



Will Ross, Project Manager

Clinical Data Delivery Service Demonstration

November 19, 2008

Redwood MedNet

Community-based nonprofit rural health information exchange (HIE)

Located two hours north of San Francisco

Established 2005

Lab result delivery launched April 2008

Radiology delivery in pilot testing

Currently in a grant funded startup phase

HIEs in California

CalRHIO

Fresno Healthy Communities Access Partners

Health-e-LA

Long Beach Network for Health

Northern Sierra Rural Health Network

Redwood MedNet

San Diego Medical Information Network Exchange

Santa Cruz County HIE

Redwood MedNet Participants

Clinicians

Hospitals

Service Providers (labs, rads, etc.)

Public Health

(i.e., no consumers & no payers)

HIE Portal Demonstration



An HIE in the rural Mendocino, Lake and Sonoma County region of Northern California



Home Administration

Lab Reports Patients

Lab Report Actions

Refresh List

Announcements

This static site demonstrates the functionality of the Redwood MedNet clinical data results delivery service.

Support / Help

Send questions to support@redwoodmednet.org

Search Lab Reports...

Lab Reports matching Advanced Filter Criteria

No Items found.

Flags	Patient Name	Report ID	Provider	Received	Lab	Tests
Nothing found to display.						

Flag Legend: = Needs Review = Preliminary results = Critical Results = Archived



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Advanced Filter: Reports

Quick searches

Received Anytime: Today: Last 24 hours: Last 48 hours:

Has Critical Result: Contains Non-Final Test: Contains Test For Review: Include Archived Results:

Demographic Criteria

Last Name: SSN:

First Name: Address:

Lab ID: Postal Code:

DOB: Gender:

Report Date Criteria

Reported From: To:

Collected From: To:

Other Criteria

Provider: Sending Lab:

submit cancel

No Items found.

Lab	Tests



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Lab Reports

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Flags	Patient Name	Report ID	Provider	Received	Lab	Tests
	FBATRKOO, JUAN	616232	ESYR, P.	06/18/08 04:03	DLS	PT
	VBHNSJNB, GUADALUPE	536610	ESYR, P.	06/18/08 04:03	DLS	PT
	AOIRZ, JOHN	3003961	JSN, P.	06/18/08 04:03	DLS	CMP
	BYSAB, ROSALBA	616262	ESYR, P.	06/18/08 04:03	DLS	TSH LIP URIC LDH FE ...
	TSBZ, NANCY	615495	ESYR, P.	06/18/08 04:02	DLS	CULTFUN
	HKSOFO, ADAN	536704	ESYR, P.	06/18/08 04:02	DLS	CBC HEL CMP
	KBQSKRZ, OLIVA	3005363	JSN, P.	06/18/08 04:02	DLS	CMP CBC OCC2 BMP OCC...
	WBKFSBABHJNRO, ROSAL...	536657	ESYR, P.	06/18/08 04:02	DLS	CMP TSH
	ZBQOKB, DONNA	535534	JSN, P.	06/18/08 04:02	DLS	LIP
	BKWHRAAO, DEREK	536251	JSN, P.	06/18/08 04:02	DLS	CMP MG CBC
	OKNSZ, JOSE	3005352	JSN, P.	06/18/08 04:02	DLS	CULTBLD CBC
	AOYRABOT, DEVYN	536671	ESYR, P.	06/18/08 04:02	DLS	HSV1 HIV CHPROB GCPR...
	JNRTBKN, MADELINE	536669	ESYR, P.	06/18/08 04:01	DLS	HSV1 HIV GCPRB CHPR...
	FBOO, HIPOLITO	616503	ESYR, P.	06/18/08 04:01	DLS	CRPHS LIP BMP
	AOIRZ, EMELIA	616557	JSN, P.	06/18/08 04:01	DLS	CMP TSH LIP CBC A1C ...
	FBJNKO, ROBERTO	536757	ESYR, P.	06/18/08 04:01	DLS	BNP
	KBQSKRZ, RAFAELA	616508	ESYR, P.	06/18/08 04:01	DLS	LIP
	HOTRKTOT, EMMA	616499	ESYR, P.	06/18/08 04:01	DLS	PT
	TOQSOWHRZ, LILIA	536777	JSN, P.	06/18/08 04:01	DLS	TSH GLU
	VRNNSWB, ROBERT	536751	ESYR, P.	06/18/08 04:00	DLS	ALDL CMP LIP TSH

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Flags	Patient Name	Report ID	Provider	Received	Lab	Tests
	KBQSKRZ, EDUARDO	617011	ESYR, P.	06/18/08 03:54	DLS	CMP TSH LIP URIC LDH...
	QBWTBAROO, MARIA	616809	ESYR, P.	06/18/08 03:54	DLS	A1C
	QFZBB, KATHY	617006	ESYR, P.	06/18/08 03:54	DLS	RA CBC
	KOTKSWHRZ, NOHEMI	537007	ESYR, P.	06/18/08 03:53	DLS	CBC
	BWHSKR, YESENIA	537004	ESYR, P.	06/18/08 03:53	DLS	CMP TSH LIP URIC LDH...
	QFZBB, KATHY	617007	ESYR, P.	06/18/08 03:52	DLS	ESR
	AOIRZ, LEONOR	536725	ESYR, P.	06/18/08 03:51	DLS	CHPROB GCPCROB
	QOKB, JENNIFER	536991	ESYR, P.	06/18/08 03:51	DLS	LEAD
	NBQBBO, ALEJANDRA	536865	ESYR, P.	06/18/08 03:50	DLS	CHPROB GCPCROB
	KBQSKRZ, DOLORES	536775	JSN, P.	06/18/08 03:50	DLS	CHPROB GCPCROB
	BKKRWHSO, RUBEN	537027	ESYR, P.	06/18/08 03:50	DLS	CMP LIP TPSA TSH CBC
	YBKWBJ, NORMA	536864	ESYR, P.	06/18/08 03:49	DLS	CHPROB GCPCROB
	EAOKRJ, ELIA	617098	ESYR, P.	06/18/08 03:49	DLS	URIC LDH FE CBC CMP ...
	WBKFSB, DAVID	537051	JSN, P.	06/18/08 03:48	DLS	A1C CMP LIP
	FOKOOB, ROXANA	537065	JSN, P.	06/18/08 03:48	DLS	CBC TBIL DBIL
	XSQRORZ, FRANCISCA	537039	JSN, P.	06/18/08 03:48	DLS	HEP ANA RA LIP URIC ...
	KOVRKNJ, MARIE	536565	JSN, P.	06/18/08 03:47	DLS	TRIG
	ZSOW, JOHN	537042	JSN, P.	06/18/08 03:47	DLS	URALB A1C LIP TPSA T...
	BQSOS, BEHZAD	537081	ESYR, P.	06/18/08 03:47	DLS	TPSA
	YRKB, CESAR	537102	ESYR, P.	06/18/08 03:46	DLS	TEST TPSA

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Lab Reports Patients

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Report Actions

- Back to List
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- Print Lab Report
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Report General Information

Patient Name	Patient Lab ID	Encounter ID	Date Of Birth	Gender	Phone Number
KBQSKRZ, EDUARDO	044435211	617011	01-01-1999	M	(123) 456-7890

Ordering Provider	Collection Date	Reported Date	Received From Lab	Status
ESYR, PROVIDER ()	05-29-2008 15:51:00	05-29-2008 16:41:49	06-18-2008 03:54:50	F

Clinical Procedure Results

Diagnostic Procedure	Normal	Abnormal	Units	Ref Range	Status	Lab ID
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Performing Labs

CLF12345 - Demo Lab Source - 123 Fake Street Nowhere, CA 91234 US

COMP METABOLIC P14 (3548500)

GAYLE KUTNICK notified FAXED TO ALLIANCE on 5/29/08 at 17:15

GLU		108	mg/dl	70-100	F	CLF12345
BUN	15		mg/dl	7-20	F	CLF12345
CREA	1.1		mg/dl	0.6-1.3	F	CLF12345
NA	140		mmol/L	136-145	F	CLF12345
K	4.0		mmol/L	3.5-5.0	F	CLF12345
CL	102		mmol/L	96-108	F	CLF12345
CO2	28		mmol/L	21-32	F	CLF12345
CA	9.7		MG/DL	8.5-10.7	F	CLF12345
TBIL	0.6		MG/DL	0.1-1.9	F	CLF12345
TPRO	7.4		GM/DL	6.0-8.2	F	CLF12345
ALB	4.2		GM/DL	3.4-5.0	F	CLF12345
AST		156	IU/L	15-37	F	CLF12345
ALT		187	IU/L	30-65	F	CLF12345



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URIC ACID (3548800)

URIC		7.5	MG/DL	2.6-7.3	F	CLF12345
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LDH (3548900)

LDH		231	IU/L	100-190	F	CLF12345
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IRON (3549000)

FE	98		UG/DL	35-150	F	CLF12345
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H PYLORI AB SCREEN (3549100)

HEL	NEGATIVE				F	CLF12345
-----	----------	--	--	--	---	----------

HELICOBACTER SCREEN FOR IGG ABS TO H PYLORI.

COMPLETE BLOOD COUNT (3548400)

WBC		16.1	K/UL	4.0-11.5	F	CLF12345
RBC	4.96		M/CMM	4.10-5.90	F	CLF12345
HGB	15.0		GM/DL	13.8-17.2	F	CLF12345
HCT	45.0		%	41-50	F	CLF12345
MCV	90.8		fL	80.0-99.0	F	CLF12345
MCH	30.4		PG	25-35	F	CLF12345
MCHC	33.4		GM/DL	25-36	F	CLF12345
RDW	14.4		%	11.0-16.0	F	CLF12345
PLT	343		100K	140-450	F	CLF12345
MPV	7.81		fL	6.0-12.0	F	CLF12345
NEU%		83.3	%	37-80	F	CLF12345
ABSNEUT		13.40	K/UL	1.4-9.2	F	CLF12345
LYM%		10.7	%	20-40	F	CLF12345
MONO%	5.16		%	0-12	F	CLF12345
EOS%	0.575		%	0-7	F	CLF12345
BASO%	0.308		%	0-2	F	CLF12345

Demo Lab Source
123 Fake Street
Nowhere, CA 91234, US



Phone: (123) 456-7890
Medical Director: Jon Teichrow

Patient Name	MRN	Encounter Id	Date Of Birth	Sex	Age	Phone No.
KBQSKRZ, EDUARDO	044435211	617011	01/01/1999	M	9 Y	(123) 456-7890
Physician	Received Date	Reported Date	Collected Date	Status	Page	
ESYR, PROVIDER	6/18/2008 3:54	5/29/2008 16:41	5/29/2008 15:51	F	1 of 2	

Diagnostic Procedure	Normal	Abnormal	Units	Ref Range	Status	Site Code
COMP METABOLIC P14 (3548500)						
GAYLE RUTACH notified FAXED TO ALLIANCE on 5/29/08 at 17:15						
GLU		108	mg/dl	70-100	F	CLF12345
BUN	15		mg/dl	7-20	F	CLF12345
CREA	1.1		mg/dl	0.6-1.3	F	CLF12345
NA	140		mmol/L	136-145	F	CLF12345
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CO2	28		mmol/L	21-32	F	CLF12345
CA	9.7		MG/DL	8.5-10.7	F	CLF12345
TBIL	0.6		MG/DL	0.1-1.9	F	CLF12345
TPRO	7.4		GM/DL	6.0-8.2	F	CLF12345
ALB	4.2		GM/DL	3.4-5.0	F	CLF12345
AST		156	IU/L	15-37	F	CLF12345
ALT		187	IU/L	30-65	F	CLF12345
ALKP	84		IU/L	50-136	F	CLF12345
ANIONGAP	10		MEQ/L	10-17	F	CLF12345
GFR	90		ML/MIN	60-125.0	F	CLF12345
TSH HIGHLY SENSITIVE (3548600)						
TSH	1.11		uIU/ML	0.34-4.85	F	CLF12345
LIPID PANEL (3548700)						
CHOL		201	MG/DL	100-200	F	CLF12345
TRIG		221	MG/DL	20-200	F	CLF12345
HDL	42		MG/DL	35-60	F	CLF12345
LDLC	115		MG/DL	40-130	F	CLF12345
IF TRIG >300 MG/DL THE CALCULATED LDL IS NOT VALID AND A DIRECT LDL WILL BE PERFORMED						
%C/HDL	4.8				F	CLF12345
%HDL%	21		%		F	CLF12345
URIC ACID (3548800)						
URIC		7.5	MG/DL	2.6-7.3	F	CLF12345
LDH (3548900)						
LDH		231	IU/L	100-190	F	CLF12345
IRON (3549000)						
FE	98		UG/DL	35-150	F	CLF12345
H PYLORI AB SCREEN (3549100)						

Portal Reality Check

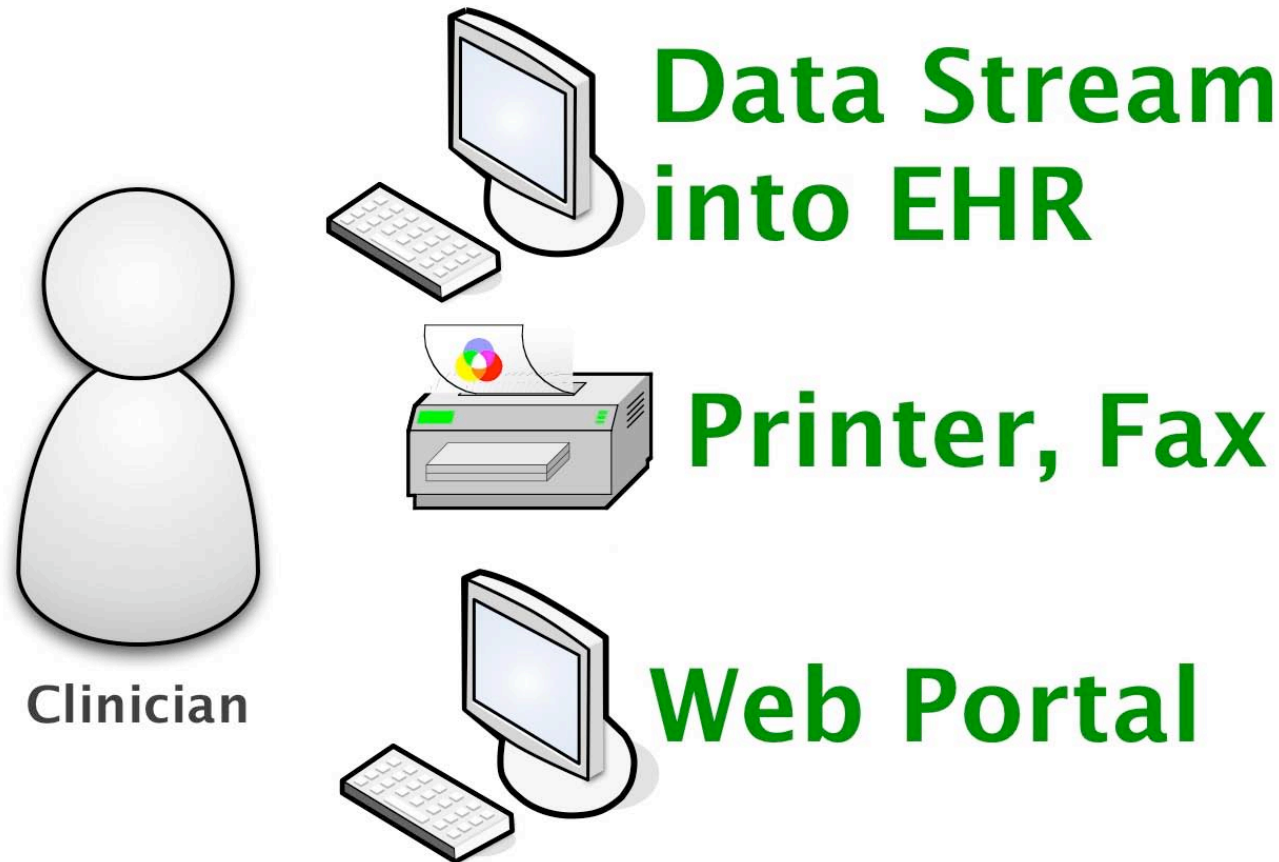
Redwood MedNet is not a web portal

Redwood MedNet is a secure health data delivery service

The Redwood MedNet web portal is just one method of delivering health data

Redwood MedNet also delivers health data by printer and by direct data stream to local healthcare software applications

Electronic Result Delivery



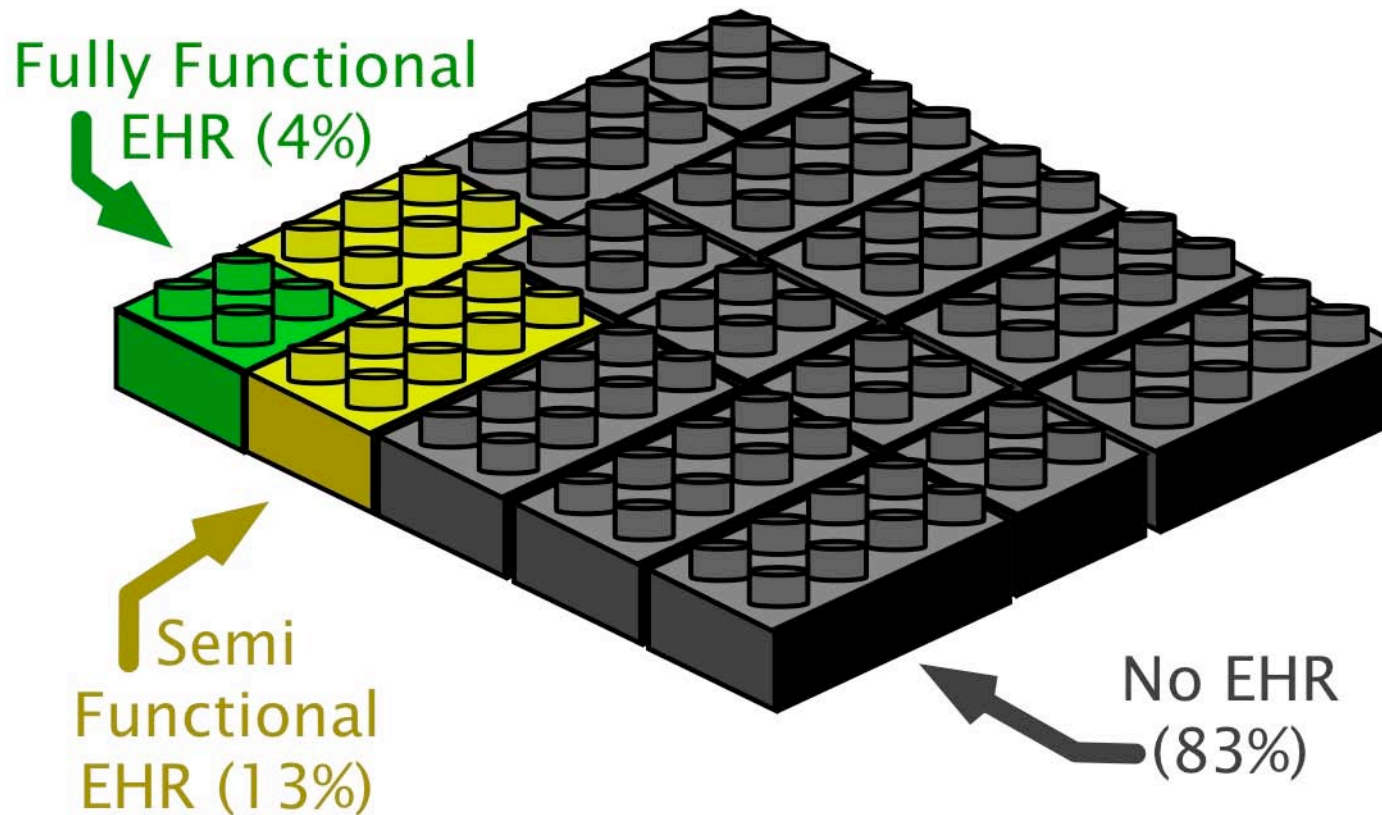
EHR Reality Check

4% of American ambulatory physicians have an extensive, fully functional electronic health record (EHR), while 13% have a basic EHR system

DesRoches, Campbell, Rao, et al., "EHR in Ambulatory Care: A National Survey of Physicians." *New England Journal of Medicine*, July 3, 2008

2008 Survey of American Physicians

NEJM 2008;359:50-60



HIE Clinical Data Delivery Method

