

Diagnostic accuracy of image-guided core needle biopsy of lymphoma suspected patients

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Abstract

Purpose: In this study we aimed to evaluate the efficacy of image-guided core needle biopsy (CNB) for the diagnosis of lymphoma.

Methods and Materials: This cross-sectional study during 2016-2018, included 46 consecutive patients with suspicious imaging and clinical findings of lymphoma. They went under image-guided CNB by 16 gauge core biopsy needle. At least 3 cores were obtained from each patient. All the patients were followed at least for 1 year.

Results: Pathologic results showed 3 main groups: 1-lymphoma with specific type (35%), 2-lymphoproliferative or lymphocytic and histiocytic infiltration (22%), 3-other pathologies (as other malignancies, infection, reactive) (43%). All the group 2 patients went under surgical excisional biopsy (SEB) that 40% of them showed lymphoma. So in patients with lymphoma 80% were correctly diagnosed by CNB and treated directly. Another remaining 20% were categorized under group 2 and diagnosed by SEB. No patient with lymphoma was missed.

Conclusion: Image-guided CNB in patients with lymphadenopathy suspicious for lymphoma, is an effective and safe method as an initial diagnostic tool.