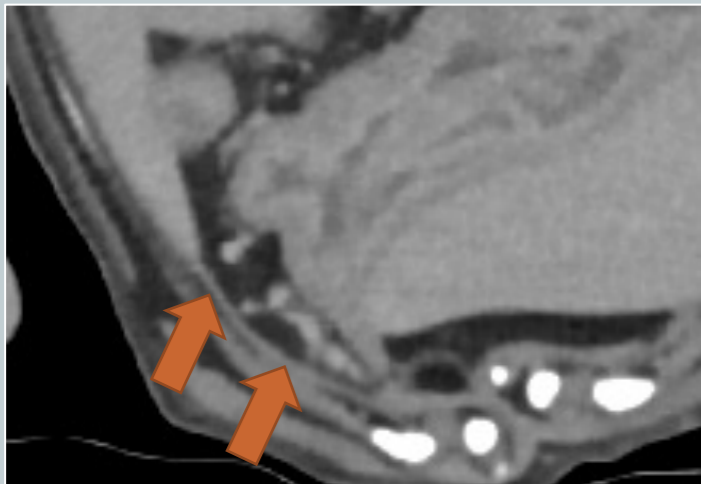
Acute gastric angles  
(52 ± 11°)



### GASTROPEXY SITE

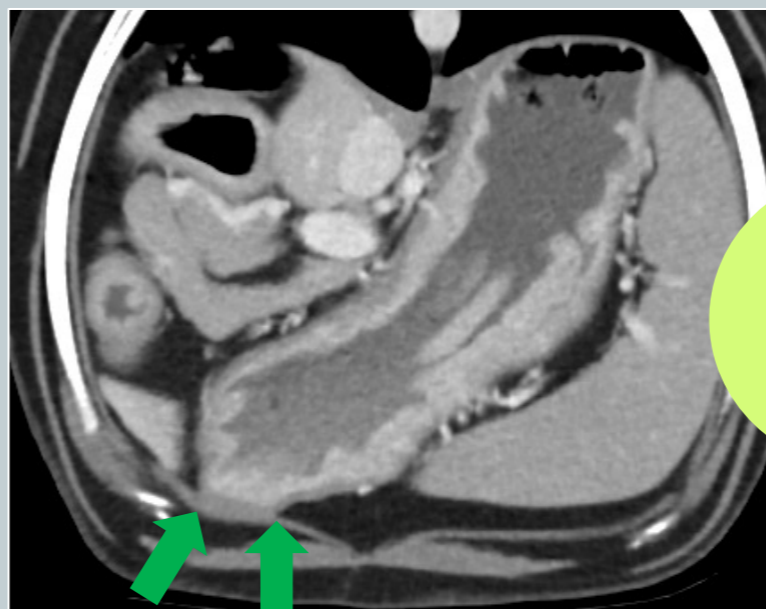
Hypervascularization (15/22)

No association between amount of vessels -and the time since surgery -and gastric/gastropexy location

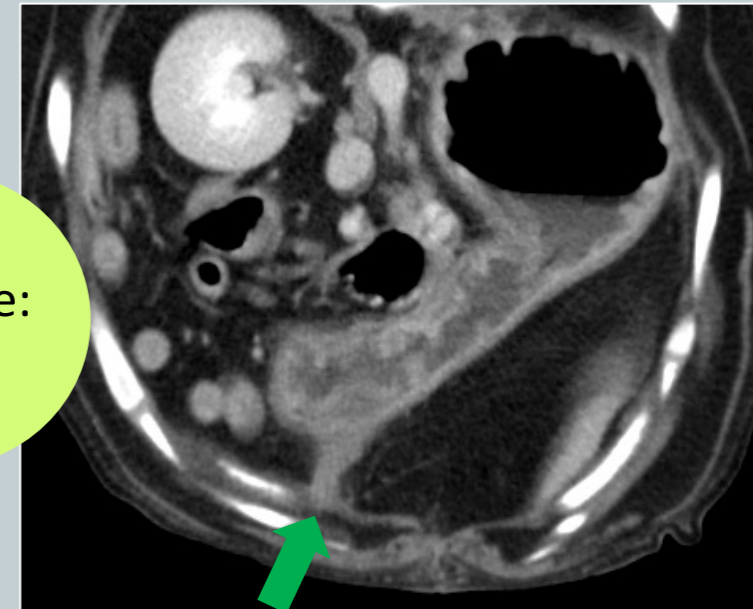


Broad pedicle (8/10)

Significant difference between NA and A



Narrow pedicle (8/11)



Malpositioning of gastropexy → Tension effect on stomach and pedicle → Pedicle gets narrower + acute gastric angles build

## CONCLUSION & DISCUSSION

Attenuation of gastropexy site: mean 36 ± 12 HU  
Slight thickening of the gastric wall (A: 5.6 mm, NA: 5.7 mm) and adjacent muscle (A: 3.7 mm, NA: 4.1 mm)

- ~40% showed gastrointestinal clinical signs; ~54% showed anatomic distortion
- Irrespective of gastric/gastropexy location: hypervascularization, gastric dilation, gravel sign
- Vascularity & thickened gastric wall: frequently observed, not necessarily sign of pathological status or recent gastropexy

- Guide of the normal range of CT appearance of gastropexy sites in dogs
- Common gastropexy locations may result in gastric/pyloric displacement with clinical consequences
- Short & long-term consequences of gastric distortion unknown: further studies required