

Res clearance

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23 Mar 2015: The PLOS ONE Staff (2015) Correction: Quantitative Evaluation of the Reticuloendothelial System Function with Dynamic MRI. PLOS ONE 10(3): e0122323. <https://doi.org/10.1371/journal.pone.0122323>

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To evaluate the reticuloendothelial system (RES) function by real-time imaging blood clearance as well as hepatic uptake of superparamagnetic iron oxide nanoparticle (SPIO) using dynamic magnetic resonance imaging (MRI) with two-compartment pharmacokinetic modeling.

The two-compartment model provided a good description for all data and showed a low sum squared residual for all mice ( $0.27 \pm 0.03$ ). A lower  $K_{in}$ , a lower  $K_{out}$  and a lower  $K_e$  were found after clodrosome treatment, whereas a lower  $K_{in}$ , a higher  $K_{out}$  and a lower  $K_e$  were observed after liposome treatment in comparison to saline treatment ( $P < 0.005$ ).

Citation: Liu T, Choi H, Zhou R, Chen I-W (2014) Quantitative Evaluation of the Reticuloendothelial System Function with Dynamic MRI. PLoS ONE 9(8): e103576. <https://doi.org/10.1371/journal.pone.0103576>

Data Availability: The authors confirm that all data underlying the findings are fully available without restriction. All relevant data are within the paper and its Supporting Information files.

To evaluate the  $r_2^*$  relaxivity of intracellular SPIO nanoparticles, Raw 264.7 cells were incubated in presence of SPIO nanoparticles at  $37^\circ\text{C}$ . Iron concentrations in culture medium (DMEM) were adjusted to 0.1, 0.5, 1.0, and 3.7 mg Fe/mL. The concentration of cells in the culture medium was  $2 \times 10^6$  cells per milliliter. After 1 hr, cells were collected and suspended in agarose gel (1%) for  $r_2^*$  relaxivity measurement. The Fe concentrations of cells were measured using same procedure as free SPIO nanoparticles. Measurements were done in triplicate.



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