

MedEncentive®: An Independent Evaluation of a Cost Containment/Information Therapy Tool



Agenda

- Introductions
- Background
- Description of Evaluation Methods
- Findings
- Questions



Our independent analysis of the claims data aims to validate the findings of MedEncentive's Five Year Report...

(available online at www.medencentive.com)

NOTE: This current study was internally funded by the KU School of Medicine-Wichita Office of Research, with Kansas Bioscience Authority (KBA) support.

NOTE: Our other studies have been gratis with a business arrangement with MedEncentive, so that claims records could be merged with identified data.





Investigation Team

Research Team

- Amy Chesser, PhD; Health Communication
- Nikki Woods, PhD(C); Applied Behavioral Science
- Douglas Bradham, DrPH; Health Economist
- · Philip Twumasi-Ankrah, PhD; Biostatistician



City of Duncan Study Background

- Background
- Description of Site
- Description of Evaluation Methods
- Findings



Economic Case Study of City of Duncan

(in south-central Oklahoma)

MedEncentive's original and longest running demonstration 2004-2011



- 1. Duncan's population was 22,505 in 2000 census.
- The City of Duncan enrolled an average of 527 health plan members, in study period, 2004-2008.



Methods

- Study Population
 - Employees of City of Duncan (and dependents)
- Control Population
 - -N/A
- Data Sources
 - Claims data provided by: TPA
 - Self-reported survey data provided by: MedEncentive
- Data Analysis
 - Participation rate of employees and health plan claimants
 - Utilization of health services (frequency of visits and costs)



City of Duncan Employer's Return on Investment on the validated non-catastrophic and total claims

- MedEncentive's annual ROIs ranged from:
 - \$3.1 to \$14.5 saved for each \$1 invested (e.g., patient/ physician rewards and fees), when claims costs were compared against the Bureau of Labor Statistics MCPI inflation for claims.
 - \$5.9 to \$17.7 saved for each \$1 invested (e.g., patient/ physician rewards and fees), when claims costs were compared against the Kaiser/HRET inflation for family coverage premiums.



Summary of MedEncentive's Independent Cost Impact Analysis – City of Duncan

Outcomes:	Aggregate Level	Per-Person Level
Overall Healthcare Costs Reduced?	Yes!	Yes!
Average Employee Healthcare Costs Reduced?	na	Yes!
Return on Investment Positive?	Yes!	na
Info. Therapy & Incentives Reduce HC Costs/year?	na	Yes!
Info. Therapy & Incentives Reduce Adms/year?	na	Yes!
Info. Therapy & Incentives Reduce Visits/year?	na	Yes!

Note: These are preliminary results. We have further analyses to conduct. Future implementations need to collect objective clinical outcomes, too!



Wichita Clinic Study Background

- Wichita Business Coalition on Health Care
- MedEncentive Program Developers
- Wichita Clinic Intervention
- Funding
- Research Instruction Opportunity
- Findings



Wichita Clinic

An innovative, patient-centered & multi-specialty model 1947 to 2011 – "The 10 founders of Wichita Clinic were established physicians who changed their lives in midcareer to pioneer a new type of medical practice in Kansas. Their vision began in the early 1940s as these individuals talked in the halls of Wichita hospitals, discussing the prospect of combining their talents, experience and education into a multi-specialty group practice. All 10 physicians pledged that the welfare of the patient needed to come first."

(Now part of Via Christi Health Systems, an Ascension Health facility...)



NOTE: Wichita Clinic's Employee population would probably be a difficult environment for Ix to make a positive impact, given the number of employees who are clinically knowledgeable.



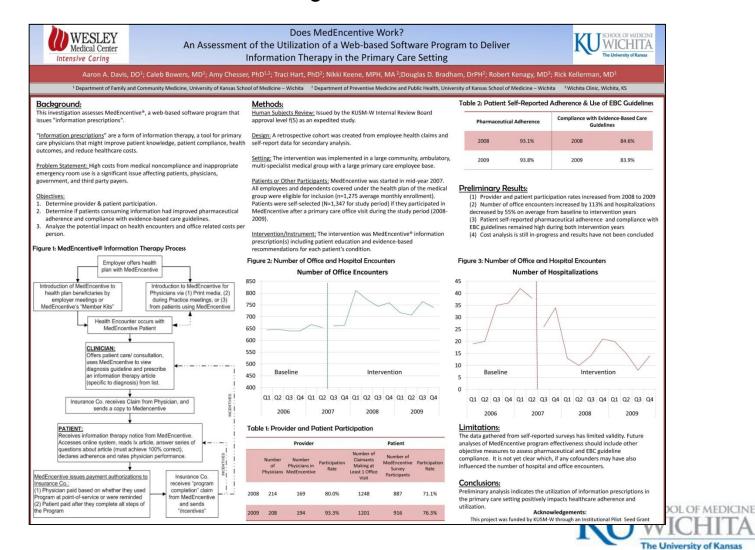
Methods

- Study Population
 - Employees of Wichita Clinic
- Control Population
 - Data prior to implementation of MedEncentive
- Data Sources
 - Baseline data: Claims data provided by: TPA
 - Intervention data: Claims data provided by: Wichita Clinic
 - Self-reported survey data provided by MedEncentive
- Data Analysis
 - Participation rate of physicians and health plan claimants
 - Utilization of health services (frequency of visits and costs)



University of Kansas School of Medicine "Does MedEncentive Work?"

Presented at North American Primary Care Research Group Seattle, Washington - November 2010



Summary of Research Poster

In the 2½ years after the Wichita Clinic implemented the MedEncentive Program:

- Office visits increased 13%
- Medication adherence reported at 94%
- Hospitalizations decreased 55%

Refer to University of Kansas School of Medicine research abstract and poster



Summary of MedEncentive's Independent Cost Impact Analysis – Wichita Clinic

Outcomes:	Aggregate Level	Per-Person Level
Overall Healthcare Costs Reduced*?	Yes!	Yes!
Average Employee Healthcare Costs Reduced*?	na	Yes!
Return on Investment Positive?	Yes!	na
Info. Therapy & Incentives Reduce HC Costs/year?	na	Yes!
Info. Therapy & Incentives Reduce Adms/year?	na	Yes!
Info. Therapy & Incentives Reduce LOS/year?	na	Yes!

Note: These are preliminary results. We have further analyses to conduct. Future implementations need to collect objective clinical outcomes, too!



^{*} Both per year and per quarter

Limitations

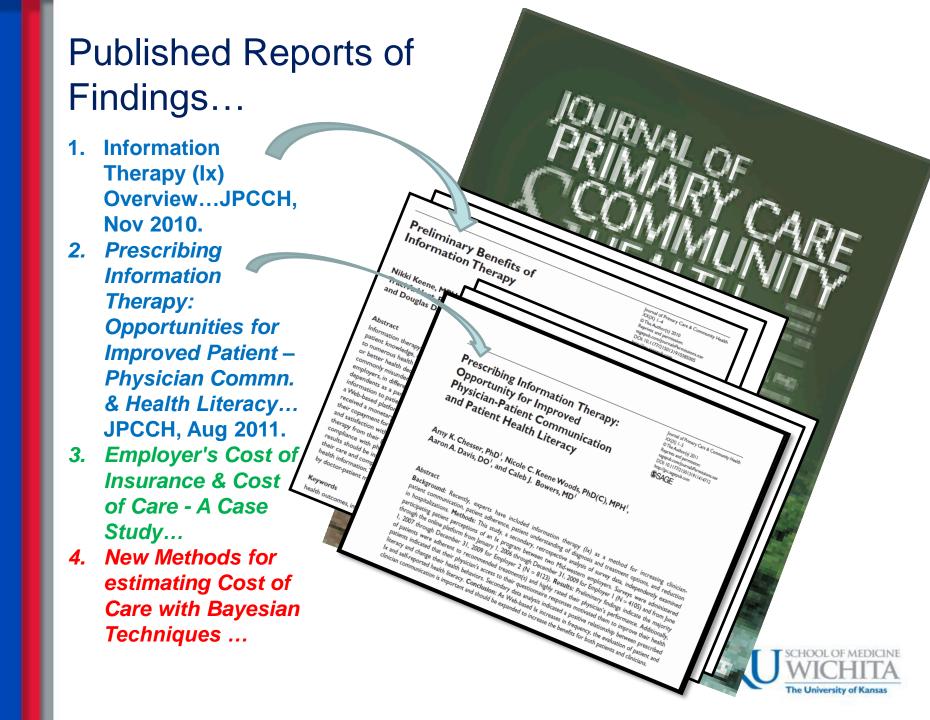
- Data sources
- Duration of the intervention period
- Integrated nature of Ix with incentives
- Data gathered from self-reported surveys has limited validity
- Lack of comparison population
- Lack of corroborating clinical data



Dissemination - Scientific Conferences

- Research Forum at the University of Kansas School of Medicine –
 Wichita (April 2010; resident oral presentations)
- Annual Health Literacy Research Conference (October 2010; faculty poster)
- North American Primary Care Research Group Conference (November 2010; resident poster)
- Research Forum at the University of Kansas School of Medicine –
 Wichita (April 2011; faculty oral presentations)
- Kansas Academy of Family Physicians (June 2011; resident poster)
- American Public Health Association Annual Conference (abstract submitted; research staff presentation)
- The Forum 10 and 11 of the Care Continuum Alliance (October 2010 and September 2011)





Questions?

