USING WEB BASED DATA ABSTRACTION IN THE PHYSICIANS’ OFFICES TO IMPROVE CASE COMPLETENESS OF PROSTATE CANCER IN THE CENTRAL CANCER REGISTRY

Reda J. Wilson, MPH, RHIT, CTR
Program Consultant, ORISE Fellow
National Program of Cancer Registries
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Purpose and Objective

• To improve and/or enhance data collection activities in the physicians’ office setting
• Enhance central cancer registries’ ability to collect complete, timely, quality data
• Introduce Web Plus
Need for Project

• Consistent under-reporting
• Prostate leading cancer among men
• Lack of reporting mechanisms
• Current process
Problems with Current Reporting Mechanisms

- Delay 6-9 months to initiate follow-back
- Failure of physicians’ office response
- Increased use of out-of-state pathology laboratories
- Proportion of cases reported by physicians
Response to Need

- Registry Plus
  - Abstract Plus
  - Web Plus
Web Plus

- Web application
- Accessible from public Internet
- SSL digital certificate
Improved Reporting Mechanism

• Efficient, timely, quality reporting mechanism
• Enhance reporting of all urological cancers
• Concept can be applied to other cancers
Process

- Eight central cancer registries (CCR) funded
- Web Plus provided
- CCR identified participating physicians
- Full implementation planned January 2006
Participation Criteria

- States with no or minimal non-hospital reporting,
- States with large rural geographic coverage, or
- States with case completeness between 90-94%
Participating States

- Arkansas
- Georgia
- Idaho
- Missouri
- South Carolina
- South Dakota
- Tennessee
- Wyoming
CCR Activities

- Determine reportable cases
- Identify appropriate staff
- Configure and install Web Plus
- Determine hardware/software requirements
- Determine log-in process
- Identify participating physicians
CCR Activities (cont’d)

- Determine caseload estimates
- Determine estimated FTE requirements
- Determine CCR data processing procedures
- Provide training
- Monitor log-in system
- Management reports
CCR Activities (cont’d)

- Reports to CDC
- Analysis of effectiveness
- SWOT analysis
Benefit to Physicians

• Description of patient load composition
  – Demographics characteristics
  – Tumor characteristics
  – Treatment characteristics
  – Track access to and release of cancer data

• Availability of data for research
Implementation Challenges

- Hardware and software
- Physician and facility identification numbers
- Marketing to physicians
- Collecting specific data items
- Training mechanisms
- Timeline required adjustment
Implementation Challenges

• State organizational structure
• State resources; staff agreement, IT staff
• Configuration of Web Plus to meet state-specific needs
• Limited schedule of conference calls
Software Improvements

• Improved features of Web Plus
  – Data submission file upload
  – Batch editing of data submissions
  – Site-specific stage and treatment tables

• Future enhancements
  – Partial abstracts
  – Individual case editing

• Management reports incorporated into other Registry Plus products
Project Strengths

- Efficient method of data collection
- Identifies areas for software enhancements
- Simplicity of reporting
- More control of database
- Improves completeness and quality
- Reduces CCR costs
- CDC staff flexibility
Project Weaknesses

- Time constraints
- Continued funding
- Physician collaboration, recruitment
- Lack of resources for additional workload
- Using Web Plus application
Project Opportunities

- Improved ability to meet NPCR Program Standards for completeness
- Marketing CCR
- Improved physician collaboration
Project Threats

- Potential physician opposition
- Lack of resources at CCR
- Hospital registrar opposition
Project’s Impact on Participating Registries

• Case finding
• Existing workload
• Training
Project’s Impact on Participating Registries

- Case completeness
- Number of new cases identified
Participating States’ Web Plus Websites

• NPCR
  – User Name: johndoe   Password: abstractor

• Arkansas
  – User Name: johndoe   Password: test123

• Missouri
  – https://webplus.umh.edu/webplus
  – Prostate: UserID: johndoe   Password: test
  – Melanoma: User ID: janedoe   Password: test
Contact Information

• Reda Wilson
  – dfo8@cdc.gov
  – 770-488-3245

• Scott Van Heest
  – sgv1@cdc.gov
  – 770-488-4863

• Sanjeev Baral
  – zkk5@cdc.gov
  – 770-488-1033

• Joe Rogers
  – jdr0@cdc.gov
  – 770-488-4701