



Implementation of Antimicrobial Stewardship Components Stratified by Level of Resources

Basic Antimicrobial Stewardship Components

- Obtain leadership commitment via formal written statement
- Appoint physician and consultant pharmacist as program leaders
- Develop policy and implement practices to improve antibiotic use
- Track and report antibiotic prescribing practices and outcome measures
- Educate providers, residents, and/or family on appropriate antibiotic use

Action	Low Level of Resources	Moderate-to-High Level of Resources
Survey	Current antibiotic prescribing practices and issues	
Educate	<ul style="list-style-type: none"> <input type="checkbox"/> Why, what, and how of antibiotic stewardship <input type="checkbox"/> Minimum criteria for testing for UTI <input type="checkbox"/> Minimum criteria for initiating antibiotic for UTI <input type="checkbox"/> Prevention of <i>C difficile</i> infection <input type="checkbox"/> Any other topic identified based on the survey 	<ul style="list-style-type: none"> <input type="checkbox"/> As in low-level of resources, <i>PLUS one or more of the following:</i> <input type="checkbox"/> Criteria for testing and starting antibiotics for skin/soft tissue and respiratory tract infections <input type="checkbox"/> Effective communication strategy to providers (SBAR model) <input type="checkbox"/> Antibiotic time-out <input type="checkbox"/> Bug-drug mismatch
Implement	<ul style="list-style-type: none"> <input type="checkbox"/> Basic stewardship components (see above) <i>PLUS</i> <input type="checkbox"/> Facility antibiogram (if feasible) 	<ul style="list-style-type: none"> <input type="checkbox"/> As in low-level of resources, <i>PLUS at least one additional example interventions listed below (but are not limited to):</i> <input type="checkbox"/> Facility specific prescribing guidelines <input type="checkbox"/> Standard provider communication tool <input type="checkbox"/> Antibiotic time-out and review processes <input type="checkbox"/> Antibiotic prescribing report cards for providers



Nebraska Antimicrobial Stewardship Assessment and Promotion Program
In conjunction with UNMC, Nebraska Medicine, and Nebraska DHHS Epidemiology Unit

General Approach to Antimicrobial Stewardship Program Development

- A. Survey program and develop needs assessment using CDC tool
- B. Ensure leadership support – assist with policies, business plan, and presentation to organization leadership if needed
- C. Develop local accountability – appoint program leader, preferably local MD and consultant pharmacist
 - a. Local MD and consultant pharmacist will serve as clinical leader of local effort
 - b. Engage others at or affiliated with facility – infection control, QAPI, nursing staff, microbiology
- D. Educate nurses and clinicians regarding antimicrobial stewardship practices
 - a. Stewardship basics – why, what, and how
 - b. Minimum criteria for initiating antibiotics for UTI
 - c. Prevention of *C difficile* infection
 - d. Effective communication strategy to convey clinical changes to providers
- E. Develop written policies on antibiotic prescribing that requires antibiotic orders to have correct dose, duration and indication and encourages provider to choose narrow spectrum agents whenever possible.
- F. Implement interventions to make sure the antibiotic use policies are being followed.
- G. Provide planning support on which antimicrobial stewardship interventions to implement based on available resources (see table on reverse side). Examples of interventions include (but are not limited to):
 - a. Implementing a standardized assessment and communication tool for residents suspected of having an infection
 - b. Using diagnostic algorithm for deciding when to obtain urine cultures
 - c. Developing antibiotic time out process (including regular review of culture results at 48-72 hours)
 - d. Developing and implementing facility-specific treatment guidelines (UTI preferred ,SSI, PNA)
- H. Assist with tracking antibiotic use, antibiotic resistance, and healthcare-associated infections