

Exercise

Please answer each question with a score of 1 to 5. 1 is below average, 3 is average and 5 is above average.

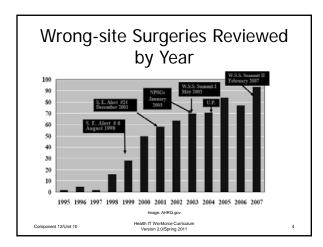
- How smart am I?
- · How hard do I work?
- How kind am I?
- How tall am I?

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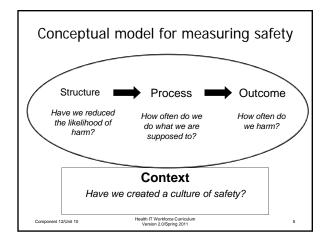
• How good is the quality of care you provide?

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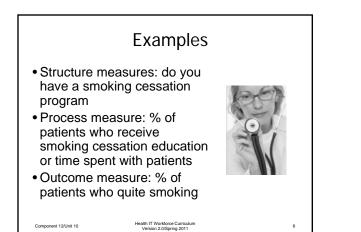
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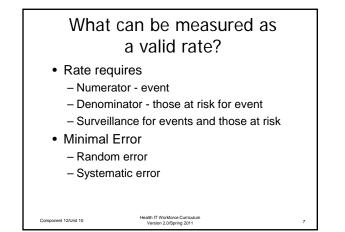


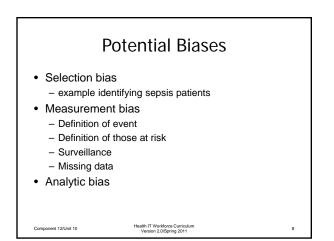












Sources Variation in Safety measures

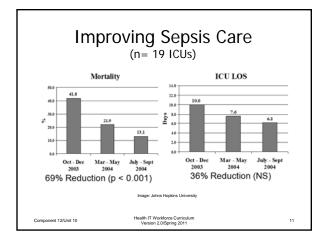
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- True variation in Safety
- Variation in data quality/definition/methods of collection
- Variation in case mix
- · Variation historical rates
- Chance

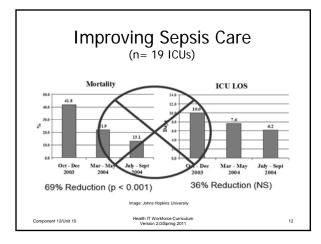
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How to measure Medication safety					
STUDY	NUMBER STUDIED	NUMERATOR	DENOMINATOR	ASSESSED BY	RATE OF EVENTS
Leape, et al. NEJM 1991	30,195 records	Disabling adverse events	Per record reviewed/ admission	Physician Reviewer	3.7 per 100 admissions
Lesar, Briceland JAMA 1990	289,411 medication orders/1 yr.	Prescribing errors	Number of Orders written	Physicians	3.13 errors for each 1000 orders
Lesar, Briceland Stein JAMA 1997	l year of prescribing errors detected and averted by pharmacist	Prescribing errors	Per medication orders written	Pharmacists, retrospectively evaluated by a physician and 2 pharmacists	3.99 errors per 1000 orders
Cullen, et al. Crit Care Medicine 1997	4031 adult admissions over 6 months.	Adverse drug events	Number of patient days	Self report by nurse and pharmacists, daily review of all charts by nurse investigators.	19 events pe 1000 ICU patient days

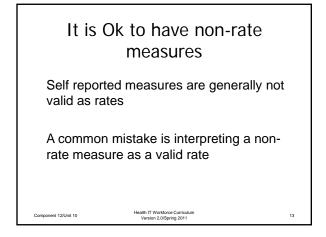












How to get more valid data

- Structure data entry or data collection forms clarify who what when where and how
- · Pilot test entry to see if staff understand
- Train and evaluate competency

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- Evaluate data quality (look at data) – Missing data, outliers, repeat values
- Ask if the consumer of the data believes it is valid and useful

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Quality Report

- Generally present data over time in annotated run chart
- Clearly label x and y axis (usually time period)
- Select time period so that you have about 25 observations per time period
- Ask users of the data for feedback on making it more useful

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14

15

