

Abstract

The prevalence of acute lymphoblastic leukemia subtypes was studied in 1-16 years old patients whom were investigated for leukemias at Srinagarind Hospital during May, 1987 to November, 1989. In this study, ALLs were subclassified by using morphological characteristics according to FAB accompanied with cytochemical staining. Monoclonal antibodies to CD₁₀ (CALLA), CD₂₂ (pan-B), CD₇ (pan-T), CD₄ (T₄), and CD₈ (T₈) were used for immunophenotyping by indirect immunofluorescence. The sIg and cIg were done by direct immunofluorescence. This study found that they were L₁ (35%), L₂ (35%) and L₁/L₂ (30%) but no L₃ was found. The peroxidase activities were negative in all cases but the PAS activities were positive in 70% of cases. The immunophenotypes of ALLs were common ALL (75%), pre-B ALL (15%) and T-cell ALL (10%) but no B-cell ALL was found. The study found that the patients came from 10 of 17 provinces in the Northeast of Thailand.