

The invention relates to the use of metal complexes containing perfluoroalkyl, comprising a critical micelle formation concentration $< 10^{-3} \text{ mol/l}$, a hydrodynamic micelle diameter of $(2 R_h) > 1 \text{ nm}$ and a proton relaxivity in plasma $(R^1) > 10 \text{ l/mmol-s}$, as contrast agents in MR imaging for the representation of plaque, lymph node, infarcted and necrotic tissue and for independent representation of necrotic tissue and tumoural tissue.