### Achieving Operational Excellence with an EHR – a CIO's Perspective

Phyllis Schuck, SPHR CIO of Pinehurst Surgical HIT Session 6.02 Thursday, March 29, 2007

### Pinehurst Surgical Organization Overview

- Founded in 1947 Physician Owned
- 8 Surgical Specialties & 1 Non-Surgical
- 36 Physicians & 18.5 Mid-Levels
- Support staff of 221
- One primary location 6 satellite clinics
- Approximately 110,000 active *charts*

## Goal of Implementing EHR

#### Goal is NOT

- Chartless or paperless

Goal <mark>IS</mark>

- Control Expense of Visit Related Processes
- Increase Provider Productivity

Outcome **IS** 

- Operational Excellence

#### Measuring EHR Goal Success

Pinehurst Surgical <u>Trends in Staffing</u>						
Month	Support FTEs	MLPs	MDs	Support FTE per Provider	EHR Implementation	
Mar-05	196	16.5	28	4.40	Scanning	
Apr-05	197	16.5	28	4.43	Scanning	
May-05	198	16.5	28	4.44	Scanning	
Jun-05	202	16.5	27	4.65	Chart View, Tasks, Document Interface	
Jul-05	199	16.5	27	4.57	Lab Results Interface	
Aug-05	196	16.5	27	4.51	ePrescribe	
Sep-05	200	16.5	27	4.60	Nursing H&P Entry via Notes	
Oct-05	200	16.5	29	4.40	Order - Labs Only	
Nov-05	205	16.5	30	4.41	ENT - Note, Order, Charge	
Dec-05	205	16.5	30	4.41	Neuro & Vascular - Note, Order Charge	
Jan-06	214	17.5	33	4.24	OBGYN - Note, Order, Charge	
Feb-06	219	17.5	33	4.34	Urology - Note, Order, Charge	
Mar-06	214	17.5	33	4.25	Bariatrics - Note, Order, Charge	
Apr-06	212	17.5	34	4.11	GS - Note, Order, Charge	
May-06	211	17.5	34	4.10	Ortho & Physical Med - Note, Order, Charge	
Jun-06	215	17.5	34	4.18	Ortho & PT - Note, Order, Charge	
Jul-06	220	17.5	35	4.18	5 Merging Providers - Note, Order, Charge	
Aug-06	222	18.5	37	4.00	PACS, 2 New Providers - All Modules	
Sep-06	221	18.5	37	3.97	Quality Follow up	
Oct-06	221	18.5	37	3.98	Quality Follow up	
Nov-06	221	18.5	36	4.05	Quality Follow up	

### Achieving Operational Excellence Relies on Improved Processes

#### Bill Gates, CEO of Microsoft, says -

- " A rule of thumb is that a lousy process will consume ten times as many hours as the work itself requires."
- " A good process will eliminate the wasted time and technology will speed up the remaining real work."

Implementing EHR created a unique opportunity to redesign workflow processes to achieve operational excellence!

> Source: 1999, Business @ The Speed of Thought

#### Workflow Runs your Practice Not Software

#### EHR involves redesign of Information Workflows for -

Collection

- Opportunity for largest and immediate gains in process improvement & staffing efficiencies
- Management
  - Opportunity for maintaining current gains and achieving new gains

### Information Collection Digital Technology

- Improves availability of information
  - Eliminates "mini-charts" & filing lag time
  - Eliminates issue of chart availability at point of care
- Permits operational efficiencies with "building block" approach
- Eliminates document prep & scan FTE costs
- Saves costs on chart supplies, paper & toner

### Information Collection Electronic Workflows

#### **Transitional Workflow**

Conversion of paper & chart centric processes to electronic

#### New Workflow

- Interfaces
- Digital Faxing
- Secure File Transfer Protocol
- Direct entry into EMR
- Scanned entry of loose reports

- Reduce your charts to lowest level possible
  - retention statutes; current with purges & shredding
- Analyze chart activity to decide what to convert
  - Future scheduled appointments, Activity in past 1-3 years, Minors with no activity
  - Consider storage for retention period of inactive charts unless revenue opportunities in storage space
- Indexing High Labor Costs
  - Analyze labor costs of various historical indexing strategies and present to physicians -20% vs 100%

#### Internal or Outsourced Scanning

- Cost of scanning equipment needed to scan documents & non-standard chart items
- Time frame for conversion process usually driven by EMR implementation strategy
- Volume of charts and activity of charts
- Work space adequate for document prep, scanning, indexing staff
- Additional staff needed to handle in house conversion while still supporting old process

### Transition Information Collection Chart Conversion - Staffing

#### **ACTIVE CHART CONVERSION & STAFFING ANALYSIS**

5,000
375
7.5
4,520

#### STAFFING ANALYSIS BY FUNCTION

Prepping FTE Pro	jection	Scanning FTE Pro	jection	Indexing FTE Proje	ction
Prep Pages per day	14,520	Scan Pages per day	14,520	Index Pages per day	14,520
Producti∨e prepping hrs/day Prepping rate (pg/hr) Hrs prepping per day	7.5 870 16.69	Producti∨e scanning hrs/day Scanner rate (pgs/hr) Hrs. scanning per day	7.5 1325 10.96	Producti∨e indexing hrs/day Indexing rate (pgs/hr) Hrs Indexing per day	7.5 295 49.22
Prepping FTE's	2.23	Scanning FTE's	1.46	Full Indexing FTE's Limited Indexing FTE's	6.56 1.34
Total Staffing - Full Ind 10.25	-		Total Staffing	- Limited Indexing 5.03	

**Outsourced Chart Conversion** 

- Compare in house costs to vendor quotes. Add costs of: partial indexing, boxes, pickup, shredding and stat requests
- Add internal costs of completing indexing, developing chart management reports and importing of converted electronic files
- Contract should cover image quality, turn around time, % of records QA, sample tracking reports and successful test of electronic file delivery

- Begin scanning charts with appointment activity 90+ days in advance of users on EMR
- Require users to view scanned documents on echart as soon as possible for operational gains
  - Turn on Document & Lab Interfaces, Digital Faxing and FTP
  - STOP creating new charts or pulling scanned charts
  - STOP filing loose paper in charts
  - Rededicate filing & chart pull/refile FTEs to new processes

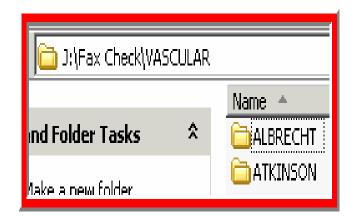
- Set up a QA process so you can shred charts within 30 days of scanning
- If providers require paper, print it from the echart
- Add just enough temporary staff to continue current chart pulls. Have temps work late & early hours
- Track productivity to insure your reach your conversion targets monthly

### New Information Collection Interfaces

- Eliminate duplicate entry into multiple information systems – registration, scheduling, providers, ICD9 & CPT4 codes
- Provide discrete data Lab Information System
- Link processes across information systems LIS order & results, PACS orders & results, charges
- Cost effectiveness of interface
- Data synchronization and timeliness of data delivery more important consideration than cost

### New Information Collection Digital Faxing

- efax phone numbers deliver documents directly to each providers sub folder in the Fax Check folder
- Documents are reviewed online and moved to Fax File for efiling or to Fax Sign for efiling and tasking to provider





# Information Collection New Secure FTP

From: To:	faxMonitor@pinehurstsurgical.com Helpdesk	Sent:	Fri 3/2/2007 7:40 AM				
Cc:	Report of fax Import						
· ·	nt Processing Started: 03/02/2007 7:39:36 AM						
Found	Found zip files in directorycontinuing processing.						
File D	ecompression Done. (60 images to be processed)						
Finished Processing Files for Decryption - 60 files.							
Cleanup Done - Deleted all .pgp files.							
Docume	nt Processing CompletedFinished Processing All Messages: 03/02/2007 7:39:4	1 AM					

#### New Information Collection Direct Entry

Note Type: Benefit Forms For: 22 Jun 2006 Status: Edited	Owner: <u>Physician,Test</u>	Note Type: Coumadin Form	For: 20 Feb 2006	Status: New	Owner: <u>Physician,Test</u>
To/CC.	Personalize	To/CC_			<u>Personalize</u>
		4 🔟 🗗			
ID#: Group # Effective :	Date:		Coumadin Anticoagulant Recor	rd	·
Deductible Amt.		Patient Name:	Account #:	Phone:	
00P: Met			L		
Pre-existing waiting period: Insurance Pays:		Surgeon:	Family Provid	er:	
Insurance Rep Name: Precert Rep Name:		Diagnosis:	Date of Surge	ry:	
Precert Required Precert #.     Precert Telephone:		Home Health Agency:	 	elephone:	
Prior Approval Required Prior Approval #.  200	Opinion required				
Date Verified: Date Received: Initials:		Notes:			
Secondary Ins Info: Note:					
		D/C Results: PT I	NR Coumadin	n mgm Tablets	
D#. Group #. Effective :	Pate:	Date PT INR	Dosage Instructions	PA/DR	HH Nurse
Deductible Amt					
00P: Met		11			

#### Electronic Forms

**Benefits Pre-Cert & Coumadin Tracking** 

- Convert nursing processes to new workflows well in advance of provider
  - Problem & medication entry with appropriate status of active, D/C, resolved, history of
  - Order entry of diagnostic tests
  - Build enotes that become a central portal for all EMR data & functions – problems, meds, vital signs, lab results, orders
  - Print enote for provider but also task to review electronically

### New Information Collection Direct Entry - Nursing *NURSES must EXCEL in EMR*

- Nursing is the key to EMR productivity for the provider
- Nursing collects the "building block" data for provider documentation – problems, medications, vital signs
- Redesign your nursing processes for triage and office visits

#### **Triage Encounters Tasked to Provider**

Call Process Unfinished Calls			_
PATIENT, TEST P       MRN: 27251 Age: 27 Yes         Select Patient ▼ i       1008: 01/01/	s SSN: 282-82-8282	H Phone: (910)295-1111 W Phone: FYI: FYI	Allergies: Yes Security: No Restricte Note: <u>Select</u>
Call Processing		Unfinished Calls	: 0 <u>Personalize</u>
Patient: PATIENT, TEST P	Select Pt Clear Pt		
Prev Appt: 27Feb2007 03:45 Pf Physician, Test	Next Appl	:	
Patient is Caller	Date/Time of Cal	l: 04 Mar 2007 🔳 9:37	<sup>r</sup> AM
Caller: PATIENT, TEST P	Phone Number	: (910)295-1111	Home 💌
Relation: Self			<b>_</b>
Route to: 🔿 User 💿 Team			
General Surgery Nurse Team	All Reason for Cal	I: Medical Complaint/Pro	blem 💌
Comments:			
Date of Surgery: 02/23/07 Surgeon: Dr. XXX			
Type of surgery: [Lap-Chole ]			
Fever: 102 Chills Pain Swellin	1		
Comments: [ ]			
Plan/Instructions given: Schedul	e appt today in office		
			-
Text Templates	rint Copy To <u>N</u> ote Co	opy To <u>T</u> ask Clear <u>F</u> orm	Finish <u>L</u> ater

Problems			<u>Personalize</u>
View: 💿 <u>1</u> Acti <sup>,</sup>	ve © <u>2</u> PMH © <u>3</u> PSH © <u>4</u> Family F	lx O <u>5</u> Pers Hx	0 <u>6</u> All
Category 🗢	Problem 4	ICD-9 Onset	🗢 Status 🛛 🗢
	Arterial Embolism Of The Iliac Artery	444.81	Active 🔺
	Arteriovenous Fistula	447.0	Active
History of	Bladder Cancer	V10.51	Resolved
History of	Carcinoma In Situ Of The Larynx	V10.21	Resolved
	Carotid Artery Stenosis 433.10 Active		
	Cholecystectomy		Active
	Chronic Tonsillitis	474.00	Active
	Compression Arthralgia Of The Knee /	719.46	Active
	Cough	786.2	Active
	Cysticercosis	123.1	Active
	Cystoscopy With Resection Of Tumor		Active
	Esophageal Reflux	530.81	Active
Family history	Genetic Susceptibility To Malignant	V84.03	Active
	Joint Pain, Localized In The Hip	719.45	Active
	CONTRACTOR OF A CONTRACTOR MALE A	702.04	A LATIN -

#### Records Problems during Office Visit Building Block

Medications				<u>Personalize</u>
View: ⊙ <u>1</u> Active O <u>2</u> Past O <u>3</u> A	II	<b>Rx Benefit:</b> NOT LISTED		Edit
Name	SIG	DS:Qty:Ref Dates of Therapy	♦ Rx By	
😄 Hydrochlorothiazide 25 MG	TAKE 1 TABLET DAILY.	27Feb2007-		
😐 Levoxyl 88 MCG Tablet	TAKE 1 TABLET ONCE BEFORE	27Feb2007-		

#### Records Medications during Office Visit Building Block

Vital Signs				Perso	nalize
Date/Time: 04 M	lar 2007 🛛 🔳 👖 10:4	41 AM 🖃	Statu	s: Active	*
	(27 Feb 20	Last Entry: 007 11:19 AM)		(27 Feb 20)	Last Entry: D7 11:19 AM)
BP Systolic:	127 mm Hg	140 mm Hg	Height:	65 in 💌	65 in
BP Diastolic:	78 mm Hg	85 mm Hg	Weight:	147 lb 💌	135 lb
Location:	-		BMI:	24.5 kg/m2 Calc.	22.5kg/m2 Calc.
Position:	<b>v</b>		Head Circum:	cm 💌	
Temperature:	99 F 🔻		Pain Scale:	(0-10)	
Method:	~		LMP:	01 Mar 2007 🔳	
Heart Rate:	bpm		0 <sub>2</sub> Saturation:	(%)	
Location:	<b>•</b>		F <sub>i</sub> O <sub>2</sub> :	(%)	
Quality:	<b>•</b>		O <sub>2</sub> Source:		
Respirations:	R/min				
Quality:	<b>_</b>				

#### Record Vital Signs during Office Visit Building Block

Note Type: Abdomina	al Pain For: 27 Feb 2007	Status: Unsigned	Owner: <u>Physician,Test</u>
To/CC CC: LAM MD, D	OUGLAS		Personalize
Defined Sections All Note Sections All Note Sections PCP Referred Here HPI Allergies Current Meds Current Meds Current Meds Active Problems PMH PSH Family Hx Personal Hx ROS Vital Signs Physical Exam Assessment Orders Plan Signature		KE 1 TABLET DAILY.; RPT .ET ONCE BEFORE MEALS 30 mi	<u>Remove Entry</u>

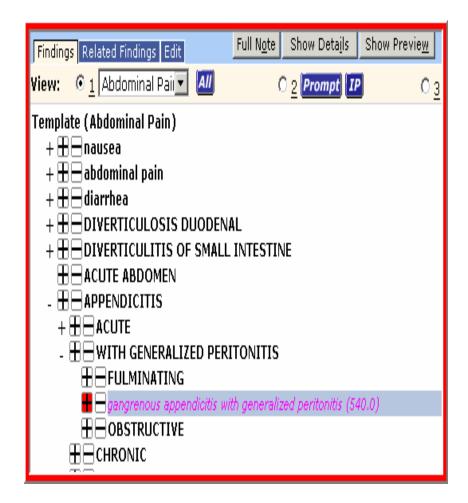
Cite information to Note and add Reason for Visit & Carbon Copy 60-80% of Office Visit Documentation is complete

- Make sure all nursing "building block" processes are working smoothly
- Combine nursing documentation into a note with provider documentation
  - Nurse captures 60-80% of the documentation for the office visit
- Provider portion of new process should require about the same time as dictation

#### Completes Physical Exam

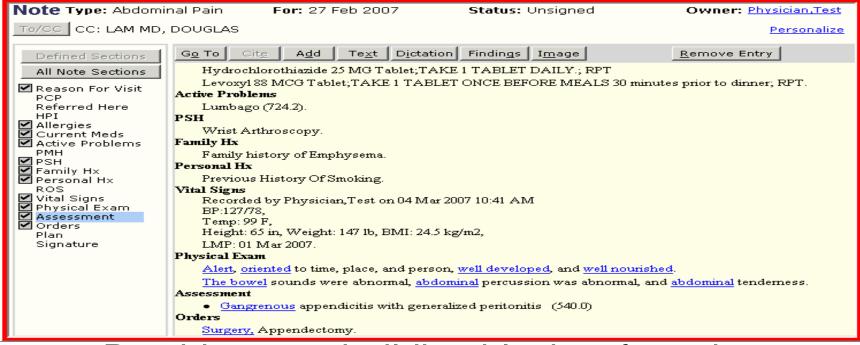


#### Assesses Diagnosis Code



Order Entry
Problems       ● Active       ● All         Abdominal Pain 789.00       Acute Pansinusitis 461.8         Acute Urinary Retention 788.20         Acute Urinary Retention 788.20         Appendicitis With Generalized Peritonitis 540.0         Bladder Cancer 188.9         Bladd In The Urine 599 7
View: O <u>1</u> My Favorites 💽 📴 O <u>2</u> Select Group 💿 <u>3</u> app
<ul> <li>Cast, Removal/Repair Full Arm/Leg, applied DME, Custom Toe Appliance DXA, Bone Density Appendicular Skeleton Follow-up, Keep scheduled appt Follow-up, Office will call with results &amp; ap Follow-up, Pre-op Appt</li> <li>✓ Surgery, Appendectomy Surgery, Appendectomy at time of oth</li> </ul>
Post Text to Current Note Pages: 1
Order O R Problem
Surgery, Appendectomy Appendicitis With Generalized Peritonitis

#### Provider or nurse enters orders



Provider uses building blocks of nursing documentation - may add Plan, signs enote Completed

#### Provider records or Nurse records prescription request and tasks provider to authorize

New Rx	Rx Benefit: NOT LISTED	D <u>Edit</u> <u>Personalize</u>
Problems 🔍 Active 🔍 All 🔄	Pending Prescriptions	Linked Problems
<ul> <li>✓ Abdominal Pain 789.00</li> <li>▲ Acute Pansinusitis 461.8</li> <li>■ Acute Urinary Retention</li> <li>■ Appendicitis With Genera</li> </ul>		
<u>N</u> ew Problem <u>D</u> etails <u>R</u> esolve <u>A</u> ssess	Rx Detail Update Link	Remove
○ <u>P</u> roblem-based ⊙ My <u>F</u> avorites (	ा अ <u>e</u> arch Master	
Medication	SIG	Days Qty Ref daw
	New	
	TAKE 1 TABLET 4 TIMES	10 40 0 🗖 Detail 📴
😀 Amitriptyline HCl 25 MG Tablet 🗌 [	DAILY.	
😄 🛛 Amoxicillin 200 MG/5ML Susper		
😑 Ativan 2 MG Tablet		
😑 Cipro 250 MG Tablet 📃		
😑 Cipro 500 MG Tablet		
Dotrol I & 4 MG Conculo Exton		

- Eliminates
  - Misinterpretation of handwritten orders
  - Need for manual tracking
  - Duplicate entry if interfaced
- Improves
  - Workflow and timeliness of test resulting
  - Strengthens documentation
  - Automates Charge entry if order set to charge

### New Information Collection Direct Entry - Charges

- Eliminates
  - Redundant entry of data
  - Missed charges, keying errors or legibility issues
  - Non-payment of uncovered services
- Improves
  - Accuracy of coding
  - Claims denial rate for certain denial types
  - Revenue cycle no lag of charge entry

#### New Information Collection FTE Impact

#### Impact on Scan & Index FTEs of Strategies to reduce paper documents

FTE Impact Analysis - Digital Documents						
Month	<u># Working</u> <u>Days</u>	<u>Month Loose</u> <u>Reports</u>	<u>Avg Daily</u> Loose Reports	<u>Estimated</u> Scan/Index FTEs Needed	<u>Estimated</u> FTE Impact	Process Transition
Mar-05	23	101,723	4423	2.49		Pre-EMR
Jul-05	20	66,765	3338	1.88	-0.61	Document & Lab interfaces
Aug-05	23	69,741		1.71	-0.17	ePrescribe
Jul-06	20	44,811	2241	1.26	-0.45	Completion of Order, Charge, Note
Aug-06	23	49,910	2170	1.22	-0.04	Post EMR

Per report rate 0.0045

### New Information Collection FTE Impact

#### **Medical Records**

- Eliminated 7.5 FTEs in Medical Records
  - 4 FTEs chart pull & re-file eliminated; 1 FTE moved to Index
  - Moved 1 FTE Release of Information to Scan & Index
  - 3.5 FTEs filing loose reports eliminated

#### Transcription

- Eliminated all 7 FTEs internal Transcriptionists
  - Any remaining transcription is outsourced
  - Will always have some transcription
  - Outsourced transcription cost reduced 60-95% based on specialty

#### New Information Collection FTE Impact

### March 2005 – November 2006 –Eliminated 14.5 FTEs –Added 10.5 new providers

## Information Management Direct Entry - Building Blocks

Recorded once for many uses documentation, medical decision making & data based analysis

- Problems
- Findings
- Medications
- Vital Signs
- Lab Results

## Information Management Prescribing

- Eligibility and benefits checking inform provider of formularies and preferred medications
  - Eliminates call backs or non-compliance due to cost
- Drug interactions
  - Eliminates call backs or acute events
- Facility specific history of prescribed medications
  - Tracks patient compliance with filling script
  - Eliminates drug seekers
  - Outcome analysis when linked to problem lists, tests and results

### Information Management Orders

- Feeds interfaces for LIS and PACs
- Allows results to auto complete orders
- Tracking of past due diagnostic test results
- When linked to charge, eliminates rekeying of charge
- Forces diagnosis assignment at time of order and CPT accuracy
- Tracking of services ordered and performing location for business analysis

#### Information Management Orders & Results linked to PACS

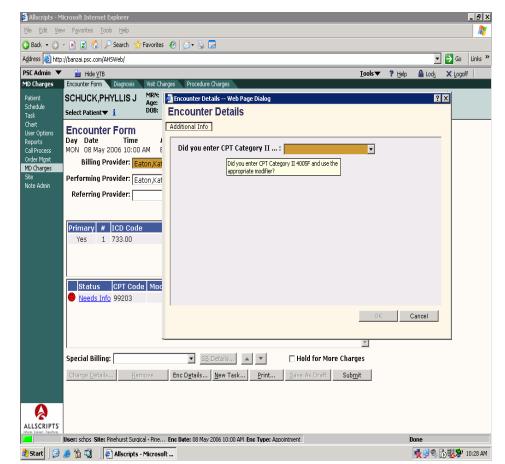
ler	Hide VTB							Tools 🕶 🤶 H	elp 🥤		Logoff
	SnapShot Cha	artViewer Note	Results Vitals	Flowsheets Pr	roblems 📉 Mea	ds QuickSets	S	1978 - AT		1979	allenties in
it ule	TEST, Al		Years SSN:	F 123-45-6789 tives:	H Phone: (91 W Phone: FYI: F	56		: Restricted Data <u>llect</u> )	Pri Ins:		
Mgmt harges	ChartViev	ver 🔎 🎞	<b>†≡ View:</b> All b	y Section by Sub-S	ection *			💌 🍤 🛛 Edit V	/iew	75 Total	Chart Items
Options ocess	Group: Sect	ion 🔺 🔻 🐨 Sut	-Section - V	🛓 Item Viewer					🛧 Previo	us 🧇 Next	2 of 3
				Verification Not Encounter: 25 O			/pe: US, A	bdominal, Com	plete		
ote Admin .ocks base	Item V Date V V			US, Abdominal, C	Complete PR	<u>kG</u>		Terry	y,Willia	ım	25 Oct 2006 06:0 AM
	🗆 🔁 US, Al	odomina 25 Oct 200	6	Test US, Abdominal	L Complete F	Result PRG Imaging		Flag		Ref. Ra	inge
					r, complete P	<u>PRG</u> Inlaging	scuuy				
	🚈 Web Pag	e Dialog									? ×
	Click the link	s below to laun	ch a Neurosta	ar Solutions Web	-based Imag	ge Viewer.			ľ	euro	Star
		cs below to laun Advanced Viewer	ch a Neurosta Last, First	ar Solutions Web		ge Viewer. Study Date	Modality	Ref. Doctor	<b>L</b> Ű	euro	star
				MR	N S	itudy Date		Ref. Doctor terry^william	Study	Description	SOLUTIONS
	Simple Viewer	Advanced Viewer	Last, First	MR 382	N S 28137 1 28137 1	Study Date	US US		Study 1 us, a	Description	Complete
•	Simple Viewer	Advanced Viewer	Last, First test, aunt	MR 382	N S 28137 1 28137 1	Kudy Date .0/25/2006 )8:40:43 am EI .0/25/2006	US US	terry^william	Study 1 us, a	Description	Complete
	Simple Viewer	Advanced Viewer	Last, First test, aunt	MR 382	N S 28137 1 28137 1	Kudy Date .0/25/2006 )8:40:43 am EI .0/25/2006	US US	terry^william	Study 1 us, a	Description	complete
	Simple Viewer	Advanced Viewer	Last, First test, aunt	MR 382	N S 28137 1 28137 1	Kudy Date .0/25/2006 )8:40:43 am EI .0/25/2006	US US	terry^william	Study 1 us, a	Description	Complete
	Simple Viewer	Advanced Viewer	Last, First test, aunt	MR 382	N S 28137 1 28137 1	Kudy Date .0/25/2006 )8:40:43 am EI .0/25/2006	US US	terry^william	Study 1 us, a	Description	Complete
	Simple Viewer	Advanced Viewer	Last, First test, aunt	MR 382	N S 28137 1 28137 1	Kudy Date .0/25/2006 )8:40:43 am EI .0/25/2006	US US	terry^william	Study 1 us, a	Description	Complete

## Information Management Charges

- Provides a link to diagnosis that is assessed for office visit, diagnostic orders and surgeries
- Simplifies coding audits
- Simplifies financial audits
  - Audit trail tracks all changes up to submission of charge

## Information Management Charges

- Pay for Performance & Physician Voluntary Performance Reporting
  - Measures are age, sex, diagnosis and procedure specific
  - Build additional questions that prompt for Category II codes to report



## Information Management Hospital & Surgery

- Hospital Census list received by interface daily
  - Use elists as check and balance for charge entry of IP, OP, Consults, ER Visits
  - Use elists for discharge follow up calls
- Use elists to track patients scheduled for surgery with outstanding paper work
  - Pending test results
  - Pending orders

## Information Management Chart Structure

- Good structure & views take advantage of computer speed in retrieving & grouping records
- Increased Productivity for providers

ChartViewer		🔎 ፲≣ † <b>≡ View:</b> Bariatric Pre-Op Clearance					
Group:	Section	△ ▼ ▼ Sub-Section △ ▼ ▼ Owner: Physic Encounter: 16					
Item		▼ Date   ▼ Owner   ▼ ▲     Allergies					
🕀 📋 Clini		Sulfa Drugs.					
	SC H&P	Current Meds					
1 T.	inistrative	Meclizine HCI 12.5					
	ariatric	Albuterol 90 MCG					
🗄 📋 Clini	ic Notes	AND AS DIRECT.					
🗄 📋 Diag	inostic Studie	S Acetaminophen-C					
🗄 🔁 📴 B	one Density	Rx					
🗄 🛗 La	abs	Celexa 20 MG Tab					
		UNKNOWN MED					

## Information Management Release of Information

- Eliminate duplicate handling to tab documents and copy
- Eliminate copier & paper costs with efaxing
- Eliminate 90% of postage costs with efaxing
- Documents available same day to release if using enotes or 72 hours if transcribed
- Tasking logs the receipt of an authorization request
- *eL*etters for prebills to insurance company or attorney
- Release template provides audit trail of documents released
- Automatically part of the chart

## Information Management Tasking

- Specific tasks allow for routing and follow up of tasks by views
  - Create tasks for key actions in workflows
  - Use specific task such as Surgery Charging or Precert vs. generic task for Insurance/Billing
  - Create views of tasks that allow staff & providers to manage their tasks

## Information Management Tasking

- Task Views Staff
  - Charges are submitted for every encounter
  - Edited/Adjusted charges are resolved
  - Pending orders are scheduled
  - Past due orders are followed up
  - Precerts are current with authorizations
  - Triage is current with call backs
  - 1yr-5yr follow ups & preventive health services are current

## Information Management Tasking

- Task Views Providers
  - Prescription requests & refills
  - Documentation creation & signoff
  - Review of test results & verification
  - Review of external documents
- Task Views Managers
  - All of these and more!

## Information Management Correspondence

- Patient Result Letters
- Pre-Admit H&Ps
- Patient DKA letters
- Patient Discharge letters
- Referring Provider letters
- Letters to Insurance Companies
- Return to Work notes

- Management oriented training in your EHR is a must (i.e. EMR, PACS, PMS)
- Work one-on-one with clinical managers to observe how they use task views, key reports and tools
- Set the paradigm that technology is integral to processes they supervise so literacy is a job requirement

- Establish physician agreed upon minimums that all providers, nursing or technical staff must do in EMR
  - Prescribing with meds linked to problems
  - Enter problems and resolve
  - Assess diagnosis codes
  - eNote for nursing & provider documentation
  - Orders entered & tracked electronically
  - Charges for E&M codes, clinical supplies & services

- Schedule Quality Follow Ups – Are "standards" being met?
- Document what you find and report it to the organization

1	EMR Focused Follow Ups Department September 18 – 29, 2006
Observations/Problems	Recommendation
Mixture of providers/nurses creating notes	The nurse is to create the note so that all H&P and RFV are reviewed with patient.
Mixture of providers/nurses entering CC's	The nurse is to enter the referring or PCP since they are the ones interviewing the patient about this information
Mixture of provider/scheduler entering orders and charges	The provider or nurse are to enter the order prior to patient checking out with scheduler. Favorites, Quicksets, etc should be used so that it will be easier for ordering.
Writing new Rx's for meds that are already in the patient's chart	Use the change and renew functions under the meds tab instead of New RX.
Handwriting Rx's instead of using TW	The nurse should enter this in as an Hx and the Rx should not be sent down to MR to be scanned. A \$5 fine for each Rx will be charged to the provider/department.

EMR Role Handling MATRIX								
Required Role for all processes except Charges - Provider/Nurse/Scribe								
Process Owner								
Specialty A								
1	provider	provider	provider	provider	provider			
2	provider	provider	provider	provider	provider			
3	provider	provider	provider	provider	provider			
4	provider	provider	provider	provider	provider			
5	provider	provider	provider	provider	provider			
Specialty B								
1	provider	provider	provider	provider	provider			
2	provider	provider	provider	provider	provider			
3	provider	nurse	nurse/scheduler	provider	provider			
4	provider	nurse	provider	provider	provider			
5	provider	provider	provider	provider	provider			
6	provider	nurse	provider	provider	provider			
7	provider	nurse	provider	provider	provider			
8	provider	provider	provider	provider	provider			
9	provider	provider	provider	provider	provider			
10	provider	nurse	provider	provider	provider			
Specialty C								
1	provider	provider	provider	provider	provider			
2	provider	provider	scheduler	nurse	provider			
3	provider	provider	provider	provider	provider			
4	provider	provider	provider	nurse	provider			
Specialty D								
1	nurse	nurse	nurse/scheduler	nurse	provider			
2	nurse	nurse	scheduler	nurse	provider			
3	scribe	scribe/nurse	scribe	scribe/nurse	provider			
4	nurse/scheduler	nurse/scheduler	nurse/scheduler	nurse	provider			
5	scribe	scribe/nurse	scribe	scribe/nurse	provider			
6	scribe	scribe/nurse	scribe	scribe/nurse	provider			
7	provider	provider	provider	nurse	provider			

PS Care Process Management Report								
Process Owner				rt Staff	Support Staff			
				Date range				
	# Outstanding	Date range	# Unscheduled	Unscheduled	# Past Due	Date range Past		
	tasks	Outstanding Tasks	Orders	Orders	Results	Due Results		
Specialty A								
1	140	1.26.07-2.23.07	50	12.9.06-2.23.07	33	1.30.07-2.20.07		
2	323	11.14.06-2.23.07	7	12.14.06-2.23.07	8	2.19.07-2.20.07		
3	54	12.24.06-2.23.07	18	1.19.07-2.21.07	8	1.23.07-2.21.07		
4	23	2.20.07-2.23.07	43	12.22.06-2.22.07	3	2.19.07-2.21.07		
5	39	1.15.07-2.23.07	63	11.17.06-2.23.07	270	10.3.06-2.21.07		
<u>Specialty B</u>								
1	80	1.8.07-2.23.07	1	2.22.07	37	2.1.07-2.21.07		
2	14	2.6.07-2.23.07	6	2.13.07-2.22.07	6	2.20.07-2.21.07		
3	26	2.22.07-2.23.07	0	-	10	2.1.07-2.21.07		
4	55	2.16.07-2.23.07	0	-	96	2.12.07-2.21.07		
5	32	2.9.07-2.23.07	0	-	11	2.13.07-2.21.07		
6	1	2.23.07	2	2.22.07	0	-		
7	463	1.24.07-2.23.07	0	-	20	2.1.07-2.20.07		
8	29	1.22.07-2.22.07	5	2.22.07	10	2.19.07-2.20.07		
9	2	2.22.07	0	-	12	10.16.06-2.19.07		
10	7	2.20.07-2.22.07	0	-	4	11.8.06-12.7.06		
<u>Specialty C</u>								
1	164	10.23.06-2.23.07	17	2.16.07-2.23.07	156	12.12.06-2.21.07		
2	9	2.19.07-2.21.07	0	-	0	-		
3	162	12.27.06-2.23.07	0	-	41	1.24.07-2.21.07		
4	42	2.14.07-2.23.07	2	2.20.07-2.21.07	221	2.23.06-2.21.07		

- Organization must agree what steps to take when a provider refuses to follow electronic standards
  - Require clinical staff to input for provider. May increase his/her staffing level and direct expense
  - Set paper handling costs at punitive levels for pieces of paper that should have been done electronically
  - Address as a peer review issue as non-compliance affects entire organization

#### Achieving Operational Excellence EHR Goal Met?

- Ratio of Support Staff to Providers has declined by .35 FTEs since March 2005
- Current Ratio of 4.05 Support Staff per Provider is in line with MGMA Median of 4.00

### Achieving Operational Excellence EHR Goal Met?

- MGMA Specialty Practice Median is 4.46
   FTEs per 10,000 RVUs
- Based on Total RVUS, PS has 2.90 FTEs per 10,000 RVUs
- PS ranks above the 75th Percentile for Productivity

#### Achieving Operational Excellence EHR Goal Met!

225 4.80 220 4.60 215 210 4.40 Staff FTEs / Provider 205 Staff FTEs 200 205 4.20 195 4.00 190 3.80 185 180 3.60 Jan- Feb- Mar- Apr- May- Jun- Jul- Aug- Sep- Oct- Nov- Dec- Jan- Feb- Mar- Apr- May- Jun- Jul- Aug- Sep- Oct- Nov-05 05 05 05 05 05 05 05 05 05 05 05 06 06 06 06 06 06 06 06 06 06 06

**Staffing Ratios** 

# Achieving Operational Excellence with an EHR

# Questions? pschuck@pinehurstsurgical.com