

# Effect of Untact Upper Extremity Rehabilitation Using a Smart Board for Late Subacute and Chronic Patients With Brain Disorder

NCT06837363

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Status	RECRUITING
Phase	Not Applicable
Sponsor	Samsung Medical Center
Enrollment	40 participants

## Key Eligibility Criteria

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### Inclusion (5)

- Patients with neurological diseases aged 19 to 85 years old
- Patients with hemiparesis lasting for more than 3 months due to neurological diseases (stroke, traumatic brain injury, brain tumor) and impaired upper limb function
- Patients with shoulder flexor and adductor muscle strength of MRC grade 2 or higher
- Patients with shoulder extensor and abductor spasticity of MAS grade 1+ or lower
- Participants with sufficient cognitive function to understand the instructions from the researcher and the smart board, and to perform the tasks (K-MMSE e21)

### Exclusion (9)

- pre-existing significant neurogenic disorders
  - major psychiatric disorders such as schizophrenia, bipolar disorder, or dementia
  - History of diseases that caused pain or muscle atrophy in the affected upper limb before the onset of the neurological disease, which interfered with rehabilitation
  - Severe spasticity of the affected upper limb (Modified Ashworth Scale score e3)
  - skin disorders or open wounds on the affected upper limb
- ... and 4 more (see full listing online)

## Locations (1 total)

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Samsung medical center, Seoul, South Korea