

CYBER CANCER REGISTRY

NPCR Program Directors' Meeting
May 15 -17, 2007



Outline

- ▣ Background
- ▣ Concept
- ▣ Purpose
- ▣ Project Team & Project Goals
- ▣ Approach
- ▣ Estimated Timeline
- ▣ Questions

Background

Challenges

- ▣ Access to education
 - Limitations on travel
 - Availability of technology
 - Funding resources
- ▣ Complexity of data collection
- ▣ Implementation of changing rules
- ▣ Recruitment and retention of staff

Background

CDC-NPCR Core Values

- ▣ Education is an essential element in data quality, completeness and timeliness
- ▣ Educational content must respond to issues identified through quality assurance activities
- ▣ Education and training must be offered continuously in diverse formats and methods of access

Background

CDC's Role

- ▣ Continue to build education and training capacity within the NPCR central registries
- ▣ Identify gaps in the education infrastructure
- ▣ Provide resources and tools that address the gaps and will benefit the entire cancer surveillance community

Concept : Definitions

- ▣ Education – the act or process of imparting or acquiring knowledge
- ▣ Knowledge – acquaintance with facts, truths, or principles
- ▣ Skill – the ability coming from one's knowledge
- ▣ Ability – Power or capacity to do

Concept

KNOWLEDGE RESOURCES

- ▣ Face to Face Meetings/Workshops
- ▣ Annual Conferences
- ▣ Web Based Training
- ▣ Formal Education
- ▣ Text Books
- ▣ On Line Help Systems

AREAS IN NEED OF DEVELOPMENT

- ▣ Building skills and ability
- ▣ Practice environment for new registrars or for new concepts
- ▣ Internship requirement for formal education programs

Concept

- ▣ Potential Users
 - New employees
 - Current employees developing skills in new concepts or rules
 - Non-hospital reporting facilities
 - Registrars in formal training
 - Users of your data

Purpose

- ▣ Provide a web based system that mimics the cancer registry database structure with real data
- ▣ Give immediate feedback to users in practical exercises to assess the level of competency in registry functions
- ▣ Increasing the quality of formal education in Cancer Registry Management will help enhance the quality of cancer data and address issues of recruitment and retention



PROJECT TEAM



- ▣ CDC
 - Financial resources for the development the web based system infrastructure
 - Subject matter expertise and content
- ▣ NCRA
 - Subject matter expertise and content
- ▣ NPCR Central Cancer Registries
 - Subject matter expertise and content

Project Team

NCRA

- ▣ Lilly Grossman
- ▣ Lori Swain
- ▣ Melissa Pearson
- ▣ Veronica Shrode
- ▣ Donna Gress
- ▣ Louise Schuman
- ▣ Melissa Chandler

Project Team

CDC

- ▣ Sandy Thames
- ▣ Fran Michaud
- ▣ Gayle Clutter
- ▣ Joe Rogers

Northrop Grumman

- ▣ Shannon Orr
- ▣ Julie Hong
- ▣ Minal Agrawal
- ▣ Rich DeSantis
- ▣ Wendy Scharber
- ▣ April Fritz

Project Goals

- ▣ Interactive virtual registry environment for developing and validating registry operations skills and abilities
- ▣ Actual medical records scrubbed of identifiers to provide users a real life registry experience and enhance the learning process

Goals: System Features

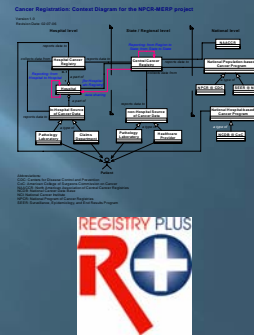
- ▣ Step by step competency tasks for each module
- ▣ Immediate feedback to user
 - ▣ Feedback at each step where user performs an action or data entry
 - ▣ Hyperlinks to reference materials
- ▣ Store and track each user's module activity information
 - ▣ Exercises or operations completed
 - ▣ User scores for each module
 - ▣ # of times user completed practical exercise for each module
 - ▣ # of times user had to retake the competency exercise
 - ▣ # of clinical hours satisfied with completion of practical exercises

Goals: System Features

- ▣ Track user session to allow the user to pick up where they left off
- ▣ Printable certificates after completion of training
- ▣ Online Cyber Library – Registry Plus Online Help
 - ▣ Manuals
 - ▣ Reference guides
 - ▣ Standards guides
 - ▣ Websites
- ▣ Online help
 - ▣ Step by step instructions on how to use the tool

Approach

- ▣ NPCR – MERP models will be referenced for defining the steps of each registry function
- ▣ Registry Plus will be use as the base of the cancer registry database system used in the Cyber Cancer Registry system



Approach

PHASED RELEASES

- ▣ The project will be completed in phases based on the modules representing the core functions of central and hospital cancer registries

MODULES

- ▣ Casefinding
- ▣ *Abstracting*
- ▣ *Record Consolidation*
- ▣ *Editing*
- ▣ *Death Clearance*

Approach

- ▣ A robust and flexible framework will be built during the first phase with other modules to be added in the future

Project Phases	Function	Disease	Function Type
1	Case Finding	Hematopoietic	Manual steps
2	Case Finding	Hematopoietic	Automated steps
3	<i>Abstracting</i>	<i>TBD</i>	<i>TBD</i>
4	<i>Record Consolidation</i>	<i>TBD</i>	<i>TBD</i>

Estimated Timeline (Phase 1)

- ▣ Requirements Analysis: March 07 – June 07
- ▣ Design: June 07 – Sept 07
- ▣ Construction: Sept 07 – March 08
- ▣ Testing: March 08 – April 08
- ▣ Deployment: April 08
- ▣ Maintenance: May 08

Immediate Next Steps

- ▣ Complete the project team
- ▣ Call for cases – casefinding & abstracting
 - Pathology reports
 - Disease Indices
 - Non-hospital records
 - Inpatient medical records

Questions?

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