Squamous cell carcinoma of the head and neck – The role of diffusion and perfusion imaging in tumor recurrence and follow-up
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ABSTRACT
Computed tomography and magnetic resonance imaging-based techniques of functional imaging are proven to be sensitive and reliable tools for detection and staging of head and neck cancer.

These new techniques enable to visualize and differentiate subtle pathologic changes before they become evident on standard cross-sectional images.

However, it is their role in evaluating possible recurrence and estimation of treatment response that holds the biggest promise.

This article describes the role and usefulness of diffusion and perfusion in detecting recurrence and follow-up in patients with head and neck squamous cell carcinoma.

Keywords: Perfusion imaging; Diffusion-weighted imaging; Functional imaging; Squamous cell carcinoma; Recurrence