

Disclosure	s	X		
Employee and s Cisco System	shareholder, s, San Jose, CA			
Cisro 1852 / 2011 Cisro and/or in ellipter All John research	Cisco Confidential	- Inter	net Business Solutions Group	

















Other Research

- > 50% pages received by first-year medical residents were considered non-urgent and frequently interrupted the care interns were delivering to a patient at the time (Katz M.H., Schroeder S.A., NEJM 1988. 319:4)
- Hospital clinicians made successful connection 74% of the time, and ¼ of the calls associated with determining who needed to be contacted for a specific situation (Coiera E., Tombs V., BMJ February 28, 1998)
- The value of high quality communication systems and processes measured in Buckles and Herrin 2007, and Kuruzovich et al. 2010.

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Negative C Bottleneck	outcomes of Com	munication
Process	Negative	e Outcomes
Care delivery	 Doctors/nurses see fewer patients, c Length of stay increases Delay in delivery of medicine and re Duplicate tests Patient satisfaction decreases 	difficulty in tracking patient
Discharge	 Can not find appropriate discharge p Length of stay increases Loss of information, resulting in pote 	olanning stakeholders
Specialty Consultation	 Time wasted locating specialist Suboptimal use of expertise 	
Billing/ Reimbursement	 Reimbursement timeframe extended Non-reimbursed care if standards and 	i e not met
Ad hoc teaming	Limited new knowledge generationReduced quality of care	
Overall	 Lost productivity Length of stay increases Loss of information and quality in he Negative effect on patient satisfaction Increased costs 	alth outcomes m
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Economic Bur	den of Po	or Communicatio	n
US Ho	spitals	Dollars Annually	
Wasted Physician	Communication	\$835 Million	
Wasted Nurse Cor	nmunication	\$4.95 Billion	
Wasted Length of	Stay	\$6.59 Billion	
TOTAL		\$12.38 Billion	
Typical 500-I	bed hospital waste	s \$4.59 million/year	
	wal R, Sands DZ, Diaz	J. J Healthcare Management 55:4 2	201













Attributes of Te	echnology	Channels
Technology	Synchronous?	Information Density
Telephone		**
E-messaging		*
Text messaging/IM		*
Remote monitoring	\square	*
Telemedicine	☑ (usually)	***
Advanced Telemedicine	\square	****
Office visit		****
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	Patient Self-care	Counselor/ Educator	Clinical Nurse	NP/PA	Physician
Telephone					
E-messaging					
Text messaging/IM		Optimiza	tion ba	sed on	1
Remote monitoring		•Clinical scenario •Patient preference			
Telemedicine			shility		
relementione			ability		
Advanced Telemedicine					

















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By Contagion Health	Blog Feedback

Medical Professional Social Networks					
NEWS REFERENCE EDUCA	TION	Dr. D Sands (Lo	g Out) 2 Open Invitations Connect My Acc	ount	
Medscape Connect		Search Medscape News	SEARCI	н	
Physician Discussions > Clinical > Intern	al Medicine	Start a New Discussion »	Profile		
Younger vs. Older Docs: Keeping up with the Literature "I have had some run-ins with older physicians who may not have always kept up with the literature and are	vs. Older Docs: Keeping up with the a some run-ins with older physicians who we always keep up with the literature and are a more than		Search Discussions SEARC	eH	
doing some things that I question" (read more)	an invoice" (read more)		You are not currently watching any discussions View Watch List		
Discussion		Started♥ Last Comment		_	
If it ain't broke, don't fix it Started by: sbrown Rating:		10:22AM 10:22AM			

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Apr 02

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Apr 01

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TOP RATED CLINICAL DISCUSSIONS

 Epstein Barr Virus-Induced Hemophagocytic Lymphohistiocytosis (HLH)

Influenza season winding down - some remarkable cases Started by: lukec00 Rating:

Alabama Outbreak of Bloodstream Infections due to Serratia ma... Started by: lukec00 Rating: Concord

NYT: More Pysicians Say No to Endless Work Days Started by: frandoc Rating: Comments 12 (12 New)

Angioedema and ACEIs Started by: frandoc Rating: **** Comments 21 (21 New)

Replacement of Storytelling for HTN Tx. Started by: krikher Rating: Comments 2 (2 New)

Lancet: Conservative treatment for sepsis superior to aggress... Started by: MikeGinnyMD Rating: Comments 14 (14 New

Patient Network Plus: patientslikeme nex (inter on beta 1-a) 1 1847 1 BAT 1 241 ł, HI 12 -10.0 SHARE LEARN FIND Patients' find other patients like The shared information creates Patients' sharing detailed them. They discover what a new knowledge about the health data is what makes real world treatment, options are available for our communities special. symptoms, and reality of living with illness. Patients learn about treatment and if their experience This information is the basis with their disease is normal. They of the PatientsLikeMe can reach out to others like them their disease and themselves in network and validates each for advice and insight. context of the community individual Internet Business Solutions Group Cisco IBSG © 2011 Cisco and/or its affiliates. All rights







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