Table 3 Relative frequencies of marginal zone lymphomas

	January 1989– December 1998	January 2005– December 2007	p Value
MALT lymphoma	38 (19.3)	18 (7.9)	0.001
MZL-nodal	2 (1.0)	6 (2.6)	0.294
MZL-splenic	1 (0.5)	2 (0.9)	1.000
Subtotal	41 (20.8)	26 (11.5)	0.008

Data are numbers of cases, with percentages in parentheses.

The comparisons were made by Fisher's exact test; the comparisons for MALT lymphoma and subtotal were by the χ^2 test. MALT, mucosa-associated lymphoid tissue; MZL-nodal, nodal marginal zone lymphoma; MZL-splenic, splenic MZL.

reported, also from northern Taiwan, that 17.6% of their NHLs were FL during 1995–2002.⁸ Their data were probably biased because most of their patients were referred to their institution, a specialised cancer centre, for treatment. Although 17.6% might not reflect the real frequency of FL, this high rate supports that FL has been increasing in Taiwan in recent years.

In east and south Asia, FL accounts for around 10% of NHL, while the frequency is around 20% in Europe, and a third in the USA and Canada.^{2,3} Biagi and Seymour analysed previously published data to compare *BCL-2* translocation rates in FL across geographic regions and found that translocation rates were significantly higher for the USA than for Asian populations.⁵ They suggested that the relatively low incidence of FL in Asian populations was caused by distinct molecular pathways from Western populations, and they hypothesised that FL may in fact be a heterogeneous malignancy encompassing entities with distinct molecular pathogenesis and potentially distinct clinical manifestations.⁵ In a previous study of FL, the author and colleagues found that 31% (20 of 63) cases during 1990–2002 in Taiwan were positive for *BCL-2* translocation in the *MBR*.⁹ This rate was lower than that of 65% in the Western series and supported the hypothesis of Biagi and Seymour that there might be distinct molecular pathogenesis in Western and Asian FLs.⁵

The second significant change during the two periods of time was decreased frequency of MALT lymphoma. The exact cause remains to be elucidated. However, it might be due to the clinical awareness of the association between *Helicobacter pylori* and gastric MALT lymphoma in recent years in Taiwan, and prompt treatment of *H pylori*-related gastric ulcer patients leading to fewer cases of gastric MALT lymphoma, which is

the well-known late complication of *H pylori*-related gastritis. The third significant change is the increased incidence of SLL/CLL. This increase is probably the result of incorporating flow cytometric immunophenotyping in routine diagnosis since October 2000 in the author's institution rather than a true increase in an incidence of this lymphoma type. Before the introduction of this diagnostic modality, CLL patients were diagnosed and treated solely by haematologists and would not enter the Chi-Mei lymphoma file. Even with the "dilution effect" of SLL/CLL cases in recent years, the frequency of FL during 2005–7 is significantly higher than that in 1989–98.

In conclusion, the relative frequency of FL in Taiwan has been increasing in the past years toward the higher rate seen in the West, maybe reflecting the changing life style and socio-economic conditions of Taiwan into a developed country. Epidemiological studies, either cross-sectional or longitudinal, incorporating data for surrogate factors reflecting Westernisation, and analytical studies such as case-control/cohort studies, are needed to resolve this issue. Furthermore, molecular studies comparing recent cases and those of one to two decades ago with probes directing at both the *MBR* and *mcr* regions of *BCL-2* translocation might help to elucidate the molecular mechanisms of FL in Taiwan.

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CORRECTION

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There was an error in an article published in the January 2008 issue of the journal (Nicol AF, Nuovo GJ, Salomão-Estevez A, et al. Immune factors involved in the cervical immune response in the HIV/HPV co-infection. *J Clin Pathol* 2008;**61**:84–8). The name of the fourth author was spelt incorrectly. The correct spelling Grinsztejn B.