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STARTS APPROVAL EXPIRES

AUG 12 2011 TO APR 18 2012

UNIVERSITY OF ILLINOIS AT CHICAGO  
INSTITUTIONAL REVIEW BOARD

## **Request for Research Volunteers**

### **Research MR Imaging of Brain Tumors at 9.4 and 3.0 Tesla**

Approved IRB Protocol 2011-0285

If you are over 18 years of age and have a newly diagnosed brain tumor that will be treated with radiation at the University of Illinois Medical Center, you may be able to volunteer for a research study. The study involves MR imaging of your brain and tumor using an MR scanner that works at the much higher magnetic field of 9.4 Tesla than clinical MR scanners. The study involves measuring the cell density in your brain and tumor each week during radiation treatment. Your thinking ability and vital signs will also be measured before and after each imaging session at 9.4 Tesla. You will also be imaged at 3.0 Tesla. The imaging takes less than 60 minutes at 9.4 Tesla and less than 30 minutes at 3.0 Tesla.

Your ability to think will be measured by an interviewer. Your vital signs of blood pressure, heart rate, respiratory rate and temperature will be measured non-invasively. For imaging, you will lie on your back in each MR scanner and MRI pictures will be taken of your brain. The MRI pictures at 9.4 Tesla are not the same as images taken at 3.0 Tesla but display different chemical properties of your brain.

This study will help us develop the imaging technology to understand brain chemistry in health and disease. We appreciate your participation. The study is at the Center for Magnetic Resonance Research at the University of Illinois Medical Center.

Please contact the Principal Investigator, Keith Thulborn, MD, PhD, in the Center for MR Research at UIC at [kthulbor@uic.edu](mailto:kthulbor@uic.edu) or 312 355 3755.