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Late Pseudoprogression: A Potential Pitfall in 68Ga-DOTATATE PET/CT for Glioma

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Abstract

Recognition of pseudoprogression in malignant glioma is one of the major challenges in the Response Assessment in Neuro-Oncology criteria. Somatostatin receptors were overexpressed on the surface of the most high-grade glioma. The corresponding PET imaging is used for planning radiation and radionuclide therapy. However, the heterogeneity of somatostatin receptors distribution is mainly responsible for the lack of specificity. Here we reported a case of a 35-year-old man with mesenchymal oligodendroglioma operation and radiotherapy 19 months ago. 68Ga-DOTATATE PET showed intense uptake near the operation region, which has been misinterpreted as tumor recurrence.

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