



## Quantitative MR renography using a calibrated internal signal (ERETIC)

Submitted by Laurent Lemaire on Fri, 09/26/2014 - 14:55

Titre	Quantitative MR renography using a calibrated internal signal (ERETIC)
Type de publication	Article de revue
Auteur	Franconi, Florence [1], Chapon, Catherine [2], Lemaire, Laurent [3], Lehmann, V [4], Barantin, L [5], Akoka, S [6]
Editeur	Elsevier
Type	Article scientifique dans une revue à comité de lecture
Année	2002
Langue	Anglais
Date	Jan-10-2002
Numéro	8
Pagination	587-92
Volume	20
Titre de la revue	Magnetic Resonance Imaging
ISSN	0730725X
Mots-clés	electronic reference [7], ERETIC [8], MR renography [9], quantitative MRI [10]
Résumé en anglais	<p>To measure MR renograms, cortical and medullary kidney signal intensity evolution is followed after contrast agent injection. To obtain an accurate quantitative signal measurement, the use of a reference signal is necessary to correct the potential MRI system variations in time. The ERETIC method (Electronic Reference To access In vivo Concentrations) provides an electronic reference signal. It is synthesized as an amplitude modulated RF pulse applied during the acquisition. The ERETIC method was as precise as the external tube reference method but presents major advantages like its free adjustability (shape, location and magnitude) to the characteristics of the organ studied as well as its not taking room inside the magnet. Even though ERETIC showed a very good intrinsic stability, systems' variations still affect its signal in the same way as real NMR signals are affected. This method can be easily implemented on any imaging system with two RF channels.</p>
URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua4154">http://okina.univ-angers.fr/publications/ua4154</a> [11]
DOI	10.1016/S0730-725X(02)00593-3 [12]
Titre abrégé	Magnetic Resonance Imaging

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### Liens

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- [12] [http://dx.doi.org/10.1016/S0730-725X\(02\)00593-3](http://dx.doi.org/10.1016/S0730-725X(02)00593-3)

Publié sur *Okina* (<http://okina.univ-angers.fr>)