



General data specifications for the Antimicrobial Resistance Management Program:

A. Antibiogram data:

- 1) Legibility is extremely important.
- 2) A minimum of three years worth of data, preferably annualized (12 months of data provide more isolates for more meaningful longitudinal analysis). We can combine and recalculate smaller increments of data (e.g. quarters or half-years), but if we can obtain 12-month reports, it allows more efficient entry and therefore quicker turn-around time for reports. Antibiograms are the standard data format. Susceptibility reports or MIC reports are also acceptable, if available. Data formats should give the number of isolates tested for each bug and drug and the percent susceptible.

(Much of the following information is gathered through the Institution Information Sheet)

- 3) Are isolates systemic or do they include urinary isolates? Are outpatient isolates included? Are duplicate isolates excluded? Please identify the data as specifically as possible, as this gives us better information to provide you with a better analysis.
- 4) A key identifying drugs tested if they are abbreviated on antibiograms (abbreviations are not always standard).
- 5) Any information you think might clarify or help us better understand antibiogram data (e.g., is any form of cascading used in testing, are some drugs used interchangeably in testing, like cefotaxime and ceftriaxone against *S. pneumoniae*...)
- 6) Contact information:
 - a. correct name and address of the institution, including street address and zip.
 - b. name, title, and address (if different), as well as an email address for the person to whom any report and analysis should be sent when completed.
 - c. name, phone number, and email address for a contact (if different from above) who we may contact with any questions regarding the micro report.

Send information and data either by regular mail or email. Our mailing address is:

ARM Program
John Gums, PharmD
Family Practice Medical Group
625 SW 4th Ave
Gainesville, FL 32601

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B. Utilization Data

For purpose of data collection and analysis for the Understanding Bugs and Drugs Program, it was accepted that antibiotic purchase data is a sound proxy for antibiotic utilization. Upon program participation, VHA Measurement Services will pull the pharmacy data from Novation database and submit to the ARM Program. Pharmacy Directors of the participating hospitals will be asked to collect and submit supplemental information for directly purchased antibiotics (frozen antibiotics) on a yearly basis for a specified time frame. Hospitals that have the capacity to supply pharmacy utilization data and prefer to directly submit to the ARM Program can do so in the format described below.

Spreadsheets are ideal formats. We request utilization data beginning the year prior to the earliest antibiogram data submitted, if possible. The ARM Program looks at the changes in utilization from year to year and examines relationships between utilization patterns and susceptibilities.

Our database requires antibiotic utilization information in a specific format-- Utilization data specifications for ARM Program:

- drug utilization must be specified in one consistent measure, i.e., all utilization must be expressed as “grams” or “defined daily doses” or similar measures. Units cannot be mixed.
- there can be only one total amount per antibiotic in any dataset. For example, all utilization for “Clindamycin, clindamycin palmitate, clindamycin phosphate, and clindamycin phosphate/D5W” must be totaled and expressed as a single amount in the utilization data sent to us (see example below). PLEASE NOTE: combination drugs such as amoxicillin/clavulanate should be considered as separate drugs from the single agents and reported separately (as in example below)

antibiotic	2001 (Gms)	2002 (Gms)	2003(Gms)
Amoxicillin and amoxicillin trihydrate	384	1130	1250
Amoxicillin TR/Pot Clav	1236	952	1368
Cefuroxime axetil, cefuroxime sodium, and cefuroxime Na/dextrose	508	310	368
Ciprofloxacin, ciprofloxacin HCl, ciprofloxacin HCl – Betaine, ciprofloxacin lactate, and ciprofloxacin lactate/D5W	2925	2971	1095

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