

Using Xe MRI to Guide Radiation Therapy for Lung Cancer

NCT06925295

Status	RECRUITING
Phase	Phase 2
Sponsor	Sean Fain
Enrollment	15 participants

Plain Language Summary

This study is using xenon gas MRI — a special type of breathing scan — to take detailed images of how air moves inside the lungs. The goal is to use this information to plan more precise radiation therapy for lung cancer, protecting healthy lung tissue while targeting the tumour.

****You may be eligible if...****

- You are between 18 and 80 years old
- You have a confirmed diagnosis of lung cancer and are scheduled for stereotactic body radiation therapy (SBRT — a highly targeted form of radiation)
- You are able to give informed consent and attend the required visits

****You may NOT be eligible if...****

- You are under 18 or are incarcerated
- You have a medical device or condition that makes MRI unsafe (based on standard MRI screening questions)
- You are unable to hold your breath briefly as required for the xenon gas scan

Talk to your doctor to see if this trial is right for you.

Key Eligibility Criteria

Inclusion (3)

- Aged 18-80 years
- Willing and able to provide informed consent and adhere to visit/protocol schedules (Consent must be given before any study procedures are performed.)
- Clinical diagnosis of lung cancer made by a board-certified oncologist with intent to treat with stereotactic body radiation therapy. We will not exclude individuals based on cancer type or severity of disease with the exception of the below criteria

Exclusion (14)

- Subjects presenting with any of the following will not be included in the trial:
- Subject is less than 18 years old or incarcerated
- MRI is contraindicated based on responses to MRI screening questionnaire
- Subject is pregnant or lactating
- Resting oxygen saturation $\leq 90\%$ on supplemental oxygen
- ... and 9 more (see full listing online)

Locations (1 total)

University of Iowa, Iowa City, Iowa, United States

<https://clinicaltrials.gov/study/NCT06925295>

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