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Frequency of subgroups of diffuse large B-cell lymphoma by immunohistochemistry in Pakistan

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Objective: To determine the frequency of subgroups (germinal centre and non germinal centre) of Diffuse large B cell lymphoma (DLBCL) in a tertiary care hospital.

Materials & Methods: It is a descriptive cross sectional study performed in histopathology department, clinical laboratories of Dr. Ziauddin Hospital Karachi. 62 cases of Diffuse large B cell lymphoma were collected during fifteen (15) months period from April 2011 to June 2012. All resected specimens and small biopsies were grossed; sections were processed overnight and stained by Hematoxylin and Eosin (H&E) for morphologic evaluation. The panel of lymphoid antibodies included CD20, CD79a, CD3, Ki-67 & Pax5 were used for the diagnosis of DLBCL. Then monoclonal antibodies CD 10, BCL-6 and MUM-1 were applied for sub-grouping of DLBCL.

Results: In a total of 62 cases of diffuse large B cell lymphoma, 27 (44%) cases were categorized as germinal centre like subgroup and 35 (56%) were categorized as non germinal centre like subgroup. Patient's ages ranged from 04 to 95 years. 58% patients were males and 42% were females with male to female ratio 1.4:1. 36 (58%) cases were extra nodal and 26 (42%) were nodal lymphoma. Non germinal center like sub-group was preponderance in both nodal and extra nodal lymphoma as 15(58%) and 20(56%) respectively.

Conclusion: This study reports an increased number of patients of non germinal centre subgroup of Diffuse large B cell lymphoma. Male to female ratio was 1.4:1. Mean age of patient was 45 years.

Biography

Uzma Bukhari has completed MBBS from Liaquat University of Medical and Health Sciences Jamshoro. She has completed MPhil Histopathology from Karachi University Pakistan. She has completed residency in FCPS (Fellow of college of physician and surgeon Pakistan) from Dr. Ziauddin hospital Karachi and going to appear in exam this year. Currently she is working in histopathology clinical laboratory of Dr. Ziauddin hospital. She has published 10 research papers and one paper has been published internationally.

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