

Texas Department of State Health Services

## Texas Laboratory Updates and Capabilities

**July 2018** 

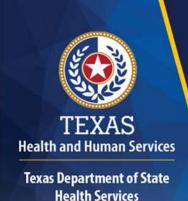
### Samples Tested and Findings

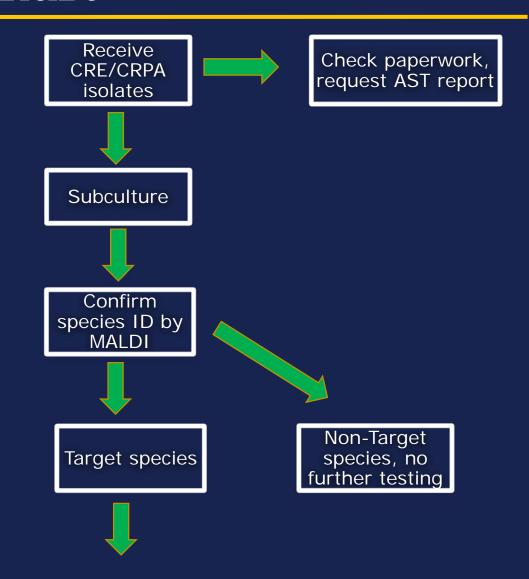


Total No. of Samples Tested	2016
Positive Mechanisms Detected	255 KPC; 11 NDM; 32 VIM; 4 OXA; 1 MCR-1
CP-CRE	300
CP-CRPA	61
Number of Colonization Samples Tested	370
Number of Colonization Samples Tested Positive	36 KPC, 1 VIM

<sup>\*</sup>One isolate was positive for both NDM and OXA

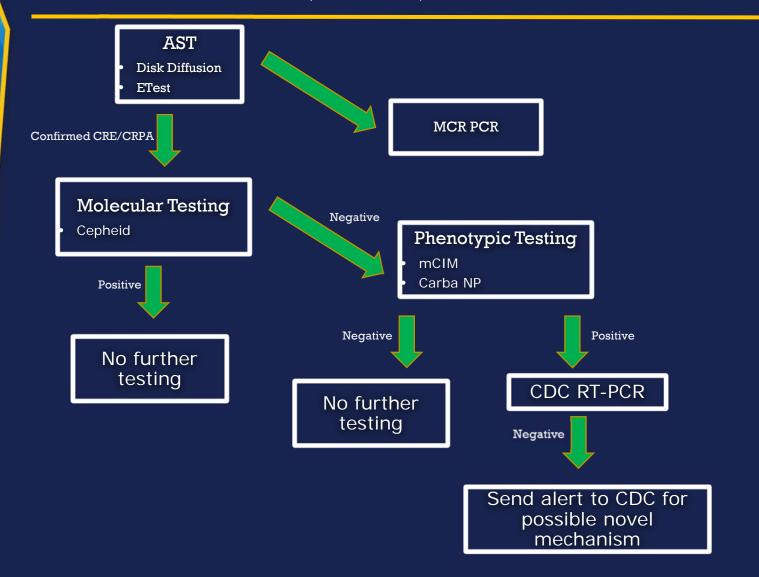
### Texas CRE/CRPA Testing Flowchart





# Texas CRE/CRPA Testing Flowchart (cont)







# Updated Submission Form (G2E)

- 1. Effective July 2018
- 2. Pre-populated with Mountain State information under "Section 1, Submitter Information"
- 3. Combined Section 4 (for Texas submitters) and Section 8 (for out-of-state submitters) into one section
- 4. Added Candida testing
- 5. Separated colonization screening(Candida auris, CRE, CRPA, CRAB, other) from isolate testing
- 6. "Payor source" is automatically checked for you
- 7. Specimen submission instructions were shortened significantly



### Current Texas Testing Repertoire

#### 1. Species ID

- MALDI
- Biochemicals

#### 2. **AST**

- Disk Diffusion
- Etest
- BMD assay fully validated, SOP approved, waiting for LIMS

#### 3. Phenotypic

- mCIM
- Carba NP

#### 4. Molecular

- Cepheid
- CDC PCR: KPC/NDM; VIM, OXA, IMP, MCR-1 & MCR multiplex



### Texas ARLN Testing Capacity

#### Advanced Molecular Microbiology Group

- Advanced Molecular Detection Team 9 FTE
  - Perform ARLN testing
- Clinical Bacteriology Team 7 FTE
  - · Most are cross-trained on AST and phenotypic testing
- Molecular Biology Team 8 FTE
  - Some are cross-trained on AR molecular mechanism testing, such as PCR and WGS





# Texas ARLN Testing Capacity (continued)

- Can test up to 250 isolates and 250 colonization swabs per month
- Can fill gaps by performing AST, phenotypic or molecular testing for Mountain States
- Can help with isolation of organisms from positive colonization swabs and perform PFGE to detect transmission
- Responsible for CRE colonization and targeted surveillance testing, in addition to confirmatory testing
- Can provide surge capacity
- Testing available Monday-Friday

### Texas ARLN Testing Capacity (continued)

#### Available now:

 Identification of Candida species, in particular C. auris, by MALDI



 Fungal susceptibilities of Candida species to identify emerging resistance

#### AND

 Identification and colonization screening to detect and help prevent spread of *C. auris*





Texas Department of State Health Services

# Thank you

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