# Integrating LTCFs into State HAI programs: Expanding current efforts

## Nimalie Stone, MD, MS

**Division of Healthcare Quality Promotion** 

**CDC HAI Grantees meeting** November 19, 2015



### **Introducing the DHQP LTC Team**

#### NHSN LTCF support:

Angela Anttila, Elisabeth Mungai

- LTCF Infection Control assessment support:
  - Bola Ogundimu, Ruth Belflower
- Coordination of state and national LTC partner activities:
  - Taitainia Williamson, Kate Wiedeman
- LTCF HAI surveillance and antibiotic use projects:
  - Nicola Thompson, Taniece Eure, Lisa Laplace

#### Long-term Care Facilities (LTCFs)

- Settings that provide a variety of medical and non-medical services to people who have a chronic illness or disability
- Provide similar services as hospitals to increasingly vulnerable post-acute care (short stay) residents
  - Post-surgical wound care, rehabilitation, I.V. infusions, dialysis, ventilator and tracheostomy care

#### **Examples include:**

- Nursing homes (NH)/ Skilled nursing facility (SNF)
- Intermediate care facility for individuals with intellectual disabilities (ICF)
- Assisted living facility (ALF) / Residential care homes
- Independent care (e.g., senior apartments or retirement communities)
- PACE programs
- Senior day programs

#### **Differences in regulatory oversight in LTC**

#### Nursing homes/skilled nursing facilities

- 95% are certified by CMS to receive Medicare or Medicaid funds;
- CMS -certified facilities are subject to inspections by state survey agencies to determine compliance with minimum health and safety standards (including infection prevention program standards)

# Intermediate care facilities for individuals with intellectual disabilities

- Funded through a Medicaid option; Certified by CMS and subject to inspections by state survey agencies
- Over 80% of ICFs serve <15 people; privately operated group homes

#### Assisted living facilities/residential care homes

- Operate under state licensing rules; no federal standards
- Oversight expectations and frequency of inspections vary by state

# **Spotlight on infection prevention in LTC**

Sept. 2012 – CDC released the LTCF infection reporting component within NHSN

Oct. 2012 – Updated infection surveillance definitions for LTC published by CDC/SHEA

April 2013 – Dept. of Health and Human Services (HHS) released the National Action Plan to Prevent Healthcareassociated Infections in LTCF

NHSN reporting from nursing homes was #1 priority

Feb 2014 – Office of the Inspector General released report on adverse events and harms in skilled nursing facilities

1 in 5 post-acute residents experienced an adverse event within the first
30 days of their admission

# Harm from infections among SNF residents

Infections were among the most common causes of harm; accounting for 26% of adverse events

Type of Harm	Events related to infection	Infection events deemed preventable	Transfers to hospital from infection event
Adverse events (n=148)	39 (25.8%)	22 (59%)	34 (87.2%)
Temporary (n=113)	20 (16.8%)	9 (45%)	NA

Hospitalizations from infections were estimated to cost ~83 million dollars (the most expensive cause of harm)

OIG report: Adverse Events in Skilled Nursing Facilities: National Incidence Among Medicare Beneficiaries (OEI-06-11-00370), February 2014

# Types of infections causing harm among SNF residents

Type of Infection	Events (All harm)	Preventable events		
Pneumonia and respiratory tract	15 (includes 2 cases of sepsis)	5 (33%)		
Surgical site infection (superficial only)	14	9 (64%)		
Urinary tract, associated with catheter	14 (includes 3 cases of sepsis)	10 (71%)		
<i>C. difficile</i> infections	7	5 (71%)		
Soft tissue and other	6	1 (17%)		
Vascular device associated.	3	2 (67%)		
OIG report: Adverse Events in Skilled Nursing Facilities: National Incidence Among Medicare Beneficiaries (OEI-06-11-00370), February 2014				

# **Gaps/opportunities to prevent infections**

#### Better recognition of the problem

Standardize the way infections are defined and reported to monitor the burden of the problem

#### Improved documentation of the response

Inadequate documentation of actions leads to incomplete information and missed opportunities

#### Implementing best practices for prevention

- Facility programs to prevent infection should be monitored for adherence and impact
- Implement consistent methods for assessing the effectiveness of infection prevention activities

## **Benefit of NHSN reporting: Data for action**

#### Current capacity

- Standardizes surveillance definitions used by all facilities participating in the system
- Provides data to inform facility quality improvement
- Future requires more facilities to use NHSN
- Provides comparisons of infection data with adjustments for facility and/or resident characteristics
- Provides national benchmarks to assess performance in local and national prevention efforts
- Demonstrates national trends in improvements and/or areas of opportunity for each infection event

# **Promoting NHSN use by LTCFs**

- April 2013: HHS Action Plan to Prevent HAIs in long-term care released
  - Increasing NHSN enrollment by nursing homes was 1st priority
  - Promoting CDI and UTI reporting in NHSN were additional goals
- 2013-2015: State HAI programs start engaging nursing homes in NHSN use for MDRO/CDI prevention activities
  - Several states actively recruiting nursing homes into NHSN as part of ELC-funded activities
  - Nevada was first state to mandate NHSN reporting by nursing homes/skilled nursing facilities in Jan 2015
- June 2015: CSTE position statement on HAI surveillance in LTCFs
  - Identified NHSN as preferred option for HAI reporting in LTCFs

#### **NHSN LTCF Component: Early enrollees**

#### 268 unique SNF/NHs have completed enrollment

- Represent 1.7% of CMS certified nursing facilities in US
- 37 states + DC with at least one or more SNF/NH enrolled

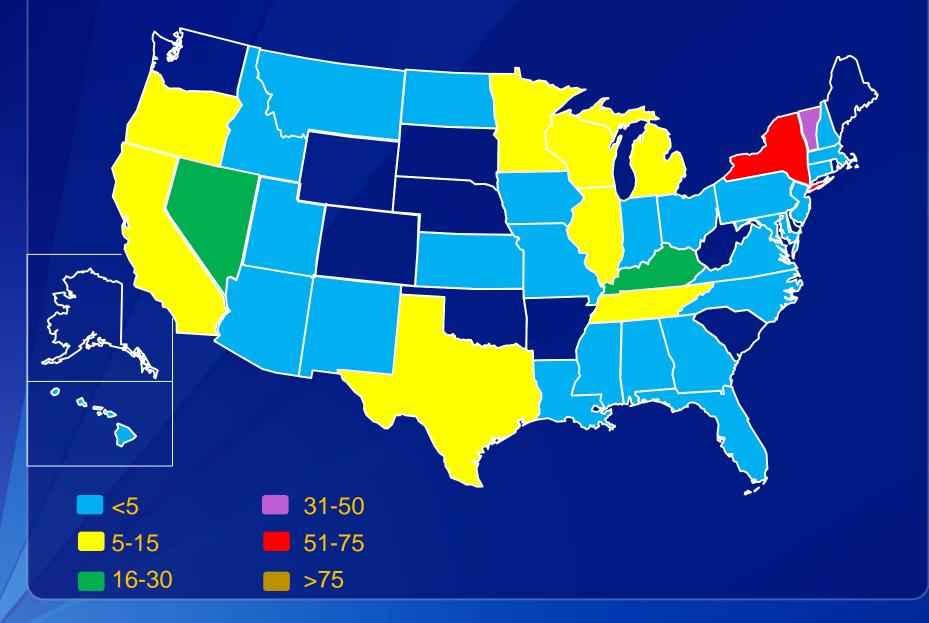
#### Ownership\*

- 10% Government/Veterans administration\*\*
- 57% Non-profit\*\*
- 33% For profit

#### Affiliation\*

- 34% Hospital-based\*\*
- 38% Independent
- 28% Multi-facility organizations
- 94% Dual certified facilities (Medicare and Medicaid)\*
- \* estimates from preliminary analysis
- \*\* proportions are higher than distribution nationally

# NHSN NH Users by State - 11/15/2015



#### NHSN events and patterns of reporting: Jan 2013– Dec 2014

#### Reviewed data reported from 201 facilities enrolled

- 155 (77%) submitted at least one monthly reporting plan
- 83% of facilities with a reporting plan submitted at least one complete month of data
- Consistent reporting (<u>></u>6 months of complete data) declined over time

Event	# of months intended	# of months completed	Percent completed
C. difficile	1358	1011	74%
Methicillin-resistant S. aureus	709	543	77%
Urinary tract infection	673	547	81%
Vancomycin-resistant Enterococcus	581	451	77%
Carbapenem-resistant E. coli	512	381	74%
Total number of facilities		2013	2014
Intending to report >1 event		110	118
>1 completed month (% among intended)		92 (83.6)	97 (82.2)
Reported consistently* (% among completed)		70 (76.1)	46 (47.4)
Median consecutive months of reporting (IQR)		6.5 (1,8)	4 (1,8)

#### Geography of NH Consistent Reporting: 2013 vs. 2014

Consistent Reporters, 2013 (N=70) Consistent Reporters, 2014 (N=46)





#### The critical role of state partners

- Staff turnover, limited time and resources, and competing priorities are known barriers to voluntary NHSN reporting by LTCFs
- External support from state health departments and other partners is a strong driver of NHSN use by LTCFs
- As state programs continue engaging LTCF in NHSN reporting, their experience will inform:
  - How barriers to NHSN enrollment and reporting can be overcome by LTCFs
  - What CDC can provide to assist state partners who are promoting NHSN use by LTC

#### Other HAI prevention efforts in NHs: The AHRQ CAUTI LTC project

- Nation-wide effort to promote CAUTI measurement and prevention; multi-partner effort led by HRET
  - Recruited 548 facilities into 5 cohorts; Organizational leads at the state level coach a smaller number of facilities in each cohort
  - Each cohort collects baseline (3mo) and post-education (9mo) data on catheter use, CAUTIs and process measures
- Used NHSN surveillance definitions and data collection methodology for CAUTI
  - Some state leads have incorporated NHSN into the UTI collaborative for data submission
- Strong educational program on management of urinary devices and key infection prevention practices
  - Major focus on use of diagnostic testing, interpretation of results and reducing antibiotic use for asymptomatic bacteriuria

# Spotlight on infection prevention in LTC continues...

- March 2015 The White House releases the National Action Plan for Combating Antimicrobial Resistance
- July 2015 CMS proposes new Federal Regulations for Longterm care facilities including new infection prevention and antibiotic stewardship activities
- September 2015 CDC releases the Core Elements of Antibiotic Stewardship for Nursing Homes
- October 2015 CMS announces the C. difficile Infection Reporting and Reduction project within the nursing home 11<sup>th</sup> Scope of work for Quality Innovation Networks – Quality Improvement Organizations (QIN-QIO)

# CMS proposed regulations for infection prevention and control programs (IPC)

- Facility risk assessment of resident population
- Integrating IPC into QAPI activities
- Required review and update of IPC program, policies/procedures
- Antibiotic use protocols and monitoring included in IPC and pharmacy services
- Designated IPC Officer with specific training
- IPC-specific education and training for all staff



#### FEDERAL REGISTER

Vol. 80	Thursday,
No. 136	July 16, 2015

Part II

Department of Health and Human Services

Centers for Medicare & Medicaid Services

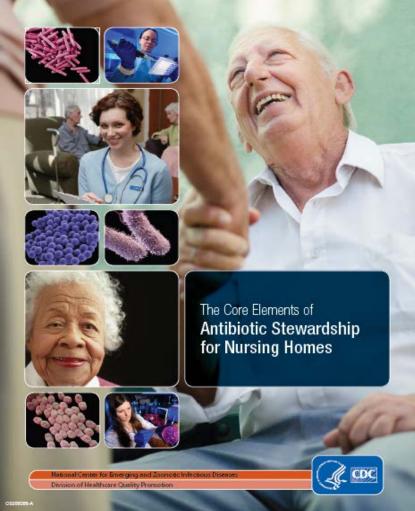
42 CFR Parts 405, 431, 447, et al. Medicare and Medicaid Programs; Reform of Requirements for Long-Term Care Facilities; Proposed Rule

#### CDC Core Elements of Antibiotic Stewardship

- Leadership commitment
- Accountability
- Drug expertise
- Action
- Tracking
- Reporting
- Education

# *Practical strategies for applying the core elements in nursing homes*

http://www.cdc.gov/longtermcare/prevention/antibiotic-stewardship.html



## CMS CDI Reporting and Reduction project, 2016-2019

Working within the National NH Quality Care Collaborative

- QIN-QIOs have already recruited ~7400 NHs into the collaborative
- CDI project goal to recruit 15% (~2300 NHs) to enroll into NHSN and report CDI events
  - Recruitment and NHSN enrollment from Feb-June 2016
  - Monthly NHSN CDI reporting from July 2016- July 2019

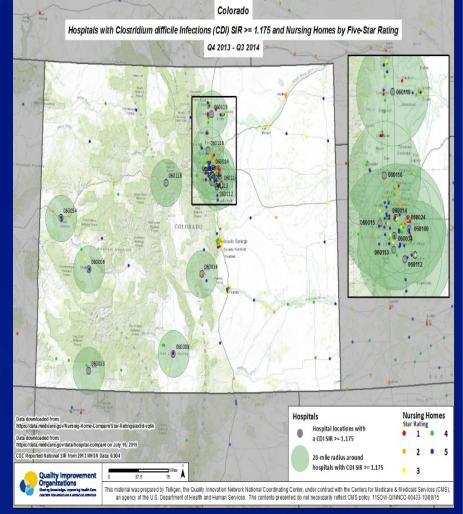
Training in LTC communication (TeamSTEPPS) and antibiotic stewardship for all NHs within the collaborative starting in July 2017

CDC and CMS will be monitoring change in CDI rates among the NHSN reporters before and after these educational interventions

# CMS CDI project: Data to guide recruitment

CMS QIN national coordinating center providing state reports to state QIOs to support NH recruitment based on publically available NHSN data

The map identifies hospitals whose Standardized Infection Ratio (SIR) is at least 130% of the national CDI SIR average and any Nursing Homes within a 20-mile radius of hospital.



# **Expanding IC assessments in LTCFs**

- Assessments designed for use in nursing homes
- While observations are not required, tools for monitoring HH, gown/glove use and point of care testing included in assessment
- State NH partners can provide support for identifying and recruiting NHs

#### Infection Control Domains for Gap Assessment

- I. Infection Control Program and Infrastructure
- II. Healthcare Personnel and Resident Safety
- III. Surveillance and Disease Reporting
- IV. Hand Hygiene
- V. Personal Protective Equipment (PPE)
- VI. Respiratory/ Cough Etiquette
- VII. Antibiotic Stewardship
- VIII. Injection safety and Point of Care Testing
- IX. Environmental Cleaning

# Take away points

 Several national initiatives are driving NHSN use, infection prevention and antibiotic stewardship in NHs
These activities may align closely with State HAI prevention plans for long-term care facilities

State HAI programs serve a critical role in supporting NH infection surveillance and prevention programs

The expanded IC assessments provide an opportunity to identify key resource and training gaps needed to sustain infection prevention activities, including NHSN use

State partners have an opportunity to coordinate efforts and expand the impact of these programs

Build on existing relationships, experience, and infrastructure

Shared learning and support within the state

#### **Open discussion about engaging LTCFs**

Is your HAI program already partnering with the QIN-QIO nursing home programs?

- Could the state HAI program have a role in supporting the CMS CDI reporting project?
- Have any state HAI programs brought NH partners into your HAI advisory committees?
  - Which partners have you included?
  - Could those partners help promote the IC assessments?

Other comments or questions about engaging nursing homes or other LTCFs?

# Thank you for all your efforts!!

#### Email: nstone@cdc.gov with questions/comments

#### For more information please contact Centers for Disease Control and Prevention

1600 Clifton Road NE, Atlanta, GA 30333 Telephone, 1-800-CDC-INFO (232-4636)/TTY: 1-888-232-6348 E-mail: cdcinfo@cdc.gov Web: www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.



National Center for Emerging and Zoonotic Infectious Diseases Division of Healthcare Quality Promotion