

## Agent Use by Indication

These instructions will demonstrate how to modify existing antimicrobial use data sets by indication. This data can be obtained a variety of different ways including manual medication utilization evaluation or EMR reports. We will review how to manipulate the data below once it is in Excel™.

For this example, you will be determining the indication for aztreonam utilization to better target interventions to reduce utilization.

## Modifying the Report

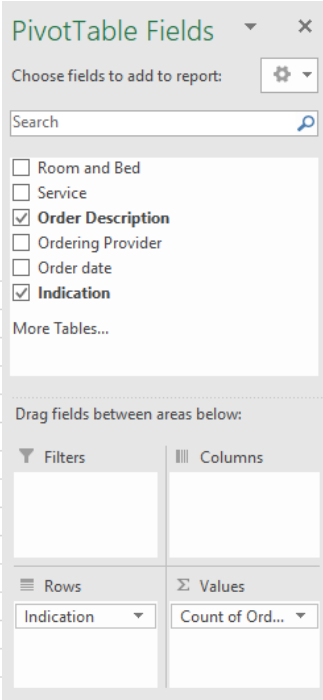
1. Open the file in Excel™. To avoid losing data as you work, save the file to your computer and change the file type from CSV to an Excel document type of your choosing.
2. To work with the data, insert a PivotChart. Simply place your cursor in any cell within your spreadsheet and select Insert>PivotChart. Ensure all data is selected and choose between including the chart in the existing worksheet or new worksheet. From here we have a few options on the visualization you can prepare.

Table 1

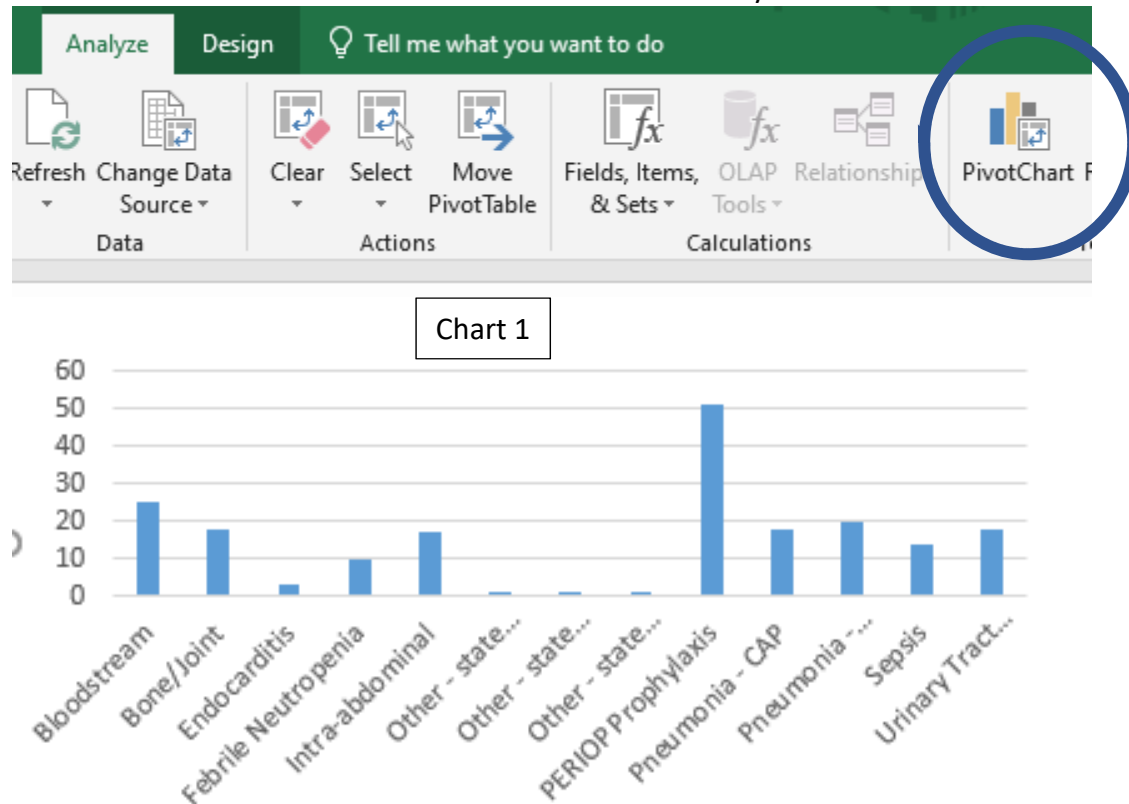
### Step 1: Show clinical service ordering aztreonam as table.

Using these parameters in your PivotChart, you should produce a table like table 1 by moving indication into the rows & count of indication into the values section of the Pivot Table Fields

Row Labels	Count of Order Description
Bloodstream	25
Bone/Joint	18
Endocarditis	3
Febrile Neutropenia	10
Intra-abdominal	17
Other - state indication in comments sectionLVAD driveline infection	1
Other - state indication in comments sectionPleural space infection	1
Other - state indication in comments sectionStenotrophomonasChang	1
PERIOP Prophylaxis	51
Pneumonia - CAP	18
Pneumonia - Nosocomial	20
Sepsis	14
Urinary Tract Infection	18
<b>Grand Total</b>	<b>197</b>



To show in chart format select PivotChart under the Analyze tab.




## Step 2: Drilldown to better understand where to start


It is clear in this example that PERIOP Prophylaxis is a common indication for aztreonam utilization. To further drill down on the service line using aztreonam, follow these steps


- 1) Filter by indication
- 2) Select multiple indications and uncheck all except PERIOP
- 3) Add service lines to rows
- 4) Add orders to value section and select the measurement to be counts

	A	B	C	D
1	Indication	PERIOP Prophylaxis		
2				
3	Row Labels	Count of Order Description		
4	Cardiology	4		
5	Cardio-Thoracic Surgery	12		
6	General Surgery	28		
7	Gynecology	2		
8	Orthopedics	3		
9	Trauma	2		
10	<b>Grand Total</b>	<b>51</b>		
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

### PivotTable Fields

Choose fields to add to report: 

Search 

- Room and Bed
  - Service
  - Order Description
  - Ordering Provider
  - Order date
  - Indication 
- More Tables...

Drag fields between areas below:

Filters	Columns
Indication	
Rows	Values
Service	Count of Ord...