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A Depression Screening Protocol for Acute Stoke Patients: A Quality Improvement Project

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Depression Screening Protocol for Acute Stroke Patients: A Quality Improvement Project Celia McIntosh, DNP, RN, FNP-C, CCRN, CEN, SCRN, CNRN

Background

- Depression is most common emotional disturbance after stroke
- Affecting 2.5 million stroke survivors annually
- Depression has identified as a risk factor of stroke and is predicted to become the second leading cause of disability by 2020
- Has an annual cost burden \$83 billion annually, \$52 billion represents lost work days and productivity
- In 2012, Joint Commission in collaboration with the American Heart Association, recommends assessment for depression, prior to discharge from a Comprehensive Stroke Center (CSC)
- PSD can lead to increased mortality, suicidal ideation, poor functional/rehabilitation outcomes, quality of life, social isolation, and cognitive impairment
- Despite this knowledge PSD is often under recognized and undertreated.

Scope of Problem

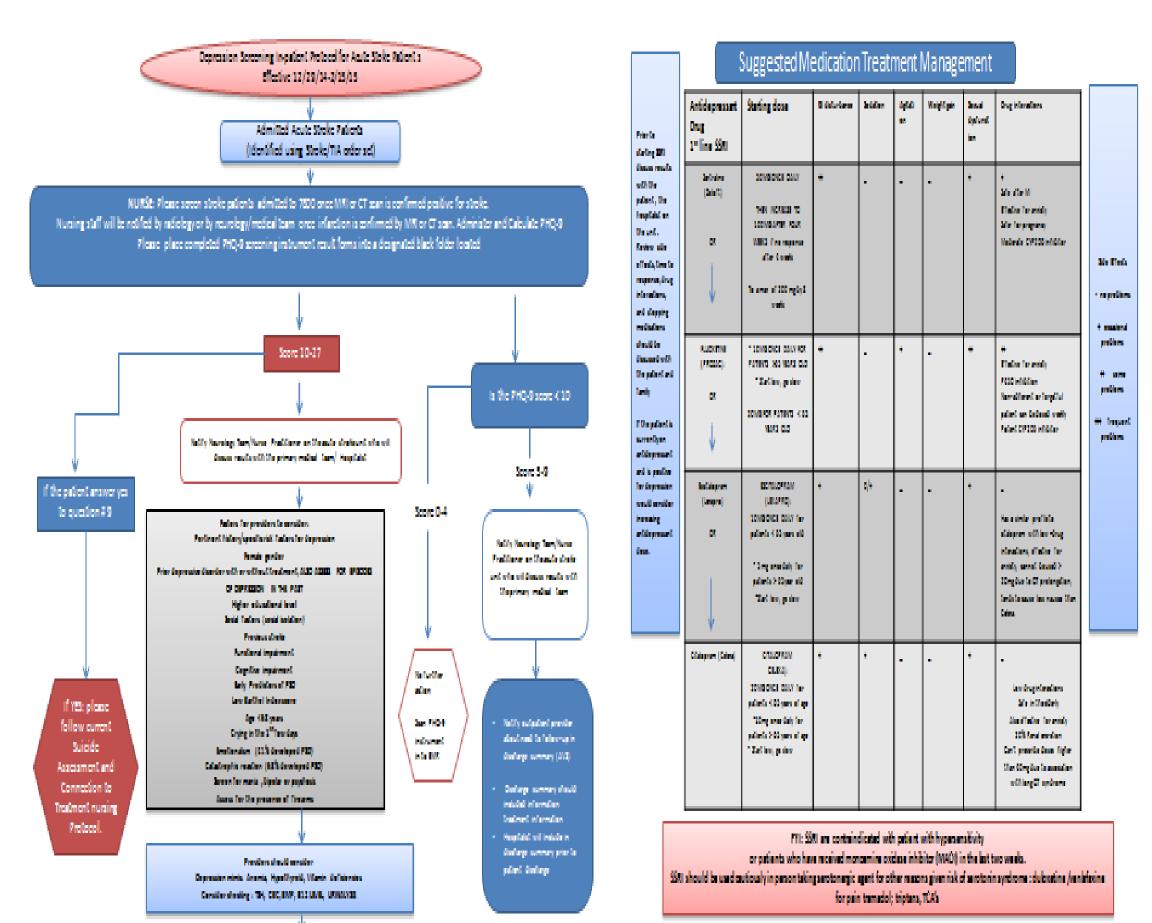
- Lack of facility implemented screening programs
- Gold standard of treatment remains undetermined
- Treatment with antidepressant following stroke improves functional recovery and long-term survival
- PSD can prolong inpatient LOS and outpatient visits

Project Purpose

To develop, implement and evaluate an evidence-Ο based depression screening and treatment protocol specific to the care of acute stroke inpatients prior to discharge



Methods



Design	Retrospective chart audit				
Setting	A designated stroke center, tertiary hospital in Upstate New York				
Sample	Purposive sample				
Participants	Inclusion:Patients admitted with stroke- positive CT Scan or MRI 18 years of age or older Able to read or understand English (or be able to utilize a translator phone or inpatient translator)ExclusionComatose, obtunded or too ill to participate				
Statistical Analysis	Descriptive statistics Frequencies table Chi–Square Pearson Correlation				

Participant Demographics

- Gender
- 48 % female
- 52 % male
- Ages 26 97
- Mean 71.2
- SD 14.3
- LOS 2-47 days
- Mean 9.3
- SD 7.43
- Day from admission to screen 0-16
 - Mean 3.2
 - SD 2.76

- Ethnicity
- 88% non-Hispanic, 12% Hispanic
- Race
- 68% white, 26 % African American, other 7%, Asian
- Why not screened
- 50% aphasic, 19% obtunded, too ill, 19% confused, 13%

Results **Clinical Variables**

Results: Clinical Variables								
Variable 1	Yes/no	Non- depressed	Depressed	P-value				
Stroke hx	Yes No	49% 55%	51% 45%	.587				
Depression hx	Yes No	43% 53%	57% 47%	.486				
Smoking hx	Yes No	53% 50%	47% 50%	.792				
Gender	Female Male	40% 61%	60% 39%	.059				
Alcohol use *	Yes No	37% 64%	63% 36%	.019				
Feeding problems	Total	54%	46%	.646				

PHQ-9 Category Variables

Results: PHQ Category Variables

PHQ categori	es Score	Hx yes	Hx No
No depressio	n 0-4	43%	55%
Mild depression	on 5-9	7%	32%
Moderate depres	sion 10-14	14%	9%
Moderate-seve Depression *		29%	2%
Severe depressi	on* 20-27	7%	2%

Protocol Variables

Results: Protocol Variables

Variable l	Yes/No	Non-depressed	Depressed	P-value
Nurse progress note documentation *	Yes No	31% 66%	69% 34%	.002
New medication *	Yes No	0% 55%	100% 45%	.018
Educational booklet *	Yes No	0% 100%	100% 0%	.000

Conclusions

- Early diagnosis and treatment of PSD has the potential to improve short and long-term patient outcomes and conserve healthcare dollars
- Integration of a systematic depression screening protocol will help standardize screening and treatment practices for acute stroke patients
- The use of a formal screening protocol is a clinically important intervention because of the detrimental effects PSD can have on the stroke survivors, their family and the healthcare system
- Nurses can intervene early during post stroke acute phase if they can identify patients at risk.

Implications for Practice

- Further research utilizing this protocol will validate its reliability in acute stroke patients in the acute care setting and add to the body of existing literature
- Further studies are needed to determine optimal timing and method of screening and ideal treatment strategy

References & Acknowledgements

- References available upon request
- Rochester General Neurology Department
- 7800 Stroke Unit Nurses

