

HEALTH MANAGEMENT ASSOCIATES

Making Healthcare Data Actionable: Converting Data into Information for More Effective Reporting, Decision Making and Strategic Planning

Speakers:

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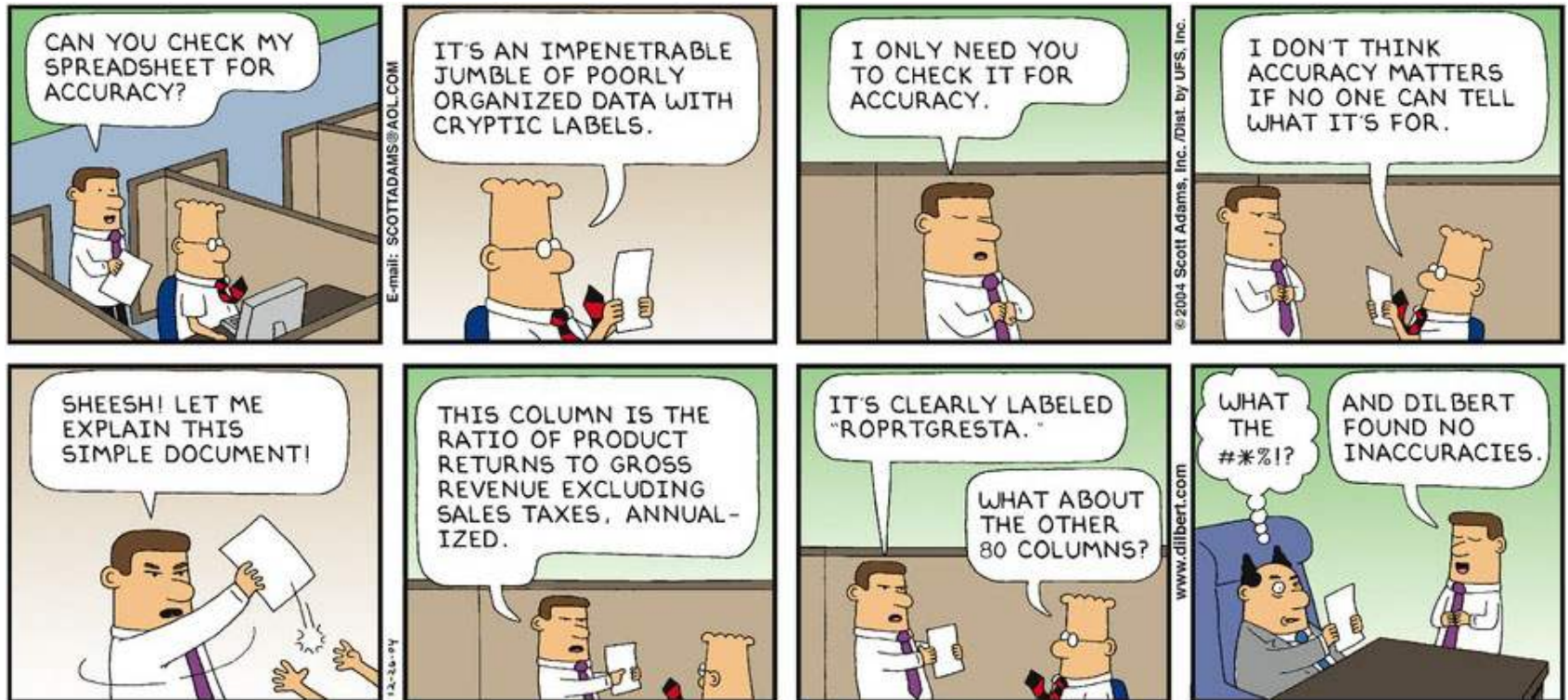
Moderator:

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HealthManagement.com

Is This Familiar?



Learning Objectives

Understand how to:

1. Improve organizational performance by effectively leveraging data for monitoring and reporting
2. Improve the efficiency of responding to both internal and external reporting requirements
3. Enhance analytical capabilities at minimal cost
 - No large investments in additional IT capabilities
 - No large investment in analytic personnel

The Challenge: All Organizations Are Facing Increasing Data Inundation

- 5 billion gigabytes (exabytes) of data were created from the beginning of time until 2003
- In 2011 the same amount was created every two days
- And now the same amount is created every 10 minutes

Source: <http://fortune.com/2012/09/10/what-data-says-about-us/>

The Challenge: Data Issues Facing Healthcare Organizations

- Healthcare organizations need data for internal reporting
 - In a Modern Healthcare survey, just over half of health care organization respondents (51%) cited “not knowing how much or what data to collect” as the biggest hindrance to using data analytics. (1)
- Healthcare organizations have data reporting requirements imposed by outside organizations.
 - State agencies
 - Federal agencies
 - Accreditation agencies
- In a Modern Healthcare survey 33% of healthcare organizations said they didn't know what to do with the data they collected. (1)

Source: http://www.modernhealthcare.com/article/20151124/NEWS/151129950?utm_source=modernhealthcare&utm_medium=email&utm_content=20151124-NEWS-151129950&utm_campaign=hits

Big Data and Predictive Analytics in Healthcare

- Big data and predictive analytics will be a big part of future healthcare
- For most healthcare providers, however, the challenge of big data is not the real problem
- The limiting factor is our willingness and ability let data inform and change the way we deliver care

Learning Objectives 1 & 2 (1)

- Interactive Dashboards
 - Improving healthcare organizations performance with information solutions. Allows organizations to:
 - Transform large (or small) amounts of data into actionable information. Data from:
 - Multiple data sources
 - Electronic Medical Records (EMR s)
 - Enterprise Data Warehouse (EDW)
 - Provide a “single source of truth” for questions using “approved” source data
 - Provide access to a consistent source of information that can be updated regularly

Learning Objectives 1 & 2 (2)

- Create dynamic information displays that allow staff to modify questions and data quickly and easily
- Improve data quality
- Track measures/issues of interest and answer questions from key stakeholders
- Identify and mitigate potential issues or problems
- Identify and publicize positive progress

Interactive Healthcare Dashboards

- Some examples include:
 - Key Performance Indicators (KPIs)
 - Utilization and Expenditure Tracking
 - Performance Measures
 - Mapping Outcomes
 - Forecasting

KPIs: An Antiquated Approach

Northern Region Dental Clinic Activity Report - Quarterly - 2014 - HMA file - [Compatibility Model] - Excel

Q1 #	Q2 #	Q3 #	Q4 #	YEAR #
262	70	0	0	332
262	70	0	0	332
15	3	0	0	18
396	55	0	0	451
169	46	0	0	215
102	29	0	0	131
34	7	0	0	41
15	6	0	0	21
3	0	0	0	3
5	0	0	0	5
8	10	0	0	18
26	17	0	0	43
0	0	0	0	0
3	0	0	0	3
140	42	0	0	182
1	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
5	1	0	0	6
5	8	0	0	13
49	12	0	0	61

291									
292									
293									
294	Percentage of Operative Hygiene Performed:	92.4	95.7	####	####	93.7			
295									Range (65%-80%)
296	Time Utilization Factor:	89.8	101.5	####	####	94.1			
297									Range (60-115)
298	Average Time Utilization Units per Clinic day:	119	134	####	####	124			
299									Range (90-150)
300									

Region:	N	298	299	300
DDS Clinic Days:	47.0			
DDS Patients:	262			

Service	Procedures	Q1 #	Q2 #	Q3 #	Q4 #	Year #
Examination	1. Diagnosis / Interview / Examination	262	70	0	0	332
	2. Consultation (biopsy result, medical conditions, etc.)	262	70	0	0	332
	3. Off-Site Referrals (407 completed)	15	3	0	0	18
	4. Radiographs	396	55	0	0	451
Anesthetics	5. Local Anesthetic (per carpule)	169	46	0	0	215
	6. Topical Anesthetic	102	29	0	0	131
Oral Surgery	7. Extraction	34	7	0	0	41
	8. Complex Extraction	15	6	0	0	21
	9. Alveoloplasty	3	0	0	0	3
	10. Soft Tissue Surgery / Biopsy / I & D / CDX Biopsy	5	0	0	0	5
	11. Post-Operative Treatment or Evaluation	8	10	0	0	18
	12. Suture Placement or Removal (each suture)	26	17	0	0	43
Endodontics	13. Dental Dam	0	0	0	0	0
	14. Endodontic Treatment (Acc., Inst., Obt.) per visit	3	0	0	0	3
Restorative	15. Amalgam or Resin (per surface)	140	42	0	0	182
	16. Temporary Restoration with Caries Removal	1	0	0	0	1
	17. Plastic, Resin, or SS Crown	0	0	0	0	0
	18. Re-cement Crown or Bridge	0	0	0	0	0
	19. Equilibration or Adjustment	5	1	0	0	6
	20. Palliative Treatment (sedative rest., open to drain)	5	8	0	0	13
	21. Debridement or Prophylaxis (1-8 teeth - DDS)	49	12	0	0	61

Learning Objective 3

- Cloud based analytical capabilities can help your organization at minimal cost.
 - No purchase of expensive hardware or software. Access your data through a cloud based secure server.
 - Secure and HIPAA compliant
 - No new additional staffing requirements for analytic capabilities.

Questions for You and Your Organization

- Do I have the information I need and can I access it efficiently? If not, there is a better way - ask yourself:
 - What are the questions I need to answer with my data?
 - To whom do I need to provide this information and how will it be used?
 - What data sources are available?
 - How often does the information need to be updated?
 - Would a dashboard allow me to have the information I need and access it efficiently?

HMA Analytics Team

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