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KEY WORD: NON-HODGKIN'S LYMPHOMA / FEBRILE NEUTROPENIA / CHEMOTHERAPY / PREDICTIVE MODELS

JUTHARAT SUTHEESOPHON : A PREDICTIVE MODEL OF LIFE-THREATENING FEBRILE NEUTROPENIA IN AGGRESSIVE NON-HODGKIN'S LYMPHOMA POST CHOP CHEMOTHERAPY. THESIS ADVICER : ASSO. PROF. THANIN INTRAGUMTORNCHAI, MD. 39 pp. ISBN 974-637-357-9

Aggressive Non-Hodgkin's lymphoma is an important malignant disease in Thailand. This malignant disease can be cure by standard systemic 'CHOP' chemotherapy regimen. With this treatment, some patients develop serious complication, febrile neutropenia. The objective of this study is to identify the factors that statisitically significant correlated with the occurrence of febrile neutropenia in aggressive NHLs patients after chemotherapy 'CHOP' regimen.

Eighty one cases of newly diagnosed aggressive Non-Hodgkin's lymphoma were included in this study. There are forty male and forty one female. Pretreatment evaluation for patient status, performance status disease status, staging of disease, and blood tested for complete blood count, serum creatine, LDH and total bilirubin level. Bone marrow biopsy was done before starting chemotherapy, and follow up clinical, CBC at the time of nadir count or at the occurrence of fever.

At the end of the study, we found that 21 patients (25.9%) developed febrile neutropenia at the time of nadir count. There are three factors that significantly correlated with the occurrence of febrile neutropenia : the change of serum total bilirubin, serum albumin and bone marrow involvement, p value = .0007, .0012 and .0010, respectively and 95% confidence interval of serum total bilirubin and serum albumin are - 0.782, - 0.180 and 0.219, 0.852 respectively.

In conclusion, the serum total bilirubin, serum albumin level, and bone marrow involvement are the three factors that significantly corretaled with the occurrence of febrile neutropenia in aggressive Non-Hodgkin's lymphoma post chemotherapy 'CHOP' regimen.

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ลายมือชื่ออาจารย์ที่ปรึกษา.....

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