

Comparison of Directly Coded Summary Stage 2000 and Derived Summary Stage 2000 Using Data from CDC-NPCR for Breast and Colon Cancer Cases

NAACCR
June 6, 2012
Portland, Oregon

Background

- ❑ **Concern over increased workload**
- ❑ **Potentially increased unknown staged cases**
- ❑ **CDC NPCR requires SS2000**
 - *CS Derived (DeSS2000) [3020]*
 - *Summary Stage 2000 (SS2000) [759]*



Purpose

- ❑ **Determine concordance**
 - *Do staging systems agree in classifying stage?*
- ❑ **Determine agreement rate**
 - *What is the overall agreement rate?*
- ❑ **Identify patterns of disagreement**
 - *What is the pattern of disagreement?*



Methods

- ❑ **Three registries submitted cases**
 - *100 female breast cases per state*
 - *100 colon cases per state*
- ❑ **Submitted files archived**
- ❑ **Study file created with blank stage variables**
- ❑ **Two CDC teams of CTRs coded stage**
 - *50% SS2000*
 - *50% DeSS2000*
- ❑ **Tracked DQ issues and time to code stage**
- ❑ **Staged files merged**
- ❑ **Merged file compared to archived file**
- ❑ **CDC SS2000 compared to CDC DeSS2000**

Data Quality Results

- ❑ **Insufficient text most common**
- ❑ **Incorrect histology code**
- ❑ **Incorrect behavior code**
- ❑ **Contradicting text**
 - *T reported in text did not match path description*
 - *Biopsy = transcending colon, resection = ascending colon*
- ❑ **Regional nodes positive/examined codes transposed**
- ❑ **ORTAT data quality issues**



Time Results

□ Summary Stage 2000

- *Mean* 3.4 minutes/case
- *Median* 4 minutes/case
- *Mode* 4 minutes/case
- *Range* 1-12 minutes/case

□ Derived Summary Stage 2000

- *Mean* 4 minutes/case
- *Median* 3.5 minutes/case
- *Mode* 4 minutes/case
- *Range* 1-45 minutes/case

Results

- ❑ **Percent agreement by state**
 - *Overall ranged 75-87% (combined 81%)*
 - *Breast ranged 86-89% (combined 88%)*
 - *Colon ranged 61-84% (combined 74%)*
- ❑ **Disagreement by stage**
 - *Highest Unknown and Regional*
- ❑ **Disagreement by subsite**
 - *Breast relatively consistent, except C50.4*
 - *Colon highest ascending followed by sigmoid*
- ❑ **Agreement between reported/recoded DeSS00**
 - *Breast 93%*
 - *Colon 68%*



Conclusions

- ❑ **Higher CS regional stage & fewer unknown stage probably due to TNM text statements**
- ❑ **Lower agreement throughout evaluation probably due to insufficient or poor quality text**
- ❑ **Lower agreement direct SS2000 colon cases probably due to insufficient documentation**
 - *Ascending colon*
 - *Rt lobe liver regional, not distant*
 - *Documentation often unclear which lobe*
- ❑ **Small case sample & insufficient text not fully representative of “real” world**



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*The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the
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