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UNUSUAL PRESENTATION OF INFECTION BY HELICOBACTER PYLORI: GASTRITIS

ASSOCIATED WITH RUSSELL BODIES, INFREQUENT AND POORLY UNDERSTOOD

PATHOLOGY

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Dear Editor,

Russell body gastritis (RBG) is a rare benign disease that can be confused with

immunocytic neoplasms (1). It is characterized by the accumulation of plasma cells in the

gastric mucosa that contain Russell bodies (RB) (1,2).

Case report

The case is a 36-year-old woman who presented as an outpatient complaining of

epigastric pain with an evolution of six months.

Esophagogastroduodenoscopy (EGD) showed nodular antral gastritis. Antrum biopsies

showed non-diffuse severe atrophy, chronic active gastritis with plasma cells and Russell

bodies inside associated with Helicobacter pylori (HP) +++/+++. Immunological staining of

the infiltrating cells was positive for CD138 as well as both K and λ light chains, verifying

the non-neoplastic origin of these cells, and thus confirming the diagnosis of GCR.

The patient underwent HP eradication treatment and her symptoms were resolved.

Endoscopic and histopathological controls were performed at nine months, showing a marked improvement compared to the previous study.

Discussion

RBG was described in 1998 (3), and is a rare entity characterized by intramucosal accumulation of plasma cells containing RB. These cells, also called Mott cells, are the result of overstimulation of plasma cells by an antigen, possibly associated with HP infection. This results in the intracytoplasmic accumulation of undegraded immunoglobulins condensed in the endoplasmic reticulum (1,4). These characteristics can be confused with neoplasia type lymphoplasmacytic lymphoma, MALT lymphoma with plasma cell differentiation, plasmacytoma or even signet ring cell adenocarcinoma, among other pathologies. Therefore, a diagnosis should be made with immunohistochemistry techniques (2).

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