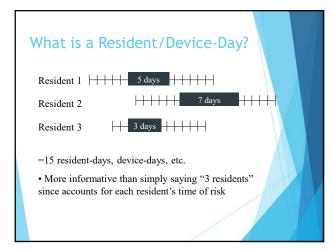
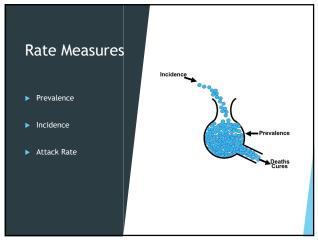


 Denominators
 Often, the most difficult data to obtain, but essential for comparisons

 Ideally, should incorporate time and can account for risk factors such as device use (e.g., device-days), length of stay (e.g., resident-days)

 10





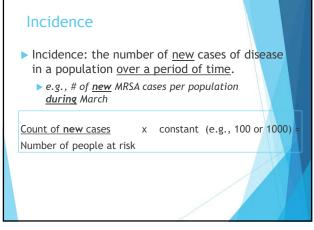


Prevalence

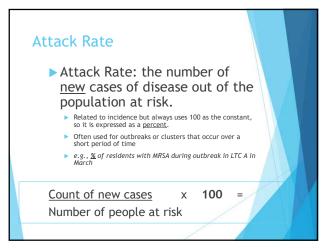
- Prevalence: the <u>total</u> number of cases of disease existing in a population <u>at a point in time</u>.
 e.g., # of MRSA cases per population <u>on</u>
 - March 8

Count of existing cases x constant (e.g., 100 or 1000) = Number of people at risk

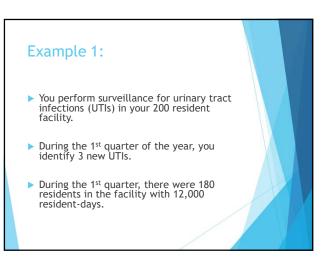
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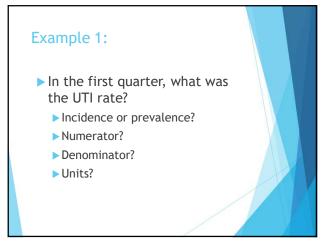


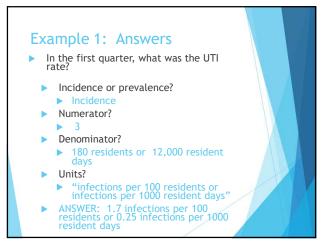
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15



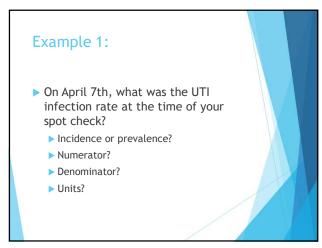




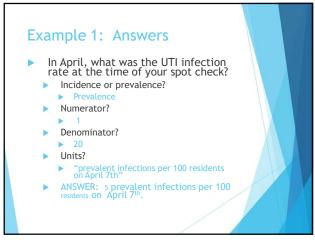
Example 1:

- You are concerned about the UTI rate so on April 7, you conduct a "spot check" on all of the residents of one area of the facility for a UTI.
- At that time with a census of 25, you review 20 charts and find 1 healthcare associated UTI.

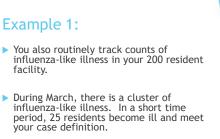
19



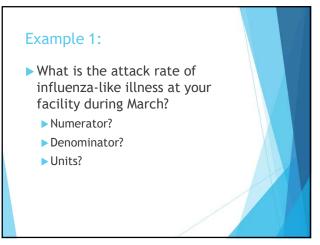
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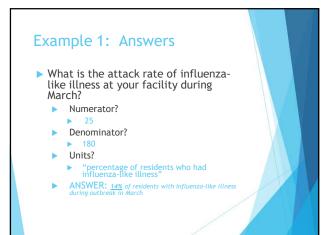


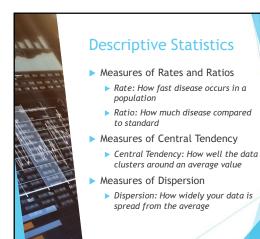
21



 During March, there were 180 residents in the facility with 5,000 resident-days.





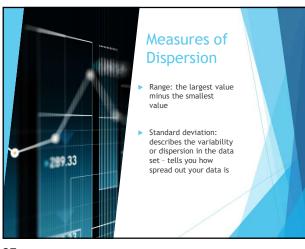


Measures of Central Tendency Mean: average of a group of numbers Median: middle number in an ordered group of numbers

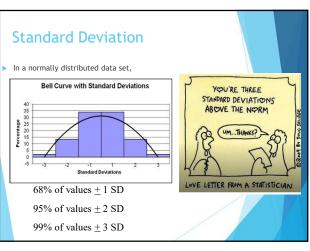
Mode: most common

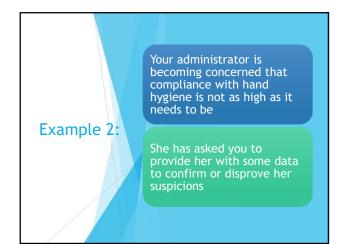
value in a group of numbers

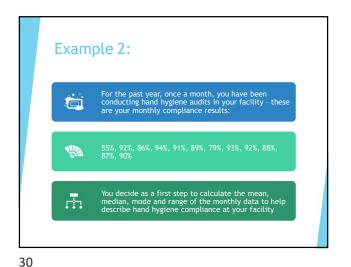
26

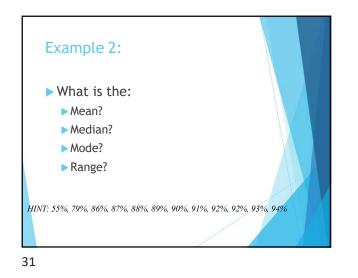


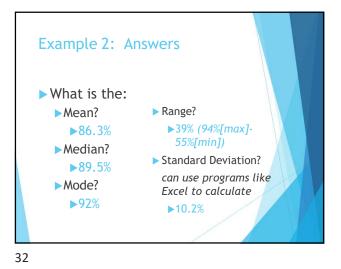


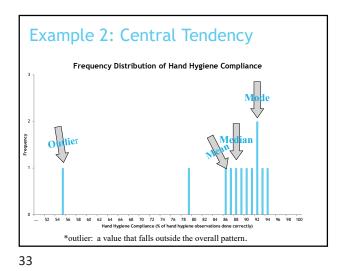


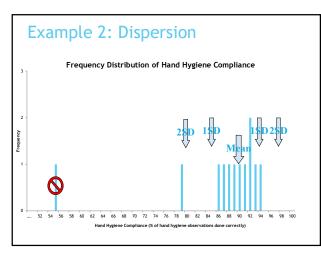


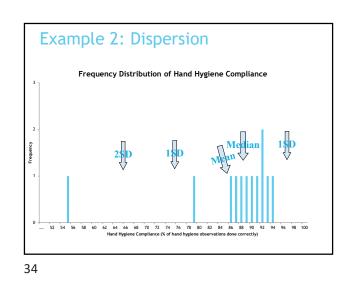




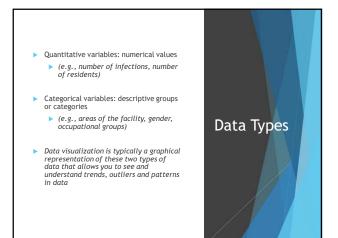












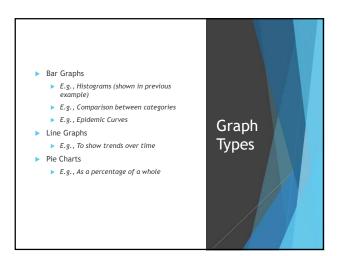
Displaying and Interpreting Surveillance Data Line lists Graphs: a visual representation of data on a coordinate system (e.g., two axes) Tables: a set of data arranged in rows and columns

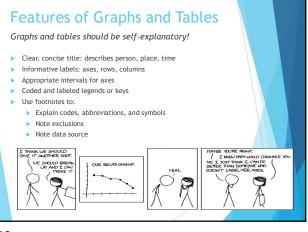
37

Line Lists

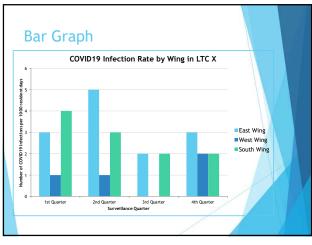
- Allow for record-level review of data
- Helpful way to standardize the data you want to routinely collect
- Helpful in pinpointing issues in data quality
- Can help inform rates or other summarized measures
 Can help identify trends
- Pt # cc U-Mod 0532210 -30 EW 308 eca) 780249 JW 234 Ucc U-Mod Kleb pri JW 202 wound PW PW PW 122 eyes Ucc U-M+ 3.2 tobra 388707 ecal 3-2 3-12 clinda Ucc U+Mind Ecal, ent Ucc U-Mind stens 2475260 4417105

39

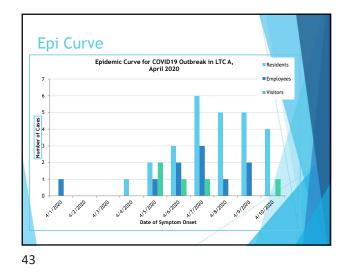


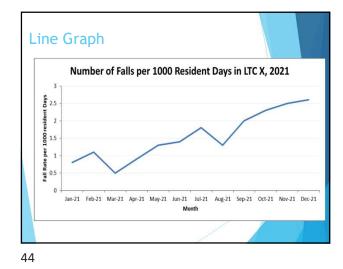


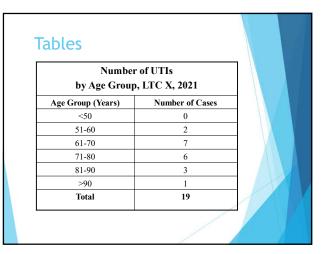
40

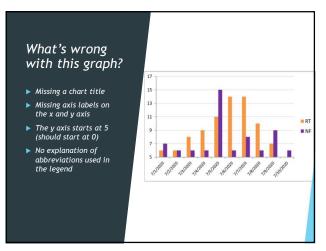








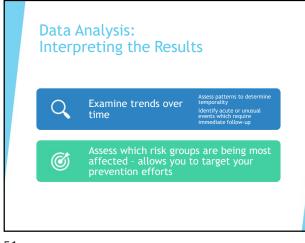


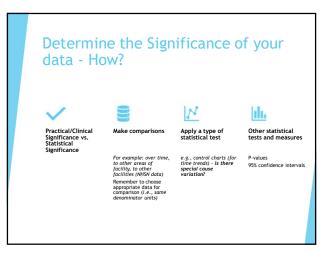




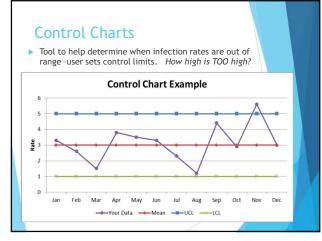




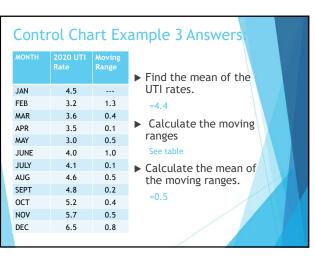


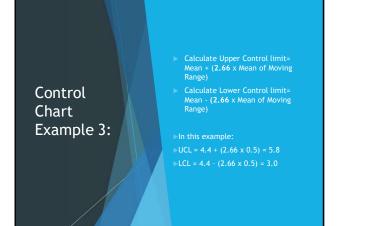


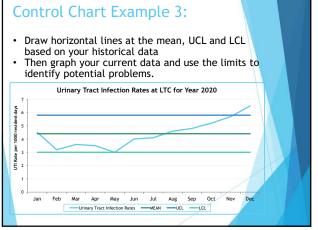


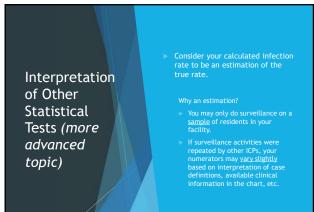


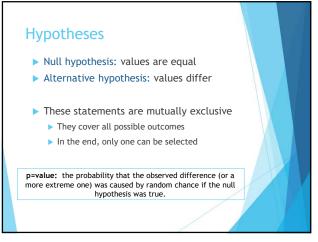
AN	Rate 4.5	Range	1.	Find the mean of	
IAN EB	4.5			the UTI rates for	
FB				the last year	
LD	3.2	1.3	2.	Calculate the	1
٨AR	3.6	0.4	2.	moving ranges	
APR	3.5			(subtract month 1	
٨AY	3.0			from 2, month 2	
IUNE	4.0			from 3) and take absolute values (no	
IULY	4.1		3.	negative values)	
AUG	4.6			Calculate the mean	
EPT	4.8			of the moving	\sim
ОСТ	5.2			ranges	
10V	5.7				
DEC	6.5				

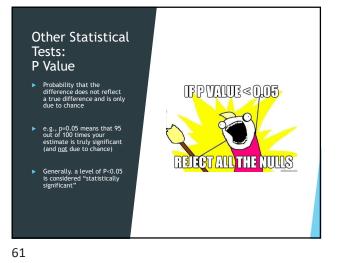


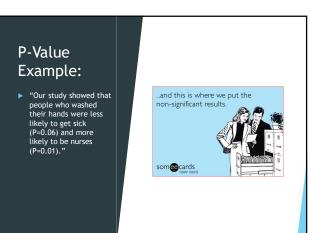




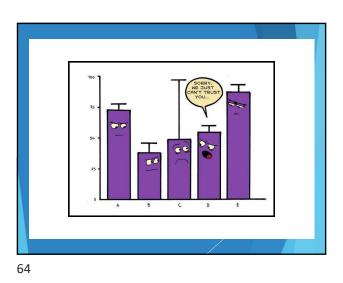


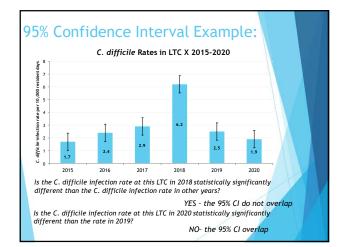


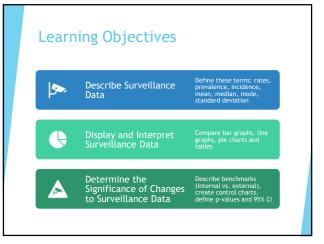


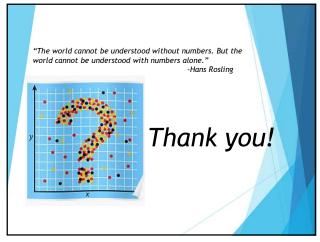












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