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2 Hydroxyglutarate Detection By Magnetic Here we report the noninvasive detection of 2HG by proton magnetic resonance spectroscopy (MRS). We developed and optimized the pulse sequence with numerical and phantom analyses for 2HG detection,... 2-hydroxyglutarate detection by magnetic resonance ... Magnetic resonance spectroscopy (MRS) has been identified as a tool in the diagnosis of IDH mutant gliomas via the non-invasive detection of 2-HG [5,6,7,8,9]. Alongside diagnostic applications, non-invasive detection and quantification of 2-HG levels within the mutant gliomas is highly desirable for the development of

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targeted treatment and response monitoring. Magnetic Resonance Spectroscopy for Detection of 2 ... This results in the production of an oncometabolite, 2-hydroxyglutarate (2-HG). Glioma patients harboring IDH mutations have a longer survival than their wild-type counterparts. 2-HG has been detected noninvasively in gliomas with IDH mutations using magnetic resonance spectroscopy (MRS), suggesting its potential clinical relevance for identifying glioma subtypes with better prognosis. 2-Hydroxyglutarate as a Magnetic Resonance Biomarker for ... 2-hydroxyglutarate (2HG) in the tumor. Here we report the noninvasive detection of 2HG by proton magnetic resonance spectroscopy (MRS). We developed

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and optimized the pulse sequence with numerical and phantom analyses for 2HG detection, and we estimated the concentrations of 2HG using spectral fitting in the tumors of 30 subjects. Detection of 2HG 2-hydroxyglutarate detection by magnetic resonance ... Non-invasive detection of 2-hydroxyglutarate and other metabolites in IDH1 mutant glioma patients using magnetic resonance spectroscopy. Mutations of the isocitrate dehydrogenase 1 and 2 genes (IDH1 and IDH2) are commonly found in primary brain cancers. We previously reported that a novel enzymatic activity of these mutations results in the production of the putative oncometabolite, R(-)-2-hydroxyglutarate (2-HG). Non-

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invasive detection of
2-hydroxyglutarate and other
... 2-Hydroxyglutarate Detection by
Short Echo Time Magnetic
Resonance Spectroscopy in Routine
Imaging Study of Brain Glioma at
3.0 T. Crisi, Girolamo MD *; Filice,
Silvano MSc †; Michiara, Maria MD ‡;
Crafa, Pellegrino MD §; Lana, Silvia
MD * 2-Hydroxyglutarate Detection
by Short Echo Time Magnetic
... short echo time magnetic
resonance spectroscopy (short TE
MRS) for 2HG detection as
biomarker of isocitrate
dehydrogenase (IDH) status in all
grade glioma (GL). METHODS: A
total of 82 GL patients were
prospectively investigated by short
TE Spectral analysis was performed
using linear combination
model. 2-Hydroxyglutarate

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Detection by Short Echo Time

Magnetic ... Detection of

"Oncometabolite"

2-hydroxyglutarate by Magnetic Resonance Analysis as a Biomarker of IDH1/2 Mutations in Glioma

Somatic mutations in isocitrate dehydrogenase (IDH)1 and 2 have been identified in a subset of gliomas, rendering these tumors with elevated levels of

"oncometabolite,"

D-2-hydroxyglutarate

(2HG). Detection of

"Oncometabolite"

2-hydroxyglutarate by ... Diagnostic accuracy of 2-hydroxyglutarate

magnetic resonance spectroscopy

in newly diagnosed brain mass and

suspected recurrent gliomas 2HG

MRS provides diagnostic utility for

IDH-mutant gliomas both

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preoperatively and at time of suspected tumor recurrence. Diagnostic accuracy of 2-hydroxyglutarate magnetic ... Somatic mutations in isocitrate dehydrogenase (IDH)1 and 2 have been identified in a subset of gliomas, rendering these tumors with elevated levels of “oncometabolite,”

D-2-hydroxyglutarate (2HG). Herein, we report that 2HG can be precisely detected by magnetic resonance (MR) in human glioma specimens and used as a reliable biomarker to identify this subset of tumors. Detection of “oncometabolite”

2-hydroxyglutarate by ... We previously reported that a novel enzymatic activity of these mutations results in the production

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of the putative oncometabolite, R(-)-2-hydroxyglutarate (2-HG). Here we investigated the ability of magnetic resonance spectroscopy (MRS) to detect 2-HG production in order to non-invasively identify patients with IDH1 mutant brain tumors. Non-invasive detection of 2-hydroxyglutarate and other ... Although not in widespread clinical use, it is likely that 2-hydroxyglutarate, which resonates at 2.25 ppm, will be able to be detected in vivo using MR spectroscopy (MRS), and thus IDH-1 status could be detected preoperatively 1. This is important, as it is increasingly recognized that IDH-1 status has a significant impact on prognosis. 2-hydroxyglutarate | Radiology Reference Article ... The

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IDH1/2 mutation-specific elevation of 2HG prompted us to examine its potential as a biomarker for noninvasive and, preferably, imaging-based detection of the subset of glioma patients harboring IDH1/2 mutations. Nuclear magnetic resonance (NMR) spectroscopic Detection of “oncometabolite”

2-hydroxyglutarate by ... Glioma patients harboring IDH mutations have a longer survival than their wild-type counterparts. 2-HG has been detected noninvasively in gliomas with IDH mutations using magnetic resonance spectroscopy (MRS), suggesting its potential clinical relevance for identifying glioma subtypes with better prognosis. 2-Hydroxyglutarate as a Magnetic Resonance Biomarker for

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... Detection of 2-hydroxyglutarate in IDH-mutated Glioma Patients by in Vivo Spectral-Editing and 2D Correlation Magnetic Resonance Spectroscopy Mutations in the gene isocitrate dehydrogenase 1 (IDH1) are present in up to 86% of grade II and III gliomas and secondary glioblastoma. Detection of 2-hydroxyglutarate in IDH-mutated Glioma ... This high concentration of 2HG (5 to 35 mM) is suitable for detection by in vivo magnetic resonance spectroscopy (MRS). Because the sensitivity threshold of in vivo MRS is roughly 1 mM, 2HG is not... Detection of 2-Hydroxyglutarate in IDH-Mutated Glioma ... Accumulation of 2-HG within the cytoplasm surpasses the detection threshold of magnetic resonance spectroscopy (MRS) at

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clinical field strengths, and therefore may be utilized as a biomarker for the non-invasive detection of Magnetic Resonance Spectroscopy for Detection of 2 ... 2-hydroxyglutarate detection by short echo time magnetic resonance spectroscopy in routine imaging study of brain glioma at 3.0 T. *J Comput Assist Tomogr* 2018 ;42(3):469-474. Comparative Value of 2-Hydroxyglutarate-to-Lipid and ... Magnetic resonance spectroscopy (MRS) is well suited to the task of noninvasive D-2HG detection, and there has been much interest in developing such methods. Here, we review recent efforts to translate methodology using MRS to reliably measure in vivo D-2HG into clinical research. The \$domain Public Library

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