

# CHOP Research Institute Summer Scholars Program



**Lisa J. States, M.D.**

Body Imaging, Radiology

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**Clinical Research:** Patient-oriented research examining the safety and effectiveness of diagnostics, medicines or medical devices (may involve human subjects or data collected from human subjects)

## Advanced Imaging Protocols for the Evaluation of Children with Cancer

My research interests are focused on the development of novel advanced imaging protocols for the evaluation of children with cancer. Imaging modalities include *Magnetic Resonance Imaging (MRI)* and Molecular Imaging using *Positron emission tomography (PET) scan* and *contrast enhanced ultrasound* using microbubbles.

- **Potential summer research project:**
  - (1) Evaluate the utility of contrast enhanced ultrasound in detection and evaluation of tumors;
  - (2) Identification of imaging biomarkers for tumors and comparison with genomic data; and
  - (3) Evaluate the amount of radiation required to create high quality images using PET/MR technology (a new technology that is being developed for clinical use) with a focus on using the lowest dose possible.
- **Students will learn the following techniques:**
  - (1) Analyze imaging data;
  - (2) Assess workflow and improve patient care; and
  - (3) Assess quality of imaging studies.

Please click [here](#) to read more about Dr. States