Titolo (provvisorio): Determinants of Renal Tissue Oxygenation as Measured with BOLD-MRI in Chronic Kidney Disease

Relatore/i: Fato Marco Massimo, Benedetta Toselli (DIBRIS), Beatrice Damasio (Gaslini)

E-mail: marco.fato@unige.it

Indirizzo: Viale Causa 13 - Piano -1

Tel.: (+39) 010 353-2789

Motivazione e campo di applicazione

Experimentally renal tissue hypoxia appears to play an important role in the pathogenesis of chronic kidney disease (CKD).

Obiettivi generali e principali attività

In this study we measured renal tissue oxygenation and its determinants in humans using blood oxygenation level-dependent magnetic resonance imaging (BOLD-MRI) under standardized hydration conditions. Different coronal slices were selected, and a multi gradient echo sequence was used to acquire T2* weighted images.

Obiettivi di apprendimento (strumenti tecnici e analitici, metodologie sperimentali)

- study different tools and methods of applying BOLD-MRI analysis on CKD
- select best tool for BOLD-MRI analysis and test feasibility on images of children and neonates

Loco/i in cui si svolgerà il lavoro: DIBRIS - Gaslini

Informazioni aggiuntive

Numero massimo di studenti: 1