

Because NHSN did not hold the live annual training in 2020, please plan to use the 2019 NHSN Annual Training videos and slides for NHSN training throughout 2020.

Although there were not extensive changes made to the NHSN PSC protocols for 2020, NHSN wanted to note any differences between the training content provided in 2019 and the current 2020 protocols. Therefore, this document will detail changes to information presented in the 2019 videos and slides so that they align with the 2020 NHSN Patient Safety Component Manual updates.

The following slides will provide the slide number and slide information from the 2019 NHSN Training presentation and then explain updates or clarifications for 2020 related to the content provided in that particular slide.

NHSN Antimicrobial Resistance (AR) Option: Reporting & Analysis



Reminder!

Reminder

All data presented are fictitious and used for illustrative purposes only

2019 Presentation, Slide 15

Eligible Organisms

- All *Acinetobacter* species
- *Candida albicans; auris; glabrata; parapsilosis; tropicalis*
- *Citrobacter amalonaticus; freundii; koseri*
- All *Enterobacter* species
- *Enterococcus faecalis; faecium*
- *Enterococcus* spp. (when not specified to the species level)
- *Escherichia coli*
- Group B *Streptococcus*
- *Klebsiella oxytoca; pneumoniae*
- *Morganella morganii*
- *Proteus mirabilis; penneri; vulgaris*
- *Pseudomonas aeruginosa*
- *Serratia marcescens*
- *Staphylococcus aureus*
- *Stenotrophomonas maltophilia*
- *Streptococcus pneumoniae*

2020 Updates for Slide 15

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- *Enterococcus faecalis; faecium*
- *Enterococcus* spp. (when not specified to the species level)
- *Escherichia coli*
- *Streptococcus Agalactiae*
- *Klebsiella aerogenes; oxytoca; pneumoniae*
- *Morganella morganii*
- *Proteus mirabilis; penneri; vulgaris*
- *Pseudomonas aeruginosa*
- *Serratia marcescens*
- *Staphylococcus aureus*
- *Stenotrophomonas maltophilia*
- *Streptococcus pneumoniae*

- Update to the pathogen list

2019 Presentation, Slide 58

Antimicrobial Resistant Phenotype Definitions

- <https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/aur/ar-phenotype-definitions-508.pdf>

Antimicrobial Resistant Phenotype Definitions		
NHSN Analysis Reports for AR Option data		
Phenotype Name	Phenotype Code	Phenotype Definition
Methicillin-resistant <i>Staphylococcus aureus</i>	MRSA_AR	<i>Staphylococcus aureus</i> that has tested Resistant (R) to at least one of the following: oxacillin or ceftazidime
Carbapenem-resistant Enterobacteriaceae (expanded)	CREexpanded_AR	Any <i>Citrobacter amalonaticus</i> , <i>Citrobacter freundii</i> , <i>Citrobacter koseri</i> , <i>Enterobacter</i> spp., <i>E. coli</i> , <i>Klebsiella oxytoca</i> , <i>Klebsiella pneumoniae</i> , and <i>Serratia marcescens</i> that has tested Resistant (R) to at least one of the following: imipenem, meropenem, doripenem, or ertapenem OR Any <i>Proteus mirabilis</i> , <i>Proteus penneri</i> , <i>Proteus vulgaris</i> , and <i>Morganella morganii</i> that has tested Resistant (R) to at least one of the following: meropenem, doripenem, or ertapenem
Carbapenem-resistant Enterobacteriaceae (<i>E. coli</i> , <i>Klebsiella</i> , or <i>Enterobacter</i>)	CREall_AR	Any <i>Escherichia coli</i> , <i>Klebsiella oxytoca</i> , <i>Klebsiella pneumoniae</i> , or <i>Enterobacter</i> spp. that has tested Resistant (R) to at least one of the following: imipenem, meropenem, doripenem, or ertapenem
Carbapenem-resistant <i>E.coli</i>	CREecoli_AR	Any <i>Escherichia coli</i> that has tested Resistant (R) to at least one of the following: imipenem, meropenem, doripenem, or ertapenem
Carbapenem-resistant <i>Enterobacter</i> spp.	CREenterobacter_AR	Any <i>Enterobacter</i> spp. that has tested Resistant (R) to at least one of the following: imipenem, meropenem, doripenem, or ertapenem

2020 Updates for Slide 58

Antimicrobial Resistant Phenotype Definitions

- <https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/aur/ar-phenotype-definitions-508.pdf>

Antimicrobial Resistant Phenotype Definitions

NHSN Analysis Reports for AR Option data

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Carbapenem-resistant Enterobacteriaceae (expanded)	CREexpanded_AR	Any <i>Citrobacter amalonaticus</i> , <i>Citrobacter freundii</i> , <i>Citrobacter koseri</i> , <i>Enterobacter</i> spp., <i>E. coli</i> , <i>Klebsiella aerogenes</i> , <i>Klebsiella oxytoca</i> , <i>Klebsiella pneumoniae</i> , and <i>Serratia marcescens</i> that has tested Resistant (R) to at least one of the following: imipenem, meropenem, doripenem, or ertapenem OR Any <i>Proteus mirabilis</i> , <i>Proteus penneri</i> , <i>Proteus vulgaris</i> , and <i>Morganella morganii</i> that has tested Resistant (R) to at least one of the following: meropenem, doripenem, or ertapenem
Carbapenem-resistant Enterobacteriaceae (<i>E. coli</i> , <i>Klebsiella</i> , or <i>Enterobacter</i>)	CREall_AR	Any <i>Escherichia coli</i> , <i>Klebsiella aerogenes</i> , <i>Klebsiella oxytoca</i> , <i>Klebsiella pneumoniae</i> , or <i>Enterobacter</i> spp. that has tested Resistant (R) to at least one of the following: imipenem, meropenem, doripenem, or ertapenem
Carbapenem-resistant <i>E.coli</i>	CREecoli_AR	Any <i>Escherichia coli</i> that has tested Resistant (R) to at least one of the following: imipenem, meropenem, doripenem, or ertapenem
Carbapenem-resistant <i>Enterobacter</i> spp. and <i>Klebsiella aerogenes</i>	CREenterobacter_AR	Any <i>Enterobacter</i> spp. or <i>Klebsiella aerogenes</i> that has tested Resistant (R) to at least one of the following: imipenem, meropenem, doripenem, or ertapenem
Carbapenem-resistant <i>Klebsiella pneumoniae/oxytoca</i>	CREklebsiella_AR	Any <i>Klebsiella oxytoca</i> or <i>Klebsiella pneumoniae</i> that has tested Resistant (R) to at least one of the following: imipenem, meropenem, doripenem, or ertapenem

- Update screenshot to include the updated phenotype names

2019 Presentation, Slide 70

Reporting Metrics

- 502 facilities submitted at least one month of data
 - From 47 states
 - Bed size
 - Average = 214
 - Median = 175
 - Min/Max = 6, 1249
 - Teaching status
 - Teaching: 63%
 - (of all Teaching) Major teaching: 45%

2020 Updates for Slide 70

Reporting Metrics

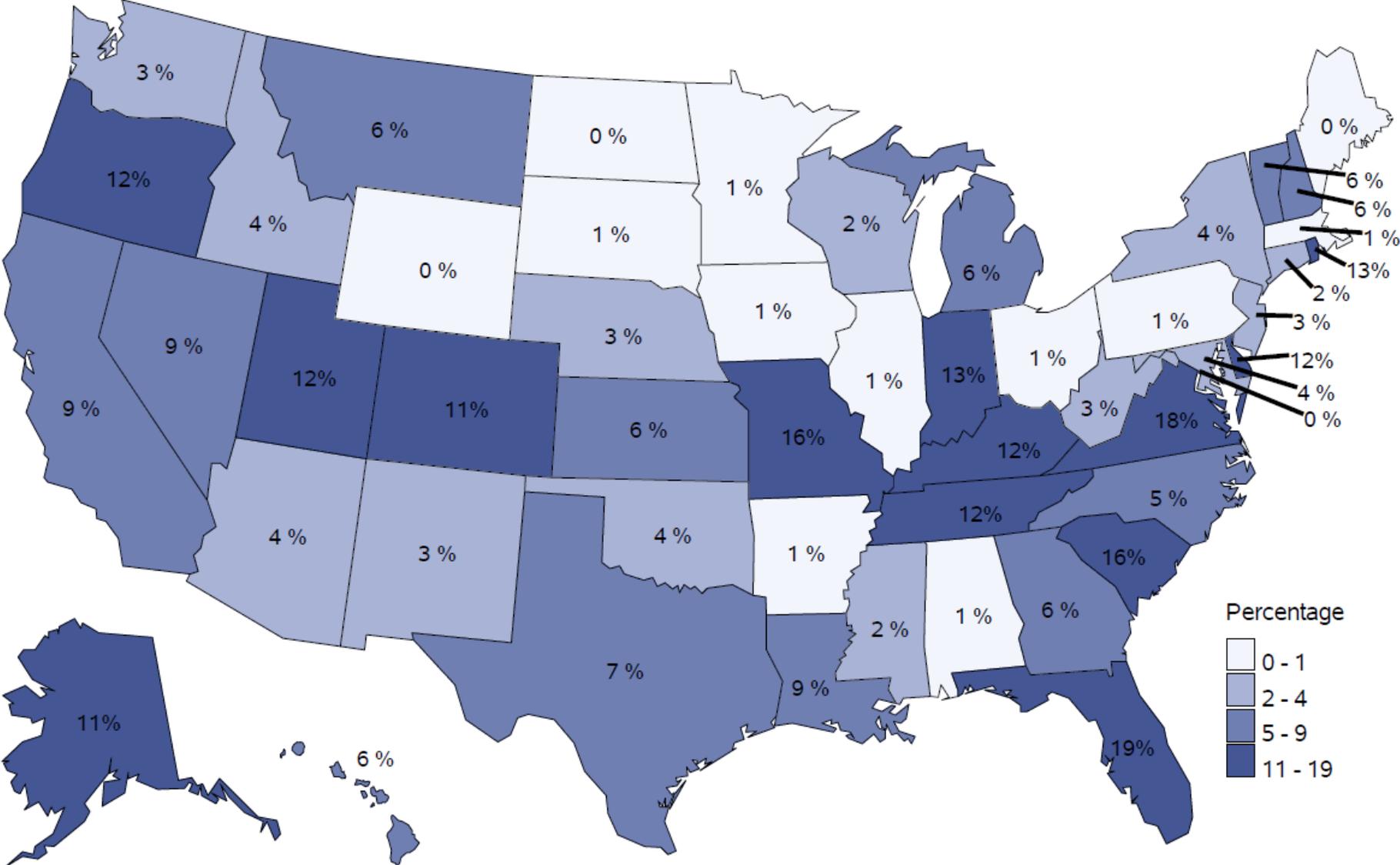
- 658 facilities submitted at least one month of data
 - From 48 states
 - Bed size
 - Average = 220
 - Median = 171
 - Min/Max = 6, 1266
 - Teaching status
 - Teaching: 450 (68%)
 - Major teaching makes up 50% of all teaching

- Update all metrics with January 1, 2020 numbers

2019 Presentation, Slide 71

Hospital participation in AR Option

Percentage of facilities reporting at least one month of data to NHSN's AR Option

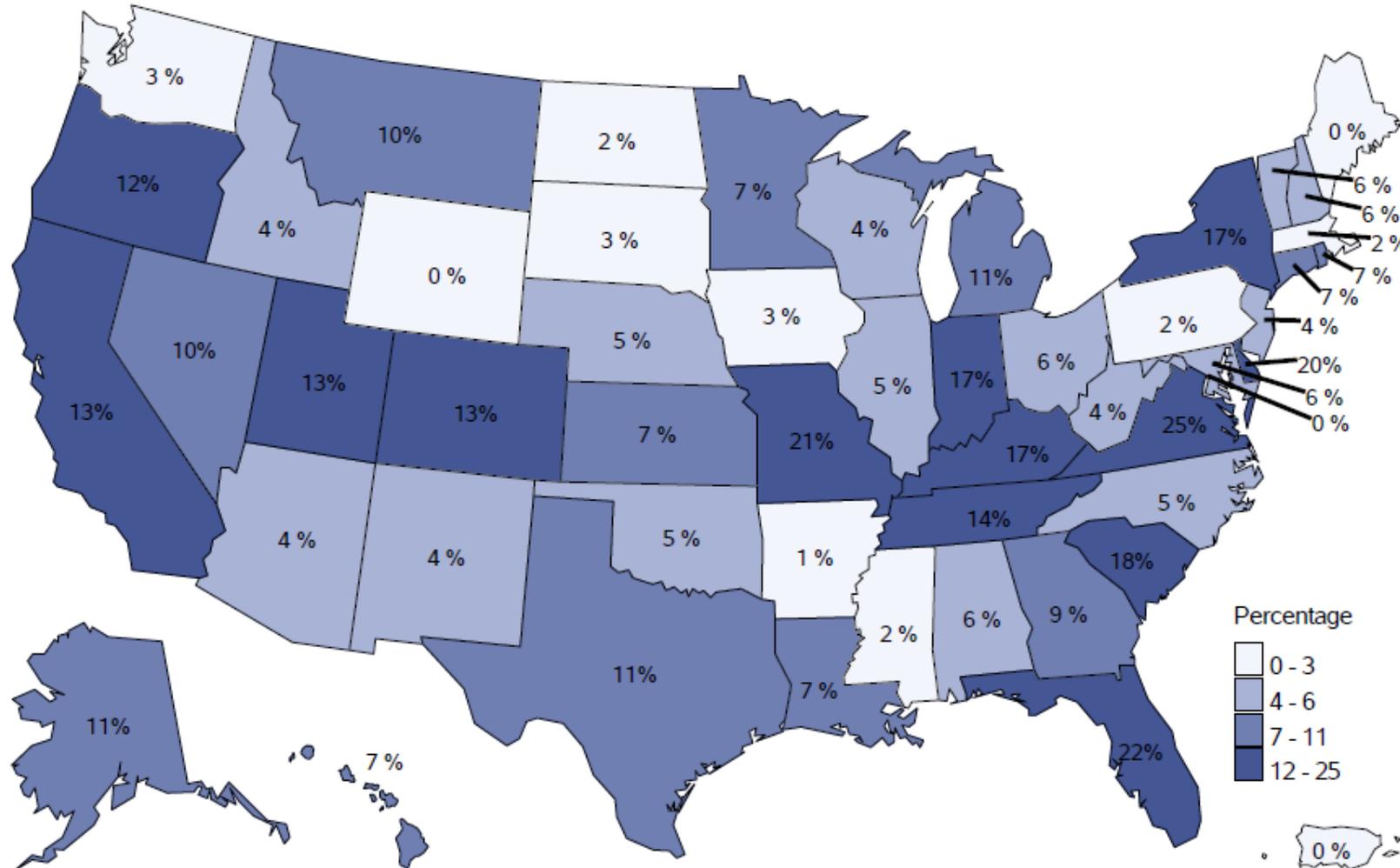


*As of February 1, 2019 21

2020 Updates for Slide 71

Hospital participation in AR Option

Percentage of facilities reporting at least one month of data to NHSN's AR Option



*As of January 1, 2020 23

- Updated map with January 2020 data