Extragastric MALT lymphoma
A C Wotherspoon

A case of mucosa associated lymphoid tissue (MALT) lymphoma of the oesophagus, diagnosed and treated by endoscopic mucosal resection

A pproximately 40% of all non-Hodgkin's lymphomas occur in extranodal locations. The majority are of the diffuse large B cell type but extranodal marginal zone B cell lymphoma of mucosa associated lymphoid tissue (MALT lymphoma) is the commonest extranodal small B cell non-Hodgkin's lymphoma. Approximately 37% of extranodal lymphomas occur in the gastrointestinal tract and oesophagus.1 The commonest site is the stomach (23% of extranodal lymphomas) followed by the small intestine (7.5%) and the colo-rectum (5.5%).2 Primary lymphoma of the oesophagus is very rare accounting for only three cases in a series of 1467 reported by Freeman and colleagues.3 The majority of lymphomas that have been reported in the literature date from before the advent of current knowledge about MALT lymphoma, its pathogenesis, molecular genetics, and treatment but in this issue of *Gut*, Hosaka and colleagues4 describe in detail a case of primary oesophageal lymphoma, diagnosed and treated by endoscopic mucosal resection. page 281. Their case illustrates several interesting issues in the biology and treatment of MALT lymphomas.

The initiating step in the pathogenesis of MALT lymphoma at all sites is the acquisition of organised lymphoid tissue. This will have the characteristic features of MALT with a germinal centre, mantle and marginal zone, plasma cell differentiation, and an associated T cell component. B cells may infiltrate epithelial structures, if present, to mimic a lymphoepithelial pattern similar to that seen in native MALT in Peyer's patches. In the majority of cases in the stomach (but not all) the stimulus for acquisition of MALT is *Helicobacter pylori* infection.1 In the small intestine an infective organism is also implicated, as immunoproliferative small intestinal disease will also respond well to local resection. Indeed, local resection was the mainstay for gastric MALT lymphoma management in many centres before the role of *H pylori* had been elucidated and may still be used for MALT lymphomas at other sites such as the salivary gland, thyroid, and skin. Hence mucosal resection for superficial lesions would appear to be an attractive option as it is associated with very low morbidity. The apparently excellent results achieved with locally directed therapy should however be carefully monitored and these patients require extended follow up due to the potential for local relapse. This is due to the presence of microscopic foci of lymphoma which may potentially be present throughout the organ. In the stomach, multifocal microscopic deposits of lymphoma throughout the gastric mucosa is well documented.6,7 The natural history of skin MALT lymphoma, with relapses occurring in other cutaneous sites over the course of a number of years, suggests that a similar distribution of microscopic disease may be present throughout the integument. The presence of two lesions in the case described by Hosaka et al may also reflect this distribution within the oesophagus. Therefore, a policy of close follow up of the entire organ should be adopted when local therapy has been used to treat MALT lymphoma. For this purpose, paired organs (for example, salivary glands, conjunctiva, lung) should be considered as a single system as the theory of lymphoma cell circulation and homing would predict that bilateral multifocal involvement should be expected.

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