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Evaluation of response to immune checkpoints inhibitors: ¹⁵ is there a role for positron emission tomography?

Matteo Bauckneht, Roberta Piva, Gianmario Sambuceti, Francesco Grossi, Silvia Morbelli

Abstract

Strategies targeting intracellular negative regulators such as immune checkpoints inhibitors (ICPIs) have demonstrated significant antitumor activity across a wide range of solid tumors. In the clinical practice, the radiological effect of immunotherapeutic agents has raised several more relevant and complex challenges for the determination of their imaging-based response at single patient level. Accordingly, it has been suggested that the conventional Response Evaluation Criteria in Solid Tumors (RECIST) assessment alone, based on dimensional evaluation provided by Computed Tomography (CT), tend to underestimate the benefit of ICPIs at least in a subset of patients, supporting the need of immune-related response criteria (irRC). Differently from CT, very few data are available for the evaluation of immunotherapy by means of

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