

# عنوان مقاله:

Metabolic tumor parameters complement clinicopathological factors in prognosticating advanced stage Hodgkin Lymphoma

# محل انتشار:

مجله پزشكي هسته اي و زيست شناسي آسيا اقيانوسيه, دوره 11, شماره 2 (سال: 1402)

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### خلاصه مقاله:

Objective(s): Advanced Hodgkin Lymphoma has a higher probability of relapse and recurrence. Classical clinicopathological parameters including the International Prognostic Score (IPS) have not been reliable in predicting prognosis or tailoring treatment. Since FDG PET/CT is the standard of care in staging Hodgkin Lymphoma, this study attempted to evaluate the clinical utility of baseline metabolic tumor parameters in a cohort of advanced Hodgkin lymphoma (stage III and IV). Methods: Histology-proven advanced Hodgkin Patients presenting to our institute between Yo1Y-Yo19 and treated with chemo-radiotherapy (ABVD / AEVD) were followed up till Yo19. Quantitative PET/CT and clinicopathological parameters were used to estimate the Event Free Survival (EFS) in 100 patients. Kaplan-Meier method with log-rank test was used to compare the survival times of prognostic factors. Results: At a median follow-up of FA.AP months (IQR:PP.PI.-9B. months), the five-year-EFS was A1%. Of the 100 patients, 15 had relapsed (15%) and none died at the last follow-up. On Univariate analysis, among non-PET parameters bulky disease (P=∘.∘٣) and Bsymptoms (P=o.of) were significant while among PET/CT parameters SUVmax (p=o.ool), SUVmean (P=o.ool), WBMTVY.∆ (P<....), WBMTVf\% (P<....), WBTLGY.∆ (P<....) and WBTLGF\% (P <....) predicted poorer EFS. ∆year EFS for patients with low WBMTVY.Δ [<10 mm] was λ9% and mΔ% for patients with high WBMTVY.Δ [≥١٠٣٨.٣ cm٣] (p <०.००١). In a multivariate model, only WBMTVY. (P=0.0٣) independently predicted poorer EFS.Conclusion: PET-based metabolic parameter (WBMTVY.a) was able to prognosticate and complement the classical clinical prognostic factors in advanced Hodgkin Lymphoma. This parameter could have a surrogate value for prognosticating advanced Hodgkin lymphoma. Better prognostication at baseline translates to tailored or risk-modified .treatment and hence higher survival

کلمات کلیدی: Advanced Hodgkin's lymphoma, ۱۸F-FDG PET/ CT, metabolic tumor parameters, clinicopathological parameters, **Event Free Survival** 

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