

JOINT EVENT

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&

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Correlation of computed tomography with endoscopy in the evaluation of patients with asymptomatic iron deficiency anemia**Yusuf Gunay and Emrah Caglar**
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Background & Aim: Chronic gastrointestinal blood loss is the leading cause of iron deficiency anemia in adult patients. Although Abdominal Computed Tomographic (ACT) scanning is more accurate than endoscopy in the evaluation of mural and extraintestinal abnormalities of the Gastrointestinal System (GIS), its usefulness in the evaluation of iron deficiency anemia is debated. The aim of our study was to investigate the concordance between endoscopy and ACT scan in the evaluation of asymptomatic adult patients with iron deficiency anemia.

Materials & Methods: Laboratory studies included complete blood count, and total iron-binding capacity. Patients underwent endoscopy (colonoscopy, esophagogastroduodenoscopy), and ACT.

Result: Eighty four patients (38 men and 46 women) with the mean of age 60.7 (range: 19-83) years met the inclusion criteria of asymptomatic iron deficiency anemia. The mean hemoglobin level was 9.8 ± 1.7 g/dL. The concordance between ACT and endoscopy was found in 33 (39.3%) patients. The most common lesions identified in CT and then confirmed with endoscopy were GIS wall thickness or tumor, diverticule and hiatal hernia. ACT detected some superficial mucosal lesions as stomach or colon wall thickness which were confirmed with endoscopy such as chronic gastritis and duodenitis, large colonic polyps and small malignant tumor.

Conclusion: This study suggests that ATC may be useful in patients with iron deficiency anemia without gastrointestinal symptoms. ACT has a good concordance with endoscopy for the detection of gastrointestinal lesions, and has the advantage in locating lesions prior to endoscopy.

Biography

Yusuf Gunay, MD graduated from Ankara University Medical School in 1999 and then completed a General Surgery Residency at Ankara Numune Hospital, Ankara, Turkey. He then completed his first Abdominal Transplant Surgery Fellowship at The Ohio State University in 2010 and followed by MIS Fellowship at University of Iowa in 2011 and the second Abdominal Transplant Surgery Fellowship at University of Pittsburgh Medical Center in June 2017. Currently, he is an Assistant Professor at Bulent Ecevit University, Zonguldak, Turkey. He has many publications mainly in Abdominal Transplant Surgery.

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