

EKSPRESI FOXP1 DAN P53 PADA LESI LIMFOID REAKTIF DAN *NON HODGKIN LYMPHOMA* SEL B, *LARGE CELL TYPE*

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ABSTRAK

Latar Belakang: Lesi limfoproliferatif yang morfologinya berada antara jinak dan ganas akan menyulitkan dalam diagnostik, bahkan dengan pemeriksaan imunohistokimia standar maupun tes klonalitas. Lesi seperti ini dapat menjadi model instruktif untuk limfomagenesis, dan diagnosis yang benar sangat penting untuk menentukan tata laksana yang tepat. FOXP1 merupakan faktor transkripsi yang berperan penting dalam perkembangan sel B, dan diketahui sebagai onkogen pada berbagai tipe *Non Hodgkin Lymphoma*. Protein p53 memiliki peran sangat penting dalam siklus sel, perbaikan DNA, apoptosis, dan aktivitas supresi *senescence* tumor.

Tujuan: Menganalisis perbedaan dan hubungan ekspresi FOXP1 dan p53 pada lesi limfoid reaktif dan *Non Hodgkin Lymphoma* sel B, *large cell type*.

Metode: Penelitian observasional analitik dengan pendekatan *cross sectional* ini menggunakan sampel blok paraffin penderita lesi limfoid reaktif dan *Non Hodgkin Lymphoma* sel B, *large cell type* di Instalasi Patologi Anatomi RSUD Dr. Soetomo Surabaya tahun 2017-2018. Sampel dibagi dalam 34 sampel limfoid reaktif dan 34 sampel limfoma, kemudian dilakukan pulasan imunohistokimia dengan antibodi monoklonal FOXP1 dan p53.

Hasil: Ekspresi FOXP1 pada *Non Hodgkin Lymphoma* sel B, *large cell type* lebih tinggi daripada pada lesi limfoid reaktif ($p=0,001$) dengan *cut off point* 45% (CI=95%). Ekspresi p53 pada *Non Hodgkin Lymphoma* sel B, *large cell type* lebih tinggi daripada ekspresi p53 pada lesi limfoid reaktif ($p=0,001$) dengan *cut off point* 7,5%. Analisis statistik menunjukkan adanya korelasi antara ekspresi FOXP1 dan p53 pada lesi limfoid reaktif dan *Non Hodgkin Lymphoma* sel B, *large cell type* ($p=0,001$).

Kesimpulan: Ekspresi FOXP1 pada *Non Hodgkin Lymphoma* sel B, *large cell type* lebih tinggi daripada ekspresi FOXP1 pada lesi limfoid reaktif dengan *cut off point* 45%. Ekspresi p53 pada *Non Hodgkin Lymphoma* sel B, *large cell type* lebih tinggi daripada ekspresi p53 pada lesi limfoid reaktif dengan *cut off point* 7,5%. Hasil penelitian juga menunjukkan terdapat korelasi antara ekspresi FOXP1 dan p53 pada lesi limfoid reaktif dan *Non Hodgkin Lymphoma* sel B, *large cell type*.

Kata Kunci: limfoid reaktif, *Non Hodgkin Lymphoma* sel B, FOXP1, p53

EXPRESSION OF FOXP1 AND P53 IN REACTIVE LYMPHOID LESION AND B CELL NON HODGKIN LYMPHOMA, LARGE CELL TYPE

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ABSTRACT

Background: Lymphoproliferative lesions that have morphology between benign and malignant are difficult to diagnose even with immunohistochemical examination and clonality testing. These lesions can serve as instructive models of lymphomagenesis, and the correct diagnosis is necessary for the prompt treatment. FOXP1 plays an important role in B cell development, has a potential oncogene in B cells Non Hodgkin Lymphoma. The p53 protein has a crucial role in the regulation of cell cycle, DNA repair, apoptosis, and senescence tumor suppression activity.

Objective: To analyze the difference and correlation of FOXP1 and p53 expression in reactive lymphoid lesion and B cell Non Hodgkin Lymphoma, large cell type.

Methods: An observational research with cross sectional approach are conducted formalin fixed paraffin-embedded tissue of patients diagnosed as reactive lymphoid lesion and B cell Non Hodgkin Lymphoma, large cell type at 2017-2018 in Anatomical Pathology Laboratory of Dr. Soetomo Hospital. Each of 34 paraffin blocks from reactive lymphoid lesion and B cell Non Hodgkin Lymphoma, large cell type patients will be sectioned and stained with immunohistochemistry for FOXP1 and p53.

Results: Expression in B cell Non Hodgkin Lymphoma, large cell type is higher than in reactive lymphoid lesion for FOXP1 ($p=0,001$) with cutoff point 45%(CI=95%) and p53 ($p=0,001$) with cutoff point 7,5%(CI=95%). There is a significant correlation between the expression of FOXP1 and p53 in reactive lymphoid lesion and B cell Non Hodgkin Lymphoma, large cell type($p=0,001$).

Conclusion: Expression in B cells *Non Hodgkin Lymphoma*, large cell type is higher than in reactive lymphoid lesion for FOXP1 with cutoff point 45% and P53 with cutoff point 7,5%. There is a significant correlation between the expression of FOXP1 and p53 in reactive lymphoid lesion and B cells *Non Hodgkin Lymphoma*, large cell type.

Keywords: reactive lymphoid lesion, B cells *Non Hodgkin Lymphoma*, FOXP1, p53