

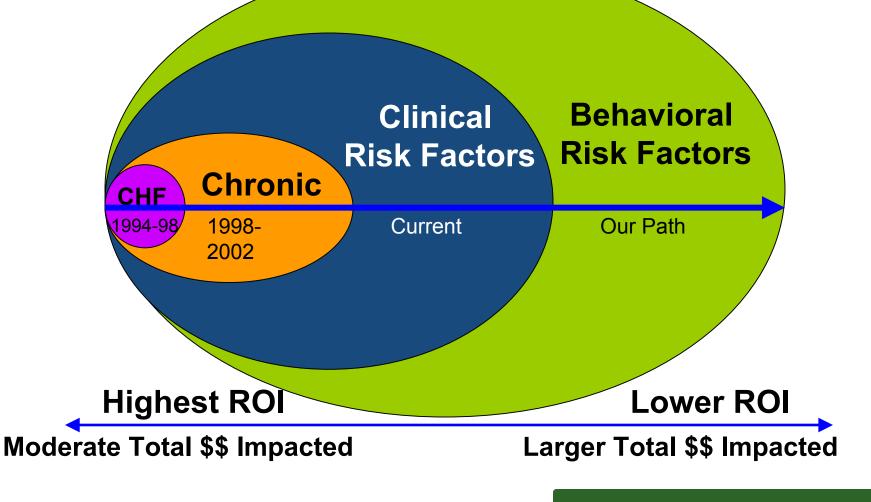
Evolving DM HIT Strategies

Health Care Information Technology 2004 Improving Chronic Disease Care In CA

November 18-18, 2004 Palace Hotel, San Francisco, CA



The evolution of DM to population health improvement



We're no longer dealing with the low hanging fruit

- People with chronic conditions only receive 56.1% of recommended care*
- Only 24% of people with diabetes received three or more HbA1c tests in a two year period
- Only 45% of people presenting with an MI received beta-blockers

*McGlynn, Asch et al, The Quality of Health Care Delivered to Adults in the US NEJM 2003; 348:2635-48

Condition	% <u>Not</u> Receiving Recommended Care
Diabetes	54.6%
Hyperlipidemia	51.4%
Asthma	46.5%
COPD	42%
CHF	36.1%
Hypertension	35.3%
CAD	32%

Disease Management Process

- Identification
- Stratification
- Engagement/Enrollment
- Program Delivery
- Outcomes Evaluation and Reporting

Disease Management IT Tools

Data collection and analysis

- Claims
- Administrative
- Self report
- Automated biometric
- Clinical
- RN interactions
- Predictive modeling and profiling
- Clinical indicator gap analysis
- Workflow prioritization
- Patient engagement
- MD engagement
- Integration/EDI

The days of low hanging fruit

Rudimentary Data Systems

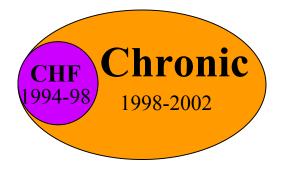
- Basic claims-based algorithms and MD referrals to ID and stratify
- Standardized content for education and coaching
- Faxes, telephones, pagers to communicate with pts. and MDs
- Static workflow engine to facilitate QA and RN efficiency
- Collection and analysis of pt. reported data for monitoring, alerting, and reporting



The introduction of multiple condition and true co-morbidity management

More Advanced Data Systems

- Refinement of ID algorithms to minimize false positives and negatives – still just claims based
- Regression models for stratification
- More <u>customized content</u> to deal with comorbidities
- <u>Internet</u>, faxes, telephones, pagers to communicate with pts. and MDs
- Dynamic workflow engine to prioritize based on condition severity
- Collection and analysis of pt. reported data, <u>connected biometric devices</u>, and some <u>chronic disease related claims</u> data for monitoring, alerting, reporting



Dealing with gaps between recommended and actual care

Intelligent Data Systems

- Aggregation and analysis of <u>multiple</u> <u>data feeds</u> for ID and initial stratification
 Predictive modeling to ID and profile (individual stratification)
 Individualized content to focus on each pt's. risk factors
 - Internet, faxes, telephones, pagers to provide <u>secure, remote access for pts.,</u> <u>MDs, case managers, and customers</u>
 - Data driven workflow engine to prioritize tasks based on <u>potential ROI</u>
 - <u>Real time EDI</u> to monitor, alert, track progress, update risk factors and profiles, identify new prospects

CHF

1994-98

The Holy Grail: Changing behavior to prevent disease

Interactive Data Systems

Clinical Behavioral Risk Factors Risk Factors 994-98 1998-2002 Current Our Future

All of the above plus more real time two way remote interaction between pts., disease managers, and MDs (e.g. interactive TV, implantable devices, PDAs, cell phones, other wireless technologies)

The Active Intervention Model: Enhancing ROI through targeted risk factor management

Make the most efficient use of resources
 to minimize intervention cost

 Increase the probability of sustained behavior change to optimize outcomes

Minimizing intervention cost

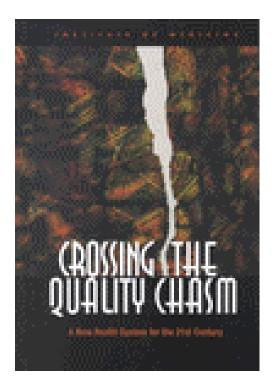
• Find and intervene with the right people

- Predictively model people most likely to benefit
- Prioritize participants by potential ROI rather than severity
- Ensure <u>ongoing surveillance</u> to identify people with gaps in care
- Focus on the right things
 - Prioritize activities by potential ROI
 - Ensure appropriate ongoing surveillance to detect <u>modifiable</u> <u>risk factors</u>
 - Modify intervention (up or down) as health status changes

Optimizing outcomes

- Short term Detect and avoid emerging exacerbations
 - Start with near term high risk prospects
 - <u>Actively monitor</u> symptoms, behaviors, gaps in care, and vital signs
 - Educate, support, and coach to modify unhealthy behaviors
 - <u>Alert MDs to clinical changes</u> in health status
 - Reinforce adherence to the treatment plan
- Long term Slow disease progression
 - Design an appropriate intervention for everyone in the target population
 - Focus on closing the gaps in the standard of care
 - Promote <u>clinical guideline adherence</u>
 - Promote sustained behavior change

IT can help us achieve these goals



Crossing the Quality Chasm: A New Health System for the 21st Century National Academy Press, July 2001

- 1. Redesign care processes based on best practices
- 2. Effectively use information technologies to improve access to clinical information and support clinical decision making
- 3. Manage the growing knowledge base and facilitate changes in required skills
- 4. Develop effective teams to interact with the patient
- 5. Coordinate care across patient conditions, services, and settings over time
- 6. Incorporate performance and outcome measurements for improvement and accountability

Profiling: The Active Intervention Model

Continuously collect and analyze all available relevant data about the people in the target population

Identify and score each individual in the population based on how their clinical, healthcare utilization, and psychosocial risk factors compare with the evidencebased standard of care (i.e., how large is the gap?)

DM clinical staff works with a profile of each program participant including a rank ordered "problem list" to help them focus on the issues most likely to have a near term positive impact on the participant's health

Alerts the participant's personal physician of actionable changes in their patient's condition

Constantly updates the individual program participant's score based on information we receive on progress they've made or new problems they encounter

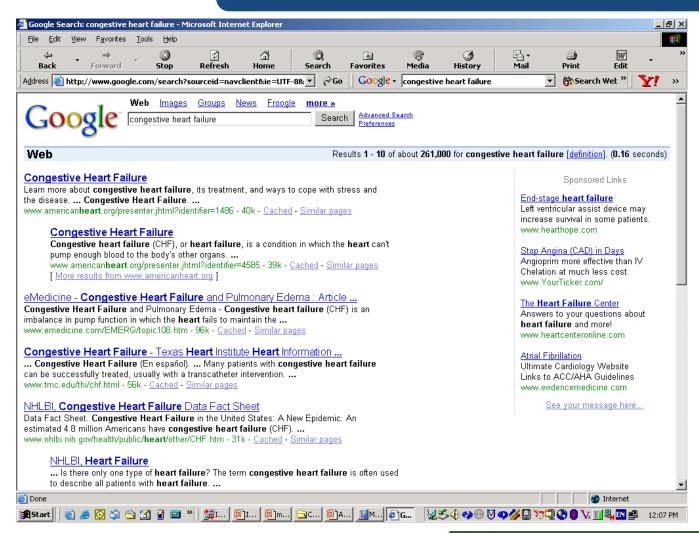
The IT to support AIM

- Categorizes, assigns value to, and prioritizes major cost drivers and best practices based on an extensive review of evidencebased best practices, clinical literature, and claims analysis
- Rank orders clinical indicators by their contribution to cost and quality
- Develops an individual profile and score for each program prospect based on the identified gaps in the standard of care
- Develops a prioritized action plan to help disease managers work with participants to close the gaps
- Creates alerts to send to the participants' MDs or disease managers based on identified urgent gaps
- Provides appropriate content for teaching, support, and coaching

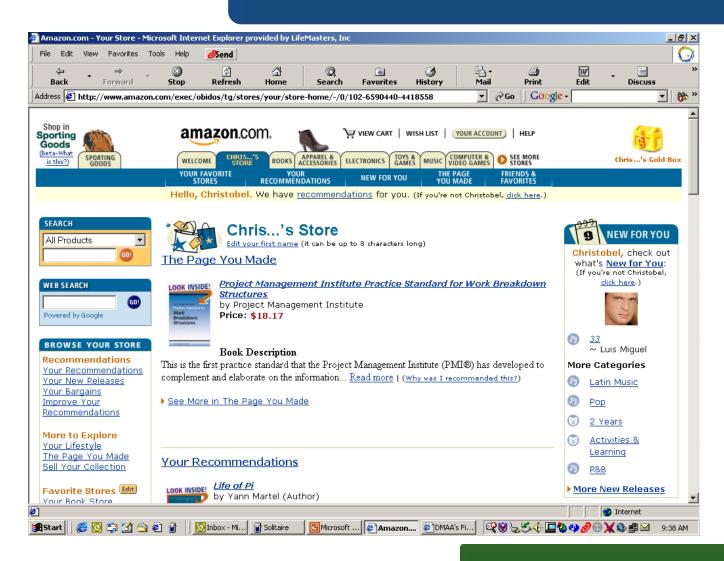
The IT to support AIM

- Prioritizes major cost drivers (gaps in care)
- Profiles and assigns score for each prospect
- Develops a prioritized action plan
- Creates alerts to send to the participants' MDs or disease managers based on identified urgent gaps
- Provides appropriate content for teaching, support, and coaching

A model like this: Organization and prioritization of vast amounts of data

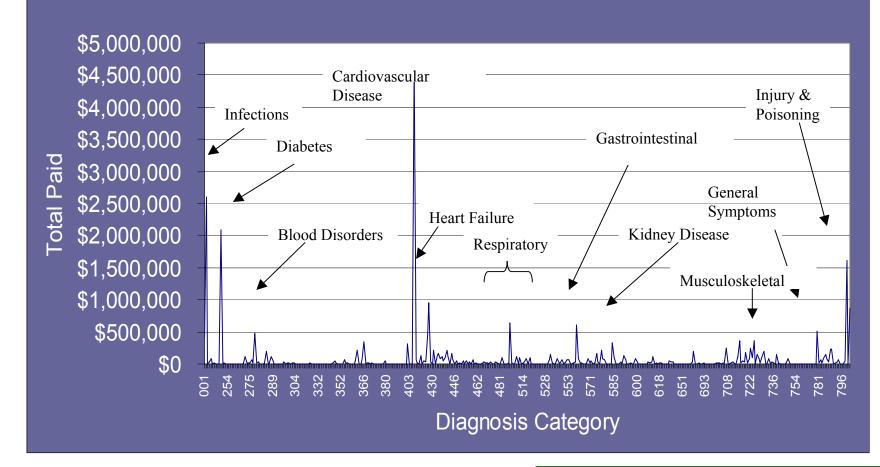


Added to one like this: A continuously updated profile



Each disease (and individual) has a profile of what drives cost

Diabetes Claims SpectrographTM



There are dozens of clinical indicators that need to be monitired

Indicators	DM	CHF	COPD	CAD	ASTHMA
Hospitalization	Х	X	X	Х	X
ED visits	Х	X	X	Х	X
Office visits	Х	X	X	Х	X
HTN/Blood Pressure	Х	X	X	Х	
Flu	Х	X	X	Х	X
Pneumovac	Х	X	X	Х	>64 yrs
Smoking	Х	Х	Х	Х	X
LDLc	Х	Х		Х	
Triglycerides	Х	Х		Х	
ACE1 or ARB		Х		Х	
Antiplatelet Medication	X			X	
Urine McAlb	Х				
Alc	Х				
Annual Dilated Eye Exam	Х				
Annual Monofilament Foot Exam	Х				
Beta Blocker		Х		Х	
Ejection Fraction		X			
Spirometry Test			X		X
Short acting Inhaled Beta-Antagonist					X
Inhaled Anti-inflammatory controller					X
medication					
Written Asthma Action Plan					X
COPD Action Plan			X		
Reporting Weight Changes		Х			

Indicators need to be prioritized and drive the intervention

	Outlier Value		Target Value
More Critical Indicator		Inter	
Î		Intervention Intervention Intervention	n _{site}
Less Critical Indicator			

This guides the disease manager's work in closing the gaps in evidence-based care

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Minimize the time spent collecting data and allow for an exclusive focus on things that will have an impact on ROI

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And provide the opportunity for very specific praise and feedback to promote behavior change

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Clinical Indicator Urgency Date Value	Goal		Next Due Date
Ejection Fraction 12345 11/15/2001 Yes	Yes		11/15/2003
Pneumonia Vaccine 12345 11/15/2001 Yes	Yes		
No Office Visits 12/3/4/5 09/15/2003 1 visit	1 visit		
Smoker 12345 09/01/2003 No	No		

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The workflow engine can then push targeted actions and content to the disease manager

🖉 Current Session - Microsoft Internet Expl	lorer
Current Scripts	Name: Janette Doe
	00:00:57 Quarterly Participant Health Plan X
Update	🗖 Update 🚔
opaaro	
	Please ask the following questions at every call (or weekly)
	Nursing Point: Document review of symptoms at vital signs grid Go To CNC Symptom Screening
Out of Range : 14 🛛 😨 🔺	Go To HE Symptom Screening
STWeight Reporting 1 distinct day/month	Go To HE Update Instructional
OReporting Weight Changes	Have you been hospitalized or seen in the emergency
OScale Use	department since our last telephone appointment? ⊖ Yes
Defer This Indicator	O Yes
Hospitalizations 1 admit in past 120 Days	Please update the Computerized Participant Record.
Image: A start of the start	? Are you taking any new medications?
OCNC Asthma Classification	O Yes
OCNC Asthma Medications	O No
OAsthma-COPD Inhaled Steroids	Please update the Computerized Participant Record.
Defer This Indicator	? Are there any changes in the dose or times that you are taking
On ACEI/ARB No	your medications?
On Beta Blocker No	O Yes O No
Show All (9 more) >>	
Missing : 4 📀	If there are any medication dose increase, decrease, or schedule change-please update the Computerized
2 HbA1c	Participant Record.
2)LDL-c	? Have you seen your doctor since our last telephone
2 HDL-c	appointment?
2 Triglycerides —	ÚÝes 🚽
	Update /
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Engagement Indicators Scripts /	

The Power of Technology

Enable the creation of completely individualized care plans

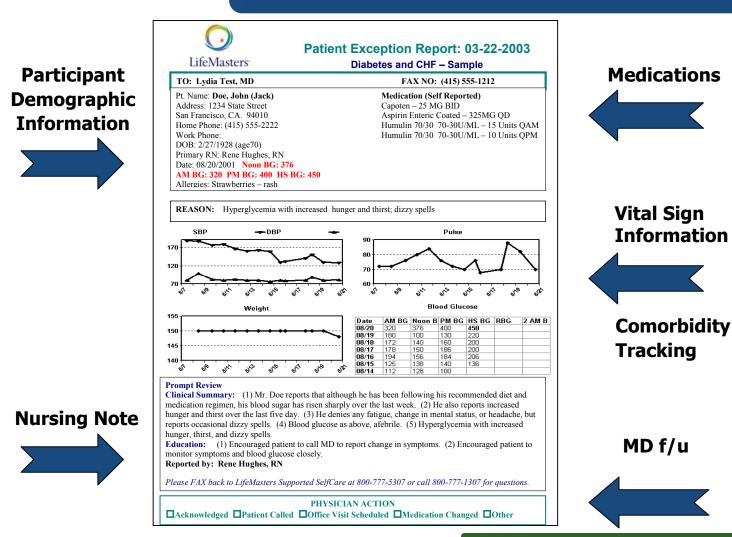
CHF Example:

- 30 clinical indicators
- Average of 4 levels
- Equals >1 trillion possible individual combinations

30 CHF Indicators	Value 1	Value 2	Value 3	Value 4

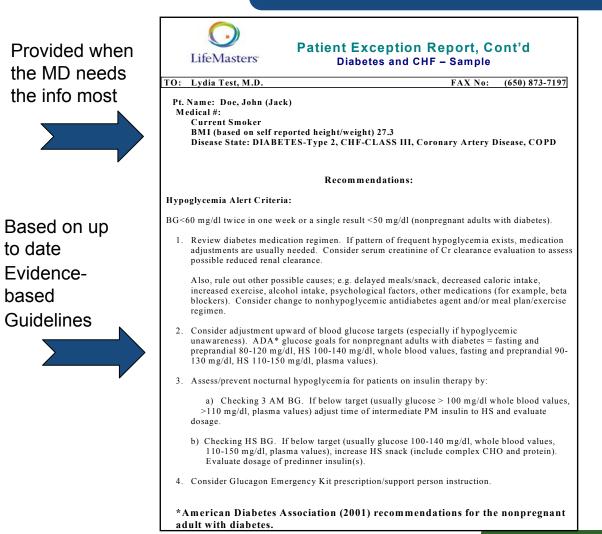
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To engage physicians, communicate actionable gaps or exacerbations to them in real time



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Communicate evidence-based best practice in real-time rather than in a binder



A variety of options can be provided leaving decision making to MD while reinforcing best practice Provide case managers and MDs with real time access to participant information

Preference	5						
nt Care	Physician/Customer	Reports					
d Patients tients t Lookup tient Tasks rsonal Tasks	DOB: 2/27/1928 Home: (777) 777-7777 Customer: Aetna-DM-Mid Altantic Health Report	Joh Gender: Male Physician: Joseph Intervention: Mod		try: 4/27/2000			
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Fast Facts Ionitoring Diseases Vital Signs Alert Limits	WhazzamacallitCO 88888 Phone Birthda 777 - 7777 2/27/	ite	20 Worcester Center Blvd Worcester MA 01604 Phone Fax 508 - 798 - 6299 508 -	I 🚺 🚺 LiteMa	sters Decision S		
Health Report Exceptions Medical Data Medical Conditions Family History Medications Allergies Smoking Medical Visits Screening Tests Immunizations Notes Tasks	Allergies and Sensitiviti substance Reaction SHELLFISH rash CODEINE rash IDDINE sob ASPIRIN vomitit ASA vomitit ASPIRIN vomitit ASPIRIN vomitit	ng ng ng ng1	Medications: Medication Name Medicat Albuterol 90MCi Alpupent 10MG Aspirin Enteric Coated 325WC Aspirin Enteric Coated 325WC Aspirin Enteric Coated 325WC Aspirin Enteric Coated 325WC Acrivastatin Caldum 40MG Brimms Denture Bath Cup Bromadine-Dm Cardura 2MG Cournadin 5MG Golucovance 1,25/2 Humalog 100U/ Humalog 100U/ Humalog 100U/ Humalog 100U/ Humalog 100U/	Alerted Patients My Patient Lookup My Patient Lookup My Patient Tasks John Doe Personal Data Personal Data Personal Bata Emergency Contac Fast Facts Monitoring Diseases Vital Science	Altantic Vital Signs Vital Signs View in Table Form) Glucose Tracking 4 3, 2002 1:13 PM 300 200 200 200 200 200 200 200 200 200	John Doe Gender: Hale Physician: Joseph Cohen lid Intervention: Moderate s Graphs	Diseases: DIABETES Database Entry: 4/27/2000 Status: Mediated

Provide participants with easy access to disease managers and selfcare content

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	Blood Pressure: 1 Heart Rate: 7	Last Entered:5/4/2001 00 21/75 5 10t entered 5/4/2001				
17-18 1 30	Wellness News					
	We found the following	g articles for you:				
Welcome back, John. Please take a moment to let us know how you're doing. If you need help getting started, then try our <u>Site Guide</u> . The picture above is of your personal nurse, Linda. You can <u>read more</u> <u>about Linda</u> , or even <u>send email to a</u> nurse.	What is the Monofilament Test? Using a simple tool called a monofilament, you can check your own feet to determine the level of sensation in them. [more] Exercise After a Heart Attack Recent research has shown that the right amount of exercise after a heart attack can help to strengthen the heart, and is associated with improved survival when combined with other lifestyle changes, such as, diet and stress management. [more] Achool It's Allergy Season May is National Asthma and Allergy Awareness Month. To help you get through it we a brief article					
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 Personal Medical Record Health Calendar Menu Builder 		itrol, and treatment of nasal				

Clinical indicator & risk factor focus enables the vision of the Institutes of Medicine...

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Asthma Action Plan				344						
Asthma Exacerbations										
ICOPD Action Plan				199						
Dilated Eye Exam		1,178	5,728							
Ejection Fraction		55	209							
Emergency Department Visits		8,967	169	82	77	59				
IFlu Vaccine		1,741	7,560	74						
IHbA1c	2,340	2,380	1,045	649	261	231				
IHDL-c	4,178	4,103	1,093							
IHospitalizations		9,009	151	59	78	62				
Hypertension	6,929	142	95	65	17	2				
Hypotension	1,478	286								
LDL-c	4,416	2,643	1,528	592	195					
Microalbumin Urine Test		1,480	5,426							
Monofilament Foot Exam		1,305	5,601							
INo Office Visits		1,292	8,062							
Number of Office Visits										
On ACEI/ARB		188		97						
IOn Antiinflamatory		111			251					
IOn Antiplatlet		730		2,220						
IOn Beta Blocker		118		166						
Pneumonia Vaccine		1,333	8,042							
ISecondhand Smoke Exposure										
IShort Acting Beta2agonist (Overuse)										
Short Acting Beta2agonist (Underuse)			345							
ISmoker	6,611	2,363	448							
ISpirometry Test		26	461							
ITriglycerides	9,113	138	52	60	11					
Weight Reporting		1		2	11	125				
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