

عنوان مقاله:

Prognostic value of pretreatment FDG PET/CT in uterine cervical cancer according to two major histologic types: squamous cell carcinoma and adenocarcinoma

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): The aim of this study was to assess the prognostic value of pretreatment Positron emission tomography / computed tomography using IAF-fluorodeoxyglucose (FDG-PET/CT) in cervical cancer according to two major histologic types.Methods: Eighty-three squamous cell carcinoma (SCC) patients and ۳۵ adenocarcinoma (AC) patients who underwent pretreatment FDG-PET/CT were retrospectively analyzed. Maximum standardized uptake value (SUVmax), mean standardized uptake value (SUVmean), metabolic tumor volume (MTV), and total lesion glycolysis (TLG) of the primary tumor were calculated. Kaplan-Meier analyses were used to compare correlations between each PET parameter and overall survival (OS). The prognostic values of imaging and clinical parameters were assessed using uni- and multivariable Cox proportional hazard models.Results: SUVmax, SUVmean, and TLG were significantly higher in SCC than in AC (p<0.0) each). No significant difference in MTV was seen between the two groups (p=o.1o). As for Kaplan-Meier analyses, in SCC, patients with SUVmax, SUVmean, MTV, and TLG exceeding cutoff values tended to show worse OS than patients with lower values (p=o.oY, p=o.YY, p<o.o1, and p=o.o1, respectively, for OS). On the other hand, in AC, patients with MTV and TLG exceeding cutoff values showed significantly worse PFS and OS (p<0.01 each for OS), while SUVmax and SUVmean were unrelated to OS (p=0.91 and p=o.λΨ, respectively for OS). As for multivariable analyses, in SCC, TLG was identified as an independent prognostic factor for OS (p=∘.∘۱). In AC, MTV was identified as an independent prognostic factor for OS (p=∘.∘۲). Conclusion: Our

preliminary data suggest that FDG-PET/CT would be useful for predicting prognosis in cervical cancer, although the .clinical significance of quantitative values may differ according to histopathological type

کلمات کلیدی: cervical uterine cancer, uterine cervical adenocarcinoma, Prognostic Value, FDG

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