Extragastric MALT lymphoma

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

Approximately 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. The commonest site is the stomach (23% of extranodal lymphomas) followed by the small intestine (7.5%) and the colorectum (5.5%).

Primary lymphoma of the oesophagus is very rare accounting for only three cases in a series of 1467 reported by Freeman and colleagues. The majority of lymphomas that have been reported in the literature date from before the advent of immunoproliferative small intestine an infective organism is implicated, as immunoproliferative disease (for example, thyroid, salivary gland). Outside the stomach, Helicobacter pylori is unlikely to be involved in the pathogenesis of these lymphomas. Although there are occasional reports of extragastric MALT lymphomas responding to anti- H pylori-type antibiotic combinations, this is likely to indicate a role for another bacterial organism as H pylori does not normally colonise these extragastric sites and has been completely absent in some patients in whom the lymphoma responded to this therapy.

Acquired MALT appears to be in some way unstable. In particular, the cells in the marginal zone appear to be susceptible to neoplastic transformation within this environment leading to a higher than expected incidence of marginal zone lymphoma in these sites compared with lymphomas derived from other B cell compartments. This is in contrast with the finding in native MALT, such as in the terminal ileum, where marginal zone (MALT) lymphoma is rare but lymphomas from the other compartments are more frequent (follicular lymphoma, mantle cell lymphoma). The explanation for this difference remains conjectural but one factor may be the absence of M cells in areas of acquired MALT which potentially results in disorganised antigen processing within the local environment.

The absence of API2-MALT1 chimeric transcript in the case described by Hosaka et al is also of interest. The t(11;18) has been found most frequently in MALT lymphomas arising in the stomach and lung (up to 40% of cases) but appears less common in those MALT lymphomas in other sites. In the stomach, the presence of this translocation may indicate failure to respond to H pylori eradication, more aggressive local invasiveness, and lack of potential for high grade transformation. The use of mucosal resection for MALT lymphoma is also of interest. This has been reported as a therapeutic option in some cases of gastric MALT lymphoma. In general, MALT lymphomas respond well to local resection. Indeed, local resection was the mainstay for gastric MALT lymphoma management in many centres before the role of Helicobacter 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. 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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REFERENCES
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