Hepatosplenic and Subcutaneous Panniculitis-Like γ/δ T Cell Lymphomas Are Derived from Different V δ Subsets of γ/δ T Lymphocytes

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Gamma/delta T cell lymphomas (y/& TCL) represent rare, often aggressive types of T cell malignancy that are clinically and pathologically diverse. Most y/8 TCL occur as a hepatosplenic or subcutaneous type. To date, analysis of the T cell receptor & (TCR&) gene repertoire of hepatospienic y/6 TCL (y/6 HSTCL) and subcutaneous panniculitis-like v/6 TCL (v/6 SPTCL) has been reported only in a limited number of cases. In this study we analyzed 11 y/6 HSTCL and 4 y/6 SPTCL by polymerase chain reaction and immunostaining to determine their usage of the Vö subtypes (Vé1-6), It is noteworthy that 10 of 11 y/6 HSTCL expressed the V61 gene. The remaining case also expressed T cell receptor & (TCR&) as determined by flow cytometry and TCR8 rearrangement in Southern blot. However, the Vô gene expressed by this lymphoma could not be determined, which suggests usage of an as yet unidentified V6 gene. In striking contrast to the y/5 HSTCL, all 4 y/5 SPTCL expressed the V52 gene. Our data demonstrate that y/6 HSTCL are preferentially derived from the V81 subset of y/8 T lymphocytes, whereas y/ô SPTCL are preferentially derived from the V62 subset. The pattern of V6 gene expression in HSTCL and SPTCL corresponds to the respective, predominant y/8 T cell subsets normally found in the spleen and skin. This finding suggests that y/6 TCL are derived from normal y/6 T lymphocytes which reside in the affected tissues. Furthermore, the selective, lymphoma type-specific Vő gene segment usage may provide a molecular tool to distinguish better among various types of y/8 TCL lymphoma particularly in the clinically advanced, widely disseminated cases. (J Mol Diag 2000, 2:11-19)

Similar to normal T lymphocytes, T cell lymphomas (TCL) may express two different types of T cell receptor (TCR). a/8 or y/8. Four TCR genes (a, B, y, and 8) are composed in their germline configuration of noncontiguous segments of variable (V), diversity (D), joining (J), and constant (C) regions. During T cell differentiation, somatic VDJ rearrangements occur and thereby generate variability of the TCR.1 Only complete in-frame TCR gene rearrangements, consisting of V. D. and J regions, may form a functional TCR. Incomplete rearrangements between two D regions (D-D), between V and D region (V-D), and between D and J region (D-J) are nonfunctional. The majority of normal T lymphocytes express the e/B heterodimer; however, approximately 5% of the T cells express the y/8 heterodimer.2 In contrast to a/8 T lymphocytes, development of w8 T cells is not dependent on expression of major histocompatibility complex (MHC) I or MHC II molecules. 3.4 Unlike a/B T cells, which develop almost exclusively in thymus, y/8 T cells can be generated in extrathymic sites such as intestinal epithelium, skin, spleen, and fetal liver. 5-8 The exact function of y/8 T lymphocytes has not been fully elucidated, but some studies suggest a role for these cells in early immune responses to infections, autoimmune disorders, and cancer immune surveillance." y/8 T cells share some features with CD8+ a/B T lymphocytes and with natural killer (NK) cells. They show MHC-dependent and MHCindependent cytotoxity, produce lymphokines, and exhibit NK-like lytic activity.

y/6 TCL represent a rare type of T cell malignancy. They comprise less than 10% of peripheral T cell lymphomas to and occur mostly at extranodal sites in hepatosplenic, subcutaneous, or intestinal form. Hepatosplenic

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Terry C. Jones

Vdelta Epopeacutee Cistercienne T:

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