

Accepted Manuscript

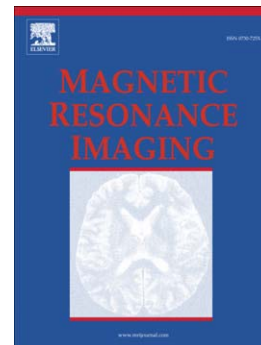
Gadolinium based contrast agents (GBCA): Safety overview after 3 decades of clinical experience

Emanuel Kanal

PII: S0730-725X(16)30122-9
DOI: doi: [10.1016/j.mri.2016.08.017](https://doi.org/10.1016/j.mri.2016.08.017)
Reference: MRI 8609

To appear in: *Magnetic Resonance Imaging*

Received date: 19 July 2016
Accepted date: 20 August 2016



Please cite this article as: Kanal Emanuel, Gadolinium based contrast agents (GBCA): Safety overview after 3 decades of clinical experience, *Magnetic Resonance Imaging* (2016), doi: [10.1016/j.mri.2016.08.017](https://doi.org/10.1016/j.mri.2016.08.017)

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TITLE PAGE

Gadolinium based contrast agents (GBCA): Safety overview after 3 decades of clinical experience

Emanuel Kanal, MD, FACR, FISMRM, MRMD
Director, Magnetic Resonance Services
Professor of Radiology and Neuroradiology
University of Pittsburgh Medical Center
Presbyterian Radiology Suite 200 East Wing
200 Lothrop Street
Pittsburgh, PA 15213
ekanal@pitt.edu

Abstract:

In the past three decades we have learned much about the potential short term and long term safety issues associated with the intravenous administration of gadolinium based contrast agents (GBCA). Yet, surprisingly, the past few years and even months have been accompanied by new discoveries in this field. This manuscript focuses predominantly on what we have learned – and are continuing to learn - about the long term potential MR safety issues associated with the administration of the various GBCA available today, and will highlight areas in which they appear to differ from each other at least in a quantitative fashion, if not qualitatively.

Keywords:

magnetic resonance imaging, MRI, contrast agents, safety, gadolinium, GBCA, NSF, nephrogenic systemic fibrosis, transmetallation

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