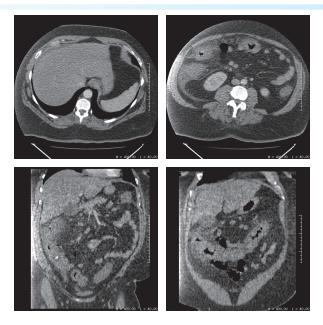
Continued from page 15



Brief overview of the disease

Infectious colitis

Infectious colitis refers to inflammation of the colon due to an infective cause, including bacterial, viral, fungal, or parasitic infections.

In Western countries, bacterial infection is the most common cause, while in developing countries parasitic infection is much more common. Men and women are affected equally by infectious colitis, and the disease can occur in all ages with incidence increasing with age.

Infectious colitis can result from a wide-range of protean etiological agents:

- bacterial (Shigella sp., Salmonella sp., Yersinia, Campylobacter, Staphylococcus, Escherichia coli, Chlamydia trachomatis, Clostridium difficile)
- mycobacterial (tuberculosis: tuberculous colitis)
- fungal (histoplasmosis, mucomycosis, actinomycosis)
- viral (Herpesvirus, Cytomegalovirus, Rotavirus)
- parasitic (amoebiasis, schistosomiasis)

While there can be considerable overlap, the affected segment of the colon, however, may be useful in suggesting a specific organism:

- usually limited to the right colon: Shigella, Salmonella
- diffuse involvement also occurs: Cytomegalovirus, E. coli
- rectosigmoid: *N. gonorrhoea, Herpesvirus,* and *C. trachomatis* (lymphogranuloma venereum)
- involvement is usually confined to the descending and sigmoid colon: schistosomiasis thought to be due to adult worms having a tendency to enter the inferior mesenteric vein

Differential diagnosis

On imaging consider other forms of colitis dependent on the clinical situation, which includes colitis from other causes:

- inflammatory bowel disease (Crohn disease, ulcerative colitis),
- ischemic colitis: usually involves watershed areas, and rarely affects the rectum.
- radiation colitis.

■ RADIOGRAPHIC FEATURES

Imaging features are often not definitive for a particular organism. Ultrasound

Findings on ultrasound include increased symmetrical wall thickening and submucosal echogenicity. On color Doppler, there may be increased mural flow.

If imaging is required, CT is usually the examination of choice. Patients with infectious colitis from any cause typically have wall thickening (this usually demonstrates homogeneous enhancement). Low attenuation regions representing edema may be detected within the wall. Other ancillary findings include:

- ascites
- inflammation of the pericolonic fat
- multiple gas-fluid levels due to increased fluid and fluid feces

■ REFERENCES

- 1. Bell DJ, Weerakkody Y, et al. Infectious colitis. RADIOPAEDIA. Available at: https://radiopaedia.org/articles/infectious-colitis.
- 2. Childers BC, Cater SW, Horton KM, Fishman EK, Johnson PT. CT Evaluation of Acute Enteritis and Colitis: Is it Infectious, Inflammatory, or Ischemic? Resident and Fellow Education Feature Available at: https://pubs.rsna.org/doi/full/10.1148/rg.2015150125.
- 3. Jacobs JE, Bimbaum BA. CT of inflammatory disease of the colon. Semin. Ultrasound CT MR. 1995;16: 91-101.
- 4. Gore RM, Miller FH, Yaghmai V, Berlin JW, Newmark G. Inflammatory conditions of the colon. Semin Roentgenol. 2001;36: 126-37.

Answer to Radiographic

777 QuZ

Infectious colitis caused by Shigellosis.

DIAGNOSIS

and areas of low attenuation due to edema. There is inflammation of the pericolonic fatty tissues.

colon (ascites)

There is irregular wall thickening of the right large intestine from the cecum to the distal aspect of the transverse colon revealing contrast enhancement

There is minimal amount of intraperitoneal fluid located in the right sub-diaphragmatic area and in the right iliac fossa adjacent to the ascending

DESCRIPTION OF THE IMAGES

α	
uia	

sisohmis sitaq9H____

Peritoneal carcinomatosis

sitilos suoitos ful—X—

What is the most likely diagnosis?

snoitəəfaI_X_

əilodatəm/əixoT___

oitsplqo9V_

Congenital ____

What is the most likely etiology of the abnormality?

əsp<u>ə</u>_X

әплТ ____

There is evidence of diverticular disease

əsp<u>ə</u>_X

ənii ____

There is evidence of pneumoperitoneum

əs_lp_H

 $\partial n \iota L X$

sasof asili thgir edt ni bns

There is a small fluid collection adjacent to the tip of the liver

ənitestini llam2_

ənitsətni əgrad<u>.</u>X_

muənotiri qortə A_

ToviJ

Where is the abnormality located?

