Evaluating Training Using Medical Education Metrics (MEMS)

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Outline

- What is MEMS?
- What is MedBiquitous?
- Why do we need a standard for evaluation data?

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Joy's Story

- Created smallpox vaccination course with a 3rd party developer
- Implemented
- 300 individuals have taken the course

Great!

Or Is It?

MedBiquitous

A Few Questions

- What did learners think of the course?
- How does this course comp~~~
delivered by Joy's gr~~~
- How does ~~~ others
deli~~~ the region?
~~~ organizations that would like
~~~ how many people took Joy's
course?

How Do We Know that What We're Doing Is Effective?

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Evaluation

- "Any systematic method for gathering information about the impact and effectiveness of a learning offering." (learningcircuits.org)

- MEMS helps you:
  - Measure effectiveness
  - Communicate results

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What is MEMS?

- Medical Education Metrics
- Technology standard for communicating core level 1 evaluation data
- A product of the MedBiquitous Education Working Group

MedBiquitous

MedBiquitous Mission

To advance healthcare education through technology standards that promote professional competence, collaboration, and better patient care.

Non-profit, member-driven, standards development organization

Current Non-profit Membership

- *American Academy of Family Physicians*
- *American Academy of Ophthalmology*
- *American Academy of Otolaryngology – Head and Neck Surgery*
- *American Academy of Pediatrics*
- *American Association of Medical Colleges*
- *American Association for Thoracic Surgery*
- *American Association for Vascular Surgery*
- *American Board of Pediatrics*
- *American College of Chest Physicians*
- *American College of Gastroenterology*
- *American College of Radiology*
- *American College of Surgeons*
- *American Head and Neck Society*
- *American Heart Association*
- *American Medical Association*
- *American Psychiatric Association*
- *American Society of Clinical Oncology*
- *Association of Academic Health Centers*
- *Association of American Medical Colleges*
- *CareLearning*
- *Council of Medical Specialty Societies*
- *CTSNet (40 thoracic societies)*
- *European Association for Cardio-thoracic Surgery*
- *Federation of State Medical Boards*
- *International Council of Ophthalmology*
- *Society for Critical Care Medicine*
- *Society of Vascular Surgery*

Gov't, University, Corporate Members

Gov't & University

- *Centers for Disease Control*
- *National Library of Medicine, USA*
- *Veterans Administration*
- *Johns Hopkins*
- *HighWire Press, Stanford University*
- *Katholieke Universiteit, Leuven, Belgium*
- *Carnegie Mellon University*
- *Oregon Health and Sciences University*
- *University of Miami*

Corporate

- *AstraZeneca*
- *Aventis*
- *Johnson & Johnson*
- *Pfizer*
- *Elsevier Science*
- *John Wiley and Sons*
- *Accelera*
- *MedSn*
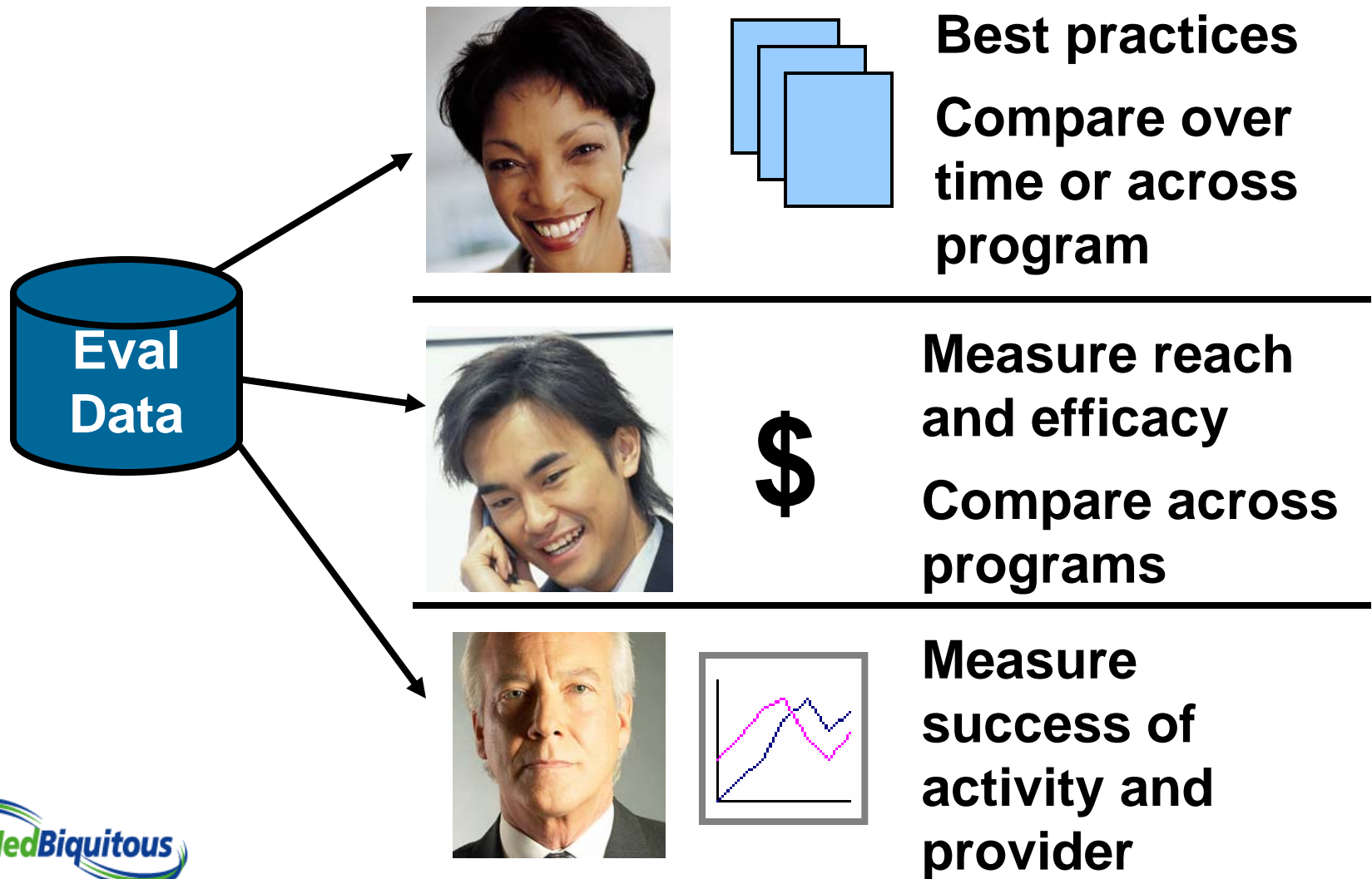- *Outstart*
- *TMA Resources*

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MEMS Subcommittee

- American Academy of Family Physicians
- American Medical Association
- Baylor College of Medicine
- CDC
- Johns Hopkins
- Johnson & Johnson
- MedSn
- Pfizer

* Consulted with ACCME

Why Do We Need A Standard for Evaluation Data?

MEMS Data

- Activity Description
  - What's being evaluated

- Participant Activity Evaluation
  - What did participants think

- Participation Metrics
  - How many people participated

- Provider Profile (future use)

Activity Description

Activity Description

- Learning Object Metadata
- Modality
- Reporting period

Participant Activity Evaluation

Participant Activity Evaluation

- Educational objectives achieved
- Relevant to learning needs
- Environment conducive to learning
- Method conducive to learning
- Plan to change practice
- Validated current practice
- Evidence base presented
- Free of commercial bias
- Balanced view of therapeutic options

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Participation Metrics

Participation Metrics

- Targeted audience
- Registered participants
- Participants receiving credit
- Credits awarded
- Distinct hosts or visitors
- Page requests
- Participants completing activity

What You Can Do

- Review your evaluations
  - Do they ask core questions?
  - Are they fairly consistent?

- Think about how you might use evaluation data
  - Aggregating within the organization/state
  - Aggregating across a region
  - Aggregating nationally

- Potential to improve courses for long term impact

Questions?

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