Gas producing infections of abdomen and pelvis: A pictorial review

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Goals and Objectives: Recognize the imaging features of the spectrum of various commonly encountered emphysematous infections of the abdomen and pelvis and their mimics

Target audience: Residents, Fellows, Emergency Radiologists and Physicians.

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**Emphysematous cholecystitis**

- Reverberation artifacts
- Intramural gas, Intraluminal gas, calculi

**Gangrene without perforation**

- Gangrenous area
- Intraluminal air locule

**Gangrene with perforation**

- Focal perforation
- Intraluminal air locule
- Pericholecystic collection

**Emphysematous Gastritis**

- Nodular and irregular collections of gas within the stomach wall

**Emphysematous Pancreatitis**

- Air with in the necrosed pancreas
Emphysematous Pyelonephritis

- Type I Emphysematous PN: Streaky mottled gas collection
- Type II Emphysematous PN: Gas with collections, abscesses

Emphysematous Pyelitis

- Emphysematous Pyelitis: Gas in collecting system

Emphysematous Pyelonephritis in ADPKD: Air-fluid levels, Gas locules in cysts
**Emphysematous Cystitis**

- Intraluminal, intramural, extravesical gas

**Fournier gangrene (FG)**

- Vulval and perineal involvement, Post debridement
- Penile root abscess & evolution into FG
**MIMICS**

**Benign Gastric Emphysema**

**Ischemic gastric pneumatosis, Ischemic bowels, Dissection flap**


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