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Both Feridex and Resovist are approved specifically for MRI of the liver.

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2011年8月30日 - Superparamagnetic iron oxide based MRI contrast agents: Current

status ... Keywords: Liver, Contrast media, iron oxide, SPIO, MRI, Neoplasm, ...

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Such MRI contrast agents shorten the relaxation times of atoms within body tissues

enhance the T1 signal and have been used for the detection of liver lesions.

"Superparamagnetic iron oxide based MRI contrast agents: Current status of ...

Types - See Also - References - External links

Name of Journal: *World Journal of Gastroenterology*

ESPS Manuscript NO: 20094

Manuscript Type: LETTER TO THE EDITOR

Current status of superparamagnetic iron oxide contrast agents for liver magnetic resonance imaging

Wang YXJ Superparamagnetic iron oxide in liver imaging

Yi-Xiang J Wang

Abstract

Five types of superparamagnetic iron oxide (SPIO), *i.e.* Ferumoxides (Feridex® IV, Berlex Laboratories), Ferucarbotran (Resovist®, Bayer Healthcare), Ferumoxtran-10 (AMI-227 or Code-7227, Combidex®, AMAG Pharma; Sinerem®, Guerbet), NC100150 (Clariscan®, Nycomed,) and (VSOP C184, Ferropharm)

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Such MRI contrast agents shorten the relaxation times of atoms within body in patients who are scheduled for or have recently received a liver transplant, and in "Superparamagnetic iron oxide based MRI contrast agents: Current status of ...

MRI Contrast Agents: Current Status and Future Perspectives

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... Resovist come as 0.5 mmol Fe/ml solution in prefilled syringe. ... provided by the use of non-specific extracellular Gd-based agents (or iodinated agent enhanced CT). ... Superparamagnetic iron oxide contrast agents: physicochemical characteristics and applications in MR imaging. ...

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Superparamagnetic iron oxide contrast agents: physicochemical characteristics and applications in MR imaging[YXJ Wang](#), [SM Hussain](#), [GP Krestin](#) - European radiology, 2001 - Springer

... Although most super- paramagnetic particles are coated with dextran or dex- tran derivatives, they can ... can easily pass through capillary endothelium while retain- ing superparamagnetism [14, 15]. ... Application of superparamagnetic iron oxide agents for tissue perfusion imaging ...

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... I clinical evaluation of citrate-coated monocrystalline very small superparamagnetic iron oxide particles as a new contrast medium for magnetic resonance imaging[M Taupitz](#), [S Wagner](#), [J Schnorr](#), [I Kravec](#)... - Investigative ..., 2004 - journals.lww.com

... however, have shown that the efficacy of SPIO particles as MRA contrast agents increases as ... th variant of citrate-coated preparation) consists of an aqueous solution of superparamagnetic iron oxide particles coated ... group B, 0.045 mmol Fe/kg, and group C, 0.075 mmol Fe/kg. ...

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Lymph node metastases: safety and effectiveness of MR imaging with ultrasmall superparamagnetic iron oxide particles--initial clinical experience.[MF Bellin](#), [C Roy](#), [K Kinkel](#), [D Thoumas](#), [S Zaim](#)... - Radiology, 1998 - pubs.rsna.org

... infusion of AMI-227 (1.7 mg Fe/kg). ... Ultrasmall superparamagnetic iron oxide ... are taken up by macrophages within normally func- honing nodes and reduce the signal inten- sity (SI) of tissue in which they accumu- late, because of the T2 and susceptibility effects of iron oxide. ...

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Initial clinical experience with dextran-coated superparamagnetic iron oxide for detection of lymph node metastases in patients with head and neck cancer.[...](#), [JW Rogers](#), [Y Sato](#), [WT Yuh](#), [VM Runge](#), [MR Morris](#)... - Radiology, 1994 - pubs.rsna.org

... Dextran-coated superparamagnetic iron oxide (BMS 180549; Bristol-Mey- ers Squibb Diagnostics, Princeton, NJ) was ... given a thorough physical examination before and 24 hours after contrast

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