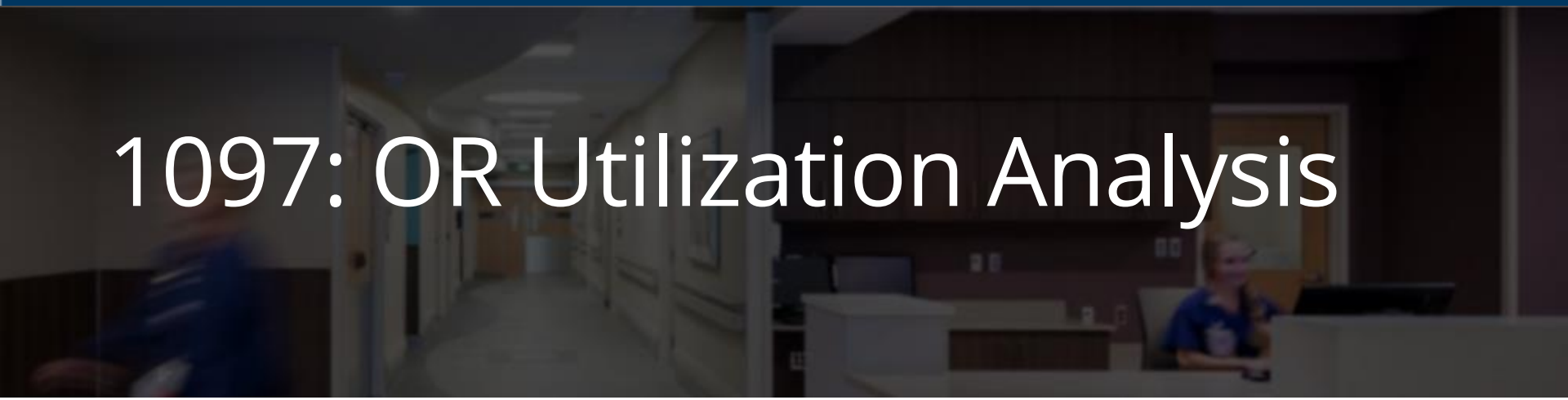
2022 MUSE Inspire Conference

May 15-18 Gaylord Texan Resort & Convention Center | Dallas, TX

Inspire



1097: OR Utilization Analysis

Optimizing Efficiency Through Understanding Data

Wednesday, May 18, 11:00A -11:55A

Presenters: Glen D'Abate & Chris Giroux

NMC

Northwestern Medical Center

Acmeware

Our Agenda

- Introductions
- Present why optimizing OR utilization is critical at NMC
- Review what OR utilization factors we will be measuring
- Discuss our strategy for compiling OR scheduling data to present in dynamic reports
- Introduce the technology and strategy used for presenting information to decision makers
- Demonstrate solution developed at Northwestern Medical Center

Northwestern Medical Center

- Small community-based hospital in rural northwestern Vermont. On the main campus is a 77 inpatient bed facility with 12 specialty clinics, & 2 urgent care facilities
- Serves a population of approximately about 50,000
- Provide inpatient, outpatient, emergency room services
- Meditech 6.x since 10/2010 with Meditech's Data Repository, WEB ED since 3/2017, WEB AMB & Expanse since 5/2019

Acmeware, Inc.

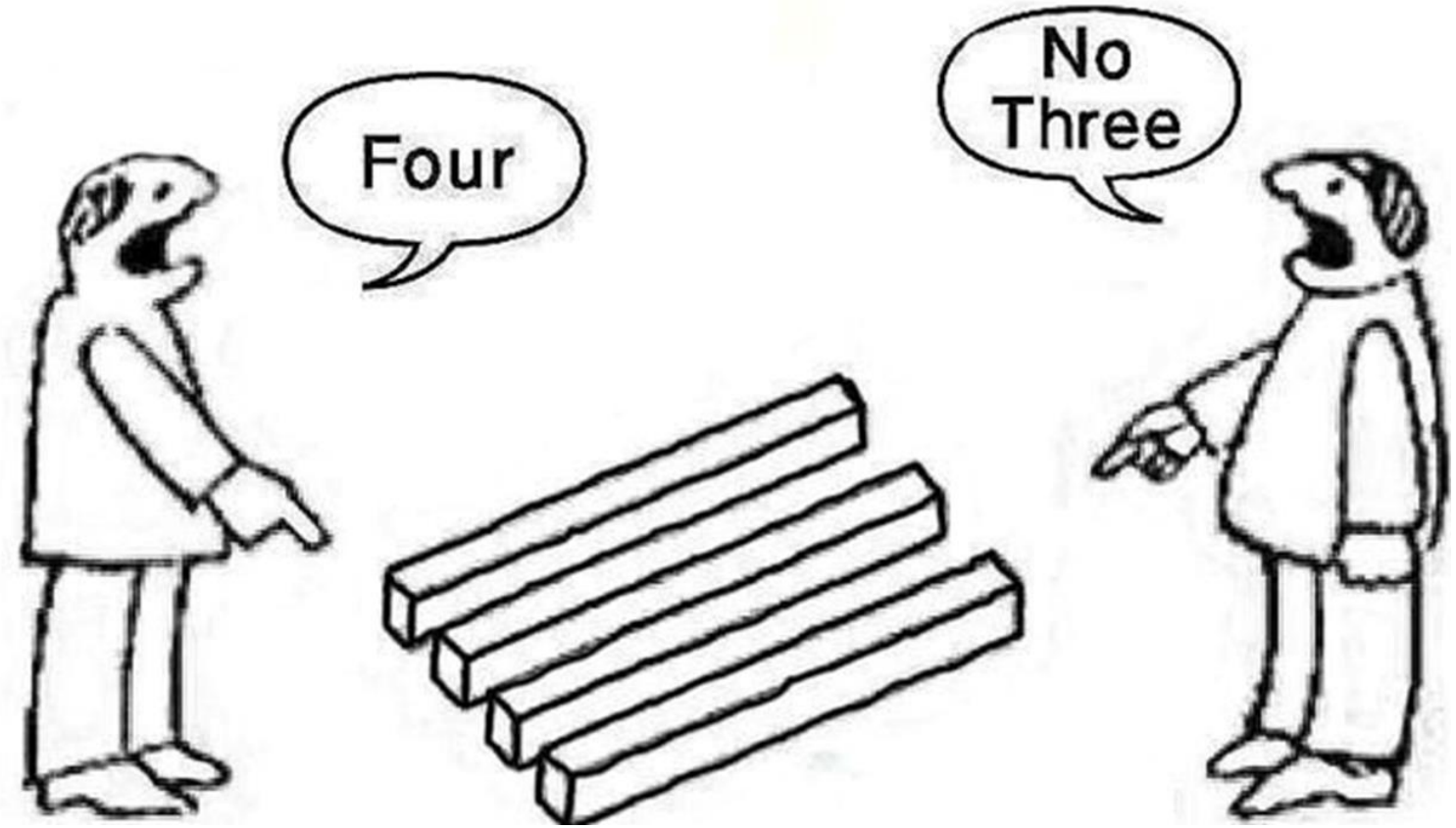
- Acmeware has been in business since 1998 providing reporting, analytics, quality submission, and data extract solutions for MEDITECH EHRs
- Our mission is "*to empower healthcare professionals with superior information to make knowledgeable decisions.*"
- We are a staff of 26 across 6 time zones and a corporate office in Dedham, Massachusetts
- We are primarily a professional services business providing custom solutions to meet the specific needs of our MEDITECH EHR clients.

Why NMC cares about OR utilization

- Operating Rooms are the financial hub to any hospital – revenue generating

- Maximizing the OR efficiency has important implications for cost savings, patient satisfaction, and medical team morale
- Efficiency depends on the scheduling, allocation of staff, equipment, prep and induction of anesthesia, preparation of next case
- Inefficient OR management can result in long patient waiting lists and case cancellations

Agreeing on what to measure



Operating Room Resource Optimization

- Operating Room Utilization - OR utilization is the sum of the time it takes to perform each surgical procedure (including preparation of the patient in the OR, anesthesia induction, and emergence) plus the total turnover time, divided by the time
- Block Utilization - Actual room time used during a case(s) divided by total allocated amount of time for a surgeon. Block time allocation is usually set aside for specific surgeons but can also be defined for the group they belong to or the surgical service(s) the surgeon is associated with.
- First Case On-Time Start-when first case does not start on time, creates a cascading effect

Identifying OR Data from the EHR

- Where does interesting data live in the EHR
- Strategy for accurately and timely consolidating of data in models

- Opportunities to include additional factors in our performance analysis

Empowering Decision Makers

- Technology selected to develop dashboard and reports
- Advantages gained by using Power BI
- Easy end-user interaction was key to empowering individuals to identify trends and potential problem areas

OR Dashboard and Report Demo

[OR Utilization Demonstration Reports]

Questions / Comments

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Keep in touch!

gdabate@acmeware.com

cgiroux@nmcinc.org

Our website: https://acmeware.com