

# EDRN's Validation Study Information Management System

Developed for EDRN by the DMCC









Cancer Biomarkers Group
Division of Cancer Prevention



# VSIMS Enter Page



Validation Study Information Management System

Welcome to the EDRN Validation Study Information Management System (VSIMS). VSIMS is a web based system designed to automate the flow of study procedures at the involved laboratories and to facilitate communication and collaboration among scientists and staff. The system includes a specimen tracking system, a data forms processing system, communication tools and protocol management tools.

Information in VSIMS is confidential and intended solely for authorized investigators and staff.

New User Forgot Password Change Password Upgrade browser

Enter

This site is best viewed with browser version IE 5.01 or NS 7.0 or greater.

# VSIMS: Users & Permissions

User Rights	Permission
Administrator rights	Initiate/update new study. Enter, update, and delete information (excluding participant data) of any study. Read any information from any site in any study.
Key staff rights	Enter, update, delete information (excluding participant data) for a specific site, specific study. Read any information from any site within the study.
Working rights	Enter, update, delete information (excluding participant data) for a specific site within the study. Read any information within the site and study
Master visitor rights	Read any information from any site within the study.
Visitor rights	Read any information within the site and study.

# VSIMS Home Page



An infrastructure for supporting validation studies in the EDRN Sponsored by National Cancer Institute



Protocol: DCP (ID: 111) User: Jackie Dahlgren (Site ID: 5)

Logout Home Back Print VSIMS

Submit Data

**Confirm Eligibility** 

Specimens

Reports

Issue Tracking

Data Transfer

Study Info

Administration >

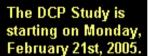
### Study Update - DCP:

The EDRN Validation Study entitled "Validation of Serum Markers for the Early Detection of Hepatocellular Carcinoma" will investigate a new diagnostic test called des-gamma carboxyprothrombin (DCP) for liver cancer <u>Study Overview</u>

#### Documents:

Meeting agenda for November 2-3, 2004
Conference call (specimen tracking) on August 11, 2004
Conference call on August 10, 2004
Conference call on July 27, 2004

### Message Board 🗻



Version 1.1 of the Protocol, Manual of Operations, and bulletins with the revision histories were posted to the website February 16th, 2005. Sites should submit these modifications to their IRB ASAP.

# Current Projects using VSIMS

- MSA
- ODCP
- Breast Standard Specimen Reference Set
- Prostate Standard Specimen
   Reference Set

## Submit Data

- This feature captures all the clinical and epidemiologic data required for a study
- Audit trail
- Built-in edit checks
- Easy access to instructions
- Print copies for site's records

## Submit Data Forms

Protocol: DCP (ID: 111) User: Jackie Dahlgren (Site ID: 5) Logout Home Back Print VSIMS Staff Name: Jackie Dahlgren DCP Role: Master Read Only ■ Early Detection Research Network Validation Study & Reference Set (Baseline Entry) O DCP Consent -1.1 Approved DCP Baseline-1.1 Approved DCP Eligibility -1.3 Approved DCP Lab Results -1.1 Approved DCP Ineligibility-1.0 Approved (EXPIRED) DCP Consent-1.0 Approved (EXPIRED) DCP Baseline-1.0 Approved (EXPIRED) DCP Eligibility-1.0 Approved (EXPIRED) DCP Eligibility-1.1 Approved (EXPIRED) DCP Eligibility -1.2 Approved (EXPIRED) DCP Lab Results-1.0 Approved Submit Home

## CDE Use

**CDE Repository:** 

**Date Consent Signed** 

Date of Birth

Have you ever smoked?

Date of Blood Collection

Study 1

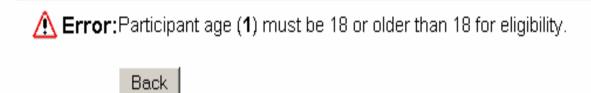
Consent Form **Eligibility** Form

Baseline Form

Consent Form Baseline Form Specimen Collection Form

Study 2

# Built in Edit Check



# View Instruction of Specific CDE

Definitional Attribi	ute							
Document Text: Race (What is your race? Check all that apply.)								
Definition: Major living subspecies of man differentiated by genetic and physical characteristics.								
Representation Attributes								
Representation Code								
Form: Odde Data Type: Character								
		acter						
Format: N/A Maximum Size: 4								
Minimum Size:								
Permissible Value:	List	List Value	Comments	Source				
vuruo.			A person having origins in any					
	1	White	of the original peoples of	NCI				
	'	vvnite	Europe, the Middle East, or North Africa.	Metathesaurus				
	_	Black or	A person having origins in any	NCI				
	2	African-American	of the black racial groups of Africa.	Metathesaurus				
	n	American Indian or	A person having origins in any of the original peoples of North	;NCI				
	3	Alaska Native	Central, or South America, and who maintains tribal affiliations or community attachment A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indidan subcontinent A person naving origins in any					
	7	Native Hawaiian or other Pacific Islander	of the original peoples of Hawaii, Guam, Samoa, or	NCI Metathesaurus				
	97	Other, specify:	other Pacific Islands.					
	99	Unknown/refused	- d - h 15 - 1.5 - 11					
	relati	e: Permissible Values list ed forms.	ed above are specifed for all					
Maximum Value:								
Minimum Value:								
Unit:								
Administrative Att	ribu	te						
Instruction: Choose more than one race if participant is of mixed race. Select all that								
	apply							

# Confirmation Page

Back to List of Forms Home Qx# Form Text Value Entered \* 423 - EDRN Protocol ID (Go 111 To: **422**) (Protocol) # 422 - EDRN Site ID (Go To: 795) (Site) \* 795 - Proposed study group M1 Cases group 1 □ 2 Control Group 2 (Go To: **794**) (Consent) \* 807 - Date of baseline visit: 3/5/05 (Go To: **929**) (Data Collection Date) \* 929 - EDRN Staff ID (Go To: 159 794) \* 794 - Date of birth: (What is 3/5/40 your date of birth?) (Go To: 948) (Demographics) **⊠**n No \* 948 - Does the participant □1 Yes (Go To: **987**) currently have cirrhosis?) □1 Liver histology \* 987 - Cirrhosis diagnosis □2 Judgement of the treating based on: ) physician (Go To: 988) (Liver) \* 988 - Does the participant have an imaging test □1 Yes showing a cirrhotic liver with splenomegaly? (Go To: (Imaging) \* 989 - Does the participant □0 No have a platelet count of less -1 Yes than 120 K/mm3? (Go To: 950) (Labs)

# Confirm Eligibility

 Confirm eligibility of potential participants and assign them to a study arm

 Ineligible Notes display if participant does not meet the eligibility requirements

Participant Status: Confirmed, Pending or Ineligible

# Specimen Tracking System

- Tracks Original Specimen and Associated Children Specimens
- 2-D Barcoding
- Possible Specimen Tracking Data Elements:
  - Specimen ID
  - Participant ID
  - Specimen collection date
  - Participant visit code (e.g. baseline, follow-up)
  - Specimen source (e.g., blood, urine, bone marrow)
  - Specimen stored (e.g., serum, DNA)
  - How specimen processed

- Quantity
- Quantity unit (e.g., ml)
- Lab specimen stored
- Building
- Room
- Refrigerator
- Box
- Column
- Row
- Specimen status (e.g., good, used, defective and reason)

# Specimen Tracking System

- Assay laboratories are blinded to participant information by using a Pair ID number or Specimen ID number that doesn't link back to Participant ID
- All specimens collected in standardized fashion
- Cases and Controls are paired according to matching criteria defined in protocol
- Pull Lists are created and Algorithm Batch Lists are designed for processing lab

# Enter New Specimen

Enter/Update	Original Specimens are the specimens that obtain directly from a participant for an EDRN Validation Studγ or existing specimens that are being provided for an EDRN Validation Studγ.				
<ul> <li>▶ Original Specimen</li> <li>▶ Child Specimen</li> <li>▶ Specimen Update</li> </ul>		Please only enter/scan required <u>Specimen ID</u> s or <u>Participant ID</u> s that have been distributed by			
Processing Questions	The fields with * sign	are required.			
Original Specimen ID *					
Participant ID \star					
Specimen Collection Date *			mm/dd/yyyy		
Specimen Source \star	Blood ▼				
Current Specimen Type *		▼			
Lab Specimen Stored ٭			▼		
Specimen Status \star		▼			
Reason of Defective		<u>-</u>			
Other Reason of Defective					
				Submit	

# Assay Results

Specimen ID *		
Lab Specimen Processed *	<b>V</b>	
Date of Assay *		mm/dd/yyyy
	,	
Locus Values		
D4S243 Informative	•	
D4S243 Test 1	<u> </u>	
D4S243 Test 2		
FGA Informative	Positive Negative	
FGA Test 1	Unknown	
FGA Test 2		
D9S747 Informative	_	
D9S747 Test 1		
D9S747 Test 2	<u> </u>	
D47CCC4 Information		

# Reports (Real-time Study Specific Reports)

- Participant Reports
  - Enrollment
  - Adherence
  - Completeness
- Audit Trail
- Specimen Reports
  - Defective List
  - Specimens Collected
  - Status of Assay Results
  - Pull Lists

# Example of Enrollment Report

### **■** Enrollment Reports

Report Generated on 2/12/2007 at 8:59:49 AM

### **Final Group Status**

	Cases	Contr	ols Control	s Contro	Cases ls& Controls
Site Name	Liver Ca	Disea	sed Cirrhos	Sub is <sub>Total</sub>	Site Total
143-University of Michigan	<u>68</u>	1	<u>81</u>	( <u>82</u> )	<u>150</u>
144-Mount Sinai Hospital	<u>109</u>	1	<u>72</u>	( <u>73</u> )	182
145-Mayo Clinic	<u>43</u>	1	<u>26</u>	( <u>27</u> )	
146-Saint Louis University	<u>41</u>	0	<u>42</u>	( <u>42</u> )	70 83
147-Stanford University	<u>55</u>	0	<u>58</u>	( <u>58</u> )	<u>113</u>
148-University of Pennsylvania	<u>29</u>	0	<u>36</u>	( <u>36</u> )	<u>65</u>
275-Mayo Clinic Jacksonville	<u>14</u>	0	<u>12</u>	( <u>12</u> )	<u>26</u>
Total	<u>359</u>	3	<u>327</u>	( <u>330</u> )	689

# Issue Tracking

- Tracks all correspondence between the study sites and labs and the coordinating center
- Tracks correspondence within the coordinating center (Project Requests linked back to FDA documentation)
- Tracks Data Clarifications

# Inquiry to Coordinating Center

Protocol: DCP (ID: 111)	User: Dahlgren, Jackie ( Site ID: 5 )	Logout Home Back Print VSIM
Report Problem	Issue Tracking System	
Options: ⇒Back to Listing	Inquiry to Coordination Center	
	The fields with * sign are required.	
Date Opened:	1/29/2007	
Study Site:	St. Louis University (Assoc. Member)-146	
Subject: *		
Participant ID: *	Enter "None"if no ID needed.	
Details:*		
Comments:		
Related Attachments:	•	Add Attachment

# Other Components (Data Transfer)

Protocol: DCP (ID: 111)	User: (Site ID: 5		Logout Home Back	Print VSIMS
Menu > Study Data Uplo	oad 🔽		DCP DAT	A TRANSFER
VSIMS users can use this The fields with ∗sign are		le to EDRN DMCC via a secu	re channel.	
Upload File *		Browse		
File Sharing Scope *		▼		
Keywords				
If you choose to share the EDRN DMCC Members Submit	e file with an EDRN D	OMCC member only, please s	pecify from the list:	

# Other Components

### Study Information

- Protocol
- IRB
- Manual of Operations
- Mailing List Subscriptions
- Directory

# Administrative Functions for DMCC

- User Account Manager
- Protocol Manager
- Protocol Registration
- File Manager
- Mailing List Manager
- Login Report
- ID Number Generator

# FDA Compliance

- Category 5 Custom Built Software
- Electronic data stored in 21 CFR Part 11 compliant manner through validation process and SOPs
  - Master Plan, Risk Assessment, Installation-Operational-Performance Qualifications, URS, FS, Program Development Standards & Code Review, Test Cases & Matrix
- Currently satisfies FDA requirements:

# Summary

- Flexibility: Online data entry screens and physical forms are defined by metadata and automatically generated
- Consistency: Common framework results in efficient re-use of Common Data Elements (CDEs)
- Ease of Implementation: Data entry screens and physical forms are created by non-technical staff via a user-friendly interface
- FDA Compliant: Validation Package and SOPs
- Traceability: Full audit trail and versioning

## Thank You

# Jackie Dahlgren DMCC Project Director

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