Waveform Wonders: Radiology @ Resonant Diagnostic

A Weekly Radiology Odyssey

A 1.5 month old child came with persistent vomiting after each feed and inability to gain weight

USG

Showed typical pyloric wall thickening suggestive of Hypertrophic pyloric stenosis

Diagnostic measurements include

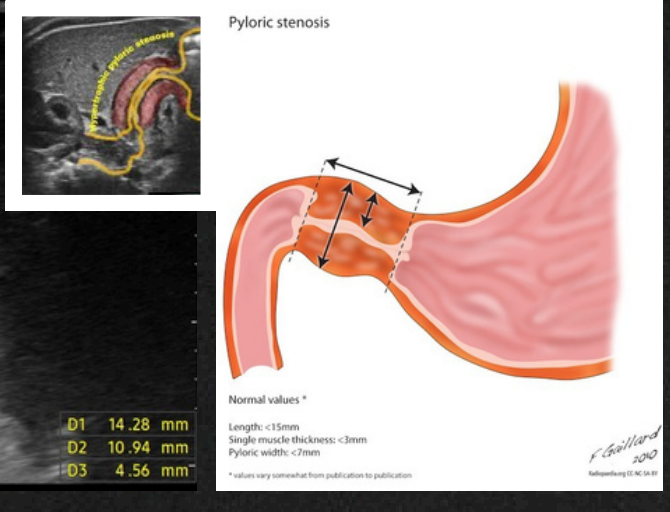
- pyloric muscle thickness, – diameter of a single muscular wall (hypoechoic component) on a transverse image: >3 mm (most accurate)
- length, i.e. longitudinal measurement: >15–17 mm
- pyloric volume: >1.5 cm3`
- pyloric transverse diameter: >13 mm



XRAY

overdistended stomach





- Hypertrophic pyloric stenosis (HPS) – idiopathic thickening of gastric pyloric musculature which results in progressive gastric outlet obstruction.
- While symptoms may start as early as 3 weeks, it typically clinically manifests between 6 to 12 weeks of age. Clinical presentation is typical with non-bilious projectile vomiting. The hypertrophied pylorus can be palpated as an olive-sized mass in the right upper quadrant



SURGERY : Pyloromyotomy in which the pyloric muscle is divided down to the submucosa.