Presents

Ernesta Meintjes, Ph.D

Fulbright Research Fellow, UCLA
South African Research Chair in Brain Imaging, University of Cape Town
MRC/UCT Medical Imaging Research Unit
http://www.miru.uct.ac.za/

Tuesday, December 09, 2010 at 11 AM
LONI DIVE Theater, 635 Charles E. Young Drive South, Suite 225

Real-time motion correction for Neuroimaging of children with FASD in Cape Town, South Africa

Abstract:
I will describe some of the work from ongoing neuroimaging studies of children with Fetal Alcohol Spectrum Disorder in Cape Town, South Africa. In order to address concerns about image quality and poor water suppression in spectroscopy data, we have implemented a 3D EPI Volume Navigator into a PRESS single voxel spectroscopy sequence that performs real-time motion and first-order shim correction every TR. I will describe the sequence and present results showing improved MRS data quality and reduced variance in metabolite concentrations in the cerebellar deep nuclei in 9-year old children using the new sequence. The technique has also been implemented in spectroscopic imaging and DTI sequences, for which I will show preliminary results.

For information, please contact Ivo Dinov at 310.206.2101

Funded by P41 RR013642

http://www.loni.ucla.edu