



NPCR Education and Training Series (NETS)

Module 4: The Value of Accurate Text in Cancer Registry

**Prepared by Scientific Applications International Corporation (SAIC)
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**Centers for Disease Control and Prevention
National Program of Cancer Registries
Atlanta, Georgia
www.cdc.gov/cancer/npcr**



The Value of Accurate Text in Cancer Registry



Using 2007 Multiple Primary and
Histology Coding Rules

Purpose of Standardized Data

◆ Consistency

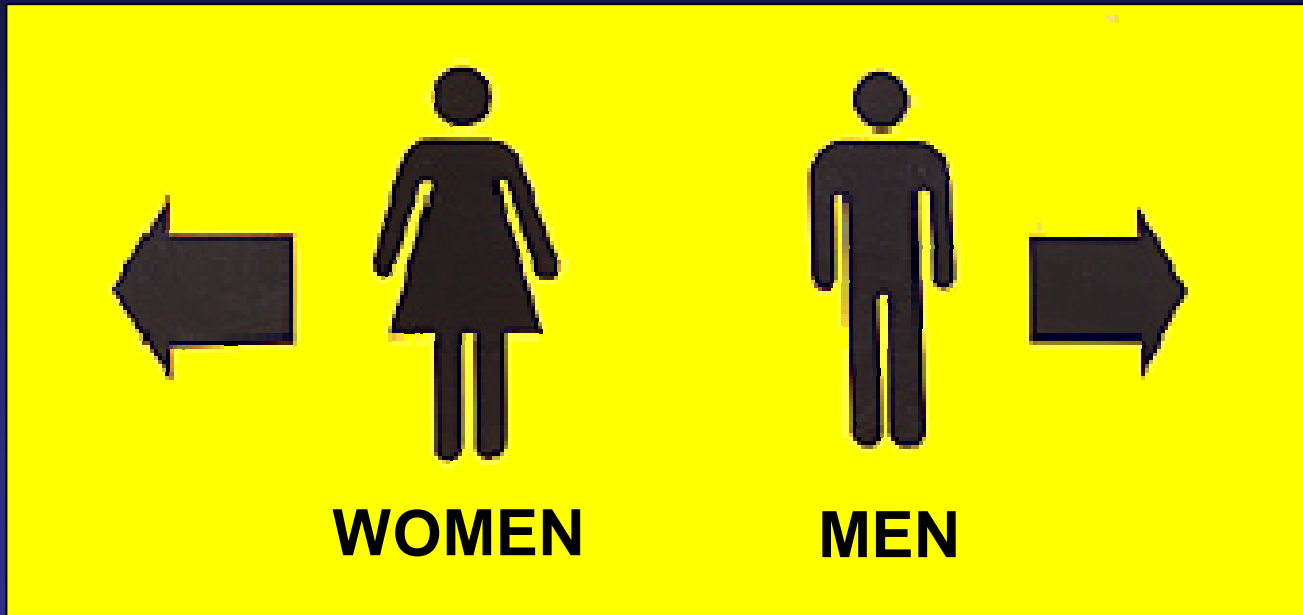
- Monitor patient trends
- Observe referral patterns
- Allocate resources

Importance of Standardized Data

◆ Data Collection

- Required data sets
- Research
- Marketing
- Future data requests
- Special studies
- Avoiding “unknowns”

Codes vs. Supporting Text



Resolving Coding Discrepancies

◆ Compare information

- Hospital #1 – Patient J.R. Race: 01 White
- Hospital #2 – Patient J.R. Race: 02 Black
- Hospital #3 – Patient M.P. C504 2 Left
- Hospital #4 – Patient M.P. C504 1 Right

NAACCR Standards – Supporting Text

◆ Standard 3.2.2 – Data Text

● Text information should be:

- ◆ included in the registry's dataset
- ◆ transmitted along with codes when tumor records are shared with other registries.

Ambiguous Terms¹

◆ Diagnostic of cancer

- Consistent with
- Favor (s)
- Most likely
- Presumed
- Probable
- Suspect (ed)
- Suspicious (for)
- Typical (of)

¹ www.seer.cancer.gov

Ambiguous Terms¹

Cases Diagnosed 1/1/1998 or later

◆ Diagnostic of cancer

- Appears
- Comparable with
- Compatible with
- Malignant appearing

¹ www.seer.cancer.gov

Ambiguous Terms²

◆ NOT diagnostic of cancer

- Equivocal
- Possible
- Questionable
- Suggests
- Worrisome
- Cannot be ruled out
- Rule (d) out
- Potentially malignant

² www.seer.cancer.gov

Purpose of Text

- ◆ **Defensive abstracting**
- ◆ **Unusual occurrences**
- ◆ **Edit check verification**
- ◆ **Recoding audits**
- ◆ **Researcher use**
- ◆ **Facility use**
- ◆ **Re-abstraction of historical data**

Purpose of Text

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- ◆ **Facility use**
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MCR PERFORMS 100% VISUAL REVIEW OF ALL CASES IN "PREP PLUS"

Prep Plus In-Process from raw bundle

File Configure Help

BDITS Config

AbsRefID: 1433776 Prev Next

Abstract Sections: Demographic Display Types: GenericV11

Field Title	Field Value
MorphCodSysCur	
MorphCodSysOrg	
Date1stCont	08/11/2006
DxDate	08/11/2006
AgeDx	080
SiteCodSysCur	
InPtAdmDate	
InPtDischDate	
PSite	C182
Lateral	0
HistTypelCDD3	8140
BehaviorlCDD3	3
Grade	2
DxConf	9
RegNodExam	99
RegNodPos	99
Phy_Iname_MD	
Phy_Iname_MD	
Phy_mname_MD	W
Phy_Speciality_MD	GASTROENTEROLOGIST
CSTumorSize	
CSExt	
CSSizeExtEval	
CSLymphNodes	
CSNodesEval	
CSMetsDX	
CSMetsEval	
CSSSF1	
CSSSE2	

Current Value: Physician First Name (MD)

Erase Value

No Choice List for This Field

Ok Cancel Field Context Help

Disposition EDITS Edit Info Projects Text

Release In Process 41 Abort Bundle

Current Record: Hold, Mark for Release, Reject

All Records: Hold All, Mark All, Reject All

Counts: 0, 0, 0

All Records: Unhold, Unmark, Unreject

System set for visual editing. 09/21/2007 DGC REGISTRY Plus

Start Yahoo! Mail - bitnzwoman... Microsoft PowerPoint - [P...] Prep Plus In-Process f... 2:51 PM

CENTERS FOR DISEASE CONTROL AND PREVENTION

MCR CHECKING THE ERRORS

Prep Plus In-Process from raw bundle

File Configure Help

EDITS Config

AbsRefID: 1433776

Abstract Sections: Demographic

Display Types: GenericV11

Field Title	Field Value
MorphCodSysCur	
MorphCodSysOrg	
Date1stCont	08/11/2006
DxDate	08/11/2006
AgeDx	080
SiteCodSysCur	
InPtAdmDate	
InPtDischDate	
PSite	C182
Lateral	0
HistTypeICD03	8140
BehaviorICD03	3
Grade	2
DxConf	9
RegNodExam	99
RegNodPos	99
Phy_Iname_MD	
Phy_Iname_MD	
Phy_mname_MD	W
Phy_Speciality_MD	GASTROENTEROLOGIST
CSTumorSize	
CSExt	
CSSizeExtEval	
CSLymphNodes	
CSNodesEval	
CSMetsDX	
CSMetsEval	
CSSSF1	
CSSSF2	

Physician First Name (MD)

Select New Value

No Choice List for This Field

Ok Cancel

Field Context Help

Disposition EDITS Edit Info Projects Text

Edit Results [Error Count = 14]

Morph Coding Sys--Current must equal 2-7 for this metafile

Error: Morph Coding Sys--Current (NAACCR)

Fields Involved

Morph Coding Sys--Current = <BLANK>

Errors Navigation

Records	Error Msgs
41	553

Prev Next

System set for visual editing.

09/21/2007 DGC REGISTRY Plus

Start Yahoo! Mail - bitnzwoman... Microsoft PowerPoint - [P...] Prep Plus In-Process f... 2:52 PM

LOOKING FOR TEXT FIELDS IN PREP PLUS

The screenshot shows the 'Prep Plus In-Process from raw bundle' application window. The interface includes a menu bar (File, Configure, Help), a toolbar with icons for file operations and configuration, and a main workspace. On the left, there is a table of fields and their values. The 'Physician First Name (MD)' field is highlighted in blue. On the right, a search dialog is open for this field, showing a list of choices. The 'Text Dx' tab is selected, and the list includes 'Dx Proc--PE', 'Dx Proc -- X ray/scan', 'Dx Proc -- Scopes', 'Dx Proc -- Lab Tests', 'Dx Proc --Op', '*Dx Proc --Path', '*Primary Site Title', '*HistologyTitle', and 'Staging'. The 'Current Value' field is empty, and the 'Erase Value' button is visible. The 'Field Context Help' button is also present. The bottom status bar shows the system is set for visual editing, with the date 09/21/2007 and the user DGC. The taskbar at the bottom shows the Start button and several open applications: Yahoo! Mail, Microsoft PowerPoint, and Prep Plus In-Process.

AbsRefID: 1433776

Abstract Sections: Demographic

Display Types: GenericV11

Field Title	Field Value
MorphCodSysCur	
MorphCodSysOrg	
Date1stCont	08/11/2006
DxDate	08/11/2006
AgeDx	080
SiteCodSysCur	
InPtAdmDate	
InPtDischDate	
PSite	C182
Lateral	0
HistTypeICD03	8140
BehaviorICD03	3
Grade	2
DxConf	9
RegNodExam	99
RegNodPos	99
Phy_iname_MD	
Phy_iname_MD	
Phy_mname_MD	W
Phy_Specialty_MD	GASTROENTEROLOGIST
CSTumorSize	
CSExt	
CSSizeExtEval	
CSLymphNodes	
CSNodesEval	
CSMetsDX	
CSMetsEval	
CSSSF1	
CSSSE2	

Physician First Name (MD)

Current Value

No Choice List for This Field

Field Context Help

Disposition | EDITS | Edit Info | Projects | **Text**

* Text Dx | * Text Bx | Misc.

- Dx Proc--PE
- Dx Proc -- X ray/scan
- Dx Proc -- Scopes
- Dx Proc -- Lab Tests
- Dx Proc --Op
- *Dx Proc --Path
- *Primary Site Title
- *HistologyTitle
- Staging

0%

System set for visual editing.

09/21/2007 DGC REGISTRY Plus

Start | Yahoo! Mail - bitnzwoman... | Microsoft PowerPoint - [P... | Prep Plus In-Process f... | 2:52 PM

MCR TRYING TO MAKE THE CALL

Prep Plus In-Process from raw bundle

File Configure Help

EDITS Config

AbsRefID: 1433894 [Prev] [Next]

Abstract Sections: Demographic [v] Display Types: GenericV11 [v]

Field Title	Field Value
BehaviorCDO3	3
Grade	2
DxConf	1
RegNodExam	17
RegNodPos	05
Phy_iname_MD	OYOGOIA
Phy_iname_MD	SYLVANUS
Phy_mname_MD	0
Phy_Specialty_MD	UNK
CS Tumor Size	047
CSExt	42
CSSizeExtEval	3
CSLymphNodes	20
CSNodesEval	5
CSMetsDX	00
CSMetsEval	0
CSSSF1	999
CSSSF2	888
CSSSF3	888
CSSSF4	888
CSSSF5	888
CSSSF6	888
CSVer1st	010100
CSVerLatest	010300
SEERSumStg1977	
SEERSumStg2000	7
DerivedSS2000	4
ICD03ConvFlag	0
FirstBxDateCDC	05/12/2005

Current Value: CS Tumor Size

Select new value [Erase Value]

Press F4 for pick list.

[Ok] [Cancel] [Field Context Help]

Disposition EDITS Edit Info Projects Text

* Text Dx * Text Rx * Misc.

- *Dx Proc--PE
- Dx Proc -- X ray/scan
- *Dx Proc -- Scopes
- Dx Proc -- Lab Tests
- Dx Proc --Op
- *Dx Proc --Path**
- *Primary Site Title
- *HistologyTitle
- *Staging

5/3/05 INVASIVE ADENOCARCINOMA. 5/12/05 INFIL. MOD. DIFF. ADENOCARCINOMA OF CECUM.

34%

System set for visual editing.

09/21/2007 DGC REGISTRY Plus

Start | Yahoo! Mail - bi... | Inbox for donn... | Prep Plus In-... | Registry Plus O... | My Documents | Microsoft Powe... | 7:55 AM



RefID: 1547794

Prev Next

Contract Sections
 Anatomic

Display Types
 GenericV11

Field Title	Field Value
DischDate	99/99/9999
Site	C187
General	0
ICDTypeCDO3	8140
ICDBehaviorCDO3	3
Side	1
Conf	1
Exam	00
Pos	98
PhysicianName_MD	ZAKALUZNY
PhysicianName_MD	IHOR
PhysicianName_MD	
PhysicianSpecialty_MD	GNSG
TumorSize	999
Ext	16
SizeExtEval	1
LymphNodes	99
NodesEval	1
MetsDX	99
MetsEval	1
SSF1	999
SSF2	999
SSF3	888
SSF4	888
SSF5	888
SSF6	888
Ver1st	010401
VerLatest	010300

CS Site-Specific Factor 2

Current Value
 888

Select New Value Erase Value

Press F4 for pick list.

Ok Cancel

Field Context Help

Disposition EDITS Edit Info Projects Text

* Text Dx Text Rx *Misc.

- 'Dx Proc--PE
- Dx Proc -- X ray/scan
- Dx Proc -- Scopes
- Dx Proc -- Lab Tests
- *Dx Proc --Op**
- 'Dx Proc --Path
- 'Primary Site Title
- 'HistologyTitle
- Staging

1/16/08 SNARE POLYPECTOMY

RefID: 1547794

Prev Next

Contract Sections
 Anatomic

Display Types
 GenericV11

Field Title	Field Value
DischDate	99/99/9999
Site	C187
General	0
ICDType3	8140
ICDType3	3
Side	1
Conf	1
Exam	00
Pos	98
Physician MD	ZAKALUZY
Physician MD	IHOR
Physician MD	
Specialty MD	GNSG
TumorSize	999
Ext	16
SizeExtEval	1
LymphNodes	99
NodesEval	1
MetsDX	99
MetsEval	1
SSF1	999
SSF2	999
SSF3	888
SSF4	888
SSF5	888
SSF6	888
Ver1st	010401
VerLatest	010300

CS Site-Specific Factor 2

Current Value
 888

Select New Value Erase Value

Press F4 for pick list.

Ok Cancel

Field Context Help

Disposition EDITS Edit Info Projects Text

* Text Dx Text Rx *Misc.

- *Dx Proc--PE
- Dx Proc -- X ray/scan
- Dx Proc -- Scopes
- Dx Proc -- Lab Tests
- *Dx Proc --Op
- *Dx Proc --Path**
- *Primary Site Title
- *HistologyTitle
- Staging

1/16/08 08:SU955 SIGMOID COLON POLYPECTOMY: WD ADENOCA WITH INTRAMUCOSAL & FOCAL INVASION THRU MUSCULARIS MUCOSA INTO SUBMUCOSA. ASSOC TUBULAR ADENOMA WITH SEVERE DYSPLASIA & ADENOCA IN-SITU FINAL PATH: ADENOCARCINOMA IN TUBULAR ADENOMA

Validating Codes with Text

- ◆ What is important?
- ◆ Defines who, what, when and where
- ◆ Example:
 - Description of code(s)
 - ◆ 2/10/07 Date of diagnosis
 - ◆ BF 40 y/o black, non-Hispanic female
 - ◆ C504 Upper outer quadrant of breast
 - ◆ /2 Behavior code for in situ
 - ◆ 8500 Histology code infil ductal ca

Supporting Text

- ◆ Date of birth (year)
- ◆ Sex
- ◆ Race
- ◆ Hispanic origin
- ◆ Tumor markers
- ◆ Primary site
- ◆ Laterality
- ◆ Histology/behavior
- ◆ Grade/differentiation

Supporting Text

- ◆ Tumor size
- ◆ CS Extension
- ◆ CS LNS
- ◆ Regional LNS positive and examined
- ◆ CS Mets at Dx
- ◆ Site-specific factors 1–6
- ◆ Operative reports
- ◆ Treatment modalities
- ◆ Follow-up and recurrence

Examples of Validating Codes with Text

- ◆ Patient demographic codes:
 - Race code: 02
 - Hispanic code: 0
 - Sex code: 2

- ◆ Patient demographic text:
“B/F, non Hispanic”

Examples of Validating Codes with Text

◆ Cancer ID and stage codes

- Primary site: C341
- Histology: 8140
- Behavior: /3
- Grade: 2
- Tumor size: 020
- Laterality: 1
- Regional LNs positive: 00
- Regional LNs examined: 03

Examples of Validating Codes with Text

- ◆ **Cancer ID and stage pathology text**
 - **8/7/2007: Lobectomy of the right upper lobe lung reveals a moderately differentiated invasive adenocarcinoma measuring 2cm in greatest diameter. Three hilar lymph nodes are removed and are negative for carcinoma. Margins are negative.**

Examples of Validating Codes with Text

◆ Abbreviated text :

- 8/7/2007: Lobectomy RUL lung: mod diff inv adenoca. TS 2cm. 3 hilar LN removed, neg for ca. Margins neg.

Examples of Validating Codes with Text

- Procedure: 30 – Lobectomy
- Primary site: C341 – RUL lung
- Histology: 8140 – adenoca
- Behavior: /3 – malignant
- Grade: 2 – MD
- Tumor size: 020 – 2cm
- Laterality: 1 – rt
- Regional LNS positive: 00 – 00/03
- Regional LNS examined: 03 – 00/03
- Margins: 0 – margins neg.

Facility-specific Documentation

◆ Facility-specific information

- Medical record number: 548528
- Date of admission: 8/3/2007
- Date of discharge: 8/8/2007
- Hospital number: 625007- Medical Center
- Class of case: 1 – Dx and tx here
- Insurance: 60 – Medicare

Examples of Validating Codes with Text

- ◆ **First course treatment information**
 - **Surgery primary site: 22 – Lumpectomy**
 - **Scope LNS surgery: 2 – SLN Bx**
 - **Chemotherapy: 87 – Refused**
 - **Radiation therapy: 7 – Refused**
 - **Date hormone tx: 07/10/07**
 - **Hormone therapy: 01 – Administered**

Examples of Validating Codes with Text

◆ Follow-up and recurrence

- Type last tumor follow-up: 01 – Readmit
- Vital status: 1 – Alive
- Recurrence type: 00 – None/disease-free

NAACCR-Approved Abbreviations³

- ◆ Adenoca: Adenocarcinoma
- ◆ Ant: Anterior
- ◆ Bil: Bilateral
- ◆ Ca: Carcinoma
- ◆ Cont: Continue
- ◆ Dz: Disease
- ◆ Dx: Diagnosis
- ◆ Exc: Excision

³ www.naaccr.org

NAACCR-Approved Abbreviations

- ◆ Lg – Large
- ◆ Mets – Metastatic, Metastases
- ◆ Rx – Treatment
- ◆ Sx – Symptoms
- ◆ Tx – Treatment
- ◆ W/ – With
- ◆ W/O – Without
- ◆ W/U – Workup

NAACCR-Approved Symbols

- ◆ @ At
- ◆ / Comparison
- ◆ < Less than, decrease
- ◆ = Equals
- ◆ > Greater than, increase
- ◆ - Negative
- ◆ + Positive
- ◆ x Times

Context-Sensitive Abbreviations

◆ Use carefully

- AP Anteroposterior; Abdominal perineal
- BM Bone marrow; Bowel movement
- CA Carcinoma; Calcium
- MIN Minimum; Minute
- ML Middle lobe; Milliliter
- MM Multiple myeloma; Millimeter
- PAP Papillary; Papanicolaou smear
- PT Patient; Physical therapy
- RT Right; Radiation therapy
- SCC Small cell carcinoma; Squamous cell carcinoma

Documentation in the Abstract

◆ Codes

● Race	01
● Sex	2
● Primary site	C343
● Histology/Behavior	8070/3
● Grade	3
● Surgery	30
● Chemotherapy	03
● Follow-up cancer status	1

Documentation in the Abstract

◆ Text

- Race: black
- Sex: female
- Primary site: upper outer quadrant breast
- Histology: ductal carcinoma, in situ
- Laterality: left
- Surgery: lumpectomy
- Hormone: hormone therapy administered
- Cancer status: no evidence of this tumor

Documentation in the Abstract

◆ Required fields with text

- Primary site: C341 – ~~lung right upper lobe~~
RUL lung
- Histology: 8140 – ~~adenocarcinoma~~
- Behavior: /3 – ~~malignant~~
- Grade: 2 – ~~moderately differentiated~~
- Tumor size: 020 – **TS 2cm** ~~in size~~
- Laterality: 1 – ~~right~~ **Rt**
- Regional LNS positive: 00 – none
- Regional LNS examined: 03 – three

Documentation in the Abstract

◆ Final abstract

- Codes and text provide information on the patient and the patient's disease
- Either should derive the same outcome
- Text should be concise and pertinent
- Use only approved abbreviations
- Codes provide universal language for data retrieval

Helpful Hints for Abstracting

- ◆ Document the information that led to the assignment of a particular code
 - C619 – Prostate gland
- ◆ Document in the appropriate area in the abstract
- ◆ Do not duplicate information
- ◆ Document what you know; do not make assumptions

Visual Editing

◆ Self-editing

- Reread your abstract without the supporting documents

◆ Central registry editing

- Visual editing

- Major versus minor errors

- ◆ Major error: 8140 instead of 8500

- ◆ Minor error: Colon CS ext 15 instead of 14

Visual Editing

◆ Can improve abstracting skills and improve data quality through

- Self-editing
- Central registry editing
- Departmental editing

Summary

- ◆ Provide text for all required fields using approved abbreviations to support codes being documented within the abstract.
- ◆ Perform visual editing of the abstract to validate the correct use of the codes and text provided.

IN CLOSING:

C.Y.A.

C.Y.A. MEANS:

C= COVER

Y= YOUR

A= ABSTRACT

**DOCUMENT...DOCUMENT...DOCUMENT
T**

**For information about CDC's
Cancer Prevention and Control Programs
and the
National Program of Cancer Registries**

Please visit

www.cdc.gov/cancer/npcr

