

## **Measuring Swing Bed Quality**

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## Background

- CAH swing-bed quality of care is an important Medicare policy issue that has received little attention.
- Recent studies have focused on the cost of swing-bed care (e.g., Office of the Inspector General 2015).
- Swing-beds have not been included in national efforts to address comparability of post-acute quality measures (e.g., IMPACT Act and NQF).



## Background, continued

- Swing-bed programs in rural Prospective Payment System hospitals and Skilled Nursing Facilities must submit Minimum Data Set patient data to CMS. CAHs are exempt.
- CAHs are not uniformly demonstrating the quality of care provided to their swing-bed patients.
- Inability to demonstrate swing bed quality potentially limits CAHs' ability to participate in alternative payment models.



# Motivation to Assess CAH Swing-bed Quality

- Assess whether patients are getting appropriate care; help them return home as quickly as possible; prevent hospital readmissions
- CAH desire to increase patient volume in swingbed programs, compare swing-bed care to SNFs
- Ensure compliance with CMS requirements/intent regarding swing-bed care



## **Purpose of Project**

 To identify quality measures that can be used to assess the quality of care provided to CAH swingbed patients, and implement a field test of these measures.



### Methods

- Review of literature and organizational websites
- Identify hospitals for interviews with input from UMRHRC Expert Work Group members
- Identify state/network efforts to assess CAH swingbed quality of care
- Phone interviews to discuss efforts to assess swingbed quality of care, including measures being used/considered, data collection strategies, usefulness



## **CAH Swing Bed Quality Measures**

- Discharge disposition
  - To home
  - Transferred to a NH/LTC facility
  - Transferred to a higher level of care
- 30-day follow-up status
  - Readmitted to CAH
  - Readmitted to other hospital
  - ED visit at CAH
  - ED visit at other hospital
- Functional status
  - Risk-adjusted change in self-care score between swing bed admission and discharge
  - Risk-adjusted change in mobility score between swing bed admission and discharge



## Potential Additional Measures (primarily from IMPACT domains and MDS elements)

- Skin integrity (pressure ulcer status)
- Medication reconciliation
- Incidence of major falls
- Transfer of health information and care preferences when an individual transitions
- Healthcare associated infections



## CAH Swing Bed Quality Measurement Field Test

- Collaboration with Stroudwater Associates
- 75 CAHs in 13 states
- Collect detailed information on all swing bed patients from April 1, 2018 – March 31, 2019.



# Staff Training and Inter-Rater Reliability Process

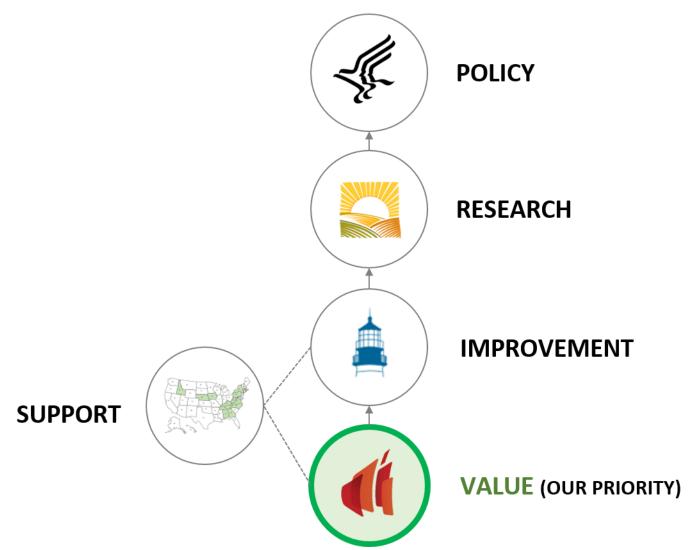
- Training (in-person and webinars) provided to relevant hospital staff by nurses with extensive swing bed experience
- Staff used the data collection tool for three swing bed patient cases developed by the nurse trainers
- Each case had 114 items that required scoring with the large majority of items related to risk adjustment and functional status changes
- Overall, 86% of the items were scored correctly
- Follow-up support provided to staff on specific issues related to risk adjustment and functional status details



## **CAH Swing Bed Web Application**

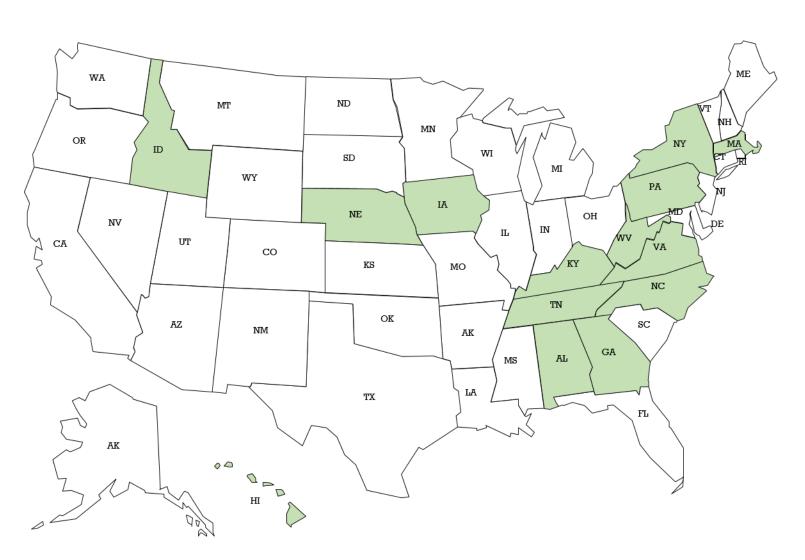
#### **Collaborating Organizations**





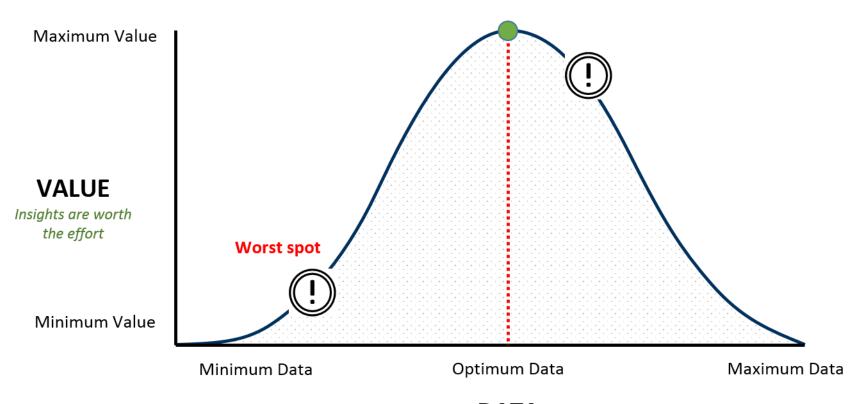
#### **Collaborating States**





#### **Data Value Curve**





#### DATA

Incremental data promotes participation

#### **Data Collection Elements by Category**



Data Category		Admission	Discharge	31 Days	Total
Patient Data		• (5)	• (2)	• (1)	<b>8</b> (9%)
Risk Adjustment		• (26)			<b>26</b> (32%)
Functional	Self Care	• (7)	• (7)		<b>14</b> (17%)
	Mobility	• (17)	• (17)		<b>34</b> (41%)
		55	26	1	82

#### **Web Application**





## Data Collection & Entry





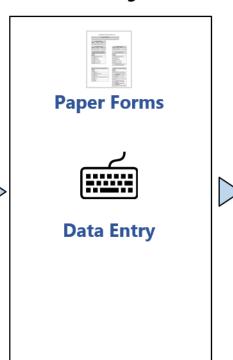


**Secure** 



**HIPAA Compliant** 





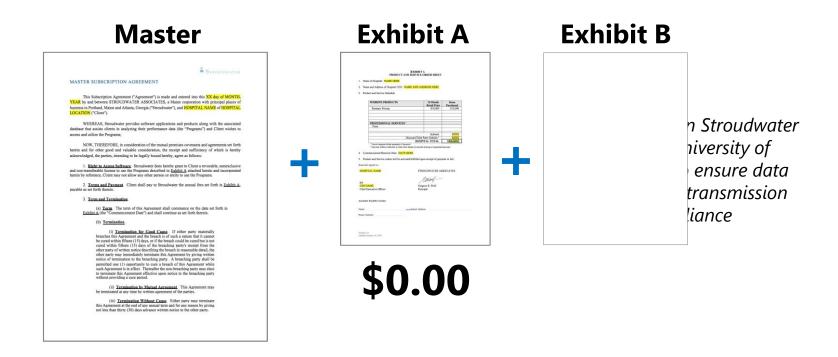






#### **Agreement Structure**





- Master Service Agreement between Stroudwater and your CAH serves as the governing document that establishes mutual obligations related to use of the website, Business Associate Agreement terms, and HIPAA, etc.
- Exhibit A outlines payment terms (there are none for this project)
- Exhibit B describes how Stroudwater will share data with UMRHRC

## Demo

# The Swing Bed Quality Pilot Project THE VIEW FROM A CEO'S DESK

LESLIE MARSH CEO LEXINGTON REGIONAL HEALTH CENTER LEXINGTON, NE.



## Hope Is Not A Strategy

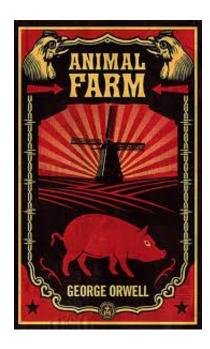
### Goals Are Clear

#### Quadruple Aim

- Cost
- Population Health
- Patient Experience
- Wellbeing of the Care Team

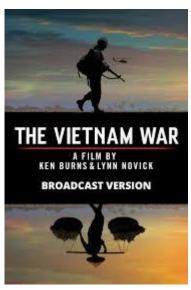
## Some Goals Are More Equal Than Others

In the current cost-containment environment, value is the most "equal".



#### There are many possible paths

While the goal in Vietnam was clear to those at the top, at the "boots on the ground" level it was not at all clear how to get there.

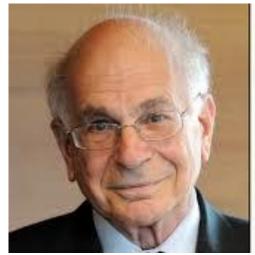


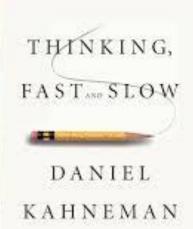
Our perspective from the front line is that we need to find the best possible path - so, we need information.

### Data is not a magic button

You can look at data and still arrive at the wrong conclusion.

Daniel Kahneman won a Nobel Prize in 2002 by pointing out that people misuse information.



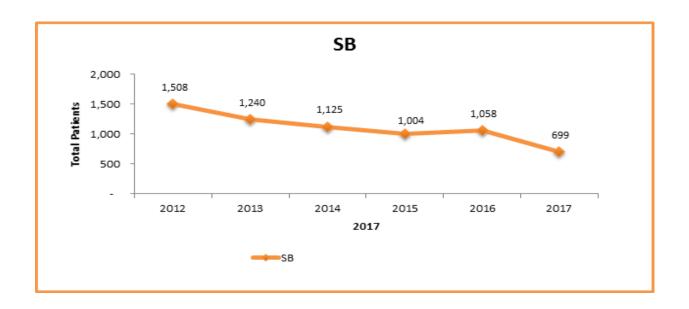


## Cognitive Reflection and Decision Making Test - Psychologist Shane Frederick 2005

(1) A bat and a ball cost \$1.10 in total. The bat costs \$1.00 more than the ball. How much does the ball cost? \_\_\_\_ cents (2) If it takes 5 machines 5 minutes to make 5 widgets, how long would it take 100 machines to make 100 widgets? \_\_\_ minutes (3) In a lake, there is a patch of lily pads. Every day, the patch doubles in size. If it takes 48 days for the patch to cover the entire lake, how long would it take for the patch to cover half of the lake? \_\_\_\_ days

Frederick, Shane. 2005. "Cognitive Reflection and Decision Making." Journal of Economic Perspectives, 19 (4): 25-42.

## Decline in Swing Bed Admissions at LRHC



2018 - 1240

## LRHC Begins the Journey to Value

#### Reduction in readmissions

- Transition Team creation
  - LRHC has seen a substantial decline in their readmission rate
  - The team completes a stratified risk assessment on admission and begins discharge planning immediately
  - The team deploys CHWs, clinic staff, dietitians, mental health providers and social services to improve quality of life postdischarge.
- Collaboration of care
  - The team collaborates with all providers and ensures that transition care calls and visits continue after dismissal
  - Patients that are found to be at high risk for readmission or poor management of care are referred to our Medically Managed program –

#### Functional Capacity and Independence: Pilot Project Enrollment

- Setting up study to examine patients receiving care through LRHC swing bed services v. SNF
  - Criteria
    - Age
    - Functional Capacity
    - Length of Independence

### Adaptive Management

The idea that as information comes in, you make adjustments on the fly knowing that those responses are not the final answer.

We intentionally and purposefully created practice strategies to address to address the decline in admissions.

Provided information to patients, LRHC providers and specialists. We created a 'You have a choice campaign' were persistent in advocating for patient choice.

## LRHC – Swing Bed Quality Outcomes Analysis Pilot Project

Data will be examined and used to:

**Compare LRHC to other CAHs** 

Determine level of functional improvement in our swing bed patients

Determine percentage of cohort that were able to return to their most independent level of care/prior living situation

Continue to assess 30 Day Readmission Rate and:

- Identify trends and use this information to predict future high-risk readmissions
- Review functional level at discharge and determine if additional swing bed care warranted
- Compare LOS with non-readmission patients, including diagnosis types to help predict LOS to prevent readmission with different risk stratification levels.

Assess overall LOS, functional capacity and length of independence to cost of care compared to alternative options

### So Why Participate in this Pilot?

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WHY?

WHY?

WHY?

WHY?

WHY?

WHY?

Real solution is found here
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Why? We want timely rural-relevant data

Why? We want to make the best possible decisions

Why? We want to provide value to all stakeholders (patients, payers, partners)

Why? We want a successful hospital

Why? We want our community to thrive