Sonographic appearance of the gastroduodenal junction in a series of young French Bulldogs with pyloric stenosis

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OBJECTIVES
To evaluate the ultrasonographic appearance of the gastroduodenal junction in a series of young French Bulldogs diagnosed with pyloric stenosis.

METHODS
Retrospective case series of five young French Bulldogs diagnosed with pyloric stenosis in two referral institutions in the UK between March 2012 and October 2014. The ultrasound images of the gastroduodenal junction were retrospectively reviewed, along with clinical, surgical and histopathological data.

RESULTS
All dogs were male and the age at diagnosis ranged from 2 to 8 months (median 4 months). Pyloric stenosis was diagnosed based on typical clinical presentation together with supportive diagnostic imaging and confirmation of a thickened pylorus at coeliotomy. Pyloroplasty was carried out in all cases.

Sonographic findings included eccentric regional thickening of the pyloric mucosa, prominent pyloric mucosal folds, and fine striations within the mucosa at right angles to the luminal mucosal interface. Circumferential muscular hypertrophy was not consistently observed.

STATEMENT
Our findings suggest that an over-exuberance of pyloric mucosal tissue, rather than hypertrophy of the circumferential muscle layer, contributes to pyloric stenosis in this cohort of young French Bulldogs.