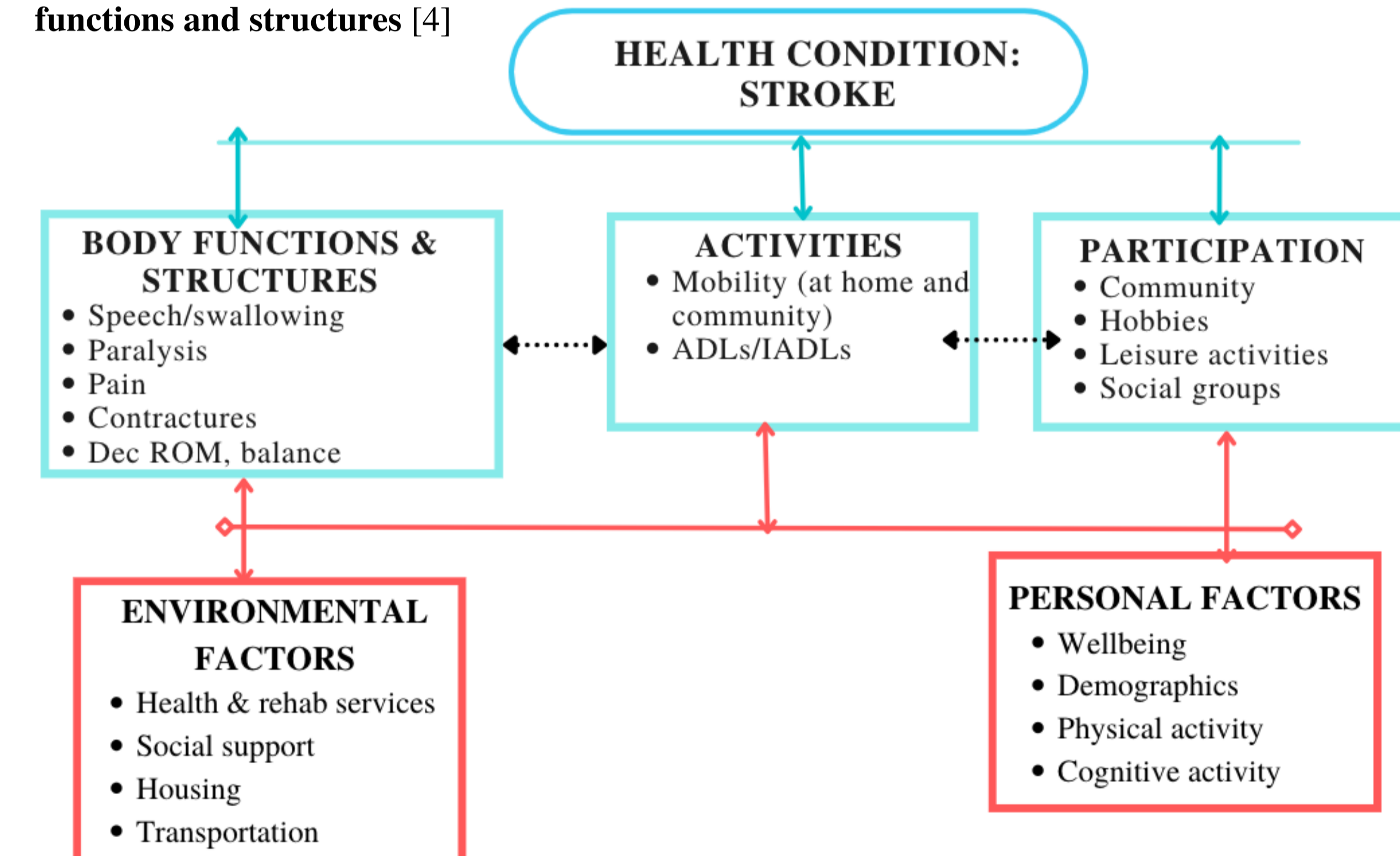


Introduction

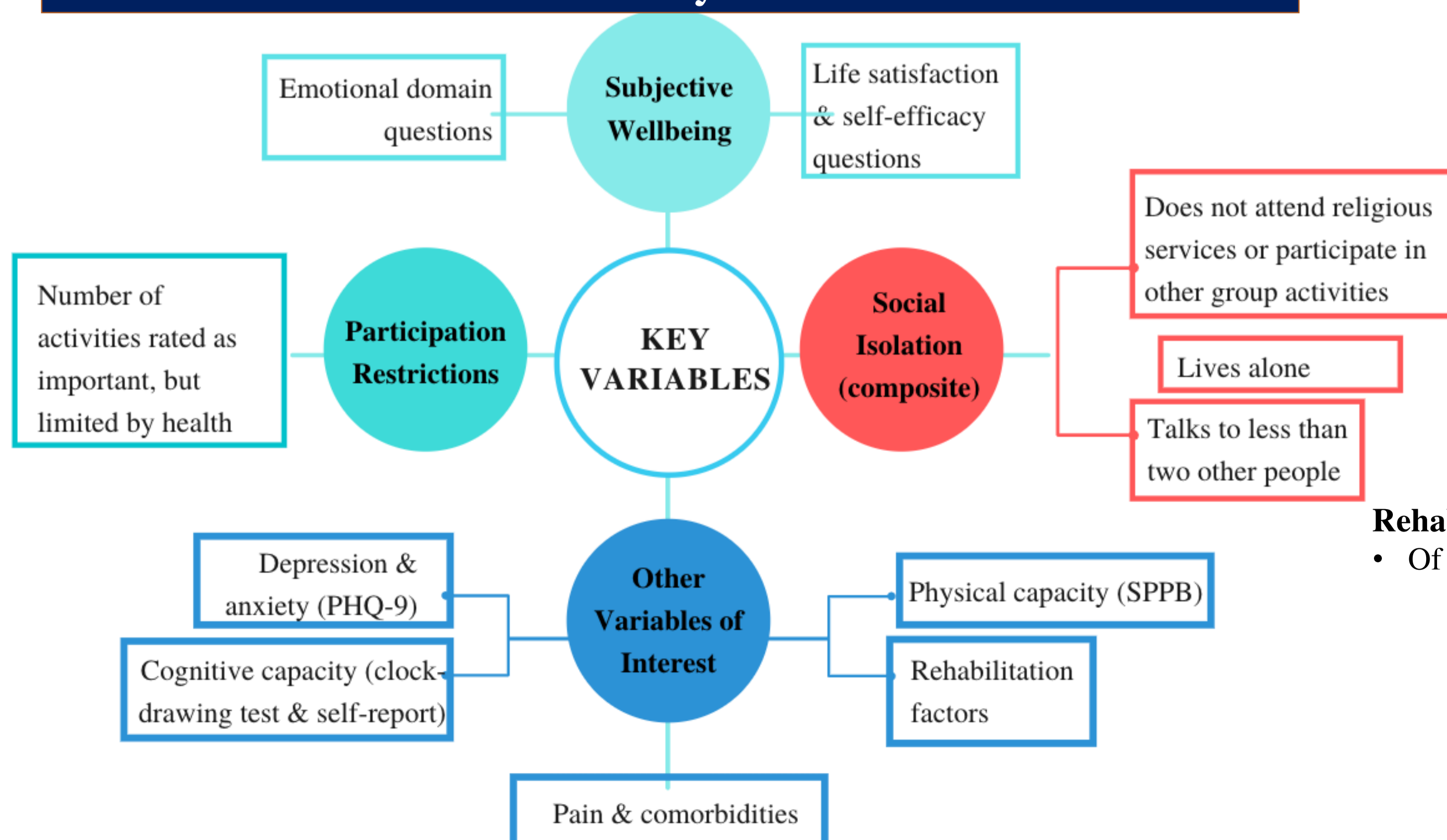
- Stroke is a leading cause of disability in older adulthood, can lead to difficulties participating in meaningful activities and maintaining quality of life [1]
- Several studies have shown that participation in social and leisure activities decline post-stroke and remain lower than pre-stroke levels over time, which may negatively impact stroke survivor's wellbeing [3]
- Notable studies using nationally representative survey data from the National Health and Aging Trends Study (NHATS) have found that stroke survivors may experience more participation restrictions; physical and cognitive capacity and depression and anxiety symptoms may contribute to participation restrictions among stroke survivors, but the nature of this relationship is unclear [1,2]
- The current study examined the relationships between key variables that may influence participation among stroke survivors <1-year post-stroke
- Data was used from the National Health & Aging Trends Study (NHATS), 2019

The ICF Framework

This study used the International Classification of Functioning, Disability, and Health (ICF) model to emphasize the interconnected roles of environmental factors, personal factors, and body functions and structures [4]



Methods: Key Variables



Methods: Overview

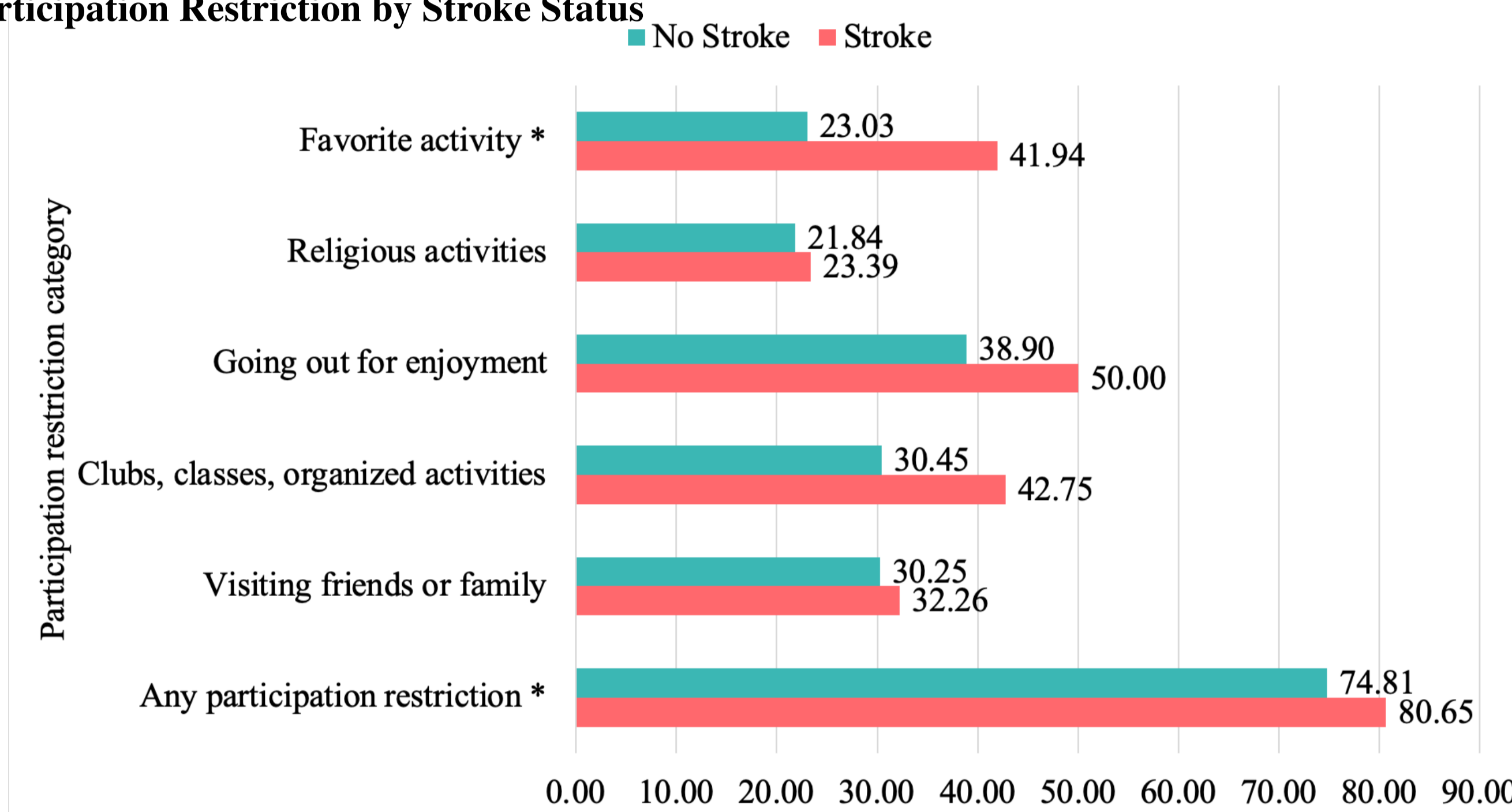
- Literature Review:** Gap identification & question development
- NHATS Data Review:** Variable selection & groupings, ICF mapping
- Data Cleaning:** Recoding variables & composite scores in SAS
- Data Analysis:** Descriptive statistics & bivariate analyses
- Interpretation:** Key findings, limitations, future directions

Demographics Summary

- 124 w/stroke
- 60% female
- 45% Aged 75-84
- 56% White
- 87% 2+ Comorbidities

Results

Participation Restriction by Stroke Status



Key Variables by Stroke Status

Variables	Stroke (n = 124)		No Stroke (n = 4,330)		p value
	n	%	n	Weighted %	
Personal factors					
Self-rated health					
Poor-fair	59	47.58%	1089	21.21%	*.00063
Good-very good	61	49.20%	2849	65.64%	
Excellent	4	3.22%	388	10.88%	
Depression: PHQ2 (yes)	34	27.42%	512	10.51%	*<.0001
Anxiety: PHQ2 (yes)	26	20.97%	410	8.10%	*<.0001
Mental Health Symptoms (PHQ-9)					*<.0001
Moderate-Severe	26	25.00%	317	7.32%	
Clock-Drawing Test					
0: Not recognizable	4	4.00%	33	0.49%	*.0017
1: Severely distorted	3	3.00%	146	2.53%	
2: Moderately distorted	15	15.00%	364	7.25%	
3: Severely distorted	3	3.00%	146	2.53%	
Physical Capacity (SPPB)					
0-3	58	46.77%	1086	25.08%	*<.0001
4-6	20	16.13%	961	22.19%	
7-9	21	16.94%	1092	25.22%	
10-12	8	6.45%	750	17.32%	
Participation Restrictions (total)					
2 restricted activities	31	25%	943	22.90%	*.0097
3 restricted activities	27	21.77%	586	13.77%	
4 restricted activities	12	9.68%	238	5.27%	
5 restricted activities	3	2.42%	64	1.23%	
6 restricted activities	1	0.81%	23	0.53%	
Social Isolation (total score)					
0: Severe social isolation	3	2.42%	301	8.48%	.5155
1: Social isolation	13	10.48%	928	24.14%	
2: Socially integrated	86	69.35%	2685	65.21%	
3: Socially integrated	1	0.81%	23	0.53%	

Rehabilitation Factors

- Of the 124 stroke survivors, only **47.97%** received rehabilitation services in the last year

Duration	Goals	Functioning
18.64% less than 1 month	24.14% improve pain	44.74% improved
49.15% 1 to 3 months	67.24% improve strength	52.63% stayed about the same
16.95% 4 to 5 months	67.24% improve ROM	2.63% varied
15.25% 6 months or more	25.86% improve participation	

Key Findings Summary

Participation

- A significantly greater percent of stroke survivors experienced **more than two participation restrictions** in valued activities
- They also reported **restriction in their favorite activity** due to health-related limitations.

Health Status

- A significantly greater percent of stroke survivors reported **symptoms indicative of depression and anxiety** according to the PHQ-2;
- A greater percent also scored **lower on measures of physical and cognitive capacity**

Rehabilitation

- Less than **50% of stroke survivors reported receiving rehabilitation services** in the last year, and of those, only **25.86% reported goals to improve participation**
- A majority reported that their **functioning post-rehab stayed the same**

Wellbeing

- Stroke survivors also scored **significantly lower on the Subjective Wellbeing Scale** compared to those who did not experience a stroke

Discussion

- In this national sample of recent stroke survivors (<1 year), a significant percent experienced restrictions in valued social and leisure activities.
- Less than half of the stroke survivors in this sample received rehabilitation services in the last year; and of the group that received services, only 25% addressed goals for participation in activities.
- These findings are important because they indicate a gap in rehabilitation services for recent stroke survivors; early, comprehensive rehab that addresses stroke's impact across different domains of health and participation is vital to stroke survivorship [2].
- This study also supports that the most common goals for stroke rehabilitation include improving strength, endurance, and range-of-motion [5].
- Though these are important areas to address, they may not adequately improve participation and wellbeing; results from this study support previous findings that suggest that subjective wellbeing in stroke survivors' is lower than typically-aging populations [3,5]
- Social isolation was similar between the two study groups, which indicates that stroke may not primarily impact social isolation; more research is needed to explore this relationship.

Limitations & Future Research

Limitations

- Small sample size limits generalizability & statistical power to create predictive models
- Did not match groups for socio-demographics & comorbidities
- Stroke diagnosis & most other data derived from self-report
- Stroke diagnosis only reported in the last year – participation trends may change as individuals adapt to their condition
- NHATS – Medicare-only and oversamples the oldest age groups, results may not be generalizable to the stroke population

Future Research

- Larger sample size, more diverse sample characteristics
- Influence of predictor variables (physical & cognitive capacity, mental health) on participation
- Impact of time on participation
- Effectiveness of OT stroke interventions that address participation
- Correlation between participation and wellbeing
- COVID impacts

Contact & References:

