

# Practice Guidelines

## Acute Diverticulitis: Diagnosis and Treatment Recommendations From the ACP

### Key Points for Practice

- In patients with suspected acute left-sided colonic diverticulitis, abdominal contrast CT has high sensitivity and specificity and is recommended if there is diagnostic uncertainty.
- Uncomplicated diverticulitis in patients with no risk factors for complicated diverticulitis can be managed in the outpatient setting with medical supervision if they can drink fluids, have social support, and wish to avoid admission.
- In patients with uncomplicated diverticulitis and no risk factors for complicated diverticulitis, antibiotic treatment does not affect quality of life or reduce related complications or need for surgery, although it may slightly decrease the likelihood of ongoing diverticulitis.

From the *AFP* Editors

**Acute colonic diverticulitis** is the inflammation of abnormal colonic outpouchings and is most common in the left colon in Western countries. An estimated one out of 10 cases of diverticulosis develops into acute diverticulitis and one in eight cases develops into acute diverticulitis complicated by abscess, phlegmon, fistula, obstruction, bleeding, or perforation. There are approximately 200,000 hospitalizations per year for acute diverticulitis in the United States. The American College of Physicians (ACP) performed a systematic review to determine the most effective diagnosis and management options for acute left-sided colonic diverticulitis.

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This series is coordinated by Michael J. Arnold, MD, contributing editor.

A collection of Practice Guidelines published in *AFP* is available at <https://www.aafp.org/afp/practguide>.

**CME** This clinical content conforms to AAFP criteria for CME. See CME Quiz on page 127.

**Author disclosure:** No relevant financial relationships.

### Diagnostic Imaging

Abdominal computed tomography (CT) with oral, intravenous, or rectal contrast is the most effective imaging modality (94% sensitivity and 99% specificity) for suspected diverticulitis. There may be a benefit to CT evaluation over clinical diagnosis alone to improve management, and abdominal CT is recommended if there is diagnostic uncertainty for suspected acute left-sided colonic diverticulitis. CT imaging is particularly useful if there are risk factors for progression to complicated diverticulitis, which is defined as signs of perforation, bleeding, obstruction, or abscess. When CT is not available, abdominal ultrasonography may be considered. Studies suggest that diverticulitis that is missed on CT rarely causes clinical harm.

Harms associated with CT include incidental findings, radiation exposure, and adverse effects of contrast. Up to 9% of adults who undergo CT for suspected diverticulitis have incidental findings requiring further workup. The clinical effect of these harms is unclear.

### Need for Hospitalization

For patients with uncomplicated diverticulitis who can drink fluids, want to avoid admission, and have social support, there is no evidence that hospitalization improves the outcomes of future elective surgery or risk of recurrence. The impact of hospitalization on treatment failure, quality of life, and mortality is unknown. Most patients with uncomplicated disease may be managed in an outpatient setting. Outpatient management has not been evaluated for patients with complicated diverticulitis or who have risk factors for complicated diverticulitis (*Table 1*).

### Antibiotics

For patients with uncomplicated diverticulitis, the ACP recommends a trial of supportive care that includes bowel rest and hydration. In these patients, complication rates, quality of life, need for surgery, length of hospital stay, and long-term recurrence are similar whether antibiotics are

## G-TRUST GUIDELINE SCORECARD

Score	Criteria
Yes	Focus on patient-oriented outcomes
Yes	Clear and actionable recommendations
Yes	Relevant patient populations and conditions
Yes	Based on systematic review
Yes	Evidence graded by quality
Yes	Separate evidence review or analyst in guideline team
Yes	Chair and majority free of conflicts of interest
Yes	Development group includes most relevant specialties, patients, and payers
Overall – useful	

**Note:** see related editorial, Where Clinical Guidelines Go Wrong, at <https://www.aafp.org/gtrust.html>.

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given or not. Antibiotics may slightly decrease the likelihood of ongoing diverticulitis or short-term recurrence.

Patients with complicated diverticulitis or risk factors for complicated diverticulitis should receive antibiotics. The best antibiotic regimen for diverticulitis is unknown.

### Uncertainties

Most studies were performed in the emergency department and not in a primary care setting. No studies compare the additional value of CT in refining a clinical diagnosis of diverticulitis. The accuracy of CT to diagnose colorectal cancer in patients suspected to have diverticulitis is not known.

The harms of antibiotic therapy, including nosocomial infection, *Clostridioides difficile* infection, and antibiotic resistance, were not reported in the available studies.

In complicated diverticulitis, the benefit of percutaneous drainage is uncertain. The few

TABLE 1

### Risk Factors for Progression to Complicated Diverticulitis

Computed tomography findings of pericolic extraluminal air, fluid collection, or longer inflamed colon segment  
C-reactive protein level greater than 14 mg per dL (140 mg per L)  
Immunosuppression  
Recent or current antibiotic use  
Signs of sepsis or systemic inflammatory response syndrome  
Symptoms for more than five days  
Systemic or unstable comorbidity  
Vomiting

observational studies had uncertain outcomes and did not report procedural adverse events.

The views expressed are those of the authors and do not necessarily reflect the official policy or position of the U.S. Department of the Navy, U.S. Department of the Air Force, Uniformed Services University of the Health Sciences, U.S. Department of Defense, or the U.S. government.

**Editor's Note:** Although the evidence is somewhat limited, it is important to know that uncomplicated diverticulitis without risk factors is simple to treat. Imaging is not required if the clinical diagnosis is certain. Outpatient treatment without antibiotics has similar outcomes as admission or prescribing antibiotics.—Michael J. Arnold, MD, Contributing Editor

**Guideline source:** American College of Physicians

**Published source:** *Ann Intern Med.* March 2022; 175(3):399-415

**Available at:** <https://www.acpjournals.org/doi/10.7326/m21-2710>

**Sajeewane M. Seales, MD, MPH, FAAFP**

Uniformed Services University of the Health Sciences  
Bethesda, Md.  
Email: [Sajeewane.seales@usuhs.edu](mailto:Sajeewane.seales@usuhs.edu)

**Andre L. Jones, MD**

Naval Hospital Jacksonville  
Jacksonville, Fla.

**Katharine L. Neff, DO**

David Grant USAF Medical Center  
Fairfield, Calif. ■