# **CATCH RURAL Falls**

**Coordinated Action Toward** <u>Community Health: RedUce</u> **Risk And Limit Falls** 

**Introduction to the Stopping Elderly Accidents, Deaths & Injuries (STEADI) Initiative** 



University of Nebraska Medical Center

# Acknowledgements: Funding for the CATCH RURAL Falls Program

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# Introductions and Contact Information

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- Industrial organizational psychologist
- Expertise in quality improvement, teamwork, and organizational science
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# **Educational Objective**

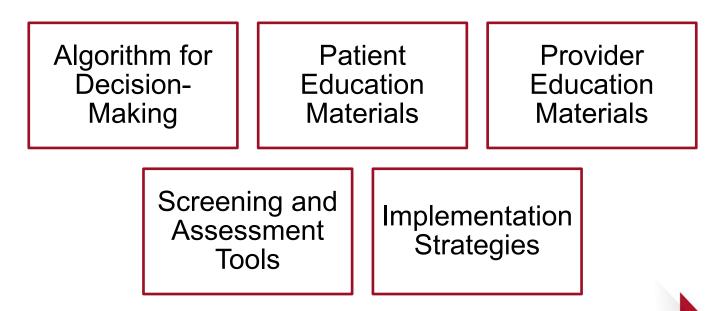
 Explain the purpose of the Center for Disease Control's Stopping Elderly Accidents, Deaths & Injuries (STEADI) Initiative



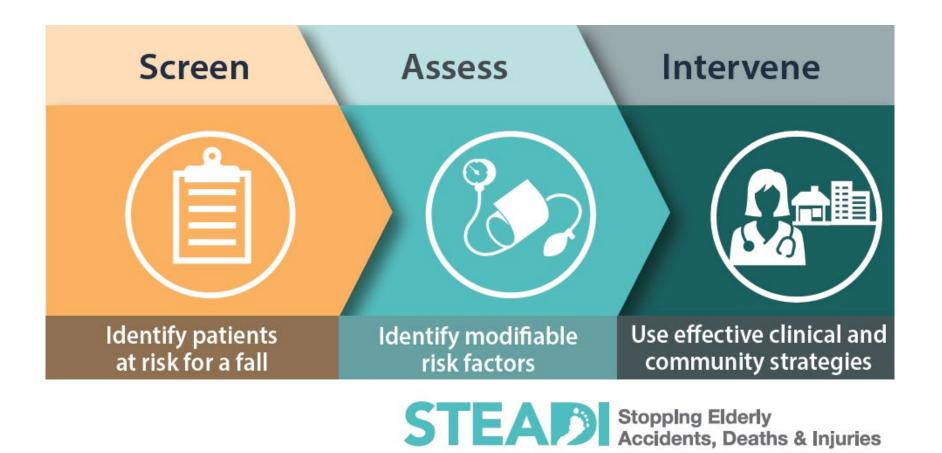
# Centers for Disease Control (CDC) STEADI Initiative

STEAD Stopping Elderly Accidents, Deaths & Injuries

Created for healthcare providers to support implementation of a coordinated approach to manage falls



### Three Key Actions: Screening, Assessment, and Intervention





- Identification of patients at increased risk of falling to determine if additional in-depth assessment of risk factors is needed
- Intended to be quick

- Identification of specific risk factors to guide intervention
- More thorough and therefore more timeconsuming

- Reduction of identified risk factors using effective strategies
- Individualized to the patient
- May include direct medical management or referral to other health care professionals or resources

Fall Risk Screening











#### STEADI Algorithm for Fall Risk Screening, Assessment, and Intervention among Community-Dwelling Adults 65 years and older





**Control and Prevention** National Center for Injury Prevention and Control

Discuss ways to improve patient receptiveness to the care plan and address barrier(s)



CDC STEADI Algorithm https://www.cdc.gov/steadi/pdf/STEADI-Algorithm-508.pdf



#### STEADI Algorithm for Fall Risk Screening, Assessment, and Intervention among Community-Dwelling Adults 65 years and older



# (1) Fall Risk Screening

#### STEADI Algorithm for Fall Risk Screening, Assessment, and Intervention among Community-Dwelling Adults 65 years and older

START HERE	SCREEN for fall risk yearly, or any time patient presents with an acute fall.		
	Available Fall Risk Screening Tools:	<ul> <li>Stay Independent: a 12-question tool [at risk if score ≥ 4]</li> <li>Important: If score &lt; 4, ask if patient fell in the past year (If YES → patient is at risk)</li> </ul>	<ul> <li>Three key questions for patients [at risk if YES to any question]</li> <li>Feels unsteady when standing or waiking?</li> <li>Worries about failing?</li> <li>Has failen in past year?</li> <li>» If YES ask, "How many times?" "Were you injured?"</li> </ul>



### **Screening Results Guide Next Steps**

#### SCREENED NOT AT RISK

**PREVENT** future risk by recommending effective prevention strategies.

- Educate patient on fall prevention
- Assess vitamin D Intake
  - If deficient, recommend daily vitamin D supplement
- Refer to community exercise or fall prevention program
- Reassess yearly, or any time patient presents with an acute fall

#### SCREENED AT RISK

2 ASSESS patient's modifiable risk factors and fall history.

Common ways to assess fall risk factors are listed below:

Evaluate gait, strength, & balance Common assessments: • Timed Up & Go • 4-Stage • 30-Second Chair Stand Balance Test

Identify medications that increase fail risk

(e.g., Beers Criteria)

Ask about potential home hazards (e.g., throw rugs, slippery tub floor)

Measure orthostatic blood pressure (Lying and standing positions)

Check visual acuity Common assessment tool: • Snellen eye test

Assess feet/footwear

Assess vitamin D Intake

Identify comorbidities (e.g., depression, osteoporosis) V

### Fall Risk (2) Assessment and (3) Intervention

#### SCREENED AT RISK

**ASSESS** patient's modifiable risk factors and fall history.

Common ways to assess fall risk factors are listed below:

Evaluate galt, strength, & balance Common assessments:

- Timed Up & Go 4-Stage
- 30-Second Chair Stand Balance Test

Identify medications that increase fall risk (e.g., Beers Criteria)

Ask about potential home hazards (e.g., throw rugs, slippery tub floor)

Measure orthostatic blood pressure (Lying and standing positions)

#### Check visual aculty

Common assessment tool: Snellen eye test

Assess feet/footwear

Assess vitamin D intake

Identify comorbidities (e.g., depression, osteoporosis)

#### **INTERVENE** to reduce identified risk factors using effective strategies.

#### Reduce identified fall risk

 Discuss patient and provider health goals Develop an individualized patient care plan (see below) Below are common interventions used to reduce fail risk:

#### Poor galt, strength, & balance observed

- Refer for physical therapy
- Refer to evidence-based exercise or fail prevention program (e.g., Tai Chi)

#### Medication(s) likely to increase fall risk

Optimize medications by stopping, switching, or reducing dosage of medications that increase fail risk

#### Home hazards likely

Refer to occupational therapist to evaluate home safety

#### Orthostatic hypotension observed

- Stop, switch, or reduce the dose of medications that Increase fall risk
- Educate about importance of exercises (e.g., foot pumps)
   Consider compression stockings

#### Visual Impairment observed

- Refer to ophthalmologist/optometrist
- Stop, switch, or reduce the dose of medication affecting vision (e.g., anticholinergics)

#### Feet/footwear Issues IdentIfied

 Provide education on shoe fit, traction, Insoles, and heel height

#### Vitamin D deficiency observed or likely

Recommend daily vitamin D supplement

#### Comorbidities documented

Optimize treatment of conditions identified

- Establish appropriate blood pressure goal
- Encourage adequate hydration
- Consider benefits of cataract surgery
- Provide education on depth perception and single vs. multifocal lenses

#### Refer to podiatrist

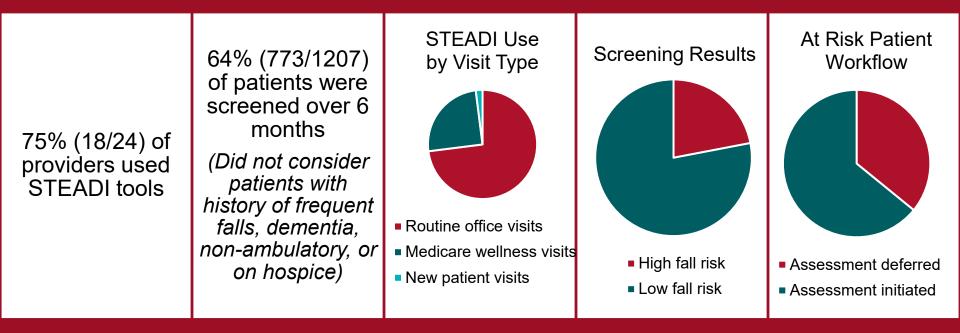
Be mindful of medications that increase fail risk

FOLLOW UP with patient in 30-90 days.

Discuss ways to improve patient receptiveness to the care plan and address barrier(s)

# **Research Supporting the STEADI Toolkit**

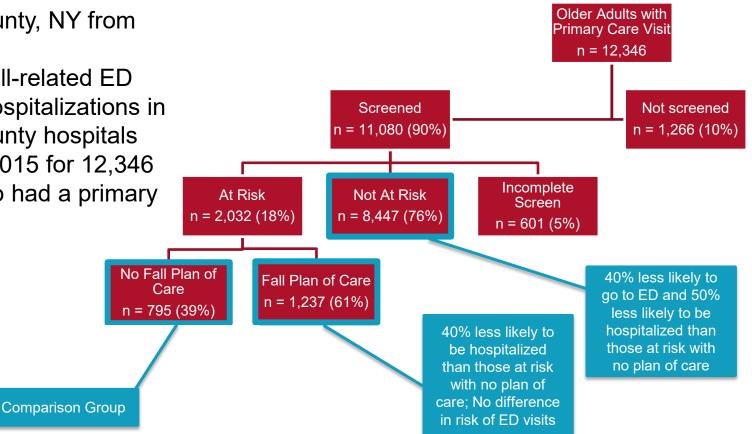
STEADI was successfully incorporated into primary care at Oregon Health Science University via team training, EHR tools, and tailored clinic workflow





# **Research Supporting the STEADI Toolkit**

- STEADI implemented in 19 primary care clinics across Broome County, NY from 2012-2014
- Assessed fall-related FD visits and hospitalizations in Broome County hospitals from 2012-2015 for 12,346 patients who had a primary care visit





# **Summary: Review of Objectives**

Explain the purpose of the Center for Disease Control's Stopping Elderly Accidents, Deaths & Injuries (STEADI) Initiative



**STEAD** Stopping Elderly Accidents, Deaths & Injuries



# **References and Resources**

- <u>Center for Disease Control (CDC) Stopping Elderly Accidents, Deaths, and</u>
   <u>Injuries (STEADI) Home Page</u>
- <u>CDC STEADI Algorithm for Fall Risk Screening, Assessment, and</u>
   <u>Intervention</u>
- <u>CDC STEADI Coordinated Care Plan to Prevent Older Adult Falls</u>
- Eckstrom E, Parker EM, Lambert GH, Winkler G, Dowler D, Casey CM. Implementing STEADI in academic primary care to address older adult fall risk. *Innov Aging*. 2017;1(2):igx028. doi:10.1093/geroni/igx028
- Johnston YA, Bergen G, Bauer M, et al. Implementation of the Stopping Elderly Accidents, Deaths, and Injuries initiative in primary care: An outcome evaluation. *Gerontologist*. 2019;59(6):1182-1191. doi:10.1093/geront/gny101



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