Atypical Herpes Esophagitis

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Abstract
Esophageal herpes viral infections are rare condition that have been reported most frequently in immuno-compromised patients. This infection primarily affects patients with human immunodeficiency virus (HIV) and patients receiving immunosuppressants or chemotherapy. The severity of symptoms is related to the degree of esophageal involvement. Odynophagia is the most common clinical presentation while the most common endoscopic finding is multiple well-circumscribed ulcers. These typically occur in the distal third of the esophagus. Standard treatment is oral acyclovir for one to two weeks.

Keywords
Herpes esophagitis, herpes simplex virus type I, immunosuppression.

Case report

INTRODUCTION
Infectious esophagitis is relatively uncommon, but it can lead to increased morbidity and mortality in immune compromised when it is not accurately diagnosed (1). This condition is most often seen in immunocompromised patients whose resistance has been altered by various conditions (1, 2). Immune deficiencies, malignancies, severe infections and use of immunosuppressive drugs, broad spectrum antibiotics and/or chemotherapy are some of the conditions associated with the risk of developing this condition (2, 3).

Candida albicans, with a reported prevalence of up to 93%, is by far the most common etiology in these patients (2, 5). Herpes Simplex virus type I (HSV 1) is the next most common cause although it accounts for only 0.5% to 6% of the cases. It is followed by cytomegalovirus which accounts for just 0.02% of cases (1, 3, 6). Other pathogens including Aspergillus, Blastomyces, Cryptococcus, Histoplasma, Mycobacterium tuberculosis, Actinomycetes, and Varicella Zoster are part of the wide variety of opportunistic microorganisms that have been reported (6-8).

Esophageal herpes virus infections are rare and are most often seen in immunocompromised patients. It has been reported that the occurrence of herpes esophagitis (EH) is mainly due to reactivation of a previous viral infection and occurs less often as a primary infection. When it is a primary infection, HSV 1 is usually responsible (2, 8, 9).

This article presents a case of esophageal herpes in a patient who had been receiving chemotherapy for breast cancer at the Fundación Universitaria Clínica Colombia.
At the beginning, she developed severe upper gastrointestinal tract symptoms with insidious onset that at first was attributed to and treated as esophagitis Candida.

**CLINICAL CASE**

The patient was a 42 year old woman who had been diagnosed with stage IV breast cancer which had metastasized to her bones, liver and brain. She had been receiving palliative chemotherapy and radiation therapy before she came to the emergency department after 20 days of difficulty swallowing both solid foods and liquids, choking and vomiting. An examination showed that the patient was hemodynamically stable, lucid, dehydrated and cachectic. Her oropharyngeal examination was normal. Paraclinical tests showed no biochemical alterations or inflammation. Upper digestive tract endoscopy was interpreted as Candida esophagitis predominantly in the middle third of the esophagus (Kodsi’s grade III for esophageal candidiasis) (Figure 1). Biopsies of lesions were taken for histopathological examination. The gastroesophageal junction, stomach (corpus, antrum and pylorus) and duodenum were found to be without pathologies.

During the interview with the patient it was evident that the patient had again been suffering from dysphagia and vomiting for 72 hours despite continuing oral fluconazole but had not come to the hospital.

The patient refused to have another endoscopic examination. She was admitted to the hospital and comprehensive palliative treatment was started, but she subsequently died of liver failure due to metastasis of her cancer.

Following the patient’s death, histopathological studies presented conclusive evidence that she had suffered from esophageal herpes (Figure 2).

**DISCUSSION**

EH was first identified in 1940 by Johnson (3, 10), but the first histopathological descriptions were provided by Pearce and Dagradi in 1943 (3, 11).

The clinical presentation of EH is similar in healthy and immunocompromised patients. The most frequently found symptom is odynophagia which is found in between 60% and 80% of these patients (6, 12, 13). This is followed by chest pain (46% to 50%) and fever (44%) (12, 13). It is rare to find oropharyngeal or skin lesions in physical examinations. Oropharyngeal lesions have been reported in up to 20% of patients, and skin lesions have been reported in up to 13% of patients (12, 13).

Upper endoscopy plays a key role in diagnosis of EH because it allows the physician to see lesions and take biopsy samples at the same time. Regardless of the state.
of the patient’s immune system, the most common endoscopic finding is multiple well-circumscribed ulcers (59% to 66%) (6, 12, 14). They are usually in friable esophageal mucosa (84%) (13, 14) and are often accompanied by whitish exudates (44%) (12). The most common location of EH lesions is in the lower third of the esophagus (63% to 80%) (12). Nevertheless, in up to 15% of the time, they affect the entire esophagus and in 2% of the patients lesions even affect the stomach (6, 10, 15).

Histologically the EH is primarily characterized by the multinucleated giant cells, ballooning degeneration, Cowdry Type A inclusion bodies, intranuclear “ground glass” and marginalization of chromatin (2, 8, 10, 12, 13).

In our case, the diagnosis was made histologically. Although the patient belonged to a high risk group for EH, her condition was secondary to immunosuppression related to treatment for cancer, had a nonspecific clinical presentation, and the endoscopic findings were highly suggestive of a Candida infection which is more frequently found in immunosuppressed patients. A similar case was reported at the Case University Hospital in Cleveland, Ohio in 2005. The patient had colon cancer which had metastasized. The initial endoscopic diagnostic was Candida esophagitis, but pathology subsequently reported characteristic findings for EH (16).

CONCLUSION

EH is rare but should be considered in immunocompromised patients with esophageal symptoms. Moreover, although endoscopic diagnosis can be highly suggestive of another entity, it must always be checked against the histopathological diagnosis.

REFERENCES