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PET targeting the translocator protein (TSPO) represents an interesting approach for glioma visualization, as TSPO is highly expressed in tumor cells. We present a 32-year-old man with recurrent glioblastoma after multimodal treatment. PET with the novel TSPO ligand F-GE-180 was performed after reirradiation. Here, the previously reirradiated tumor showed a remaining circular TSPO expression. Moreover, cerebrospinal fluid dissemination was detected by a high focal uptake at the right lateral and at the fourth ventricle, whereas only a faint contrast enhancement was present in MRI. This case demonstrated the diagnostic potential of TSPO-PET for glioma imaging by visualizing even minimal disease burden.

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