Collaborative Staging – How Are We Doing?

Winny Roshala, BA, CTR
Quality Control Specialist
Data Standards and Quality Control Unit
California Cancer Registry

2006 NAACCR Annual Conference
June 14, 2006
Searching for Causes & Cures

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Objectives

- Provide background on CCR visual editing standards and accuracy rates
- Review accuracy rates for selected Collaborative Staging fields for the major cancer sites
- Summarize actions for improvement
CCR Background Information

- Law enacted in 1985 to establish the California Cancer Registry
- Mandatory cancer reporting since 1987
- Ten cancer reporting regions established
- Over 129,000 new cases added annually
- CCR database contains over 1.3 million cancer cases
CCR Visual Editing Standards: Purpose

- Assure high quality data for analysis
- Provide consistency in the visual editing process
- Quantify the accuracy of cancer data from cancer reporting facilities
- Standardize accuracy rates
- Standardize format for reporting rates to registrars/facilities
Discrepancies

■ Defined as the quality or state of being discrepant, i.e., disagreeing, being at variance

■ A discrepancy arises when a more appropriate code should have been selected for a data item based on submitted documentation
Discrepancies

- Discrepancies are counted prior to cases being linked or consolidated
- Each data item is considered one potential discrepancy with the following exceptions:
  - Site/subsite
  - LN’s Pos/Examined
  - Site Specific Factor fields
CCR Visual Editing Standards: Accuracy Rates

- Accuracy Rate Standard: 97%
- Automated software was developed to calculate accuracy rates
- Implemented January 1, 2000 with 100% visual editing on 13 data items
CCR Visual Editing Standards: Calculation of Accuracy Rates

- Percent Discrepant: Number of discrepancies divided by the number of abstracts, multiplied by the number of data items

- Accuracy Rate: 100% less the percent discrepant
CS Implementation

- Conducted 12 training sessions throughout California in 2004
- Posted a Frequently Asked CS Questions document on the CCR web site
- CCR required CS fields: All CS fields except the CS Evaluation fields
“The Learning Curve”

- January - June 2005
- Feedback provided regarding the CCR required CS fields
CS Accuracy Rates

- Accuracy rates for the required CS fields became effective July of 2005
- Same accuracy rate standard of 97% applied
Breast - CS Extension

Accuracy Rate

Month/Year

- May-05
- Jun-05
- Jul-05
- Aug-05
- Sep-05
- Oct-05
- Nov-05
- Dec-05
- Jan-06
- Feb-06
- Mar-06
- Apr-06
Breast - CS Lymph Nodes

Month/Year

Accuracy Rate

94.0%
95.0%
96.0%
97.0%
98.0%
99.0%
100.0%
Breast – Site Specific Factors

- All met the 97% accuracy rate
Colon - CS Tumor Size

Accuracy Rate

Month/Year

May-05 | Jun-05 | Jul-05 | Aug-05 | Sep-05 | Oct-05 | Nov-05 | Dec-05 | Jan-06 | Feb-06 | Mar-06 | Apr-06
Colon - CS Extension

Accuracy Rate

<table>
<thead>
<tr>
<th>Month/Year</th>
<th>Accuracy Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>May-05</td>
<td>89.0%</td>
</tr>
<tr>
<td>Jun-05</td>
<td>91.0%</td>
</tr>
<tr>
<td>Jul-05</td>
<td>92.0%</td>
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<tr>
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</tr>
<tr>
<td>Apr-06</td>
<td>95.0%</td>
</tr>
</tbody>
</table>
Colon - CS Lymph Nodes

Accuracy Rate

Month/Year

- May-05
- Jun-05
- Jul-05
- Aug-05
- Sep-05
- Oct-05
- Nov-05
- Dec-05
- Jan-06
- Feb-06
- Mar-06
- Apr-06

Accuracy Percentage

- 92.0%
- 93.0%
- 94.0%
- 95.0%
- 96.0%
- 97.0%
- 98.0%
- 99.0%
Colon - CS Mets at Dx

Accuracy Rate

99.5%
99.0%
98.5%
98.0%
97.5%
97.0%
96.5%

Month/Year

May-05  Jun-05  Jul-05  Aug-05  Sep-05  Oct-05  Nov-05  Dec-05  Jan-06  Feb-06  Mar-06  Apr-06
Colon – Site Specific Factor 1 - CEA

- Consistently met the 97% accuracy rate
Lung - CS Lymph Nodes

Accuracy Rate

Month/Year

- May-05
- Jun-05
- Jul-05
- Aug-05
- Sep-05
- Oct-05
- Nov-05
- Dec-05
- Jan-06
- Feb-06
- Mar-06
- Apr-06

Accuracy Rate

- 90.0%
- 91.0%
- 92.0%
- 93.0%
- 94.0%
- 95.0%
- 96.0%
- 97.0%
- 98.0%
- 99.0%
Prostate - CS Tumor Size

Accuracy Rate

Month/Year

May-05, Jun-05, Jul-05, Aug-05, Sep-05, Oct-05, Nov-05, Dec-05, Jan-06, Feb-06, Mar-06, Apr-06
Prostate - CS Extension

Accuracy Rate

Month/Year

May-05  Jun-05  Jul-05  Aug-05  Sep-05  Oct-05  Nov-05  Dec-05  Jan-06  Feb-06  Mar-06  Apr-06

98.0%  97.0%  96.0%  95.0%  94.0%  93.0%  92.0%  91.0%  90.0%  89.0%  88.0%
Prostate - CS Lymph Nodes

Accuracy Rate

Month/Year

May-05 | Jun-05 | Jul-05 | Aug-05 | Sep-05 | Oct-05 | Nov-05 | Dec-05 | Jan-06 | Feb-06 | Mar-06 | Apr-06

96.0% | 96.5% | 97.0% | 97.5% | 98.0% | 98.5% | 99.0% | 99.5% | 100.0%
Prostate - CS Mets at Dx

Accuracy Rate

Month/Year

May-05  Jun-05  Jul-05  Aug-05  Sep-05  Oct-05  Nov-05  Dec-05  Jan-06  Feb-06  Mar-06  Apr-06
Melanoma - CS SSF 1 - Measured Thickness, Breslow’s Measurement

Accuracy Rate

Month/Year

May-05  Jun-05  Jul-05  Aug-05  Sep-05  Oct-05  Nov-05  Dec-05  Jan-06  Feb-06  Mar-06  Apr-06
All Sites - CS Extension

Accuracy Rate

Months/Year

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All Sites - CS Lymph Nodes

Accuracy Rate

Month/Year

May-05  Jun-05  Jul-05  Aug-05  Sep-05  Oct-05  Nov-05  Dec-05  Jan-06  Feb-06  Mar-06  Apr-06

95.0%  95.5%  96.0%  96.5%  97.0%  97.5%  98.0%  98.5%  99.0%  99.5%
Summary

- Overall, the data reflects favorable preliminary results for accuracy in the CS fields.
- Most CS fields for the major sites meet the 97% or higher accuracy rate.
- CS Extension continues to be the most challenging field for all sites combined with a 95% overall accuracy rate.
Summary

Follow Up Issues:
- Assess what the issues are in CS fields with accuracy rates below 97%
- Provide additional data clarifications/trainings as needed
- Encourage use of the CCR Inquiry System
- Closely monitor the CS field accuracy rates, specific to the problematic areas
Acknowledgements

- Scott Riddle, Programmer/Analyst, Cancer Surveillance Program, Region 3
- Dan Curran, Systems Support Manager, CNET Solutions
Contact Information

- E-mail address: wroshala@ccr.ca.gov

- CCR web site: www.cccreal.org
  - Click on Registrar Resources - CCR Inquiry System