

Cognitive Training in the Virtual Reality Setting With Children Undergoing Radiotherapy for Brain Tumors

NCT05947045

Status	RECRUITING
Phase	Not Applicable
Sponsor	St. Jude Children's Research Hospital
Enrollment	45 participants

Plain Language Summary

This study is testing whether computerized cognitive training (Cogmed) delivered in a virtual reality setting can help children and young adults who are undergoing brain tumor radiation therapy maintain or improve their thinking and memory skills. Radiation to the brain can affect cognition, and the researchers want to see if this program helps.

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

- You are between 8 and 22 years old and are starting radiation therapy for a brain tumor
- English or Spanish is your primary language
- You and a parent are both willing to participate
- You are willing to complete the required Cogmed training sessions

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

- Your IQ is below 70 (significant intellectual impairment)
- You had a significant neurological condition before your brain tumor diagnosis (such as a stroke)
- You have a major sensory or motor impairment that prevents using the virtual reality equipment

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

Key Eligibility Criteria

Inclusion (5)

- Initiating radiotherapy for a BT
- Between 8-22 years of age at the time of enrollment
- English or Spanish as the primary language
- Research participant and one parent willing to participate and provide consent/assent according to institutional guidelines
- Participant willing to take part in required aspects of Cogmed training

Exclusion (5)

- Significant impairment in global intellectual functioning (estimated or full scale IQ < 70 based on standardized testing routinely conducted on primary treatment protocols or as part of the New Oncology Program in Psychology \[NOPP\])
- History of significant neurological disease preceding BT diagnosis including stroke or head injury with loss of consciousness
- Major sensory or motor impairment that would preclude valid cognitive testing secondary to inability to complete study procedures (e.g., blindness, paresis, poorly controlled seizures/photosensitive epilepsy, inadequate balance to sit or stand unassisted to complete cognitive training)
- Psychiatric condition that would preclude or take precedence over study participation (e.g. active psychosis, suicidal ideation)
- Need for general anesthesia during radiation therapy (note: can participate if only sedated for simulation/planning but not daily treatment)

Locations (1 total)

<https://clinicaltrials.gov/study/NCT05947045>

St. Jude Children's Research Hospital, Memphis, Tennessee, United States

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