Reducing Disparity Thru Food Insecurity Screening In Hospitalized Stroke Patients



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BACKGROUND

- Food insecurity is associated with an increased likelihood for 10 major chronic illnesses, including stroke.
- Less than half of eligible adults over age 60 participate in federal nutrition assistance programs.
- Literature supports the usefulness and feasibility of a food insecurity screening tool in the clinical setting.
- ❖ Identified knowledge gap in prevalence of food insecurity among adult stroke patients at an academic center in San Bernardino County.

OBJECTIVES

- ❖ Determine the prevalence of food insecurity among recruited adult stroke inpatients.
- Determine the patient's attitude on food insecurity screening.
- Understand the patient's perception of illness, nutrition habits, and self-efficacy for lifestyle changes to reduce stroke recurrence.
- Provide food resource for patients that screen as food insecure to reduce health disparity.

METHODS

- A convenience sample of 30 recruited adult stroke inpatients in a Progressive Step Down Unit an academic center in San Bernardino County during February to March 2022.
 - ❖ Inclusion: Recruited adult stroke patients admitted with diagnosis of ischemic stroke, intracerebral hemorrhage, and/or transient ischemic attack without Language or cognitive deficit and/or family/next of kin able to respond on patient behalf.
- A validated and reliable two-item Hunger Vital Sign food insecurity screening tool along with patient perception of illness, nutrition habits, and self-efficacy and patient attitude on food insecurity screening was applied.
- Education handout was provided on federal and local resources for food assistance.



Current Practice: No standardized food insecurity tool screening is completed for stroke patients.

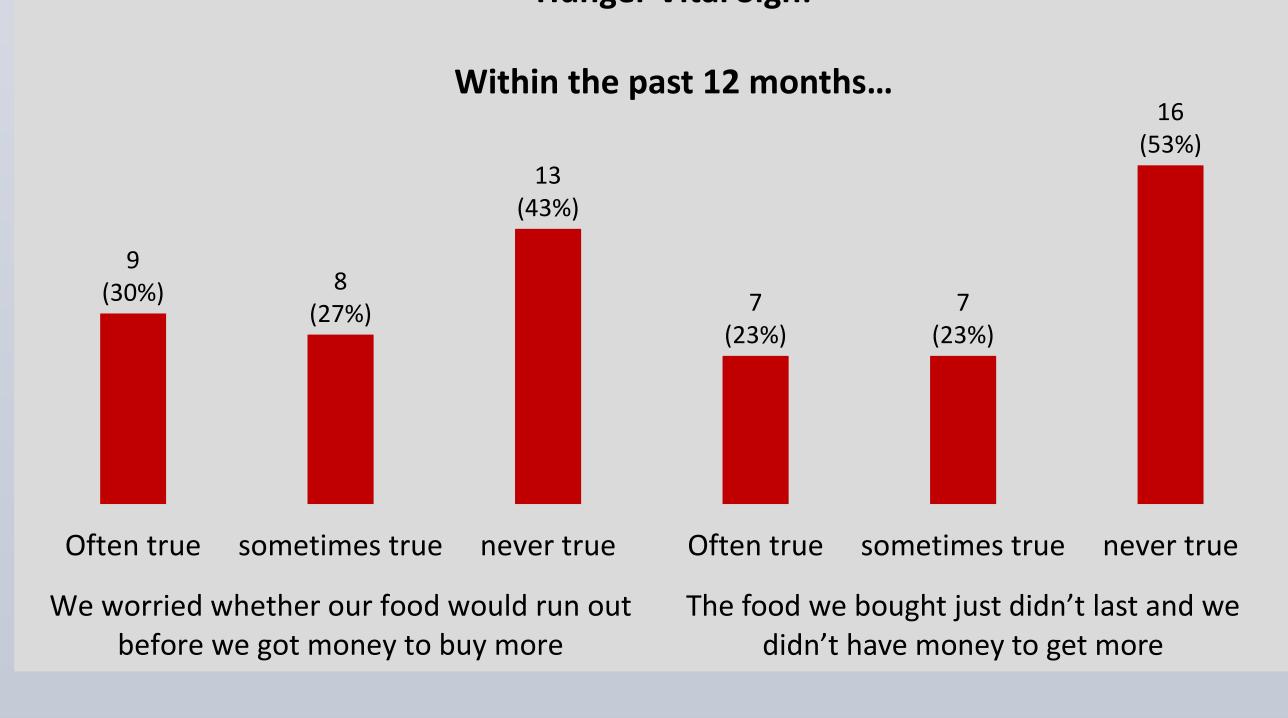
RESULTS

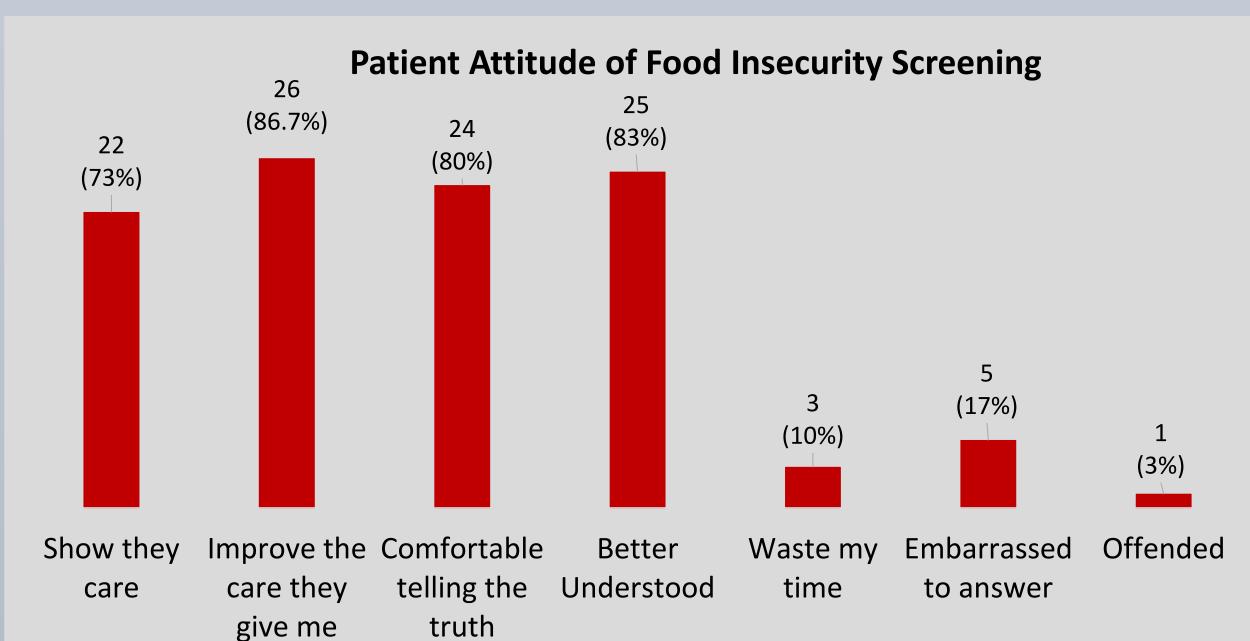
- ❖ 60% screened as positive for food insecurity.
- ❖ Total sample included, 60% with ischemic strokes, 33% with intracerebral hemorrhage, and 7% with transient ischemic attack.
- Co-morbidities included hypertension 87%, hyperlipidemia 53%, type 2 diabetes 33%, and heart failure 23%.
- ❖ Prior to hospital admission, 50% of screened patients made an effort to reduce the amount of fat in their diet and 73% made an effort to increase vegetable consumption.

Characteristics of Patients Identified as Food Insecure

Modified Diet for Dysphagia	Yes	55.6%
NIHSS Category	Moderate or severe	72.22%
GCS Category	Moderate Head Injury	11.1%
Sex	Male	66.7%
Marital Status	Not Married	52.94%
Discharge Disposition	Home	33.3%
Principal Payer Type	Medicare	22.2%
Stroke Type	Intracerebral Hemorrhage	38.9%
	Ischemic	61.1%

Hunger Vital Sign:





IMPLICATIONS FOR PRACTICE

- ❖ A 2-item Hunger Vital Sign screening tool allowed for quick identification and intervention of food insecurity in the adult stroke inpatient population.
- Nursing can assist with utilizing the multidisciplinary team to best support the patient and provide empowering discharge education to reduce health disparity.



STRENGTHS/AREAS FOR IMPROVEMENT

Strengths:

- Patient willingness to participate .
- Two item screening tool was easy to administer and well understood among diverse culture/populations.

Challenges:

- Use of convenience sampling and small sample size may lead to bias.
- Potential withholding of accurate responses by the patient to food insecurity screening questions due to sensitive nature of questions.
- COVID surges leading to disaster status on the implementation unit leading to reduced staff availability for education and participation.

NEXT STEPS

- Use of the electronic health record for food insecurity documentation to allow for outpatient follow-up and long term monitoring.
- Dissemination of project results for widespread application of food insecurity screening in all departments.

REFERENCES



CONTACT INFORMATION

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