

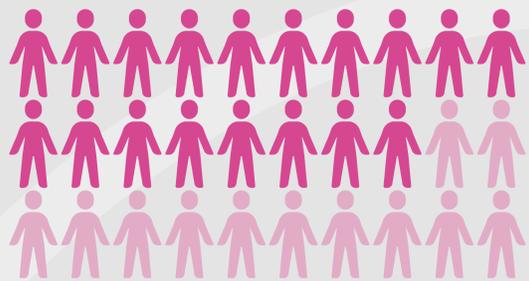
The BRC-THAI is a reliable and valid scale for assessing the perceived reactive ability to arrest falls in patients with subacute stroke.

RELIABILITY AND CONCURRENT VALIDITY OF THE BALANCE RECOVERY CONFIDENCE (BRC) SCALE-THAI VERSION IN PATIENTS WITH SUBACUTE STROKE

Stroke often causes balance impairments and increases fall risk. Reactive responses like protective stepping are commonly limited on the affected side. The Balance Recovery Confidence (BRC) scale, grounded in Bandura's self-efficacy theory, assesses confidence in balance recovery but has not been validated in stroke populations. This study aimed to translate and culturally adapt the BRC into Thai language and evaluate its reliability and validity in individuals with subacute stroke.

RESULTS

30 patients with subacute stroke (average stroke onset 76.83 ± 48.98 days)

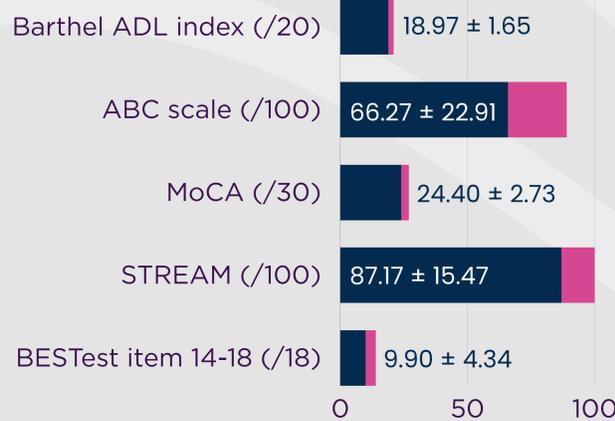


56.7% were left sided weakness

- 70% walking 10 meters without gait aids
- 40% with at least one fall in the past year
- 53.3% with primary school education

Baseline Measurement

Mean ± SD



High test-retest reliability of BRC-Thai

BRC (/190)	Mean±SD	Intraclass Correlation Coefficient: ICC (3,1)
Test 1	119.50 ± 52.28	0.985
Test 2	122.07 ± 52.29	

- Strong +ve correlation with ABC-Thai: $r = 0.871$
- Strong +ve correlation with BESTest items 14-18: $r = 0.784$

METHODS

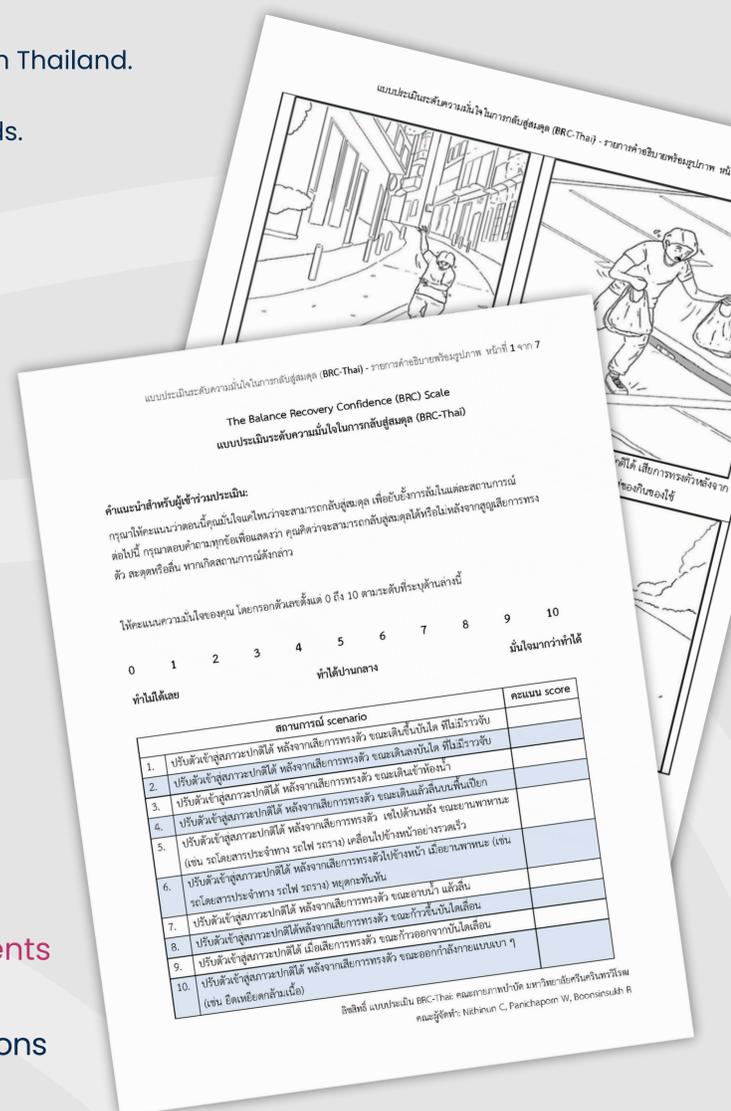
INCLUSION CRITERIA:

Subacute stroke patients (<6 mo) able to stand 2 min and walk 10 m, recruited from a tertiary hospital in Thailand.

EXCLUSION CRITERIA:

Other neurological disorders, MoCA <18, uncorrected hearing loss, or inability to follow simple commands.

CROSS-CULTURAL ADAPTATION PROCESS



BRC-Thai administered twice, 7 days apart, with researcher reading items and showing illustrations. ABC-Thai and BESTest items 14-18 administered once.

IMPLICATIONS:

High reliability and strong concurrent validity of the BRC-Thai in subacute stroke patients

- Simple and quick to administer (approximately 5-7 minutes)
- Helps clinicians understand patients' confidence in balance recovery during perturbations
- Supports the development of targeted fall prevention programs