

Table 6. Comparison of the digital parameters of Bcl-2 in control and Hodgkin's lymphoma cases

Parameter	Control	Lymphoma	P value
Intensity	0.85±0.13	0.53±0.37	<0.001
Fractional area	4.56±1.02	19.00±6.44	0.330
DLI	5.40±1.27	52.45±10.37	0.047

DLI = digital labeling index

However, by using Digimizer analysis software for grading the intensity of the stained sections, 48% (24/50) of Hodgkin's cases showed strong expression and 16% (8/50) showed moderate expression and only one case showed weak expression, whereas 50% (10/20) of control subjects showed weak expression and 20% (4/20) showed negative expression as shown in table 7 .

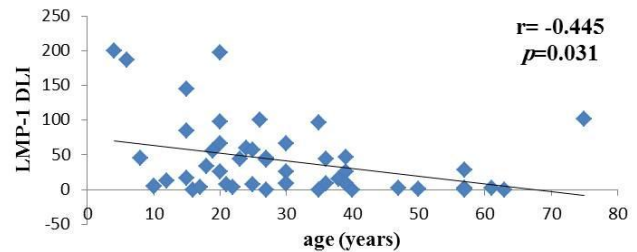
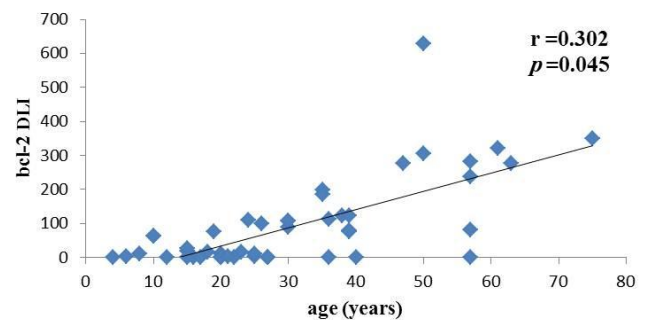
Table 7. Distribution of lymphoma and control cases into different grades of intensity of Bcl-2 expression

Intensity grade	Control	Lymphoma	Total
Negative	4(20%)	17(34%)	21
Weak	10(50%)	1(2%)	11
Moderate	6(30%)	8(16%)	14
Strong	0	24(48%)	24
Total	20(100%)	50(100%)	70(100%)

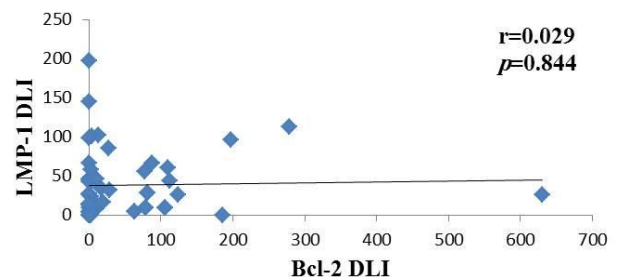
In relation to the histopathological subtypes ,the Intensity, Fractional area and Digital Labeling Index of Bcl-2 immunohistochemical expressions did not significantly differed in relation to the histological subtypes of the tumor when applying ANOVA test. However Lymphocyte Depleted Hodgkin's lymphoma showed the highest Digital Labeling Index of Bcl-2 expression followed by Mixed Cellularity subtype.

By applying spearman rank linear correlation, there was significant positive correlation between the age of the patients and the three digital analysis parameters. Figure 4 showed the negative correlation between the age and Digital labeling

index of Bcl-2 expression Furthermore Bcl-2 expression was high in patients older than 35 years old but this association was not statistically significant.

**Figure 3. Correlation between LMP-1 DLI and age****Figure 4. Correlation between Bcl-2 DLI and age**

By applying spearman rank linear, there was no significant correlation between LMP-1 and Bcl-2 expression in Hodgkin's lymphoma cases ($p=0.844$).

**Figure 5. Correlation between LMP-1 DLI and Bcl-2 DLI**