

Use of Hyperpolarized Xenon Gas for Lung Imaging in Children and Adults

Status: RECRUITING

Eligibility Criteria

Sex: ALL

Age: 6 years and over

Healthy Volunteers: This study is also accepting healthy volunteers

Inclusion Criteria:

- Ages 6 and up
- Participant must be able to hold breath for up to 16 seconds

Exclusion Criteria:

- History of heart defect
- Pregnancy or positive pregnancy test
- History of uncontrolled asthma defined for this study as requiring use of rescue inhaler ≥ 2 times in past month
- Symptoms of respiratory infection (loose or productive cough or wheeze), chest tightness, or sinus infection within past week
- Baseline oximetry at MRI visit of less than 95% on room air or less than 95% on a previously prescribed dosage of oxygen delivered by nasal cannula
- Participant is claustrophobic and unable to tolerate the imaging.
- Standard MRI exclusions (metal, implants)

Conditions & Interventions

Interventions:

DRUG: Hyperpolarized 129 Xenon

Conditions:

Respiratory Disorders

Keywords:

Respiratory

More Information

Description:

The goal of this study is to evaluate the usefulness of hyperpolarized (HP) 129Xe (xenon) gas MRI for regional assessment of lung function in a normal population of children and adults and in adults and also in children with respiratory compromise due to a variety of diseases.

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Principal Investigator ID:

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IRB Number:

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