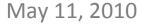
Implementing Electronic Behavioral/Mental Health Records (EbmHR)

Background | Benefits | Barriers







NIATx
Oakwood Clinical Associates





"Electronic health records reduced my job from 40 hours down to 8 hours."

Nancy Lowndes
Coding & Billing, Oakwood Clinical Associates
January 2010







Agenda

- Background
- Why adopt?
- Implementation barriers & recommendations
 - Financials
 - Workflows
 - Users
- Conclusion
 - Are you ready?
 - Key success factors





Your Presenters

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About NIATx

"To improve treatment access & retention by teaching simple process improvement methods to behavioral & mental health providers."





Dr. David Gustafson



About Oakwood

- Kenosha, WI (2 facilities)
- 20 employees (15 clinicians)
- Services
 - Substance Abuse (outpatient), Mental Health
 - Individual & Group Counseling
 - Psychiatry
- NextGen EMR/EPM
 - January 2009: Started Planning
 - March 2009: Purchased EHR/EPM
 - August 2009: EPM Go-Live
 - October 2009: EHR Go-Live

"To enhance the lives of our clients by delivering exemplary psychotherapy services with lasting solution"





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Background

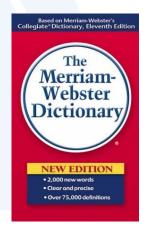


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The Problem...

Inconsistent Terminology





What are we talking about?

Electronic Health Records (EHR) (EbmHR)

- An electronic record of health-related information on an individual that (1) includes patient demographic and clinical health information, such as medical history and problem lists and (2) has the capacity to:
 - » provide clinical decision support
 - » support physician order entry (CPOE)
 - » capture & query information relevant to health care quality
 - » exchange electronic health information with and integrate such information from other sources

American Recovery & Reinvestment Act, 2009

What are we talking about?

Electronic Practice Management (EPM)

- An electronic system that supports the business and operational processes found within medical practice...
 - Business Intelligence, Billing, Scheduling, Accounts, Reporting, Auditing, Authorization, Claims
 & Revenue Management, Information management, Facilities Management, Human
 Resource Management, Referrals, Risk Management, Supply Chain Management, Workflow
 Management, Quality Management

National Health Alliance for Health Information Technology, 2009



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How many have EbmHR?



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Benefits



Why Adopt?...The Promise

- Better productivity & efficiencies¹ (coordination, ↑ access to data²)
 - 38% physician's time spent writing in charts³
 - 35% 39% total hospital costs patient & professional communication³
 - 17% 30% health care dollar "back office" coding & claims³
- Better billing accuracy & regulatory compliance (automated coding)
- Better patient safety & reduced errors (legibility⁴, decision⁵, CPOE⁵)
- Better health information security (encryption, access control³)
- Better competitive advantage⁶
- Better financials (↑ revenues, ↓ operating costs, ↑ profits)
 - 2.5 year payback period⁷
 - \$86,400 estimated net benefit per PCP over 5-years with savings from...8
 - Reduced drug expenditures
 - Improved captured charges
 - Decreased billing errors





Why Adopt?...The Expectation

- External incentives & forces (HIPAA, competitors)
- Internal customers (staff)
- External customers (client/patient)
- Federal mandate (ARRA)?





Why Adopt?...Parity





Behavioral Mental



Behavioral Health Human Services Information Systems Survey

June 2009
26-question on-line survey
440 respondents
www.satva.org







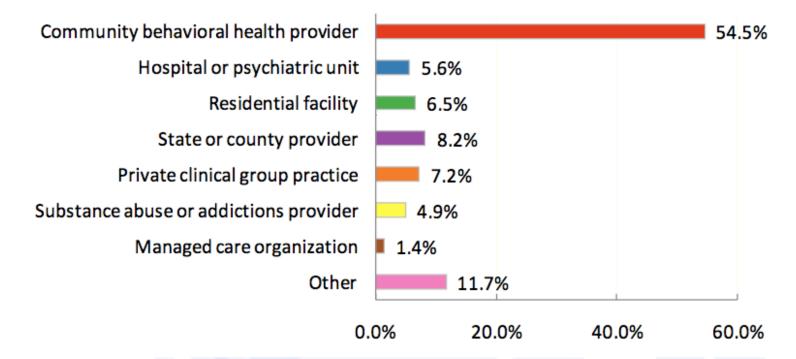




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Survey Demographics

Organization Type



Other MA/X

Perception of Value

Percentage of Respondents Endorsing Each Category for How Beneficial Electronic Medical Records Would Be to the Quality of Behavioral Healthcare, Overall and by Organization Type

	Not ben	eficial	Unsi	ıre	Bene	ficial	Very beneficial		
(N = 349)	%	N	%	N	%	N	%	N	
Overall	1.4%	(5)	4.3%	(15)	21.8%	(76)	72.5%	(253)	
Organization type									
Community behavioral									
health provider	0.5%	(1)	3.0%	(6)	16.5%	(33)	80.0%	(160)	
Hospital or psychiatric									
unit	0.0%	(0)	5.6%	(1)	33.3%	(6)	61.1%	(11)	
Residential facility	0.0%	(0)	4.0%	(1)	32.0%	(8)	64.0%	(16)	
State or county provider	0.0%	(0)	3.6%	(1)	21.4%	(6)	75.0%	(21)	
Private clinical group									
practice	11.5%	(3)	23.1%	(6)	34.6%	(9)	30.8%	(8)	
Substance abuse or									
addictions provider	0.0%	(0)	0.0%	(0)	15.4%	(2)	84.6%	(11)	
Managed care									
organization	0.0%	(0)	0.0%	(0)	40.0%	(2)	60.0%	(3)	
Other	2.9%	(1)	0.0%	(0)	29.4%	(10)	67.6%	(23)	

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Customer Satisfaction

Percentage of Respondents Endorsing Each Rating Category of Satisfaction with Current Behavioral Health IT Vendors, Overall and by Organization Type

									Very		
	Very satisfied		Satisfied		Unsu	re	Dissatis	fied	dissatisfied		
(N = 295)	%	N	%	N	%	N	%	N	%	N	
Overall Organization type	19.3%	(57)	44.4%	(131)	18.0%	(53)	13.6%	(40)	4.7%	(14)	
Community behavioral health provider	17.7%	(31)	45.1%	(79)	17.7%	(31)	13.7%	(24)	5.7%	(10)	
Hospital or		(0)		(2)				(=)			
psychiatric unit	0.0%	(0)	23.1%	(3)	46.2%	(6)	23.1%	(3)	7.7%	(1)	
Residential facility	20.0%	(4)	40.0%	(8)	15.0%	(3)	20.0%	(4)	5.0%	(1)	
State or county											
provider	13.6%	(3)	45.5%	(10)	27.3%	(6)	13.6%	(3)	0.0%	(0)	
Private clinical		(-)				(-)		(-)		()	
group practice	36.4%	(8)	54.5%	(12)	0.0%	(0)	4.5%	(1)	4.5%	(1)	
Substance abuse or addictions		(0)	0	()	0.070	(0)		(1)		(-)	
provider	23.1%	(3)	53.8%	(7)	15.4%	(2)	7.7%	(1)	0.0%	(0)	
Managed care		` '		` '		` '		` '		` '	
organization	40.0%	(2)	20.0%	(1)	20.0%	(1)	20.0%	(1)	0.0%	(0)	
Other	24.0%	(6)	44.0%	(11)	16.0%	(4)	12.0%	(3)	4.0%	(1)	

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Why NOT Adopt?

Percentage of Respondents Endorsing Each Barrier to the Implementation of Information Technology in Behavioral Healthcare, Overall and by Organization Type

							Barrier	s to im	plementa	ation						
	Insufficient reimburseme for financia Cost outlays		sement ncial			Technology becoming obsolete quickly		Lack of compatibility between systems		Fear of loss of		Fear of privacy of data being compromised		Other		
(N = 354)	%	N	%	N	%	\overline{N}	%	N	%	N	%	N	%	N	%	N
Overall Organization type	89.5%	(317)	50.8%	(180)	23.4%	(83)	22.6%	(80)	47.7%	(169)	8.2%	(29)	16.4%	(58)	19.8%	(70)
Community behavioral health provider	93.1%	(188)	55.9%	(113)	24.3%	(49)	23.8%	(48)	49.5%	(100)	6.4%	(13)	16.3%	(33)	20.3%	(41)
Hospital or psychiatric unit	94.4%	(17)	55.6%	(10)	16.7%	(3)	11.1%	(2)	55.6%	(10)	0.0%	(0)	0.0%	(0)	27.8%	(5)
Residential facility State or county	72.0%	(18)	56.0%	(14)	24.0%	(6)	32.0%	(8)	44.0%	(11)	12.0%	(3)	16.0%	(4)	16.0%	(4)
provider Private clinical group	86.2%	(25)	24.1%	(7)	34.5%	(10)	20.7%	(6)	48.3%	(14)	3.4%	(1)	10.3%	(3)	20.7%	(6)
practice Substance abuse or addictions	80.8%	(21)	50.0%	(13)	15.4%	(4)	23.1%	(6)	30.8%	(8)	26.9%	(7)	34.6%	(9)	15.4%	(4)
provider Managed care	85.7%	(12)	42.9%	(6)	7.1%	(1)	21.4%	(3)	14.3%	(2)	0.0%	(0)	14.3%	(2)	14.3%	(2)
organization Other	100.0% 88.6%	(5)	20.0% 45.7%	(1) (16)	20.0% 25.7%	(1)	0.0% 20.0%	(0) _(7)_	40.0% 62.9%	(2)	0.0% 14.3%	(0) (5)	40.0% 14.3%	(2) (5)	20.0% 20.0%	(1)

NIATx Behavioral & Mental Health Community Electronic Health Records Survey

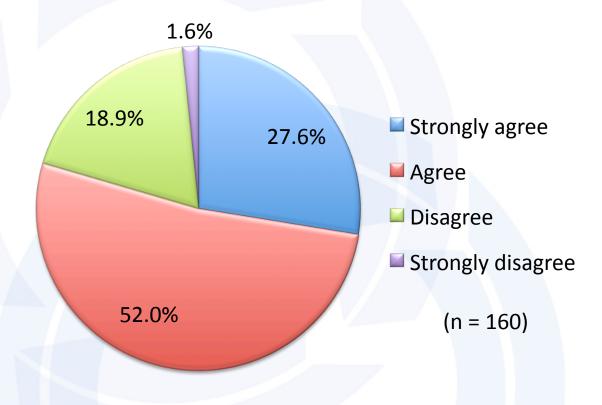
July 2009 18-question on-line survey 160 respondents



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Impact of Technology

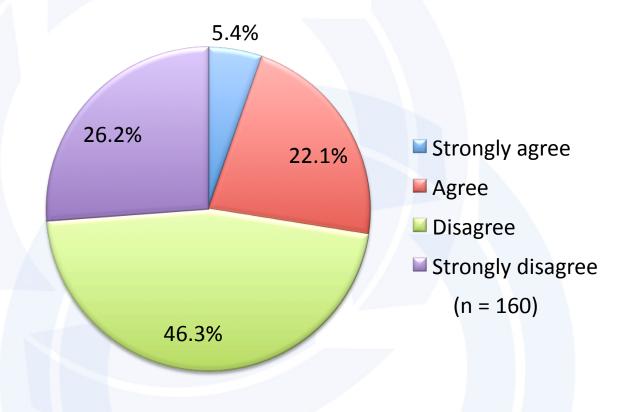
"Use of EbmHR to administer care improves treatment outcomes."



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Impact of Technology

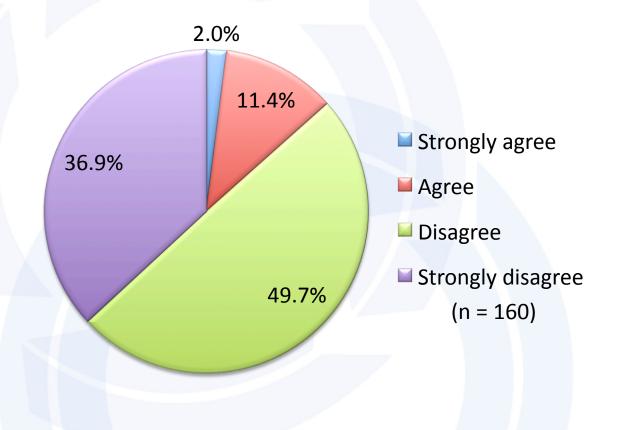
"EbmHR increased the time required to administer care."



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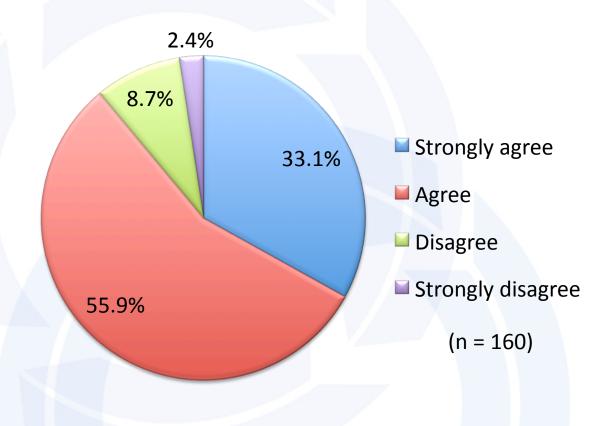
Impact of Technology

"EbmHR requires providers to negatively change their normal care tasks and routines."



Impact of Technology

"Use of EbmHR makes administering care easier."





Oakwood's Thoughts...

- Benefits of adoption
 - Better data generation, management, accessibility
 - Fewer workflow errors (standardization)
 - Improved efficiency (billing, communication)
- Challenges of adoption
 - User resistance & acceptance (employee exodus)
 - Tunnel vision (customization)
 - Implementation schedule





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Adopt or Not? Your thoughts...



Implementation: Overview & Barriers







Things to consider...

- Does EbmHR...
 - Deliver our vision?
 - Appease our investment criteria?
 - Align with workflows?
 - Meet user needs, behaviors, preferences?
 - Impact our clients (customers)?
 - *Require resources beyond our capacity?
 - *Satisfy federal, state, insurance regulations?



What is tomorrow?





Financial Analysis

- Investment criteria
 - Cost-Benefit Analysis (cash-in minus cash-out)
 - Payback Period
- Cash-In
 - Revenues (old & new business)
 - Savings (time, staff, taxes)
- Cash-Out
 - Initial costs averaged \$44,000 per physician FTE⁷
 - Annual costs averaged \$8,500 per provider per year⁷
 - Software (programs, integration)
 - Hardware (computers, servers, integration)
 - Facility (furniture, electrical, space)
 - Labor (planning, selecting, installing, training, maintaining)
 - Lost opportunity





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Workflow Analysis...What?

Ingredients...

Events (tasks, decisions, phases)
Resources (labor, documents, technology)
Relationships (transferring, sequencing)

Responsible Pefinition

Inputs/Outputs

Other Terms...

Process System



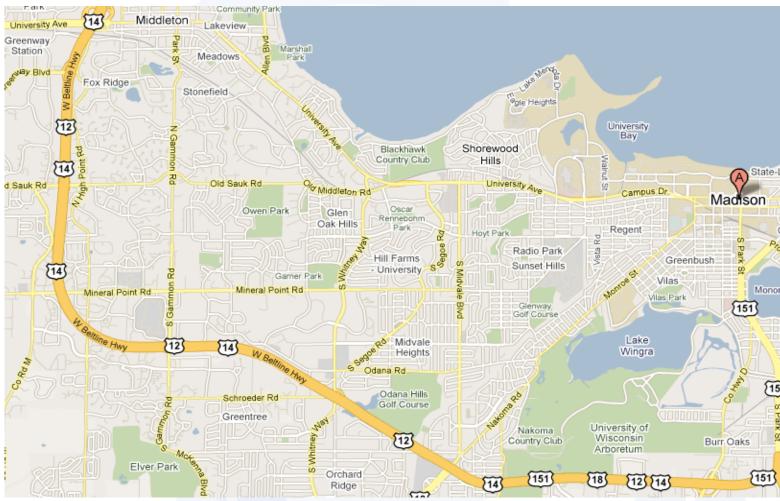
rson."

ONIATA"

What workflows are important?



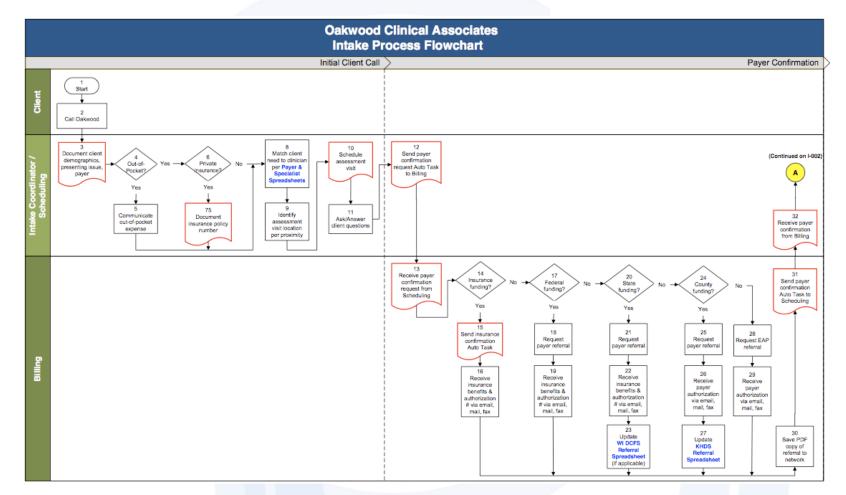
What is standardized workflow?



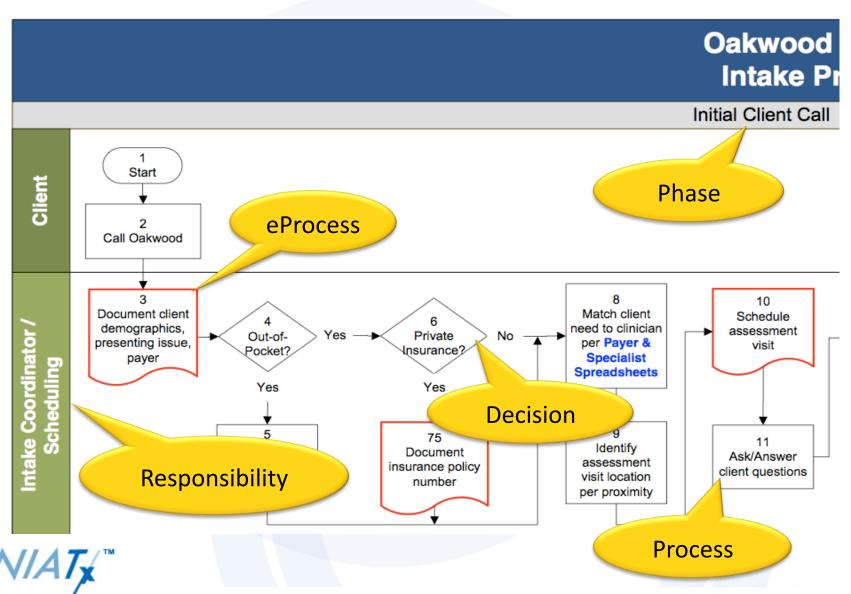


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How do you analyze workflow?



"Swim Lane Diagram"



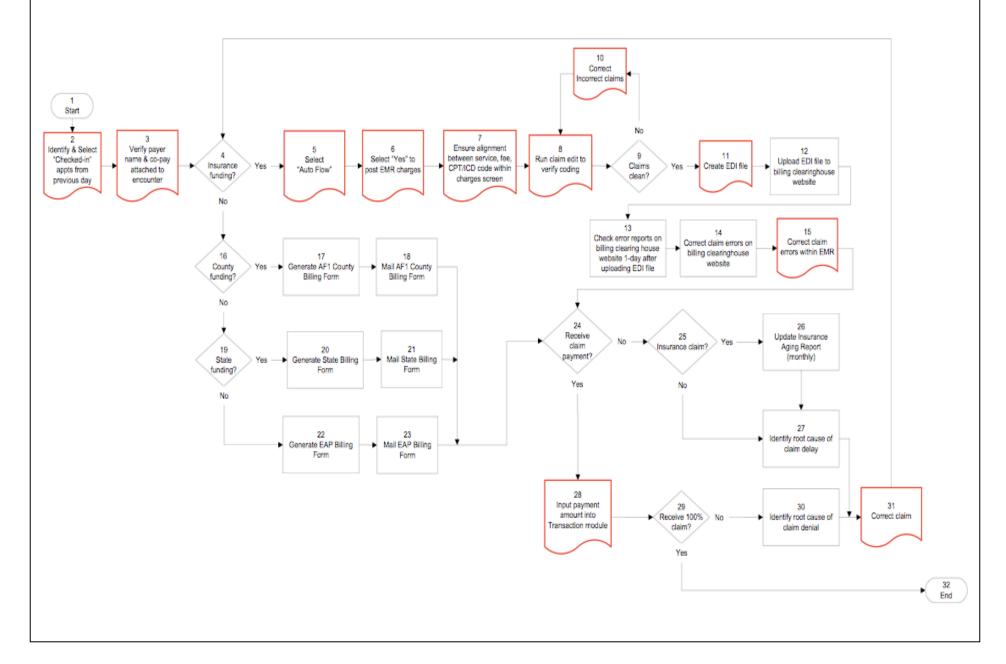
Oakwood's Thoughts...

- What workflows were standardized?
 - Communication
 - Billing
 - Intake
 - Charting
- Did you customize?
 - When necessary, where permitted (behavioral health)
 - Vendor customization cost?
 - Use it first!!!
- Did you adapt?
 - Some processes cannot be changed!!!





Oakwood's eBilling Process



Socio-technical & Cultural

- Users
- Needs
- Behaviors
- Preferences
- Capabilities

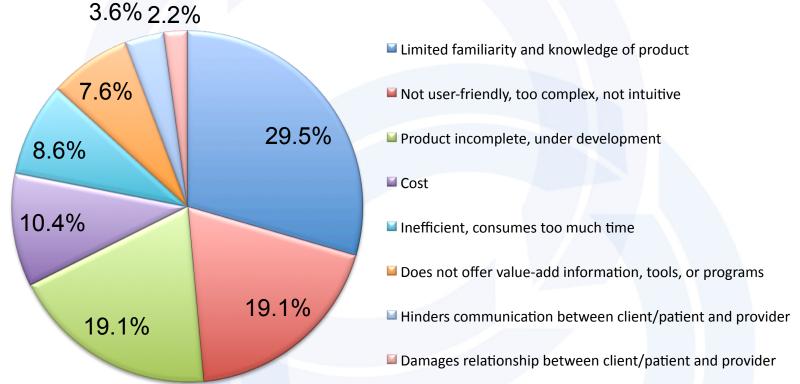




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Adoption Barriers

"Why do providers not use EbmHR to administer care?"



Staff Resistance

- Disinterest: "I don't care"
- Role clarification: "that's not my job!"
- Bad Design: "This doesn't even work"
- Limited participation/partial compliance
- Perception: "The decision to adopt is flawed"
- Distrust: "I do not trust you no matter what"
- Self-interest: "Forget what we gain, what do I lose?
- Misunderstanding: "The costs outweigh the gains"
- Drop in Productivity: "it doesn't work right now?! ...this was a bad idea"





Oakwood's Thoughts...

- Who are your users of EbmHR?
 - Administrators
 - Clinicians
 - Support staff
 - Clients (!!!)
- How did you identify socio-technical needs?
 - Vendor project manager
 - Core groups
 - General staff meetings
 - e-learning
- How did you appease these needs?
 - Vendor advice
 - Obtain staff buy-in





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Are we ready?



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Readiness for Implementation Scale

David H. Gustafson Patricia Flatley Brennan Robert P. Hawkins Editors

Investing in E-Health

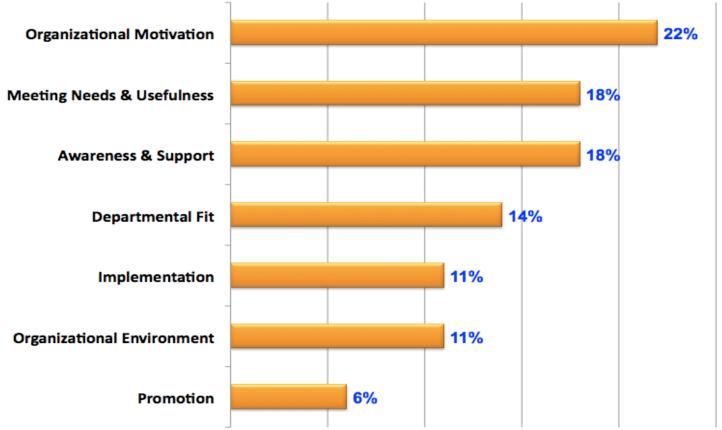
What it Takes to Sustain Consumer Health Informatics



HEALTH INFORMATICS SERIES

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Readiness for Implementation Scale



Key Success Factors

- Align technology with organizational goals
- Analyze workflows, benchmark performance
- Measure cultural support & resistance
- Market the benefits & challenges
- Dedicate sufficient resources
- Choose the "right" teams
- Select realistic time lines
- Lead change gain support from champions (administrators, clinical)
- "Be" the credible, informed expert
- Exude ENTHUSIASM!!!







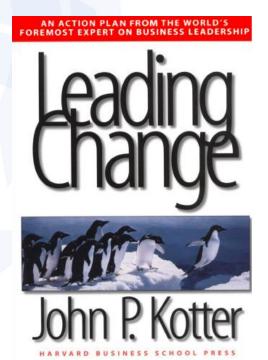


"Culture eats strategy for breakfast"

Peter Drucker

Why does transformation fail?

- 1. Allowed too much complacency
- 2. Avoided creating a sufficiently powerful guiding coalition
- 3. Under-estimated power of vision
- 4. Under-communicated vision by factor of 10, 100, or 1000
- 5. Neglected to anchor changes firmly in culture
- 6. Permitted obstacles to block new vision
- 7. Failed to create short-term wins
- 8. Declared victory too soon









LEADERSHIP

Thank You





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