# Gurvitis syndrome: the dark shade of hematemesis

► Table 1 Blood work-up upon admission.	
Result	
22600	
89.3	
117000	
9.6	
104	
1.8	
2.7	
85	
2.4	
1.8	
242	
848	
1.32	
16.3	



► Fig. 1 Proximal esophagus with circumferential lesions and minimal necrotic tissue.

Gurvitis syndrome, also known as acute esophageal necrosis (AEN) or "black esophagus," is a rare syndrome characterized by necrotic lesions affecting the mucosa and submucosa, mainly in the distal part of the esophagus. Prevalence is 0.2% and incidence is 0.01% - 0.0125%among Caucasians [1,2].



**Video 1** Endoscopic aspect of Gurvitis syndrome highlighting the circumferential necrotic lesions, which are more severe in the distal esophagus, and sharp transition to normal mucosa at the gastroesophageal junction.

A 63-year-old man who was a chronic smoker presented with a 12-hour history of hematemesis, increased abdominal girth, and weight loss (5kg in the previous month). His medical history included biopsy-proven tubular adenocarcinoma liver metastases of unknown origin, which had been diagnosed 9 months prior to presentation and was treated with a 5-month course of chemotherapy with nanoparticles of gemcitabine and cisplatin as part of a clinical trial. Two months prior to presentation, the patient underwent two sessions of FOLFIRI (folinic acid, fluorouracil, irinotecan) as second-line chemotherapy. There was no history of corrosive intake or alcohol in the past. At admission the patient was hypotensive, with palpable liver margin and ascites. Blood work was modified as shown in > Table 1. Abdominal ultrasound showed ascites, liver metastasis, and splenomegaly. Esophagogastroduodenoscopy showed AEN, circumferential black discoloration with sharp distal transition to normal mucosa at the gastroesophageal junction, starting from the superior esophageal sphincter (> Fig. 1),

which was more severe in the distal third of the esophagus (> Video 1), and a bulbar ulcer. Esophageal biopsies were not done, as these are not required for diagnosis [2].

The patient was kept nil-per-os, started on aggressive resuscitation with intravenous fluids, and given proton-pump inhibitor and broad-spectrum antibiotics. His condition did not improve, with acute liver failure and severe coagulopathy (international normalized ratio 6.8), worsened neurological status, hypoglycemia, and finally death by cardiorespiratory arrest after 4 days. Mortality rate is high (30% - 50%) and related to severe co-morbidities, as the death rate due to AEN is only 6% [3,4].

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## **Competing interests**

None

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### **Bibliography**

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