A 58-year-old man presented to the family medicine clinic with several months of weight loss and difficulty swallowing. He reported that solid foods were “getting stuck” in his throat. He had no relevant medical history, and physical examination findings were normal. Contrast esophagography was performed as an outpatient (Figures 1 and 2).

Question
Based on the patient’s history and radiologic findings, which one of the following is the most likely diagnosis?

- A. Esophageal web.
- B. Killian-Jamieson diverticulum.
- C. Meckel diverticulum.
- D. Traction diverticulum.
- E. Zenker diverticulum.

See the following page for discussion.
The answer is E: Zenker diverticulum. A Zenker diverticulum is an uncommon posterior herniation of hypopharyngeal mucosa. It occurs through an area of weakness between the inferior pharyngeal constrictor and the cricopharyngeus muscles known as the Killian triangle. The pathogenesis is unclear, but the condition is thought to result from incomplete opening of the upper esophageal sphincter, which causes increased hypopharyngeal pressures and resultant protrusion. Dysphagia, cough, halitosis, and regurgitation of food are common. A Killian-Jamieson diverticulum occurs in the upper cervical esophagus and protrudes from the anterolateral aspect of the esophagus through an area inferior to the cricopharyngeus muscle. It may cause dysphagia, cough, or aspiration.

A Meckel diverticulum is a congenital, usually ileal outpouching from persistence of the omphalomesenteric duct and is not associated with the esophagus. It is commonly described using the rule of twos, in which the diverticulum is typically located 2 ft from the ileocecal valve, presents before two years of age, and is found in 2% of the population. A Meckel diverticulum may become acutely inflamed or result in gastrointestinal bleeding or bowel obstruction.

A traction diverticulum is an outpouching of the esophagus that develops because of pulling from adjacent inflammatory changes. It is more common in the mid-thoracic esophagus because of adjacent mediastinal, hilar, or pulmonary pathology. Dysphagia and regurgitation may occur.

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REFERENCES