A 48-year-old man with carcinoma of the lung had loss of consciousness during radiation therapy and underwent $^{99m}$Tc-ethyl cysteinate dimer ($^{99m}$Tc-ECD) SPECT to evaluate brain tumor seen on CT scan. Incidentally $^{99m}$Tc-ECD SPECT imaging showed intense accumulation in the frontal and occipital bone. The tumor in the occipital bone had been histologically proven to be a metastasis from carcinoma of the lung. We presented a very rare case of bone metastasis demonstrating increased uptake of $^{99m}$Tc-ECD.

**Key words:** $^{99m}$Tc-ECD, Bone metastasis.