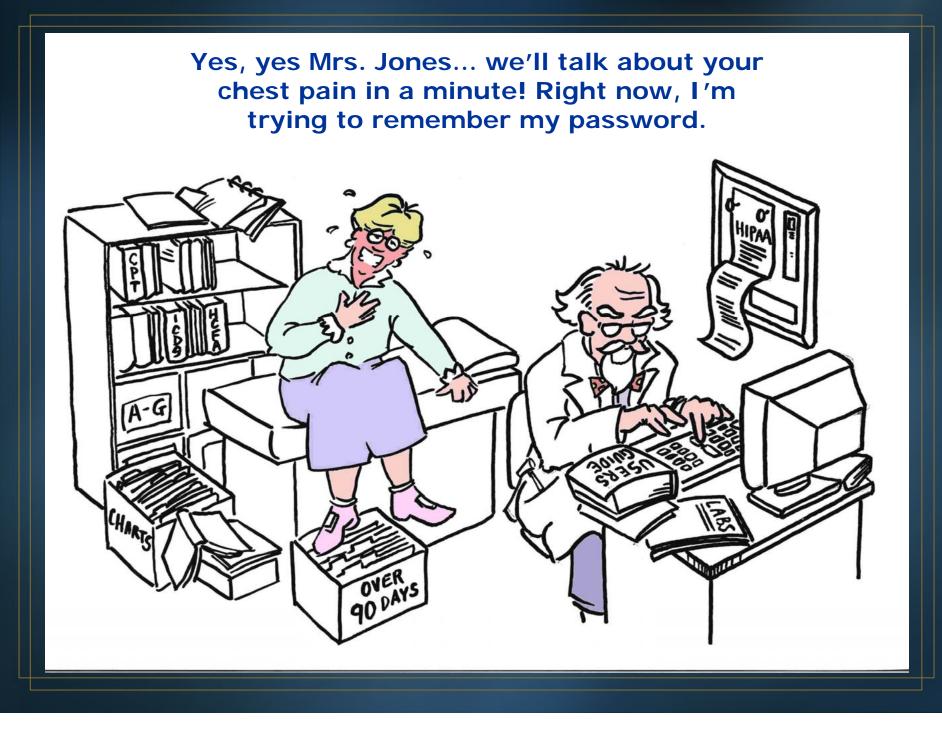
Toward Quality Care

Dr. Jim Morrow North Fulton Family Medicine, P.C. Cumming, Georgia

Metcalf's Law "The value of a network increases as the square of the number of users on it."

Robert Metcalfe Inventor of the Ethernet



North Fulton Family Medicine

2006 1998 Offices 2 Δ 4 Physicians 11 Mid-Level (PA-C) 11 **Registered Nurses** 2 Administrator **Business Manager Office Managers** Daily Encounters 100400 +

North Fulton Family Medicine 1998 2001-'06 4.7 FTE'S 2.8 per provider

Why Did We Succeed?

- A strong physician desire to initiate change
- A need to bring costs under control
- A good implementation team
- An implementation specialist who cared about our needs
- A company who puts service above everything else

Why did we really succeed?

Return On Investment

Based on 100 patients per day

- Chart handling: 100 charts managed/day; 625 mins @\$11/hr = \$29,791/yr
- New chart formation: 19.6/day @ 10 mins per chart; 196 mins @ \$11/hr = \$9,342/yr

- Chart searches: 330 mins/day @ \$11/hr = \$16,456/yr
- Transcription: transcribing, filing, managing: ~ 20 lines per note @ \$0.10/line = \$110,000/yr

- Lab Results: Logging, delivering, attaching results @ 45 draws/day= 315 min @ \$12/hr = \$16,380/yr
- Referral Letters: Dictation and transcription = \$32,640/yr
- Chart Supplies: encounter forms, progress notes, lab sheets, history forms, problem lists = \$24,480/yr

- Represents a savings of 44 hours per day or 11,440 billable staff hours per year
- Total saved (year) = \$239,089 (at 100 patients per day)
- At 400+ patients per day the savings = REAL MONEY

The Bottom Line Cost Per Patient Visit Paper EHR \$112.47 \$79.32 Savings \$33.15/visit

Access Access Access

- Allows patients to
 - Message us securely, quickly
 - View lab results
 - View medication lists
 - View problem lists
 - Request refills, referrals, appointments
 - Manage their care better

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North Fulton Family Medicine	North	Fulton Family Medicine,	, P.C.	
hursday, April 14, 2005 Welcome, Jmorrow				
My Health Portfolio	Select range: 6 Year(s)	•		
<u>Messages</u>				
Appointment	Profile/Panel/Test	Value	Units	Range
Medication Refills	PSA, TOTAL	Collect: 1/31/2005 10:48:00 AM	1	
Lab Results	PSA, TOTAL	1.1	NG/ML	< OR = 4.0
<u>Vital Signs</u>	TRIGLYCERIDES	Collect: 2/13/2004 9:07:00 AM		
Personal Information	TRIGLYCERIDES	135	MG/DL	<150
<u>Insurance</u>	CHOLESTEROL, TOTAL	Collect: 2/13/2004 9:07:00 AM		
<u>Office Visits</u>	CHOLESTEROL, TOTAL	174	MG/DL	<200
Change Password	HDL CHOLESTEROL	Collect: 2/13/2004 9:07:00 AM		
<u>Logout</u>	HDL CHOLESTEROL	39	MG/DL	> OR = 40
	LDL-CHOLESTEROL	Collect: 2/13/2004 9:07:00 AM		
Links	LDL-CHOLESTEROL	108	MG/DL (CALC)	<130
ack To NFFM website	CHOL/HDLC RATIO	Collect: 2/13/2004 9:07:00 AM		
	CHOL/HDLC RATIO	4.5	(CALC)	<5.0
	COMPREHENSIVE METABOLICPANEL	Collect: 2/13/2004 9:07:00 AM		
	GLUCOSE	83	MG/DL	65-109
	UREA NITROGEN (BUN)	19	MG/DL	7-25
	CREATININE	1.3	MG/DL	0.5-1.4
	BUN/CREATININE RATIO	15	(CALC)	6-25
	SODIUM	140	MMOL/L	135-146
	POTASSIUM	5.0	MMOL/L	3.5-5.3

Limiting Access/Securing PHI

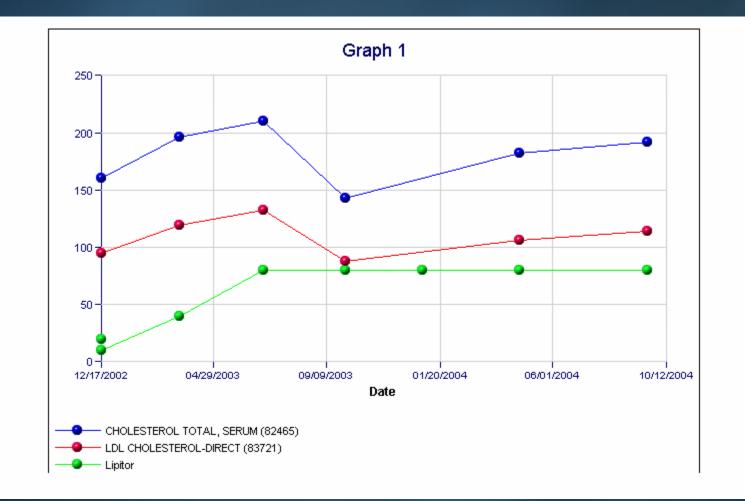
- Data is secured
 - Three levels of passwords necessary to access the data
 - Passwords change regularly
 - Never a pre-determined password
 - Firewall/Antivirus/Backup

What Does All This HIT Do For Us and Our Patients?

Outcomes Are The Real Rewards

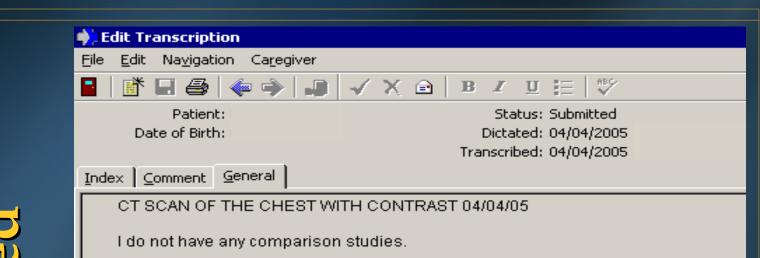
- We can now affect and track quality of care at an outcomes level
 - Track HgbA1c's, LFT's, PT's, PSA's, cholesterol, blood pressure levels
 - Monitor compliance rates of routine screenings (colonoscopy, mammography, bone density, exercise stress testing, etc)

Visual Reinforcement



External Connectivity

- Now we receive reports
 - securely
 - electronically
 - legibly, and
 - much more quickly from area hospitals.



CLINICAL HISTORY- Chest swelling and mass.

TECHNIQUE- Transaxial images are obtained through chest. The patient received 95 cc of intravenous nonionic contrast material without complications. The risks, benefits and alternative of the contrast media were discussed with the patient after which informed consent was signed. The patient was given an opportunity to ask questions.

FINDINGS- Imaging of the mediastinum fails to show any evidence of significant adenopathy. Heart, pericardium, great vessels and esophagus all appear normal. Both hila appear normal.

Imaging of the lung parenchyma show at least three nonspecific small nodules on the right. The first is in the right upper lobe peripherally and measures 5.2 mm. The second is in the right lower lobe superior segment peripherally 6.0 mm and the third is in the right middle lobe anteriorly abutting the pleura measuring 5.9 mm. All of these appear to be noncalcified. Malignancy cannot be excluded. Close interval followup or PET scan may be helpful. There is no evidence of pleural effusion. There is some mild atelectasis in both lower lobes posteriorly.

Connected

Tracking Tests and Procedures

- Ability to monitor practice compliance
 - Search for labs not yet resulted or reviewed
 - Search for procedures not yet resulted or reviewed

What Can Doctors Do to Assist in this Paradigm Shift?

And Why Should They?

Physician Perspectives: Recent Data

Physician Attitudes

- 84% agree that computers improve quality
- 78% think computers have beneficial effect on interactions within the health care team

Physician Perspectives: Recent Data

Attitudes vs. Intentions

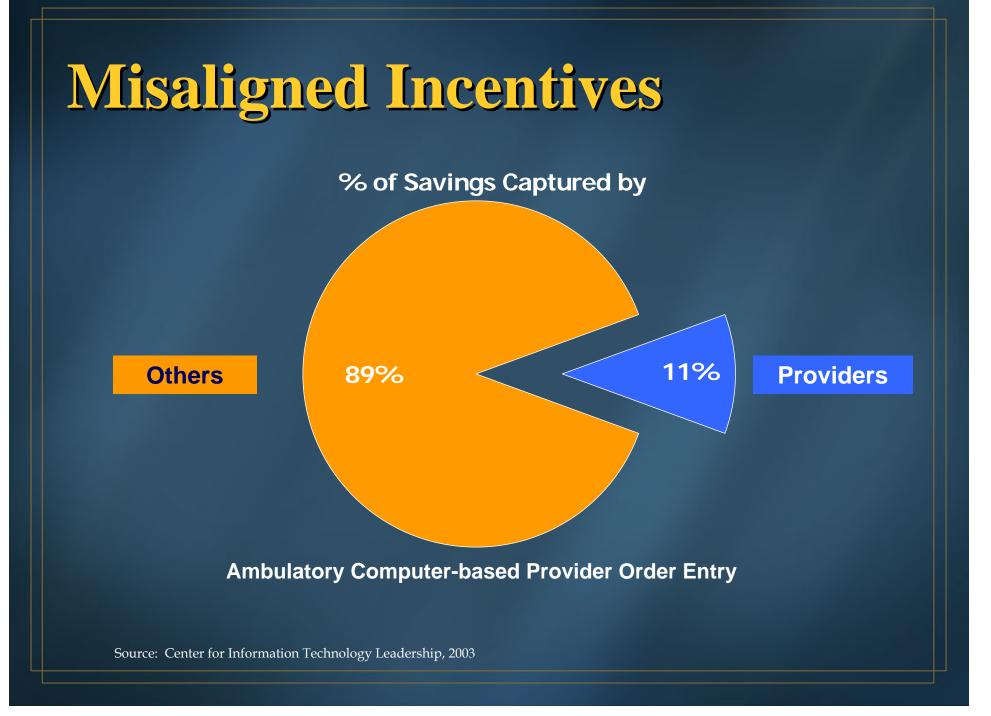
- 85% believe doctors should computerize writing prescriptions, yet 49% do not intend to do so
- 89% believe doctors should computerize recording patient summaries, yet 48.5% do not intend to do so
- 83% believe doctors should computerize recording treatment records, yet 48.7% do not intend to do so

Top Reasons for Disconnect

- Initial capital cost
- Time investment
- Security concerns
- Maintenance costs

What Can Others Do to Assist in this Paradigm Shift?

And Why Should They?



Plans and Hospitals Can...

- Provide financial incentives to practices to implement EHRs.
- Implement or widen Pay for Performance incentives.
- Reduce the roadblocks to providing quality care.

Plans and Hospitals Can... Assist In...

- Financial analysis
- Cost analysis
- Workflow analysis
- Introducing vendors
- Defining hardware needs
- Creating an implementation team

\$\$ = the main roadblock to adoption

- Plans and Hospitals can...
 - Help practices understand finances
 - Clarify financing options
 - Provide electronic registries
 - Maintain electronic med lists and share that data
 - Assist in electronic prescribing

Conclusion

- Success depends on you
- The evolution of IT and healthcare is upon us now
- The return on your investment can be measured in real dollars
- The ultimate ROI is job satisfaction, a sense of accomplishment, and success in today's changing world

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