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Columns: MINIREVIEWS

Perfusion computed tomography in renal cell carcinoma

Chandan J Das, Usha Thingujam, Ananya Panda, Sanjay Sharma, Arun Kumar Gupta

Abstract

Various imaging modalities are available for the diagnosis, staging and response evaluation of patients with renal cell carcinoma (RCC). While contrast enhanced CT (CECT) is used as the standard of imaging for size, morphological evaluation and response assessment in RCC, a new functional imaging technique like perfusion CT, goes down to the molecular level and provides new perspectives in imaging of RCC. Perfusion CT depicts regional tumor perfusion and vascular permeability which are indirect parameters of tumor angiogenesis and thereby provides vital information regarding tumor microenvironment. Also response evaluation using perfusion CT may predate the size criteria used in Response Evaluation Criteria in Solid Tumors (RECIST),



Perfusion computed tomography in renal cell carcinoma



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