



The Relationship of Physical Function to Social Integration Following Stroke

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BACKGROUND

- Stroke is a leading cause of death and disability, and adversely affects social functioning due to physical, cognitive, and psychological deficits
- Research and intervention in stroke has focused on physical/functional recovery as the predominant measure of outcome
- Integration to family and social roles, while increasingly emphasized, remains largely unexplored in the literature

PURPOSE

- Explore the relationship among functional status, social integration, perception of overall stroke recovery and depression in stroke survivors

HYPOTHESES

- Functional status, depression, and overall stroke recovery are key factors that together influence social integration following stroke
- Co-morbid depression will be associated with decreased social integration, overall stroke recovery or both in stroke survivors

DESIGN & METHODS

- Quantitative, cross-sectional descriptive survey design
- Convenience sample of ischemic stroke survivors from acute rehab facility
- SIPSO – Subjective Index of Physical and Social Outcome
- CES-D – 10 item version
- Correlation & multiple regression analysis of relationship between variables

RESULTS

- Response rate N= 48 (21.4%)
- 27 males (56%) 21 females (44%)
- Caucasian 28 (58%), African-American 18 (38%)
- Married 27 (56%), Widowed 13 (27%), Single 6 (13%)

Spearman Rho Correlation Summary

Spearman Rho Correlations	Social Integration	Functional Score	Overall Stroke Recovery
Depression Sig (2-tailed)	-.74 .01	-.33 .026	-.49 .001
Social Integration Sig (2-tailed)		.64 .00	.58 .00
Functional Score Sig (2-tailed)			.75 .000

RESULTS –cont'd

Linear Regression Model Summary of Social Integration

Model	R	R Square	Adjusted R square	Std Error of the estimate
	.805	.649	.624	2.96

Predictors: Recovery, depression, functional score

Collinearity & Beta Coefficients

Variable	Beta	Significance	Tolerance
Depression	-.45	.001	.82
Overall Stroke Recovery	-.19	.78	.41
Functional Score	.38	.001	.45

CONCLUSION

- Functional status, overall stroke recovery and depression - **HIGHLY PREDICTIVE** of social integration
- Stroke rehab needs to focus on ALL domains - social and functional – for patients to recover sense of self & roles in their lives and families

REFERENCES: available on request