

## Best Practices for Creating Local Antimicrobial Stewardship Clinical Practice Guidelines in Healthcare Settings

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### Why Create Local Guidelines?<sup>1</sup>

- Adapt national best practices to reflect local antibiotic resistance patterns, costs, and pharmacy formularies.
- Promote antimicrobial stewardship as part of standard facility processes
- Focus on national data that is most relevant to the specific needs of the facility and population
- Meet stewardship regulatory requirements

### Which Healthcare Settings Can Benefit from Having Local Guidelines?

- All settings can benefit, including:
  - Nursing homes
  - Acute care facilities
  - Emergency departments
  - Outpatient clinics (urgent care, family practice, specialty, etc.)
  - Dialysis centers
  - Surgical centers
  - Dental clinics

### Who Can Create Local Guidelines?

- Physicians, pharmacists, dentists, nurse practitioners, physician's assistants, & nursing leadership with support from nurses, infection preventionists, and microbiologists

### What National Guidelines Support the Creation and Usage of Local Guidelines?

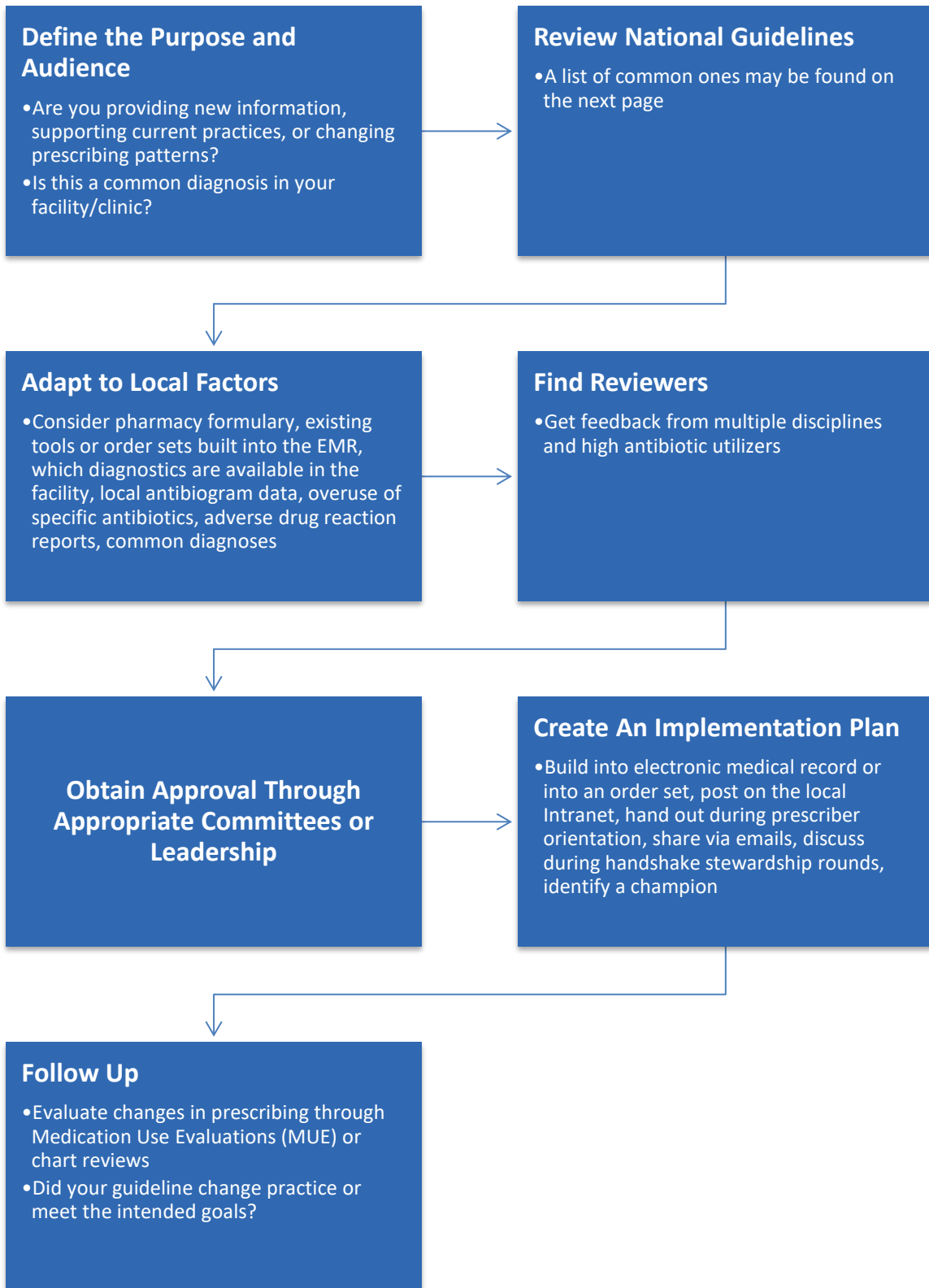
#### Infectious Diseases Society of America (IDSA)<sup>2</sup>

- Recommends that stewardship programs develop facility-specific clinical practice guidelines and a strategy for dissemination and implementation of the guideline

#### CDC's Core Elements of Antibiotic Stewardship<sup>3,4,5</sup>

- **The Core Elements of Antibiotic Stewardship for Nursing Homes** recommends standardizing the practices which should be applied during the care of any resident suspected of an infection
- **The Core Elements of Outpatient Antibiotic Stewardship** recommends implementation of facility-specific or system-specific practice guidelines
- **The Core Elements of Hospital Antibiotic Stewardship Programs** recommends facility-specific guidelines as a priority intervention to improve antibiotic usage

## How Do I Create a Local Guideline?



## What National Clinical Guidelines Are Available to Guide Facility Efforts?

- Some of the most referenced clinical guidelines include:

### [IDSA Practice Guidelines](#)

- Guidelines for common disease states such as pneumonia, skin infections, asymptomatic bacteriuria, and urinary tract infections

### [Adult Outpatient Treatment Recommendations](#)

- Contains the most recent recommendations for appropriate antibiotics for adults in the outpatient setting

### [SHEA's Strategies to Prevent Surgical Site Infections in Acute-Care Hospitals](#)

- Provides practical recommendations to assist hospitals in implementing and prioritizing surgical site infection efforts

### [Pediatric Outpatient Treatment Recommendations](#)

- Contains the most recent recommendations for appropriate antibiotics for pediatric patients

### [GOLD Guidelines for COPD](#)

- Provides recommendations for antibiotic treatment in patients with COPD

### [AAAI's Drug Allergy Guideline](#)

- Guidance for penicillin and beta-lactam allergy delabeling efforts

## Guideline Formatting Tips:

- Be clear and concise
  - An example of a clear and concise local guideline may be found here:
    - [Community-acquired Pneumonia | Infectious Diseases Management Program at UCSF](#)
- Consider the use of tables, figures, or infographics to present the guideline information
- Include diagnostics, medication (dose, duration, cost) and pertinent supplementary information such as most common causative organisms and reference sources

## Example:

- **Scenario:**
  - After performing an annual clinic antibiogram update, the family practice provider notices that the methicillin-resistant *Staphylococcus aureus* (MRSA) isolates in the past year is susceptible to the antibiotic sulfamethoxazole-trimethoprim (SMZ/TMP) only 50% of the time.
  - The provider knows that this antibiotic is commonly prescribed for MRSA-suspected skin

- infections at the clinic & would like to ensure this antibiotic is not used as a first choice.
- The provider would also like to make sure that the recommended antibiotic is used only when it is needed so as to prevent further resistance.

- **Application:**

#### 1. Define the purpose and the audience:

- The provider wants to make sure that SMZ/TMP is not prescribed by clinic providers as the initial empiric therapy for MRSA-suspected skin infections.
- The provider would like to make sure that the recommended antibiotic is used only when it is needed.

#### 2. Review national guidelines

- The provider chooses to review the IDSA's Skin and Soft Tissue Infection guideline.
- The guideline recommends either SMZ/TMP or doxycycline only when specific criteria are met.

#### 3. Adapt to local factors

- The clinic's antibiogram shows that while MRSA is susceptible to SMZ/TMP only 50% of the time, it is almost always susceptible to doxycycline which is listed as a preferred choice in the IDSA guidelines. As a result, doxycycline is considered the better local choice.

#### 4. Find reviewers

- A concise draft guideline (**visual example for inspiration here**) is written and sent to a multidisciplinary clinical team for review and feedback.

#### 5. Obtain approval

- Once consensus is obtained, the guideline goes through local approval processes.

#### 6. Create an implementation plan

- The new guideline is emailed to all clinic providers and posted on the local Intranet.

#### 7. Follow Up

- Chart review of patients with MRSA-suspected skin infections is performed 3 months after the guideline is distributed.
- An increase in prescriptions written for doxycycline as initial therapy is noted, indicating success.

## Tips For Success:

1. Ask your colleagues to share their favorite national guidelines
2. Integrate a local guideline into an electronic health record (EHR) can be especially valuable for uptake and use of a new guidance document
3. Be receptive to all feedback
4. Review these guidelines regularly, preferably in conjunction with the institution antibiogram
5. Make sure to update any pre-selections in the electronic health record or paper order bundles to match the new guideline

## References:

1. Livorsi DJ, Drainoni ML, Reisinger HS, et al. Leveraging implementation science to advance antibiotic stewardship practice and research. *Infection Control & Hospital Epidemiology*. 2022;43(2):139-146. doi: <https://doi.org/10.1017/ice.2021.480>
2. Barlam TF, Cosgrove SE, Abbo LM, et al. Implementing an Antibiotic Stewardship Program: Guidelines by the Infectious Diseases Society of America and the Society for Healthcare Epidemiology of America. *Clinical Infectious Diseases*. 2016;62(10):e51-e77. doi: <https://doi.org/10.1093/cid/ciw118>
3. CDC. The Core Elements of Antibiotic Stewardship for Nursing Homes. US Department of Health and Human Services; 2015. <https://www.cdc.gov/antibiotic-use/core-elements/pdfs/core-elements-antibiotic-stewardship-H.pdf>
4. CDC. The Core Elements of Outpatient Antibiotic Stewardship. US Department of Health and Human Services; 2016. [https://www.cdc.gov/antibiotic-use/community/pdfs/16\\_268900-A\\_CoreElementsOutpatient\\_508.pdf](https://www.cdc.gov/antibiotic-use/community/pdfs/16_268900-A_CoreElementsOutpatient_508.pdf)
5. CDC. The Core Elements of Hospital Antibiotic Stewardship Programs. US Department of Health and Human Services; 2019. <https://www.cdc.gov/antibiotic-use/healthcare/pdfs/hospital-core-elements-H.pdf>



DOH 420-512 July 2023

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