Arizona's Infection Prevention Assessment Survey:10 Core Concepts

Long-Term Care Facilities



Health and Wellness for all Arizonans

Dictionary

Competency-based training	An approach to vocational education and training that places emphasis on what a person can do in the workplace as a result of completing a program of training or based on workplace experience and learning (e.g. a physical practice, return demonstration or observation)

Acronyms

ASP	Antimicrobial Stewardship Program
ELC	Epidemiology Laboratory Capacity
EMS	Emergency Medical Services
IPC	Infection Prevention and Control
IT	Information Technology
LTC	Long-Term Care

Background

 Arizona long-term care facilities were surveyed in early 2016 to assess infection control practices, infrastructure and outbreak reporting

As part of ELC Ebola Supplement Activity A

- Results provided a snapshot of infection prevention capacity throughout the state
- Collected as a baseline data to focus pointed interventions
- 10 Core Concepts were identified as a focus for analysis

10 Core Concepts

1	Training in infection control		
2	Fiscal support for infection prevention and control (IPC) program		
3	Notify public health about outbreaks		
4	Mandatory influenza vaccination program		
5	Competency-based training program for proper hand hygiene		
6	Competency-based training program for environmental cleaning		
7	7 core elements of Antibiotic Stewardship Programs (ASPs)		
8	Policies to track personnel access to controlled substances		
9	Access to Pharmacist		
10	Monitor incidence of targeted healthcare-associated infections (HAIs)		

EMS Regions



- Predefined geographical • areas of EMS System
- Selected for simplicity and anonymity

Regions were categorized based on self reported responses as shown below:

Positive Response

- 100 % (Excellent) 90 - 99 % (Good)

 - 75 89 % (Average)
 - 0 74 % (Needs Improvement)

Response Proportion by EMS Regions



146 long-term care received the survey

• 56 responded

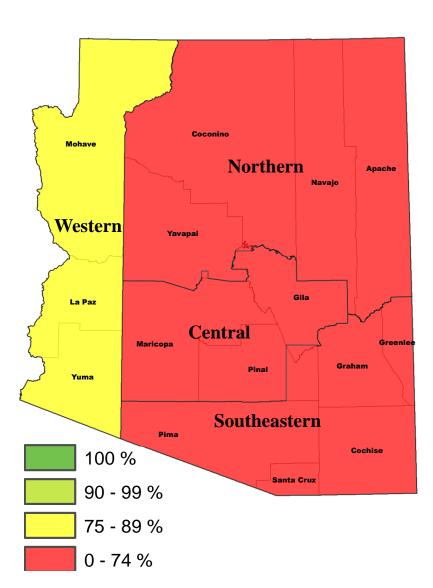
Arizona (n=146) : 38%

Region	Number Responded	Percent Responded
Central (n=91)	34	37%
Northern (n=14)	7	50%
Southeastern (n=29)	10	34%
Western (n=12)	5	42%

Demographics of EMS Region

Demographics	Arizona	Central	Northern	Southeastern	Western
LTC Surveyed	146	91	14	29	12
LTC Responded (Percent)	56 (38%)	34 (37%)	7 (50%)	10 (34%)	5 (42%)
LTC for profit	42	22	5	10	5
LTC for non-profit	14	11	2	1	0
Median licensed beds (Mean)	101 (105)	103 (107)	83 (91)	116 (122)	90 (83)
Training in Infection Control (Percent)	37(66%)	24(66%)	5(71%)	4(40%)	4(80%)

Training in Infection Control

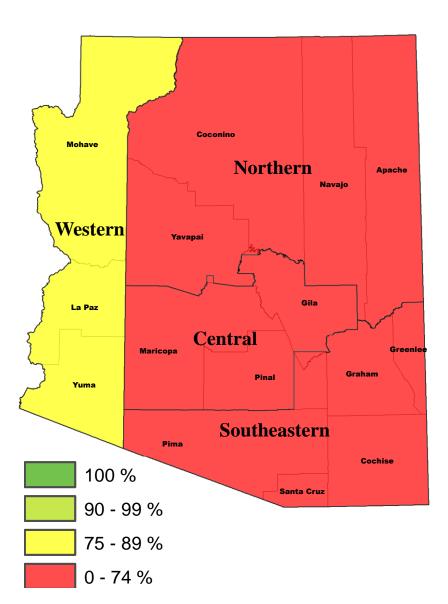


Has the person responsible for coordinating the infection prevention program received training in IPC?

Arizona (n=56) : 66%

Region	Positive Response
Central (n = 34)	71%
Northern (n = 7)	71%
Southeastern (n = 10)	40%
Western (n = 5)	80%

Fiscal Support for IPC Program

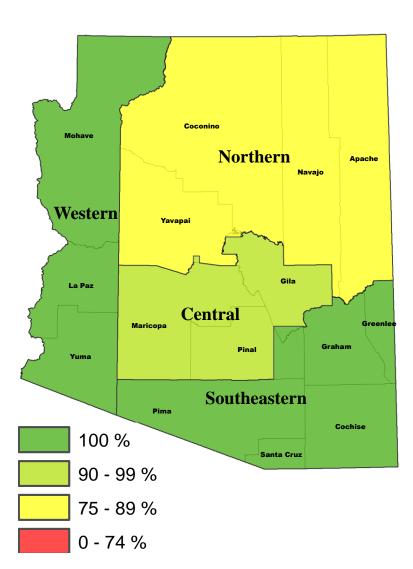


Does your facility provide any type of fiscal and human resource support for maintaining the IPC program?

Arizona (n = 56) : 39%

Region	Positive Response
Central (n = 34)	35%
Northern (n = 7)	57%
Southeastern (n = 10)	20%
Western (n = 5)	80%

Outbreak Reporting to Public Health

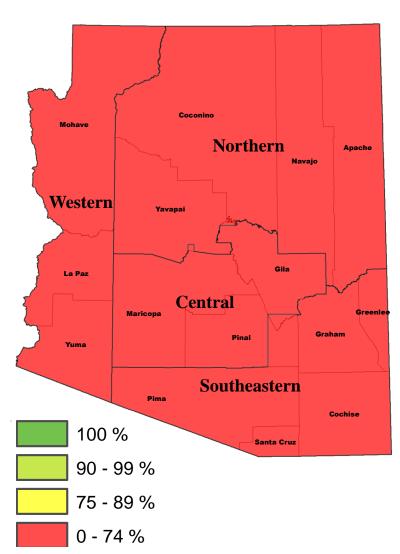


Does your facility routinely notify your local public health department about any type of outbreak at your facility?

Arizona (n=56) : 93%

Region	Positive Response
Central (n = 34)	91%
Northern (n = 7)	86%
Southeastern (n = 10)	100%
Western (n = 5)	100%

Mandatory Influenza Vaccination Program

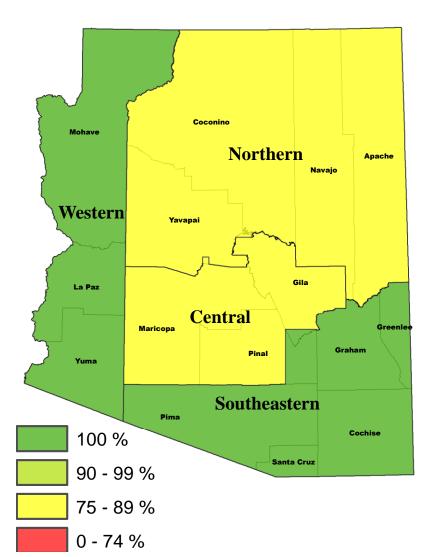


Does your facility have a mandatory influenza vaccination program for healthcare personnel?

Arizona (n=56) : 32%

Region	Positive Response
Central (n = 34)	32%
Northern (n = 7)	43%
Southeastern (n = 10)	30%
Western (n = 5)	20%

Competency-based Training on Hand Hygiene

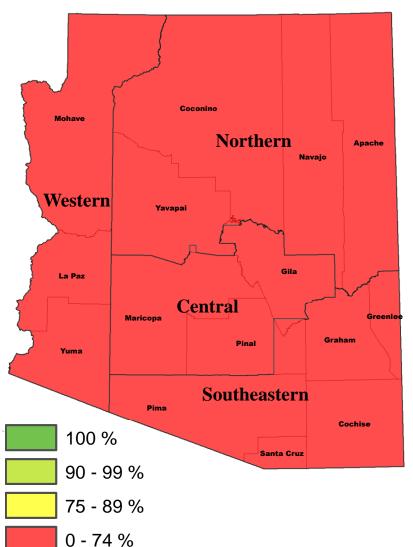


Does your facility use competencybased training program to train staff on proper hand hygiene?

Arizona (n=56) : 88%

Region	Positive Response
Central (n = 34)	88%
Northern (n = 7)	86%
Southeastern (n = 10)	100%
Western (n = 5)	100%

Competency-based Training on Environmental Cleaning



Does your facility use competencybased training program to train staff on proper environmental cleaning?

Arizona (n=56) : 61%

Region	Positive Response
Central (n = 34)	59%
Northern (n = 7)	57%
Southeastern (n = 10)	70%
Western (n = 5)	60%

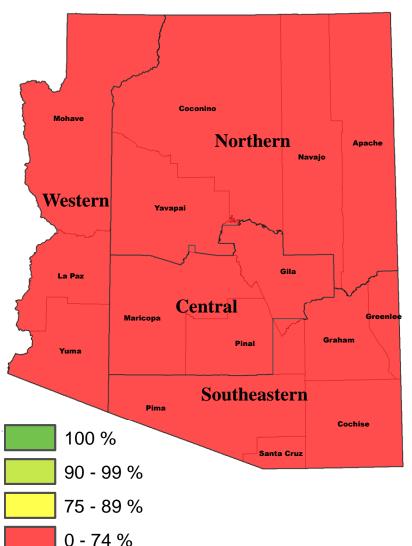
7 Core Elements of Antibiotic Stewardship Programs (ASPs)

- 1 **Leadership Commitment**: Dedicate necessary human, financial and IT resources
- 2 Accountability: Appoint a single leader responsible for program outcomes
- 3 **Drug Expertise**: Appointing a single pharmacist leader responsible for working to improve antibiotic use
- 4 Actions: Implementing at least one recommended action, such as systemic evaluation of ongoing treatment need after a set period of initial treatment
- 5 **Tracking:** Monitor antibiotic prescribing and resistance patterns

6 **Reporting**: Regular report information on antibiotic use and resistance to doctors, nurses and relevant staff

7 **Education**: Educate clinicians about resistance and optimal prescribing

Antibiotic Stewardship: Facilities Meeting all 7 Core Elements

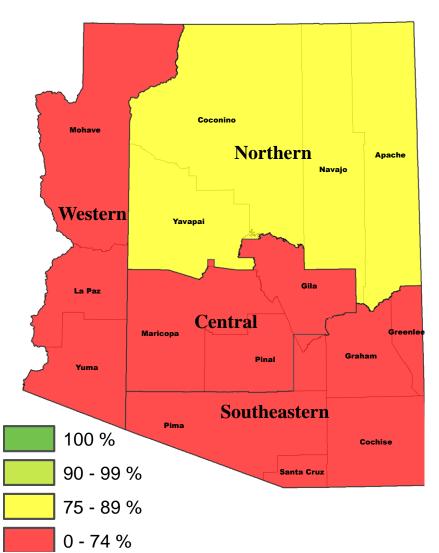


Met all 7 core elements of ASP based on responses to questions regarding antibiotic stewardship.

Arizona (n=56) : 18%

Region	Positive Response
Central (n = 34)	21%
Northern (n = 7)	29%
Southeastern (n = 10)	10%
Western (n = 5)	0%

Antibiotic Stewardship: Facilities Meeting 3 Core Elements

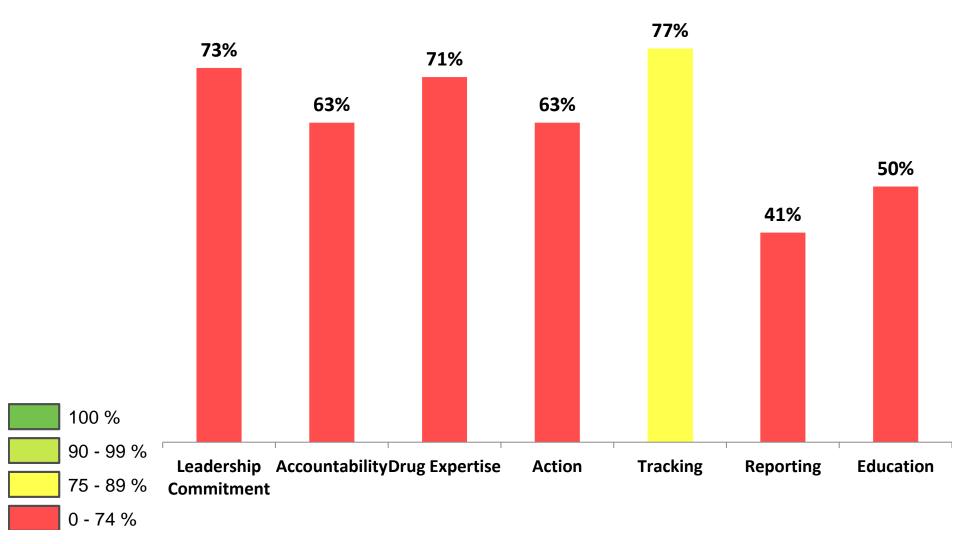


Met 3 core elements of ASP based on responses to questions regarding antibiotic stewardship.

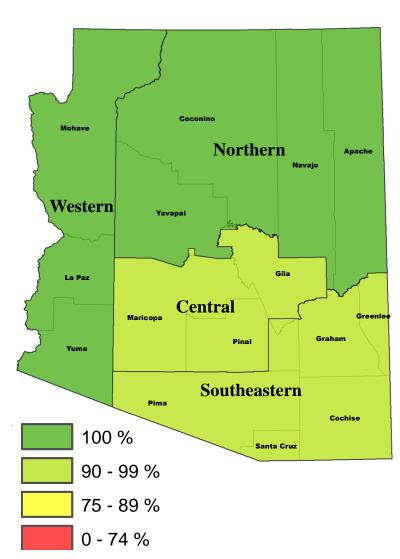
Arizona (n=56) : 71%

Region	Positive Response		
Central (n = 34)	74%		
Northern (n = 7)	86%		
Southeastern (n = 10)	70%		
Western (n = 5)	40%		

Summary of 7 Core Elements of ASP in Arizona



Policies to Track Personnel Access to Controlled Substances



Does your facility have policies and procedures to track personnel access to controlled substances to prevent narcotics theft/drug diversion?

Arizona (n=56) : 96%

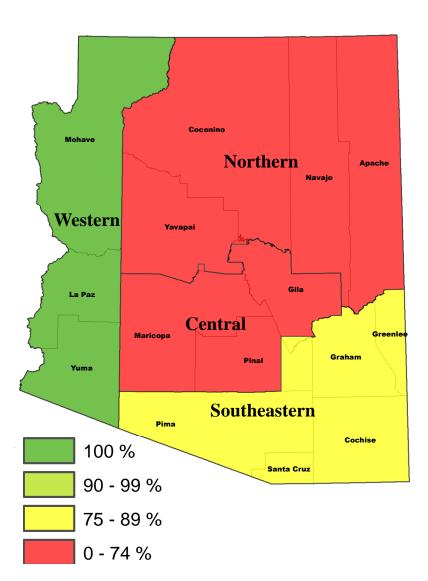
Region	Positive Response		
Central (n = 34)	97%		
Northern (n = 7)	100%		
Southeastern (n = 10)	90%		
Western (n = 5)	100%		

Drug Diversion Reporting

Reported To	Arizona	Central	Northern	Southeastern	Western
Supervisor	96%	88%	100%	100%	100%
State Health Department	46%	44%	86%	20%	60%
Corresponding Professional Entity	77%	73%	100%	80%	60%
Local Health Department	14%	6%	43%	10%	20%
Law Enforcement	59%	56%	86%	50%	60%
Adult Protective Services	18%	11%	14%	20%	20%

Note: Respondents marked all that apply

Access to Pharmacist

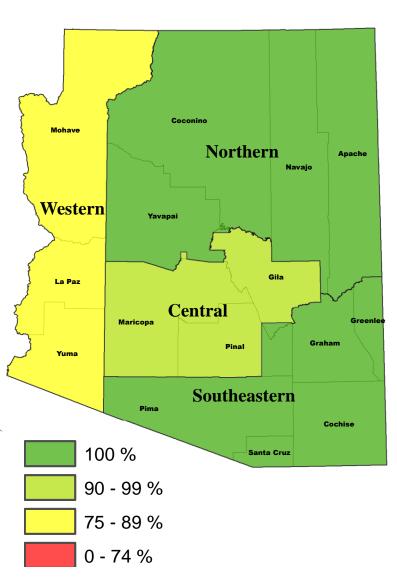


Does your facility have access to a pharmacist?

Arizona (n=56) : 61%

Region	Positive Response Percent		
Central (n = 34)	62		
Northern (n = 7)	57		
Southeastern (n = 10)	80		
Western (n = 5)	100		

Monitor Incidence of Targeted HAIs



In addition to reporting to public health, does your facility have a surveillance program to monitor incidence of epidemiologically-important organisms (e.g. MRSA, CDI) and targeted healthcare-associated infections?

Arizona (n=56) : 93%

Positive Response
91%
100%
100%
80%

Summary of Core Concepts by Region

Core Element	Arizona	Central	Northern	Southeastern	Western
IPC training	66%	71%	71%	40%	80%
Fiscal support for IPC	39%	35%	57%	20%	80%
Outbreak reporting	93%	91%	86%	100%	100%
Competency-based training for hand hygiene	88%	88%	86%	100%	100%
Mandatory flu vaccination	32%	32%	43%	30%	20%
Pharmacist	61%	62%	57%	80%	100%
Track personnel access to controlled substances	96%	97%	100%	90%	100%
3 core elements of ASP	71%	74%	86%	70%	40%
Competency-based training for environmental cleaning	61%	59%	57%	70%	60%
Monitor HAIs	93%	91%	100%	100%	80%

Conclusions

• After analyzing the 10 Core Concepts, the following areas were categorized as:

Successes

- Outbreak reporting to public health
- Policies to track personnel access to controlled substances
- Monitor incidence of targeted HAIs

Targeted for interventions:

- Training in infection control
- Core elements of ASP
- Competency-based training for environmental cleaning

THANK YOU

Healthcare-Associated Infections Program

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