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Unusual presentations of post-transplant lymphoproliferative disorder in pediatric recipients of solid organ transplants: A systematic review

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Introduction: Post-transplant lymphoproliferative disorder (PTLD) is a severe complication of solid organ transplantation. It has a numerous clinical presentations. Knowing the unusual presentations is effective in preventing late diagnosis.

Method: The following databases including PubMed, Science Direct, EMBASE and Google Scholar were searched for all relevant subjects from March 1994 to December 2016. To search for review articles, following keywords alone or in combination were used: "presentations of post-transplant lymphoproliferative disorder", "unusual presentation", "childhood PTLD", "rare presentation" and "atypical presentation". Inclusion criteria for this review study were all reported cases about unusual clinical presentations of post-transplant lymphoproliferative disorder in children.

Results: Of the total number of 41 studies, 17 reports had inclusion criteria. The mean age of patients in review was 8.8 ± 4.1 years. In this review study, the most common unusual presentation of PTLD in children was related to oral lesions (35.3%), especially in the gums and lips. The other unusual symptoms of PTLD in order of frequency include gastrointestinal symptoms (17.7%), neurologic symptoms (11.8%), respiratory symptoms (11.8%), orbital involvement (11.8%) and other rare miscellaneous presentations include breast mass (5.8%) and intramuscular forearm lesion (5.8%). About 94 % of patients were EBV-positive PTLD.

Conclusion: The clinician must be familiar with these unusual symptoms of PTLD in pediatrics in order to prevent late diagnosis of PTLD and increase survival by early detection.

Biography

Nader Shakibazad has completed his MD from Shiraz University of Medical Sciences, Shiraz, Iran and Pediatrician degree from Shiraz University of Medical Sciences, Shiraz, Iran. He did his Fellowship in Pediatric Hematology and Oncology. He has published more than 8 papers in reputed journals.

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