Striking male predominance of mantle cell lymphoma in Taiwan

Mantle cell lymphoma (MCL) was defined as a specific entity in the new World Health Organization classification as an aggressive B cell lymphoma composed of monomorphous small to medium-sized lymphocytes with at least slight nuclear contours, having peripheral B cells of the inner mantle zone as postulated cells of origin.1 Most patients presenting with high-stage disease had lymphadenopathy, hepatosplenomegaly and marrow involvement. Histologically, the tumours may grow in a nodular or diffuse pattern, with two cytological variants-classic and blastoid. Patients with MCL exhibit a characteristic immunophenotype of CD5+/ CD23-/CD43+/Bcl2+/Bcl6-/IgD+/IgM+/

cyclin D1+. It is genetically characterised by translocation at 11q13 and rearrangement of the bcl-1 gene, leading to cyclin D1 overexpression.

We collected data from 24 consecutive MCL cases from the consultation file of S-S C and from several general hospitals and medical centres in Taiwan. Interestingly, all these patients were men with mean and median ages at 59.6 and 60.5 (range 40-75) years, respectively. The staging results were 1 (4%) patient at stage I, 2 (8%) at stage II, 1 (4%) at stage III and 20 (83%) at stage IV. At diagnosis, the most common organs associated were the lymph nodes in 22 (91%), bone marrow in 18 (75%), spleen in 8 (33%), gastrointestinal tract in 6 (25%) and liver in 4 (16%) patients. Of the 14 patients, 4 (28%) had peripheral blood involvement. In all, 21 cases showed classic morphology and 3 showed the blastoid variant. All but one case was positive for cyclin D1 expression by immunohistochemistry.

In a large international study, patients with MCL comprised 6% of those with non-Hodgkin's lymphoma, with a median age of 63 years and a male predominance of 74%.² The relative frequency of MCL in most Asian countries is 1-3%, much lower than that in Western countries at 7-14%.3 4 In our previous study,5 we found that patients with MCL accounted for 2% of those with non-Hodgkin's lymphoma in Taiwan. The exclusively male patients with MCL sharply contrasts with the male:female ratio of 1.1 among all patients with non-Hodgkin's lymphoma in Taiwan.5 In brief, MCL is a rare lymphoma subtype with a striking male predominance in Taiwan.

S-S Chuang

Department of Pathology, Chi-Mei Medical Centre, Tainan and Taipei Medical University, Taipei, Taiwan

Centre, Taipei

W-T Huang

Chang Gung Memorial Hospital, Kaohsiung Medical

P-P Hsieh, H-H Tseng

Veterans General Hospital-Kaohsiung, Kaohsiung, Taiwan

H-M Chana

Changhua Christian Hospital, Changhua, Taiwan

Correspondence to: Dr Shih-Sung Chuang, Department of Pathology, Chi-Mei Medical Center, 901 Chung-Hwa Road, Yung-Kang City, Tainan County 710, Taiwan; cmh5301@mail.chimei.org.tw

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