



Lost Creek Consulting, Inc.

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22 February 2008

www.lostcreekconsulting.com

Going Live on EMR

- What do you want see in the chart on the first time you see a patient with the EMR?

This?

Centricity Physician Office - NOT FOR PATIENT USE - Harry S. Winston MD @ Southside Clinic (sutra) - 9/28/2007 10:12 PM - [Chart]

Go Actions Options Help

Desktop Chart Appts Reg Reports LinkLogic New View Print Help EXIT

David Erickson **OBSOLETE** Home: 554-607-2221 Work: 541-937-4268
55 Year Male (DOB: 09/17/1952) Patient ID: 153-TEST001 Insurance: Group:

Find Pt. Protocols Graph Handouts Update Phone NT. Refills

Summary Problems Medications Alerts Flowsheet Orders Documents

Problems **Medications** **Allergies**

Directives

Flowsheet: Enterprise/Medicine/Internal Medicine **Documents: All** **Registration Notes**

	Date	Value
HEIGHT		
WEIGHT		
TEMPERA...		
TEMP SITE		
PULSE RA...		
PULSE RH...		
RESP RATE		
BP SYSTO...		
BP DIAST...		
CHOLEST...		
HDL		
LDL		
BG RANDOM		
CXR		
EKG		
PAP SMEAR		
BREAST E...		
MAMMOG...		
HEMOCCULT		
FLU VAX		

Date	Summary	Status
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No Photo Available

For Help, press F1

Or this?

Centricity Physician Office - NOT FOR PATIENT USE - Harry S. Winston MD @ Southside Clinic (sutra) - 9/28/2007 10:13 PM - [Chart]

Go Actions Options Help

Desktop Chart Appts Reg Reports LinkLogic New View Print Help EXIT

Walter S. Caldwell *CHECK PROTOCOLS* Home: 503-555-6054 Work: 503-434-0090
 63 Year Male (DOB: 03/02/1944) Patient ID: 234-TEST011 Insurance: CHC (Gold Plan) Group: CHC2342

Find Pt. Protocols Graph Handouts Update Phone Nt. Refills

Summary Problems Medications Alerts Flowsheet Orders Documents

Problems

ANGINA, FUNCTIONAL CLASS III
 Risk of CORONARY ARTERY DISEASE
 HYPERCHOLESTEROLEMIA
 CHRONIC AIRWAY OBSTRUCTION (COPD)
 PROSTATIC HYPERTROPHY
 ARTHRITIS

Medications Drug interactions

MEVACOR TAB 40MG (LOVASTATIN) 1 po qd
 NITROSTAT SUB 0.4MG (NITROGLYCERIN) 1 sl pm c/p, max of 3 in 15 min

Allergies

PERCOCET

Flowsheet: Enterprise/Cardiology/Cardiac

	Date	Value
BP SYSTO...	10/10/2...	150
BP DIAST...	10/10/2...	105
PULSE RA...	10/10/2...	88
PULSE RH...		
RESP RATE	10/10/2...	14
WEIGHT	10/10/2...	188
BMI		
AUSCUL H...		
EXERCISE		
SMOK HX ...		
ALCOHOL ...		
SODIUM	10/18/2...	141
POTASSIUM	10/18/2...	4.8
CHLORIDE	10/18/2...	103
CO2	10/18/2...	28
CALCIUM	10/18/2...	9.6
CHOLEST...	10/15/2...	▲ 240
HDL	10/15/2...	33
LDL	10/15/2...	▲ 133
TRIGLYCE...	10/15/2...	225

Documents: All


Date	Summary	Status
02/23/2004 9:00	Cons Rpt: Cardiology Consultation	Signed
02/17/2004 5:00	Hosp D/C: Acute MI	Unsigned
10/22/2001 11:00	Phone: Labs and PFT's discussed	Signed
10/18/2001 12:00	Lab Rpt: CBC	Signed
10/15/2001 6:00	Lab Rpt: Lipids	Signed
10/15/2001 9:40	Diag Rpt: PFT and Oximetry	Signed
10/10/2001 11:00	Ofc Visit: F/U chronic problems	Signed
04/09/2001 9:00	Phone: TC with patient to review labs	Signed
04/08/2001 11:00	Lab Rpt: PSA	Signed
04/05/2001 11:00	Ofc Visit: BPH	Signed
12/05/2000 3:30	Phone: Wants stronger cough medic	Signed
11/30/2000 9:33	Ofc Visit: URI	Signed
09/30/2000 11:00	Phone: Labs and PFT's discussed	Signed
09/26/2000 3:00	EKG Rpt: Stress test: positive at Sta	Signed
09/23/2000 12:00	Lab Rpt: CBC	Signed
09/22/2000 6:00	Lab Rpt: Lipids	Signed
09/22/2000 9:40	Diag Rpt: PFT and Oximetry	Signed
09/17/2000 11:00	Ofc Visit: F/U chronic problems	Signed

Directives

DO NOT RESUSCITATE

Registration Notes

Likes to be called "Wally", hates "Walter"



For Help, press F1

Douglas County IPA

- Rick Benton

Reasons to Preload your Data

- Continuity of Data
- Ability to rely on Historical Trends
- Single Source for Patient Data
- Cost Savings for Data Storage and Retrieval
- Good Cost/Benefit Ratio
- Data Security applied to all patient data

Lost Creek Consulting, Inc.

David Erickson

LCC – our market

- Interfaces
- Preloading EMR
- Tools and Products
- Training

“Filling in the gaps”

LCC Projects

- Importing chart notes
- Importing scanned documents
- Preload Problems and Procedures
- Preload Medications
- Preload Allergies
- EMR Merge/Divorce
- Interface Agents
- Training

Importing chart notes

- Application extracts

- Impact MD

- MediNotes

- Misys

- Transcription

- Microsoft Word

- WordPerfect

- RTF

- text

Application Extracts

- Known patient information
- Emphasis on Formatting
- Image import using DocuTrak
Autoindexer/ImageLink

Transcription

- Unknown patient info
- Emphasis is on patient identity
- Standard templates
 - Patient: David Erickson
 - Patient ID: 82226
- Format the HL7 NotesLink message

NotesLoader

- Preload

- Import historical MS Word or WordPerfect notes

- Ongoing

- Import transcription into EMR

NotesLoader Indexer



File Help

Transcription Files: C:\Transcription\2_ManualIndexingQueue\



Name	Size	Type	Created
222_Schmidt	493	RTF	1/22/2008 9:27:36 AM
70-TEST001_Erickson_David_19520917_M_20041...	1377	TXT	1/22/2008 9:24:44 AM
70-TEST001_Erickson_David_19520917_M_20041...	633	TXT	1/22/2008 9:24:44 AM
71-TEST001_Haley_Melissa_19750525_F_2004120...	1804	TXT	1/22/2008 9:24:44 AM
72-TEST001_McGillicuddy_Lucille_19320222_F_200...	1002	TXT	1/22/2008 9:24:44 AM

Refresh

Wrap Text

CHART #: 82226
 PATIENT NAME: David Erickson
 DOB: 6/8/1952
 SEX: male
 SSN:
 NOTE DATE: 10/07/2004
 Sample Clinic, P.C. 1550 Dexter Road, Dexter, OR 97431 541-732-1137

Note for David Erickson on 10/07/2004 - Chart 82226



Patient Information:

Exter. ID: 82226 Name; First, Mid. DAVID
 S.S.N.: Name; Last: ERICKSON
 M.R.N.: Date of Birth: 06/08/1952 Sex: M

Visit Information:

Date of Service: 10/07/2004
 Doctor Initials: HSW EMR ID: hwinston
 Document Type: TN Lock

List matching patients

External ID	Patient ID	S.S.N.	Med.Rec.Num.	First	Middle	Last	Birth	Sex
82226	547-TEST001			David		Erickson	6/8/1952	M

Select Patient

Move to Hold

Write to EMR

Clinical List Import v. Preload

- Import is from a known, trusted source with controlled vocabularies
 - Import can be automated – works like LabLink™
- Preload is from anywhere the clinic has codes
 - Cross referencing is required
 - Provider approval is required
- Difference between Preload and data conversion

Preload Problems and Procedures

- Diagnosis info is already in the PM database
- The encounter form queries the PM database for diagnoses
- The provider approves and loads
- Preventative health and immunization events are stored as charges in PM

Problem Import - EFC.3: David Erickson

Problems1-20

Problems21-40

Problem Review

Problem Import Preload

Data on this form is **UNAUTHENTICATED** and is **NOT** considered a part of the Medical Record until approved and accepted into the EMR by a provider only.



Number of Problems:

Code	Description	Comment	Onset Date	Add
ICD-429.71	Acquired cardiac septal defect	<input type="text"/>	02/03/2008 <input type="text"/>	<input type="checkbox"/>
ICD-995.3	Allergy	<input type="text"/>	02/03/2008 <input type="text"/>	<input type="checkbox"/>
ICD-600	BPH	<input type="text"/>	02/01/2008 <input type="text"/>	<input type="checkbox"/>
ICD-466.0	Bronchitis	<input type="text"/>	02/03/2008 <input type="text"/>	<input type="checkbox"/>
ICD-746.87	Congenital malposition of heart and cardiac apex	<input type="text"/>	02/03/2008 <input type="text"/>	<input type="checkbox"/>
ICD-746.5	Congenital mitral stenosis	<input type="text"/>	02/03/2008 <input type="text"/>	<input type="checkbox"/>
ICD-602.1	Congestion or hemorrhage of prostate	<input type="text"/>	02/03/2008 <input type="text"/>	<input type="checkbox"/>
ICD-032	Diphtheria	<input type="text"/>	02/01/2008 <input type="text"/>	<input type="checkbox"/>
ICD-853.04	hematoma, cranial prolonged unconsciousness	<input type="text"/>	02/03/2008 <input type="text"/>	<input type="checkbox"/>
ICD-642.1	Hypertension secondary to renal disease, complicati	<input type="text"/>	02/04/2008 <input type="text"/>	<input type="checkbox"/>
ICD-055	Measles	<input type="text"/>	02/01/2008 <input type="text"/>	<input type="checkbox"/>
ICD-216.5	Neoplasm, trunk benign	<input type="text"/>	02/01/2008 <input type="text"/>	<input type="checkbox"/>
ICD-413.9	Other and unspecified angina pectoris	<input type="text"/>	02/01/2008 <input type="text"/>	<input type="checkbox"/>
ICD-034.1	Scarlet fever	<input type="text"/>	02/04/2008 <input type="text"/>	<input type="checkbox"/>
ICD-375.52	Stenosis of lacrimal punctum	<input type="text"/>	02/01/2008 <input type="text"/>	<input type="checkbox"/>

Add/Edit Problems

Add Selected Problems

Select All

Prev Form (Ctrl+PgUp)

Next Form (Ctrl+PgDn)

Close

Preload Medications

- ePrescribing -- eg. Allscripts
- EMR -- eg. Amazing Charts
- Load the meds into a SQL database
- Encounter Form extracts data
- MEL_ADD_Medications
 - Problems with NDC code missing
 - JIT NDC cross referencing

Preload Allergies

- ePrescribing
- EMR
- Encounter Forms
 - LLIMPORTALLS
 - MEL_ADD_ALLERGIES

EMR Merge/Divorce

- Use of LinkLogic
 - DemographicsLink export
 - NotesLink export
 - ClinicalKit export
 - SQL queries for Observations
 - SQL queries for Problems/Meds/Allergies
- Use of TableLoader for tables
 - Service providers
 - Referring physicians
 - Insurance Carriers
 - Pharmacies
 - Windows automation for entering data

Interface Agents

- Single function interfaces
 - Quest
 - Meditech/Mercy Hospital Roseburg

Products

- LCC DataLoader™
 - LCC ProblemLoader
 - LCC ProceduresLoader
 - LCC MedsLoader
 - LCC AllergyLoader
 - LCC NotesLoader
- LCC TableLoader™

Lessons Learned

- Backups
- Test preloads and approvals
- Get provider buy in

■ Questions?