Antimicrobial Stewardship Measure Definition Sheet

**Goal:** Identify areas of opportunity within specific antibiotic classes to optimize antimicrobial utilization and decrease antimicrobial resistance patterns, development of secondary infections and adverse medication effects.

**Data Definition – Antimicrobial Utilization**

**Numerator:** Total days of therapy (DOT) of select antibiotics*

A Day of Therapy (DOT) will be defined as at least one dose of a selected antibiotic given on a calendar day to a patient in an inpatient unit (Med/Surg, ICU/Tele, PICU, NICU, OB). A patient on multiple antibiotics on the selected list would be counted for each separate antibiotic given each calendar day. For medications with 48-hour dosing intervals, a day of therapy will be documented only on a calendar day in which the antibiotic was administered (for e.g. levofloxacin).

**Denominator:** Patient days (total acute inpatient, observation and rehab days)

**Penicillins**
- Piperacillin/Tazobactam (Zosyn)
- Ticarcillin/Clavulanate (Timentin)
- Ampicillin/Subactam (Unasyn)
- Amoxicillin/Clavulanate (Augmentin)

**Cephalosporins:**
- Ceftriaxone (Rocephin)
- Cefotaxime (Claforan)
- Ceftazidime (Fortaz)
- Cefepime (Maxipime)
- Ceftaroline (Teflaro) Pen

* **Suggested Antibiotic Focuses** (for full details, see Report Writing Specifications\(^1\)):
  1. Fluoroquinolones
  2. Clindamycin
  3. Penicillins (broad spectrum)
  4. Cephalosporins (3rd and 4th generation, broad spectrum)
  5. Carbapenems

**Inclusion Criteria**
- Patients of all ages, who are admitted to hospital bed regardless of status (e.g. include observation, rehab and swing bed patients)
- All routes (oral, IV, IM)

**Exclusion Criteria**
- Well newborns not admitted to a pediatric unit or NICU
- Doses given to patients in the Emergency Department or Ambulatory Surgery

**Data Submission:**
1. Input data into WSHA Quality Benchmarking System (QBS). If you need access, contact Decision Support at decisionsupport@wsha.org. Current users may log in with their QBS credentials. For questions Meg Kilcup at antimicrobialstewardship@wsha.org.

2. Ongoing: Monthly data to be submitted to QBS by 45 days after the end of the prior month.

<table>
<thead>
<tr>
<th>Data Month</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>July</th>
<th>August</th>
<th>September</th>
<th>October</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit By</td>
<td>March 15(^{th})</td>
<td>April 15(^{th})</td>
<td>May 15(^{th})</td>
<td>June 15(^{th})</td>
<td>Sept. 15(^{th})</td>
<td>Oct. 15(^{th})</td>
<td>Nov. 15(^{th})</td>
<td>Dec. 15(^{th})</td>
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If you have any questions, please contact antimicrobialstewardship@wsha.org.