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Published In/Presented At

Malik, A. Vaze, R. Buckshaw, R. Nellis, E. Shah, H. (2019, October 25). *A Case of CMV Colitis Seen in DRESS*. Poster Presented at: American College of Gastroenterology, San Antonio, Texas.

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A Case of CMV Colitis Seen in DRESS

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Introduction

- Cytomegalovirus (CMV) is a member of the family of herpes virus, which persists for life after a primary infection.
- It is known to cause colitis in both immunocompromised and immunocompetent hosts.
- CMV enters a latency phase after initial infection.
 Reactivation can occur anywhere along the gastrointestinal tract. The colonic mucosa is the most common site of reactivation.
- Clinical, endoscopic, and histological appearance of CMV colitis can mimic inflammatory bowel disease.

It is important to recognize
the risks of long term
medical treatment with
immunomodulatory drugs
such as leflunomide or
corticosteroids, including local
reactivation of a latent virus.

Case Description

A 59-year-old female with rheumatoid arthritis on chronic steroids and recently prescribed leflunomide presented with a diffuse rash, stomatitis, eosinophilic dominant leukocytosis, and severe diarrhea. A skin biopsy confirmed the diagnosis of drug reaction with eosinophilia and systemic symptoms (DRESS). The patient's diarrhea worsened despite negative comprehensive stool panel, clostridium difficile toxin and stool ova/parasites. A CT abdomen revealed diffuse colitis, and as a result the patient underwent flexible sigmoidoscopy showing circumferential colitis with ulcerations (Figure 1). Biopsies taken from the distal colon confirmed Cytomegalovirus (CMV) by viral inclusion bodies seen on hematoxylin-eosin staining (Figure 2). The patient was initiated on IV ganciclovir, however expired after developing septic shock.

Discussion

- Gastrointestinal (GI) disease caused by CMV is diagnosed on the presence of clinical symptoms, viral inclusion bodies on biopsy, and endoscopically visualized ulcers.
- The most common sites of CMV related GI involvement is the esophagus and colon.
- Biopsy with immunohistochemical testing using monoclonal antibodies against CMV is considered the gold standard (Figure 3). Owl's eye inclusion bodies on staining are highly specific for infection with CMV.
- The gastrointestinal tract is thought to contain latent CMV after a primary infection.
- This case highlights the importance of recognizing the risks of long term medical treatment with immunomodulatory drugs such as leflunomide or corticosteroids, including local reactivation of a latent virus as in our patient.



Figure 1: Flexible sigmoidoscopy reveals extensive ulcerations in the descending colon.

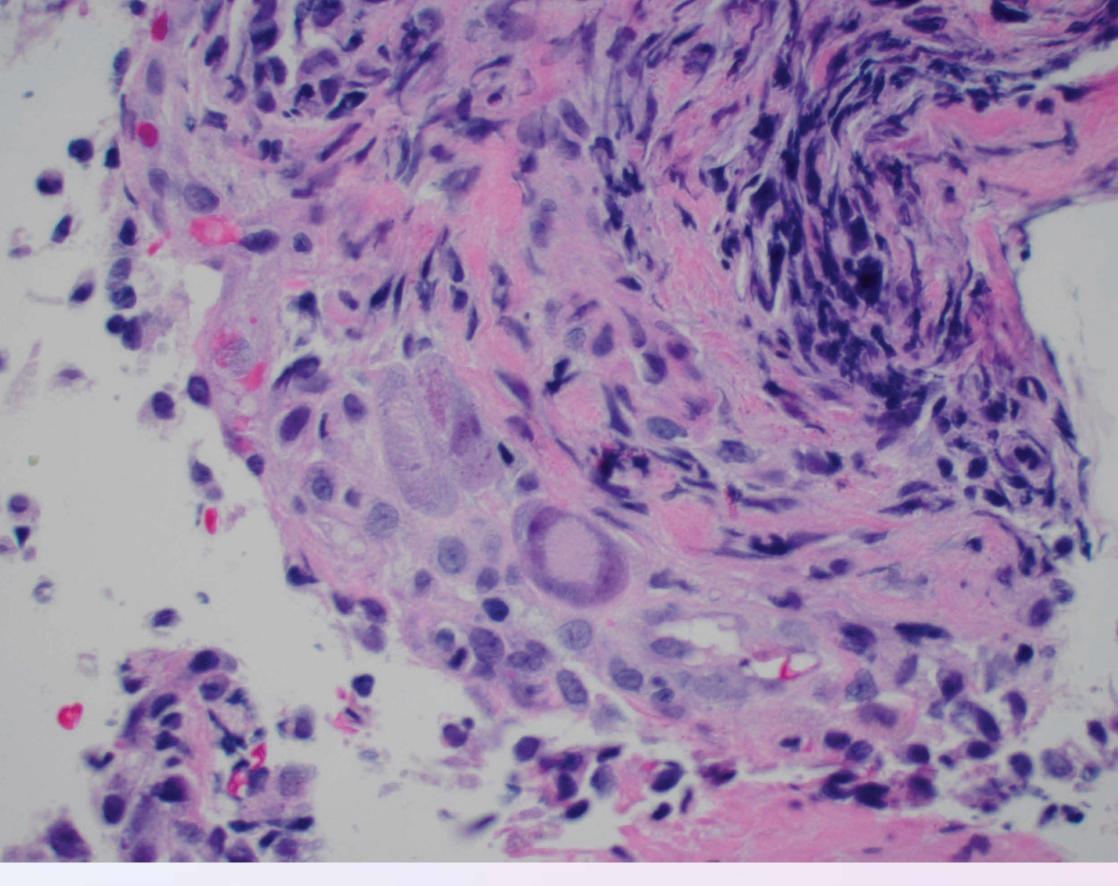


Figure 2: Histologic study of a biopsy specimen shows viral inclusions characteristic of cytomegalovirus (hematoxylin-eosin, × 600).

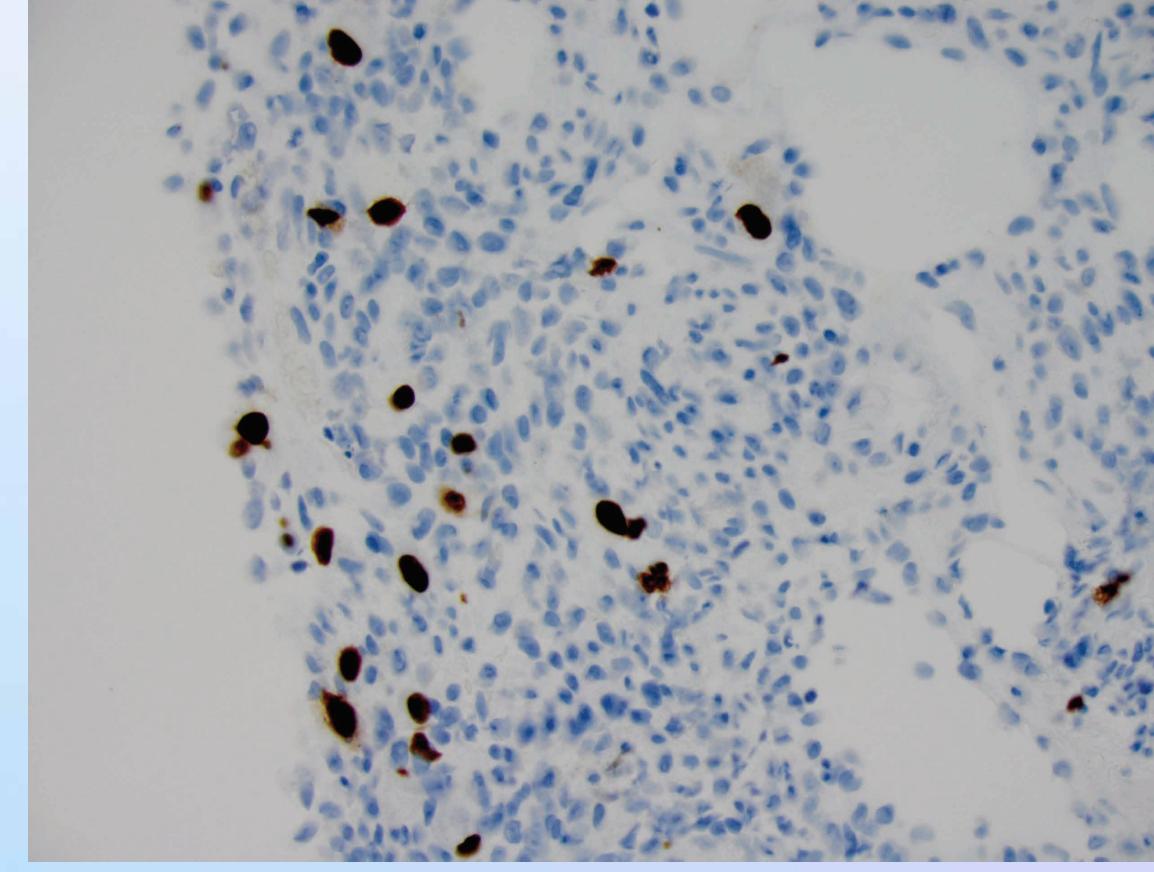


Figure 3:
Immunohistochemical staining of the biopsy specimen

