

## Gliosarcoma with thallium-201 SPECT

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Thallium-201 ( $^{201}\text{Tl}$ ) chloride scintigraphy is the imaging method use for the detection of various tumors including glioblastoma, but only limited information on  $^{201}\text{Tl}$  uptake in gliosarcoma is available. We investigated a patient with gliosarcoma by means of  $^{201}\text{Tl}$  single-photon emission computed tomography (SPECT) and MRI. SPECT imaging revealed high  $^{201}\text{Tl}$  uptake in the tumor, which was closely correlated with contrast-enhancement on MRI. These results suggest that SPECT with  $^{201}\text{Tl}$  may be useful for detecting gliosarcoma and provide physiological information on this tumor.

**Key words:** gliosarcoma,  $^{201}\text{Tl}$ , SPECT, MRI