

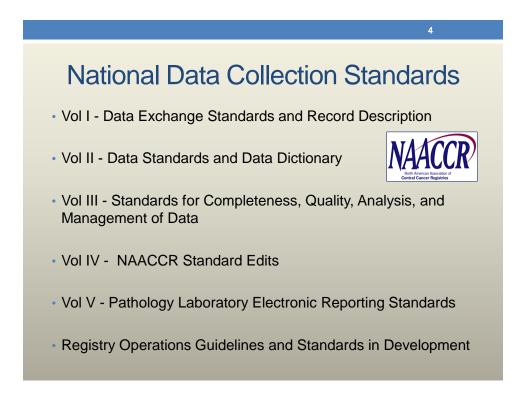
### **Continuing Education Hours**

NCRA CEU #	Date(s)	Event	Spons or	CEU Hrs
2012-065	7/26/2012 - 7/27/2012	FCDS Annual Conference, St Petersburg, FL	FCDS	9
2012-155	8/16/2012	FCDS Webcast Series: "What's New for 2012 and More - Annual Meeting Review"	FCDS	2
2012-156	1/8/2013	FCDS Webcast Series: "FCDS Learning Management System	FCDS	2
2012-157	10/18/2012	FCDS Webcast Series: "GYN Neoplasms-Background/Anatomy/Risk Factors/MPH Rules/CS02.04/SSF/Tx	FCDS	2
2012-158	12/13/2012	FCDS Webcast Series: "Improving Data Quality Using FCDS EDITS and Data Quality Reports"	FCDS	2
2012-159	1/17/2013	FCDS Webcast Series: "Pediatric Neoplasms Intro - Background/Anatomy/Risk Factors/MPH Rules/CSv02.04/SSF/Tx"	FCDS	2
2012-160	2/21/2013	FCDS Webcast Series: "Genitourinary Neoplasms - Background/Anatomy/Risk Factors/MPH Rules/CSv02.04/SSF/Tx"	FCDS	2

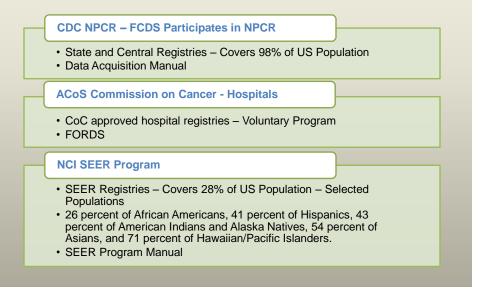
"Proposed" Spring Mini-Series - Pediatric Neoplasms

- Part I Pediatric Brain and CNS Tumors
- Part II Pediatric Myeloid and Lymphoid Neoplasms
- Part III Pediatric Sarcoma





# **Rule Makers for National Data Collection**





# NPCR Program Standards, 2012-2017

- Data being evaluated for the Advanced National Data Quality Standard (formerly known as the <u>12-Month Standard</u>), must meet the following data quality criteria:
  - Data are 90% complete based on observed-to-expected cases as computed by CDC.
  - There is a 2 per 1,000 or fewer unresolved duplicate rate
  - The maximum percent missing for critical data elements are:
    - 3% age
    - 3% sex
    - 5% race
    - 3% county
  - 97% pass a CDC-prescribed set of standard edits.

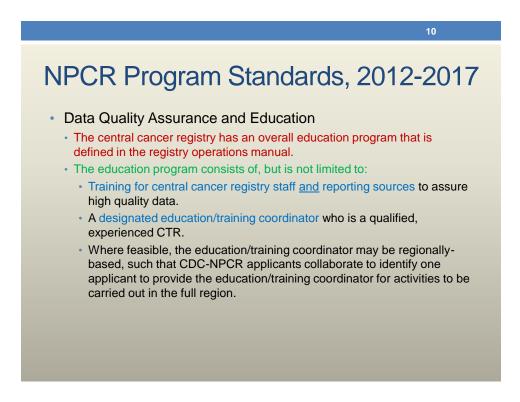


- Data being evaluated for the National Data Quality Standard (formerly known as the <u>24-Month Standard</u>), must meet the following five data quality criteria:
  - Data are <u>95% complete</u> based on observed-to-expected cases as computed by CDC.
  - There are 3% or fewer death-certificate-only cases.
  - There is a 1 per 1,000 or fewer unresolved duplicate rate.
  - The maximum percent missing for critical data elements are:
    - 2% age
    - 2% sex
    - 3% race
    - 2% county
  - 99% pass a CDC-prescribed set of standard edits

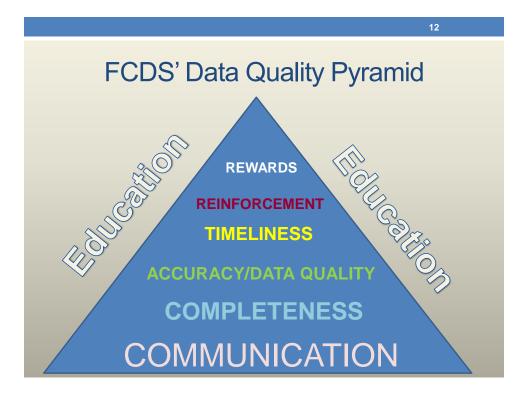
# NPCR Program Standards, 2012-2017

#### Data Quality Assurance and Education

- The central cancer registry has an overall program of quality assurance that is defined in the registry operations manual.
- The quality assurance program consists of, but is not limited to:
  - A designated certified tumor registrar (CTR) responsible for the quality assurance program.
  - Quality assurance activities should be conducted by qualified experienced CTR(s) or CTR-eligible staff.
  - At least once every 5 years, a combination of case-finding and reabstracting audits from a sampling of source documents are conducted for each hospital-based reporting facility, and may include external audits by CDC or SEER.
  - Data consolidation procedures are performed according to the central cancer registry protocol and nationally accepted abstracting and coding standards as available.
  - Audits of a routine sample of consolidated cases at the central cancer registry.
  - Feedback is provided to reporting sources on data quality and completeness.







# Foundation - Communication/Education

- Technical Answers by Telephone or E-mail
- Email (E-Mail Blast for Urgent or Timely Information)
- · Email (Individual for questions or if you are having problems)
- FCDS IDEA (QC Review, Edits/Corrections, Documentation)
- FCDS RECAP FCDS Internal Tool for Data Processing
- FCDS Monthly Memo now every-other month
- FCDS Register FCDS' Quarterly Newsletter
- FCDS On-Line Abstractor Training Course
- FCDS Annual Meeting face-to-face
- FCDS Web Broadcasts



#### Goals:

- Population-Based Reporting
- Highest Quality Data Possible
- · Confidentiality, Privacy, Data Security

#### Objectives:

- Improve Communications
- Improve Feedback Loop
- Improve Completeness
- Improve Timeliness
- Improve Data Quality
- Improve Usefulness
- Improve Reports
- Improve Education
- Improve Training





# FCDS Data Quality Program - Goals

- · Establish, perform, manage Quality Improvement/Quality Control projects
- · Apply national and internal standards for data collection, aggregation, etc
- · Systematically measure performance against those standards
- Develop measurement and evaluation tools
- Assess outcomes and performance measures
- Develop quality enhancement strategies
- Assess registry needs and satisfaction
- Monitor quality of data
- · Provide education and training to improve data quality



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### FCDS Data Quality Program - Methods

- Florida Cancer Reporting Legislation
- Florida Public Health Administration Rules
- FCDS Policy and Procedures (FCDS DAM)
  - Internal Policy and Procedures
  - External Policy and Procedures
  - Monitoring Data Quality and Performance
- Quality Assurance / Quality Improvement Activities
  - Monitor operations workflow and data quality and take action to improve future quality, maximizing correct reporting and characterizing the reporting process in measurable terms.
- Perform External Linkage to Improve Data
  - Obtain and/or validate data items by linking central cancer registry databases with clinical and non-clinical state and national databases
    - Using death certificate data to add missing vital status and race
    - Using claims data to complete first course of treatment data



# FCDS Data Quality Program - Methods

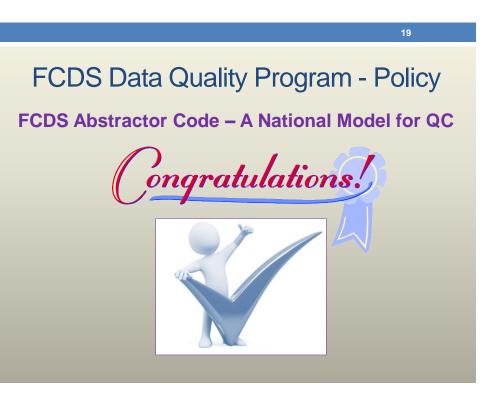
- FCDS Policy
  - FCDS Abstractor Code Requirement
  - FCDS EDITS Requirement
  - Text Documentation Requirement
  - · Deadlines and IT Security
- FCDS Procedures
  - FCDS IDEA Communication/Transmission
  - FCDS Internal Data Processing Monitoring
  - FORCES/CORRECTIONS/DELETIONS
  - Patient and Tumor Linkage & Consolidation
- FCDS Monitoring / Audits
  - Audits for Completeness
  - · Audits for Timeliness
  - Audits for Accuracy
- FCDS Data Quality Reports
  - Quarterly/Annual Status Reports
  - Ad Hoc Reports
  - Audit Results

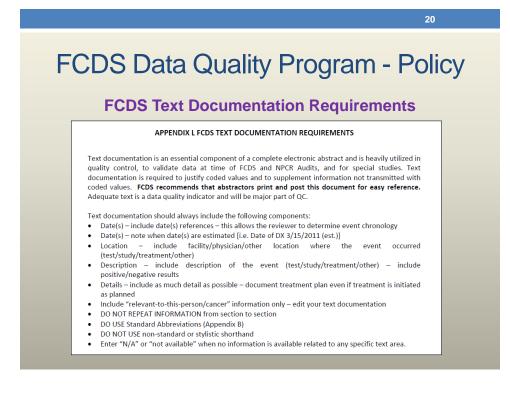




# FCDS Data Quality Program - Policy

Sunshine	Official Internet Site of the Florida Legislature
December 6, 2012	Search Statutes: 2012  Search
Home Senate	Select Year: 2012 💌 Go
House Citator Statutes, Constitution, & Laws of Florida	The 2012 Florida Statutes
Florida Statutes Search Statutes Search Tips Florida Constitution Laws of Florida Legislative & Executive Branch Lobbyists	Title XXIX         Chapter 381         View Entire Chapter           PUBLIC HEALTH         PUBLIC HEALTH: GENERAL PROVISIONS         381.0031         Epidemiological research; report of diseases of public health significance to department           (1)         The department may conduct studies concerning the epidemiology of diseases of public health significance affecting people in Florida.
Information Center Joint Legislative Committees & Other Entities Historical Committees Legislative Employment	(2) Any practitioner licensed in this state to practice medicine, osteopathic medicine, chiropractic medicine, naturopathy, or veterinary medicine; any hospital licensed under part I of chapter 395; or any laboratory licensed under chapter 483 that diagnoses or suspects the existence of a disease of public health significance shall immediately report the fact to the Department of Health. (3) An animal control officer operating under s. <u>828.27</u> , a wridifie officer operating under s.
Legistative Employment Legistore Links	<u>379</u> ,3311, or an animal disease laboratory operating under s. <u>585.61</u> shall report knowledge of any animal bite, diagnosis of disease in an animal, or suspicion of a grouping or clustering of animals having similar disease, symptoms, or syndromes that may indicate the presence of a threat to humans.
Interpreter Services for the Hearing Impaired	(4) The department shall periodically issue a list of infectious or noninfectious diseases determined by it to be a threat to public health and therefore of significance to public health and shall furnish a copy of the list to the practitioners listed in subsection (2). The list shall be based on the





FCDS Data Quality Program - Policy FCDS Text Documentation Requirements APPENDIX L FCDS TEXT DOCUMENTATION REQUIREMENTS Text Documentation Source and Item Description FCDS Required Text Documentation Text Data Item Name NAACCR Item # Example **Field Length** Text - Operative Report Enter text information from surgical operative reports (not diagnostic needle, incisional biopsy). Include observations at surgery, tumor size, and extent of involvement of primary or metastatic sites. Date of procedure, facility where procedure was performed, type of suraical procedure, detailed surgical findings, documentation of residual tumor, evidence of invasion of surrounding areas NAACCR Item #2560 Example: 4/12/11 (Hosp xyz) right colon resection - Pt was found to have extensive disease in the Field Length = 1000 pelvis (carcinomatosis) and resection was aborted DX Text - Pathology Enter text information from cytology and histopathology reports. Date of specimen/resection, facility where specimen examined, pathology accession #, type o specimen, final diagnosis, comments, addenda, supplemental information, histology, behavior, size of tumor, tumor extension, lymph nodes (removed/biopsied), marains, some special histo studie. Example: 2/5/11 (Hosp xyz) – Path Acc # - Rectum: Final Dx: adenoca, 2.5cm, ext. to pericolic fat. NAACCR Item #2570 Field Length = 1000 1/22 lymph nodes + , margins neg, \$100 stain is positive (melanoma, sarcoma) Enter Details of Collaborative Stage and other stage information not already entered in other text areas. Include specific information on Tumor Size, Extension of Primary Tumor, Metastatic Sites, etc. DX Text - Staging Organs involved by direct extension, size of tumor, status of margins, sites of distant metastasis

 
 NAACCR Item #2600
 Example: 2/15/11 - T2aN1a per path, distant mets in lungs, ER/PR neg, HER2 neg by IHC method

 RX Text - Surgery
 Enter text describing the surgical procedure(s) performed as part of 1<sup>st</sup> course treatment. Treatment plan, date surgery performed, type of procedure. Joality where surgery was performed

 NAACCR Item #2610
 Example: 2/15/11 (Hosp xyz) - rt breast mrm w/ax in dissection

special consideration for staging, overall stage, etc. Text for SSF documentation if not under Labs.

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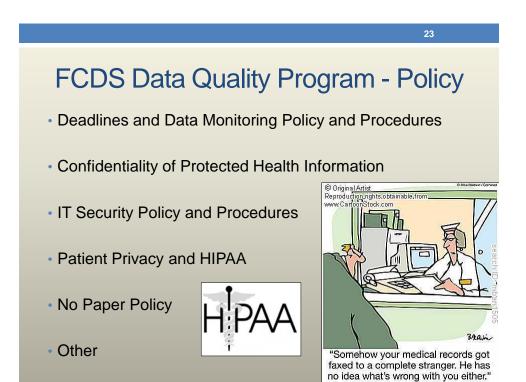
### FCDS Data Quality Program - Policy

#### FCDS EDITS Metafile and EDITS PASS Requirement

FCDS transitioned from an Oracle-based edits program written by FCDS contractors to the National Standard EDITS Metafile in September 2010.

Standard EDITS include Field-Item, Inter-Item and Intra-Item Edits

- Edits validate codes, crosscheck relationships between data items (male with prostate cancer) and checks for blank fields.
- The FCDS EDITS Metafile was created for Florida, specifically to accommodate the reporting of historical cases among other FCDS special coding requirements
- FCDS has also included edits in the metafile for common abstracting errors identified through re-abstracting audits.



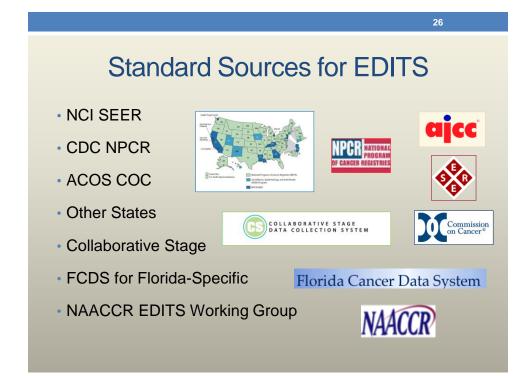
FCDS Data Quality Program - Procedures

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- FCDS EDITS Metafile
- FCDS Correction / FORCE / Delete
- FCDS QC Review of Every 25th Record Visual Editing
- Patient and Tumor Linkage and Consolidation Procedures
- FCDS Audit Findings Link Back to Education
- FCDS Data Use Link Back to Procedures

# FCDS Data Quality Program - EDITS





# FCDS EDITS Check For Conditions

- Blank Field Checks Single Item Edit
- Valid Code Checks Single Item Edit
- Valid Date Checks Single Item Edit
- Inter-Field Edits Relationships Between Items
- Inter-Record Edits Relationships Between Cases
- CS Edits Core
- CS Edits Staging
- CS Edits SSFs
- Inter-Field CS and Other Item Edits (scope, surg)
- · Link CS Stage and SSF Data to Treatment Plan





Category	Error #	$\mathbf{X}$	X	Description
Age Edits	81	N	Y	Invaliant Morphology for patient over age 5 based on ICD-O-3
Age Edits	82	N	Y	The Site for patient under age 15
Class of Case Edits	149	N	N	Class of Case equal 38 (autopsy only) or 49 (DCO) and Vital Status not equal 0 (dead)
Class of Case Edits	150	N	N	Class of Case equal 5 and all Rx not equal 00 or 0
Collaborative Staging Edits	1	N	N	There is missing data (blank field) or invalid characters exist in the data for this data item
Collaborative Staging Edits	287	N	N	If CS Extension is 950, CS Lymph Nodes cannot = 000 and CS Mets at DX cannot be 00
Dx Confirmation Code Edits	219	N	Y	ICD-O-3 Behavior 2 requires Dx Confirmation 1, 2, or 4
Grade CodeEdits	204	N	N	Grade must = 6 for this ICD-O-3 Morph code
Grade CodeEdits	834	N	N	Grade should be coded to Implied Grade for this histology
Grade CodeEdits	841	N	N	Grade
Invalid Codes Edits	10	N	N	not valid
Invalid Codes Edits	12	N	N	ICD-O-2 Morphology not valid
Invalid Codes Edits	102	N	N	Facility Code not valid
Probable Duplicate Edits	106	N	Y	Probable duplicate detected in master file
Sequence Edits	40	N	Y	Sequence greater than zero with Ill-Defined primary site, Ill-Defined Lymphoma, or Ill-Defined Leukemia
Sex/Site Edits	11	N	N	Sex not valid with Site
Site Code Edits	52	N	N	Site equals C50.* and Morphology equals 8521
Site/Morphology Edits	190	N	Y	ICD-O-3 Morphology not valid with Site or not reportable to FCDS
Site/Morphology Edits	207	N	Y	ICD-O-3 morphology cannot equal 8521/3 when site = C50.*. Verify morphology code
Therapy and Date Edits	268	N	Y	Breast, Prostate - <u>Transplut/Endocr Surg</u> Rx Date must be less than 365 days after Diagnosis Date
Therapy and Date Edits	269	N	Y	<u>Transplat/Endocr Surg</u> RX Date must be less than 240 days after Diagnosis
Warnings	00	Y	N	TrivG: Other Rx is greater than 0 or less than 9
Warnings	359	Y 🧲	N	WARNING: Please verify this case is reportable. Check Sect. I of the FCDS DAM for reportability guidelines
Warnings	989	Y	N	WARNING: NPI Number Invalid or assigned after last registry update

### FCDS and National EDITS – Coming Soon!

- Updates to SEER Site/Type Table
  - · 2012 Hematopoitic and Lymphoid Neoplasm Site/Type
  - 2013 ICD-O-3 Updates New Histology Codes and Site/Type
  - General Updates to Site/Type Combinations
- Complex Inter-Field EDITS
- More Treatment EDITS
- More CS Core EDITS
- More SSF EDITS
- New Clinical Edit Checks
  - NCCN/ASCO Guidelines
  - NCDB Submission Edits
  - RQRS (Rapid Quality Reporting System)
  - CP3R (Cancer Program Practice Profile Reports)



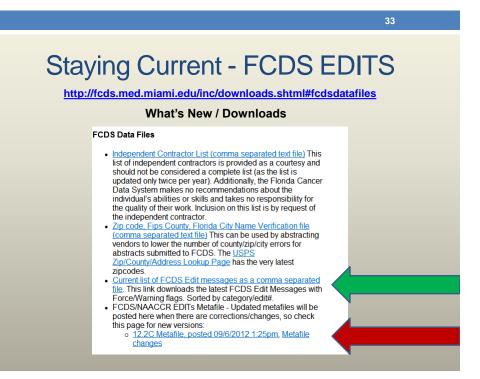
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#### Staying Current - FCDS EDITS

- Understand FCDS EDIT and what each is designed to do
- Review FCDS EDITS Messages make them more clear
- Identify FCDS EDITS that are "FORCEABLE"
- Understand FCDS EDITS/CORRECTION/FORCE Process
- Understand FCDS FC/QC responsibilities and expectations
  - External FCDS EDITS Metafile to be used by Registrars
  - Internal FCDS EDITS Metafile used by FCDS
  - FCDS Metafile Excel Sheet documenting changes



Registrar Interest in Learning How to Use Edit Writer



# Staying Current - FCDS EDITS Metafile

Metafile Version	Modification Date	Edit	Edit Name	Comments
				yellow = new and changed edits
12.2C	09/04/12	1335	CS Extension, CS Tumor Size, Site, Hist ICDO3 (CS)	Edit modified to check CS SSF 3 (as well as CS Extension) for Prostate schema: if CS Extension = 950 and CS Site-Specific Factor 3 = 950, then CS Tumor Size must = 000.
12.2C	09/04/12	1337	CS Extension, SSF 1, MelanomaSkin Schema (FCDS)	Added: If CS Extension = 950, then CS Site-Specific Factor 1 must = 000.
12.2C	09/04/12	1336	CS Items, Type Reporting Source-DCO (FCDS)	- Added "CS Site-Specific Factor10: 988 or 999" to the edit description; edit logic is already correct - For SSF 1, added 987 to codes allowed for Bladder, KidneyRenalPelvis and Urethra - For SSF 2, added code 987 to codes allowed for SkinEyelid
12.2C	09/04/12	979 980	CS Lymph Nodes, MyelomaPlasmaCellDisorder (CS)	- Added to both edit sets; was accidentally left out of v12.2B edit sets
12.2C	09/04/12	1338	CS Lymph Nodes, Nodes Pos, MerkelCell Schemas(CS)	- Added to both edit sets
12.2C	09/04/12	1339	CS SSF 16, MerkelCell Schemas (CS)	Sequence of edit logic changed in condition #2: instead of checking if CS SSF 16 = 998, then Scope of Reg LN Surg must = 0 and regional nodes positive must = 98, the edit now checks if Scope of Regional LN Surg = 0, then CS SSF 16 must = 998 or 999 and regional nodes positive must = 98.
12.2C	09/04/12	1340	CS SSF 17, MerkelCell Schemas (CS)	Sequence of edit logic changed in condition #3 and additional codes added when checking CS SSF 17 for codes indicating node not assessed pathologically: instead of checking if CS SSF 17 = 030, 060, 090, then Scope of Reg LN Surg must = 0, the edit now checks if Scope of Regional LN Surg = 0, then CS SSF 17 must = 000, 020, 030, 050, 060, 080, 999.

# Master List(s) – FCDS EDITS

Category	Error Code	Warning Flag	Force Flag	Description
Age Edits	81	N	Y	Invalid Site and Morphology for patient over age 5 based on ICD-O-2
Age Edits	82	N	Y	Invalid Site for patient under age 15
Class of Case Edits	149	N	N	Class of Case equal 38 (autopsy only) or 49 (DCO) and Vital Status not equal 0 (dead)
Class of Case Edits	520	N	N	If Class of Case equal 38 (autopsy only), then Date of Diagnosis and Date of Last Contact must be the same date.
Collaborative Staging Edits	287	N	N	If CS Extension is 950, CS Lymph Nodes cannot = 000 and CS Mets at DX cannot be 00
Collaborative Staging Edits	288	N		If CS schema is not KaposiSarcoma, MelanomaSkin, Conjunctiva, MelanomaConjunctiva, MelanomaChoroid, MelanomaIris, MelanomaCiliaryBody, or LymphomaOcularAdnexa: If CS Extension = 950, then CS Tumor Size must = 000.
Grade Code Edits	1263	N	N	Unknown Primary Site (C809), Grade must = 9
Grade Code Edits	1300	N	N	Grade must = 5, 8, or 9 for this ICD-O-3 Morph code
Invalid Codes Edits	10	N	N	Site not valid
Invalid Codes Edits	14	N	N	Abstractor code not valid
Morphology Code Edits	839	N	Y	Histology is not valid
Morphology Code Edits	840	N	Y	Invalid Histology for in situ
Out of Range Edits	19	N	N	County Residence Current out of range (11-77, 88 or 90) or not numeric
Out of Range Edits	22	N	N	Hispanic Origin is out of range (0 through 7 or 9)
Probable Duplicate Edits	106	N	Y	Probable duplicate detected in master file
Sequence Edits	40	N	Y	Sequence greater than zero with III-Defined primary site, III-Defined Lymphoma, or III-Defined Leukemia
Sequence Edits	63	N	N	If Date of 1st Contact is less than 1981, Sequence NumberHospital cannot = 00 or 60
Therapy and Date Edits	113	N		If Surgery Primary Site = 00 and Scope Reg LN Surg = 0 and Surg Oth/Reg/Dist = 0 then Surg Date mus equal 00000000
Therapy and Date Edits	119	N		If RX SummChemo = 00, 82, or 85-87 (chemo not given) then RX DateChemo must be blank and RX DateChemo Flag field must = 11 (no chemo).
Warnings	60	Y	N	WARNING: Other Rx is greater than 0 or less than 9
Warnings	359	Y		WARNING: Please verify this case is reportable. Check Sect. I of the FCDS DAM for reportability guidelines

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# **Corrections/Deletions/FORCES**

All Cases Processed	Receipt Date 2010	% of Total Cases
Good	137,955	94.6%
Corrected	4,257	2.9%
Forced	2,466	1.6%
Deleted	1,124	0.7%
Total Processed	145,802	100%

# Corrections/Deletions/FORCES

Cases Processed	Receipt Date 2011	% of Total Cases
Good	165,317	94.5%
Corrected	4,856	2.8%
Forced	3,274	1.9%
Deleted	1,476	0.8%
Total Processed	174,923	100%

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# Visual Review – The Panoramic View

- · Are there many blank spaces?
- Is code 9 (unknown) used frequently?
- Are there other numeric red flags (.8, 88, 8)?
- Are all dates in logical order?
- · Are text fields significantly different from coded field translations?
- Is treatment appropriate for site and stage?
- Is there logical progression from stage at initial diagnosis to recurrence and recurrence sites?
- Does the abstract tell a complete story?

## Visual Review – Demographic Items

- Surname Spanish origin
- Race Surname Place of birth
- Area code County
- Date of birth Date of diagnosis
- Sex Name
- Sex Primary site
- Age Occupation
- Age Marital status
- Age Primary site and histology
- Address Place of diagnosis
- City -- County



# Visual Review – Diagnosis Items

- Primary site code Text
- Histology code Text
- Site Laterality Histology
- Behavior Diagnostic confirmation
- Dx confirmation Histology > 8000
- Are dates in logical sequence?
- Is Dx date the earliest documented?
- Class of case Facility referred to/from
- Dx date Place of diagnosis
- Site Type of admission
- Sequence no. Other primaries



### Visual Review – Staging Items

- Stage Primary site
- CS codes Procedures text
- CS Extension Summary stage cT / pT
- CS Extension SSFs (by site)
- Age Pediatric stage
- CS Lymph Nodes Summary stage cN / pN
- CS Lymph Nodes SSFs (by site)
- Tumor size > 100
- Nodes pos/exam Surgery
- CS Mets at Dx Summary stage cM / pM
- Staging basis Dates of treatment



### Visual Review – Treatment Items

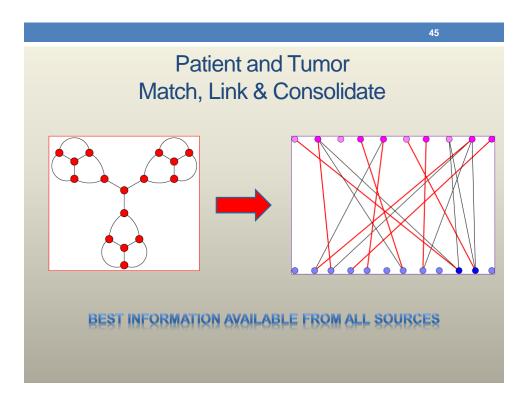
- Planned first course listed?
- Treatment Primary site Stage
- Treatment code Procedure name
- Treatment Facility referred from/to
- Surgery Operative findings text
- Surgery Pathology text
- Date 1<sup>st</sup> surg Date most definitive surg
- Date most definitive surg Date surg discharge
- Surg prim site Margins
- Surg prim site Scope reg LN
- Surg prim site Reason no surg

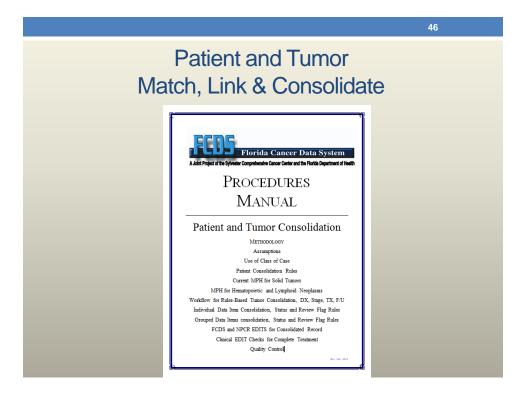


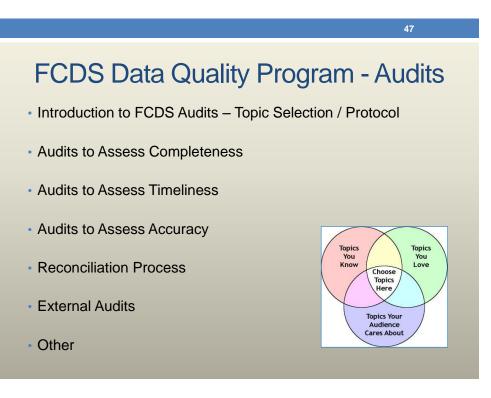
#### Visual Review – Treatment Items

- Surgery Radiation RT/surgery seq
- Date RT start Date RT end
- Location of RT Facility referred from/to
- RT treatment volume Reason no RT
- RT treatment volume Boost volume
- Systemic tx Primary site
- Systemic tx date Chemo Hormone Immunotherapy
- Systemic tx date Date most definitive surgery Systemic/surgery sequence
- Hematologic Transplant & Endocrine Procedure Primary site
- RT treatment volume Palliative care









## FCDS Data Quality Program - Audits

- Annual audits
  - Completeness
  - Timeliness
  - Data Quality/Validation
- Targeted audits
  - Identify extent of specific problems
  - Identify individual data collector training needs
  - Review and improve data quality in problem areas
- Random audits
  - Validate central registry data for research purposes
  - Identify unknown problem areas
  - Identify general data collector training needs
  - · Review and improve data quality in unknown areas



# FCDS Data Quality Program - Audits

- Annual audits
  - Data Validation and Feedback
  - Includes All Florida Reporting Facilities
  - Contractual Obligation DOH and NPCR
  - Re-Abstracting/Validation Audits on a 5-year cycle
- Targeted audits
  - High risk high volume
  - Major sites problem sites
  - New staff
  - New software/conversions
  - High volume
  - History of problems
- Random audits
  - All facilities
  - All primary sites



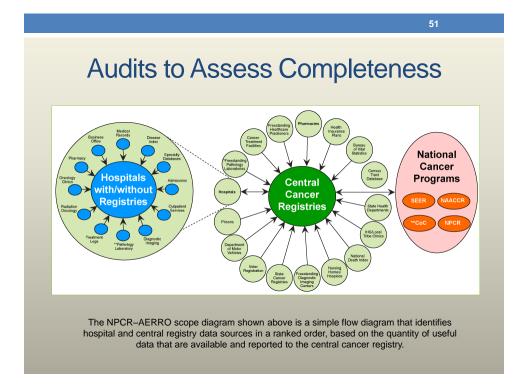
### FCDS Data Quality Program - Audits

Study/Audit Timeline

#### Protocol Template

- Introduction
- Purpose
- Description of Study
  - Sample size
  - Study population
- Audit Notification
- Audit Procedures
- Resolution Procedures
- Analysis plan
- Feedback plan
- Recommendations
- Protocol Review







The extent to which all required cases have been reported to FCDS. FCDS file completeness is assessed using:

- ACHA (covers 100% audit of all In-Patient and Out-Patient Visits)
- FAPTP Florida Association of Pediatric Tumor Programs
- Breast Cancer Early Detection Program Match
- Interstate Data Exchange
- Annual Death Clearance
- Field Casefinding Audits
- E-Path Matching
- Other Linkages
- NDI

NPCR Requires FCDS to be 90% complete 12 months after close of dx year – from all report sources

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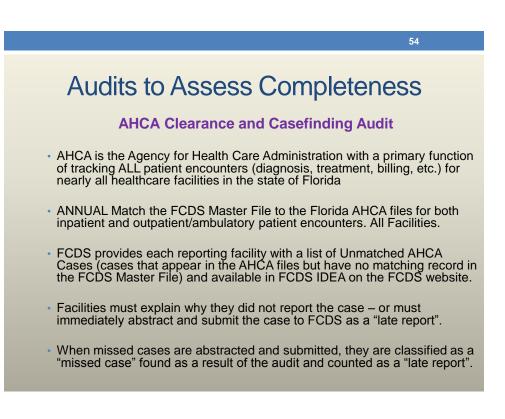


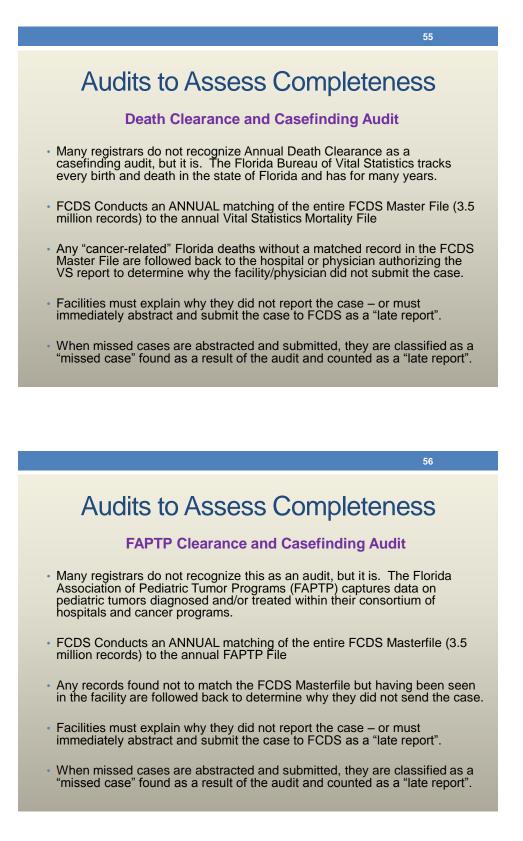
NPCR Requires FCDS to be 95% complete 24 months after close of dx year – from all report sources

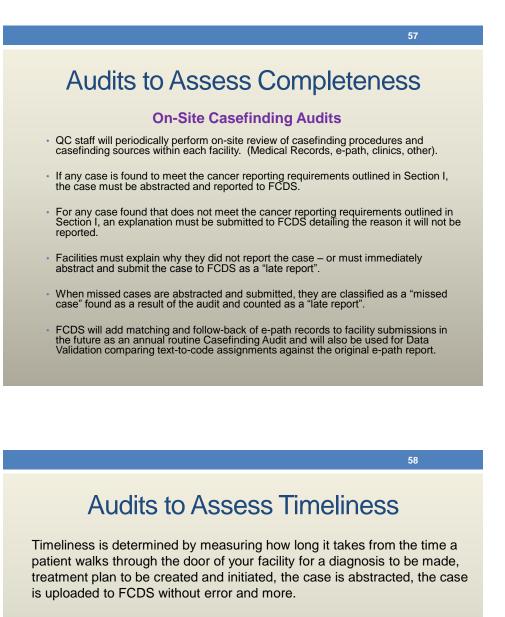
### Audits to Assess Completeness

#### Patient and Tumor Consolidation

- (aka: merging the "best" data from all available sources)
- Electronic edits, Visual Editing, Patient and Tumor Matching
- · Comparison of individual data and data items
- · Records received are checked for duplicate reporting
- Multiple reports for same patient are merged to capture most complete demographic data
- Multiple reports for same patient are checked for new tumors (same vs. new primary)
- Multiple reports for the same tumor are merged to capture most complete diagnostic, staging and treatment data





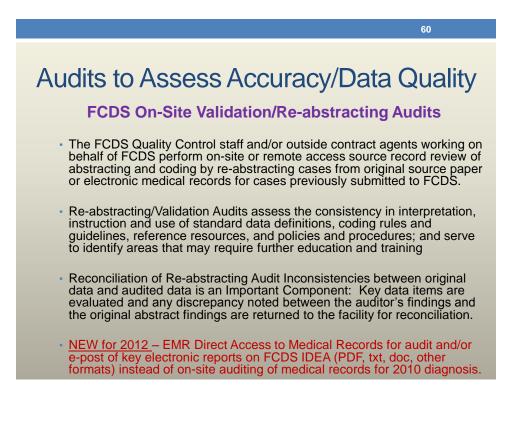


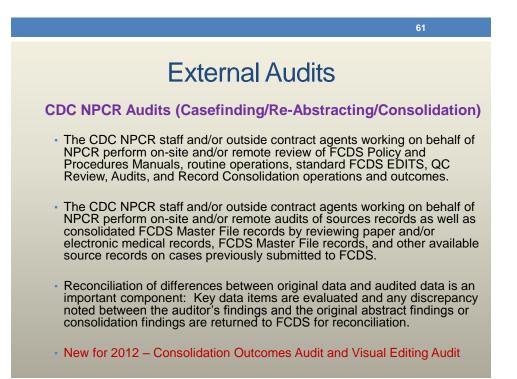
- Standard Set by NAACCR, CDC/NPCR, ACoS/CoC, FCDS:
  - 95% cases submitted within 6 months from date of service.
  - 100% of cases must be reported by June 30<sup>th</sup>.
- FCDS Annual June 30th Deadline
- FCDS Quarterly Status Reports
- Once-A-Year Submissions DO NOT Meet Reporting Requirements
  - Monthly Reporting is preferred so you stay current
  - Quarterly Reporting for Facilities with >500 cases/year

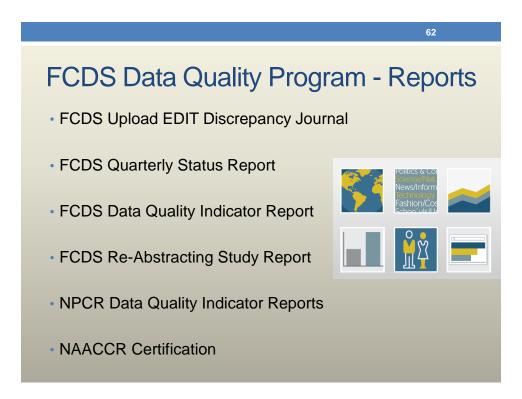
## Audits to Assess Accuracy/Data Quality

The extent to which the data submitted has been correctly and consistently coded and reflects the clinical, diagnostic, descriptive, decisions for treatment planning, or other information contained in the medical record.

- FCDS Abstractor Code Required for Each Abstractor
- FCDS Abstractor Code Annual Renewal
- Policy for Data Submission
- Standard FCDS EDITS Metafile
- Text Documentation Requirements
- Case Corrections / Forces (Edit Override)
- QC Visual Editing A 3-step Process
- Audits for Completeness
- Audits for Accuracy
- External Audits
- Data Use







Discrepa	ancy	Ar	าล	alysis Detail Fo	or Batch
	Abstracto	2,085 Abstracts	Note Hospi	the second set of the second	
				·	
	# Failures	Percentage 3.36%	Edit # 187	Description Invalid characters in City at Diagnosis	
	. 4	3.36%	249	Invalid characters in City at Diagnosis Invalid Characters exist in City Current	
			450	The zip code, county, and/or city name spelling combination is not	
	33	27.73%		valid according to the United States Postal Service (USPS).	
	1	0.84%	467	The format of the Address Current is not a valid USPS address	
	1	0.84%	468	The format of the Address at DX is not a valid USPS address	
	2	1.68%	874	Addr at DX-Postal code is invalid for FL	
	2	1.68%	882	Addr CurrentPostal code is invalid for FL	
	8	6.72%	883	Addr CurrentPostal code must not = 99999	
	12	10.08% 1.68%	887 894	Addr at DXCity is not a valid FL city name If Addr CurrentState not = XX, YY, ZZ, AA, AP, AE or Canada, Addr CurrentCity cannot = UNKNOWN	
	12	10.08%	895	Addr CurrentCity is not a valid FL city name	
	1	0.84%	897	If Addr Current-State = FL. CountyCurrent cannot = 999	
	4	3.36%	900	If Addr Current-State not = XX, YY, AA, AP, AE or Canada, Addr Current-NotStreet cannot = UNKNOWN	
	33	27.73%	901	The Addr CurrentCity, CountyCurrent, and/or Addr CurrentPostal Code combination is not valid according to the United States Postal Service (USPS).	

		64
FCDS E	dit Check Discrepanc	y Journal
	Discrepancy Journal 11/152012.3:11:24 PI Page: 6 of 5	
	Brow 277 Force Y Patient has multiple primaries and Dis Confirmation to not equal to 1, 2, 4 or 5 on all Departness	
	Discrepant Data Inter-Record Mill (FCM) By Confirmation for Audimator within Funding MOT agual TO 1.2.4 OF 5.	
	Enur21 Proce Y Petertian undargo products paid to Confination to advect to 1,2,4 or on al Departers Disreguent Data Battic 1,2,2,2,2,4 and 1,2,2,3,4 and 1,4,2, Disposite Construction should not 2,4027; Per Regression Ranker-Inseptial, 42,7, Disposite Construction should not be 7 response Ranker-Inseptial, 42,7, Disposite Construction should not Regression Ranker (1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2	-
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	Error:163 Force: Y Breast, Prostate - Hormone Rx Date must be less than 365 days after Diagnosis Date	
	Prepared for DTEVE PEACE on 1U15/2012 3:11:24 PM 6 of 9	

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FCD	S Quarter	ly Status Re	eport
	Quarterly Cance Tau Quarterly Cance Annual Care Submission Summary. This repo and quilty of your data. Quarterly Activity Summary Influence Tao Canardy Antony Summary reflects the fil specified abox. New Data Submitteel: Total number of good car Total number of good car Total annuber of care of good care. (A post Total annuber of care in the port	ses: (cases requiring no changes) :#\$##5: (exceptional cases requiring overrides of standard data edits	
		submitted by your facility for the past four years. The fifth year year average (excluding current year data) is the base from which the d. Average # Case: Resorted =	
	2005		
	2004	% Complete for	
	2003	Reporting Year	
	2002	Actual Expected	
	2001		
		any questions or would like additional information please you're your you for your cooperation in providing timely and quality data to the	

# FCDS Data Quality Indicator Report

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#### FCDS Data Quality Indicator Report

The Florida Cancer Data System (FCDS) is charged with providing the highest quality data available in annual cancer surveillance reporting to the Florida Department of Health and the CDC National Program of Cancer Registries (NPCR). Data must meet rigorous standards to be included in local, regional, state, and national cancer rates, reports to Congress, and various cancer surveillancer-related publicitions. This report it as scaled down model of a similar report the CDC National Program of Cancer Registries (NPCR) provides to Florida and each NPCR state as an assessment of our state-wide data.

The FCDS Data Quality Indicator Report reflects 5 year comparison data as in sample below showing 2005-2009 Diagnosis Year data and examines the frequency of assignment of "unknown" or "ill-defined" values to key analysis variables over the course of the five-year period with comparison to national.

The percent of "unknown" and "ill-defined" values in certain variables is a data quality indicator used to rank Florida's overall data quality and completeness of the data for each case reported and is used when comparing Florida data to other states for overall data reliability. These data are also indicators of problem areas where FCGs and local registrics on improve upon cancer reporting as data are available.

Florida Cancer Data System - Facility Data Quality Indicator Report (DQIR) for 2009

	2005	2005		2007		2008		2009		National *		
		0340.0212		122220126		અન્નન્નસંધ		10.00222		1992	2004-2008	
lata Quality Indicator/Admission Year	Facility %	Florida %	Facility %	Florida 56	Facility %	Florida %	Facility %	Florida %	Facility %	Florida %	NPCR med	SEER med
emographics			-									
otal Analytic Cases	1,216	104,307	1,402	105,639	1,554	108,512	1,672	110,383	1,669	110,636		
ex Unionown (9)	0.000	0.068	0.000	0.062	0.000	0.047	0.000	0.046	0.000	0.028		
ace not U.S., NDS (98)	2.397	0.723	2.751	0.701	1.287	0.707	2.710	0.814	2.795	0.897		
ace Unknown (99)	0.779	0.917	0.897	1.264	0.965	1.245	0.642	1.131	2.069	1.221		
thricity Unknown (9)	0.599	0.907	0.658	0.665	0.515	0.622	1.213	0.955	5,510	0.783	3.25	1.02
irth Year Unknown	0.000	0.001	0.000	0.003	0.000	0.001	0.000	0.002	0.000	0.002	0.00	r/a
irth Month Unknown	0.000	0.001	0.000	0.003	0.000	0.001	0.000	0.002	0.000	0.002		
irth Day Unknown	0.000	0.001	0.000	0.003	0.000	0.001	0.000	0.002	0.000	0.002		
irthplace US NOS/Unknown (998,999)	98,502	71.688	98,086	71,248	95,911	72,568	87,575	73.172	98,025	72.936	59.35	46.25
imary Payor Unknown (99)	0.240	0.927	0.957	1,330	1,480	1.145	2,425	1.645	2,303	1.162		
tarital Status Unknown (9)	1.438	1.843	2,794	2.194	1,995	1,773	2.924	1.965	3,125	2.330		
amor Characteristics												
agnostic Confirmation				1000		- and the second	-					
Not Microscopically Confirmed (5-8)	0.899	0.303	0.897	0.349	0.772	0.844	0.785	0.338	0.493	0.378	3,70	3.57
DX Method Unknown (9)	0.000	0.041	0.000	0.035	0.000	0.029	0.000	0.030	0.082	0.037	0.85	0.49
oportraphy		1945.875		3 8 9 9 9		10.000		100	01005			~~~
Other/III-Defined Sites (C76k)	0.000	0.037	0.000	0.014	0.000	0.025	0.000	0.045	0.000	0.038	0.09	0.08
Unknown Primary Site (C809)	1.138	2.250	0.718	2.207	0.837	2.047	1.712	1.955	1.974	2.057	2.04	1.70
orphology Non-specific (8000-8005)	0.419	2.348	0.538	2,159	0.837	2.136	0.642	1.960	0.493	2.087	3.45	2.35
rade Un known (excludes C80.5)	23.128	34,782	25,897	34.207	24,958	34,123	23.252	34,100	28.125	33.853	33.40	
erived/Summary Stage-2000 Unknown (9)	4.853	8.647	3,758	8,485	3.282	7.771	4,850	7.275	4.523	7.013		

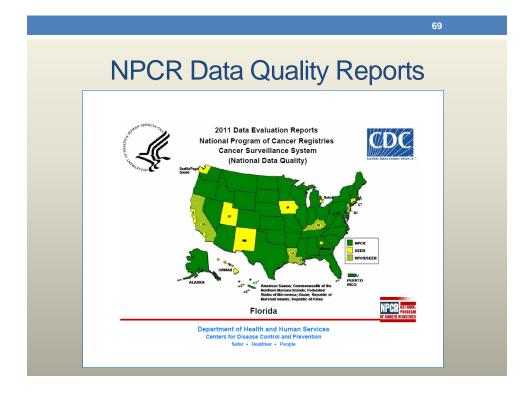
# FCDS Re-Abstracting Audit Report

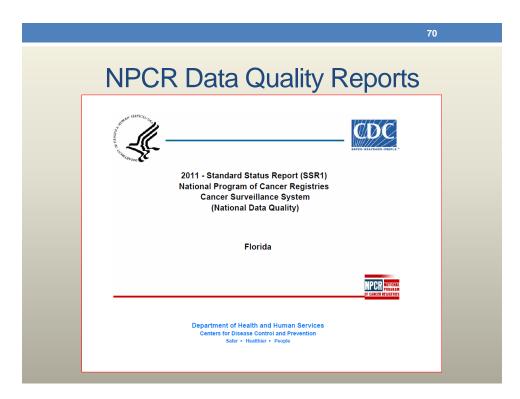
- Major Difference
  - Affects incidence counts
  - Affects research
  - · Examples: diagnosis year, primary site, sex
- Minor Difference
  - Does not affect incidence counts
  - · Examples: quadrant of breast, type of resection
- Unknown-to-Known
  - · Valid data found but initially coded as unknown
  - Difference depends on data item

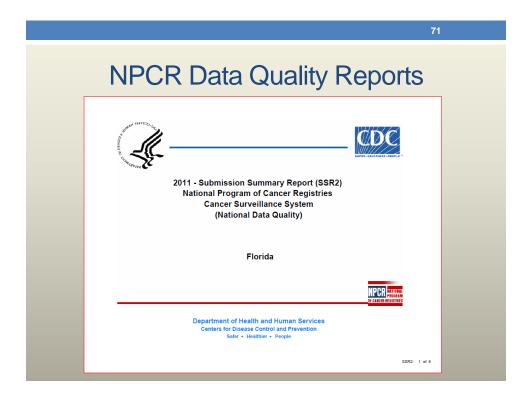
#### 68

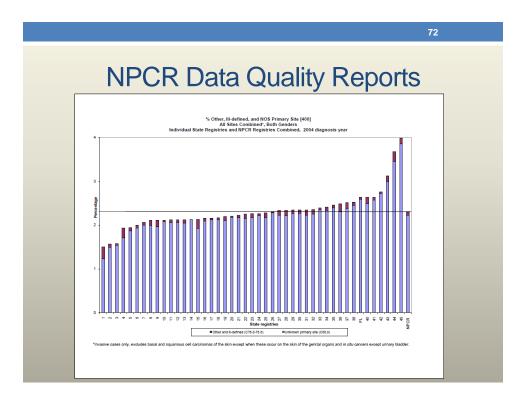
# FCDS Re-Abstracting Audit Report

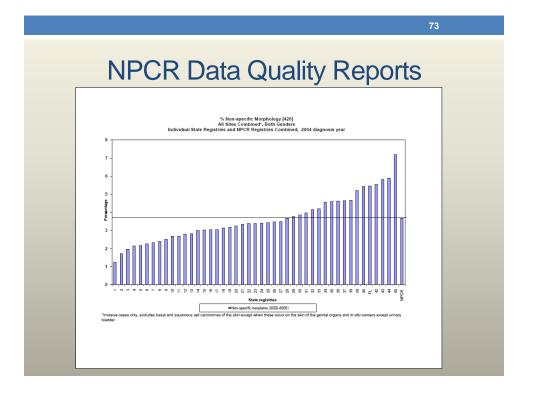
Rea	bstract Su For Audit Facilities:	mma Yea	ry Report	4		12 9:30:30 AM Page: 6 of 16	PHIS	For Audit Y Facilities.	'ear:		P	7/13/201: Pa	2 9:: ige:
Facility Completed:0	FCDS Co	moletor	-15	1			Facility Completed: 0	FCUS Com			~		
Demographic	Miner Disgrepancy						Demographic	Minor Discrepar	_	Major Discrepan		Total Discrepa	ncie
Admit Date Patient First Name	Count (n=15 1	6.6	Count (n=15)	enox Po	Total Discret f Count (n=15		Admit Date Report Source Parient Last Name		Pct 26.67	<u>Count (n=15)</u>	Est 6.67	<u>Count (n=15)</u> 4	1
Middle Initial Date Of Birth Birthstace Geccode	1				1	0.07	Middle Initial Marital Status	1	6.67 6.67			1	
SSN	1	8.87			1	6.67	Address DX	Minor Discrepan	19X	Major Discrepar	ICX.	Total Discrepa	ncle
Race Race2 Race3 Race4 Race5 Ethnicty Maritel Status	2	13.33	2	13.33			Dx Address Add Dx CRy Dx 21p Code Address City 21p Code	1	Pet 66.67 6.67 53.33 6.67	<u>Gount (n=15)</u> 1	Est 6.67	Count (n=15) 10 1 1 8 1	6
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Dx Address	Count (n=15)	Pct 13.33	Count (n=15)	Pot	Count (n=15)	Pet	Case Class	3	20.00			3	2
Add Dx City Address		13.33			2		Case Dx	Minor Dissrepan	-	Major Discrepan		Total Discrepan	sole
City Dx Primary Payor Dx Method Case Class	1 1 7	6.87 6.67 46.67			2 1 1 7	13.33 6.67 6.67 46.67	Dx Date Primary Site Morphology Icolo3 Grade	Count (n=15)	<u>Pst</u> 6.67	Count (n=15) 5 3 1	Pat 33.33 20.00 6.67	Count (n=15) 5 3 1 1	320
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Treatment	Minor Discrepat	iga:	Major Discrepens	24	Total Discrepar	iciaa.	Radiation Date						
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Reason No Surgery Surgery Date Rodition Treatment Radiation Date Rad Rx Modality Chiemo Treatment	2	13.33			2	13.33	Hormone Treatment Hormone Date Brm Therapy Brm Date Surg Rad Seq Systemic Surg Seq	2	13.33			2	13
Cherno Date Hormone Treatment	1	6.67			1	6.67		Minor Discrepano	ar	Major Discrepano	×	Total Discrepan	cles.
Hormone Treatment Hormone Date Surg Rad Seq Systemic Surg Seq	2	6.67 13.33 6.67			1 2 1	6.67 13.33 6.67	Vital Status Cancer Status	Count (n=15) 1	Pot 6.67	Count (n=15)		2ount (n=15) 1	6
							Total Master File Records: 15						

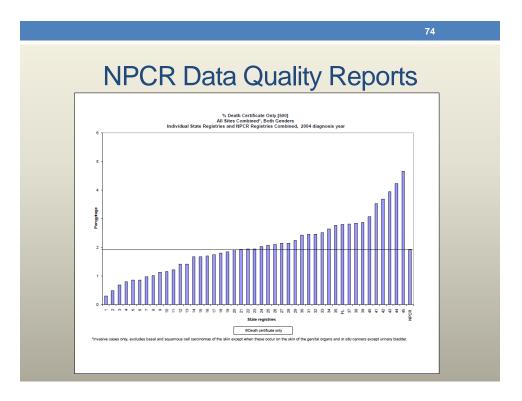


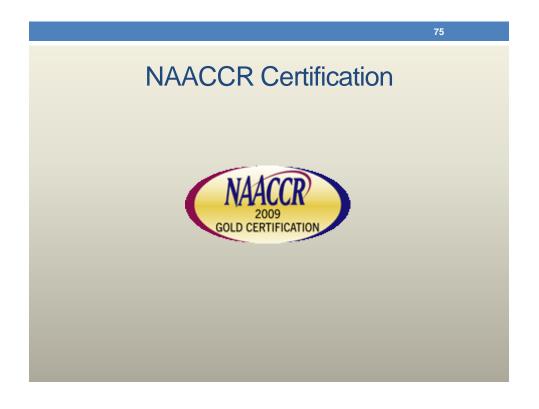












### Other – Reinforcement

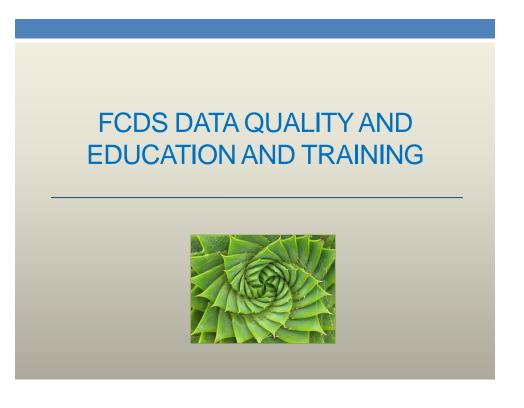
- Monitor Compliance with Feedback to Registrar and Administration
- ✓ Data Quality and Timeliness Reports to Administration
- Targeted Education and Training Programs
  - FCDS Annual Conference
  - FCDS Annual Series of Webcasts
    - · 6-8 per year or as needed
    - Recorded and archived
  - FCDS On-Line Abstractor Training Course
  - Published Resources for Registrars
  - Monthly NAACCR Educational Webcast Series at 7 Locations in FL



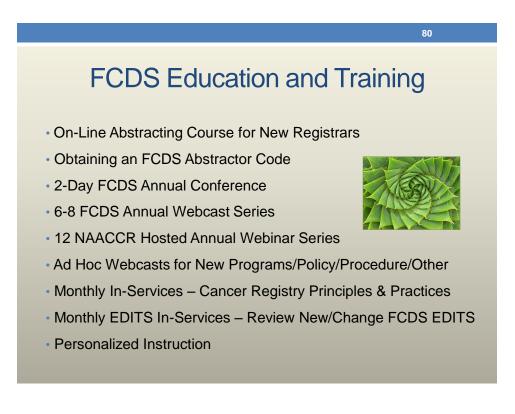
## Other – Incentives and Rewards

- Jean Byers Award including Publication of Name in Register
- Individual Abstractor Recognition Certificates
- Other Recognition Future of Rewards









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# FCDS Education and Training

Refere	ence Book/Manual for Abstracting Web Address For So	urce Notes
012 FCDS (Florida Cancer Data System) Data cquisition Manual	http://www.fcds.med.miami.edu/inc/DAM.shtml	Details cancer data reporting guidelines and casefinding mechanisms for identifying reportable cancers.
2012 CoC FORDS Manual (Facility Oncology Data Standards)	http://www.facs.org/cancer/coc/standards.html	FORDS errata is issued quarterly and posted on the website.
2007 MPH Rules - Solid Tumors, rev Aug 24, 2012	http://www.seer.cancer.gov/tools/mphrules/index.html	On the home page click on "Information for Cancer Registrars", MP/H Rules
2012 MPH Rules - Heme/Lymph Neoplasms and Interactive Heme/Lymph Database	http://seer.cancer.gov/seertools/hemelymph/	On the home page click on "Information for Cancer Registrars", Hematopoietic & Lymphoid Neoplasm Project
ICD-O-3 Coding Materials	http://www.seer.cancer.gov/icd-o-3/index.html	On the home page click "Data Collection Tools", Errata and Clarifications".
Collaborative Stage Data Collection System	http://www.cancerstaging.org/cstage	On the home page click the link "news" to see if there are updates.
SEER *Rx - Interactive Drug Database	http://seer.cancer.gov/seertools/seernx/	A one-step lookup for coding oncology drug and regimen treatment categories in cancer registries
AJCC Staging Manual 7 <sup>th</sup> Edition (plus errata)	http://www.springer.com/medicine	Springer (publisher) ISBN: 978-0-387-88440-0
	on and Training Materials Web Address For Training Ma	
FCDS Education & Training On-Line Abstractor Training Course and Recorded Webcasts/Teleconferences and Registration for FCDS-sponsored Educational Events	http://www.fcds.med.miami.edu/inc/training.shtml_and http://www.fcds.med.miami.edu/inc/teleconferences.sht ml	On-Line Abstractor Training Course, Recorded FCDS Educational Webcasts, Annual Meeting Presentations, Special Announcements, and more
SEER Cancer Registrar Training Modules	http://www.seer.cancer.gov/training/index.html	Self Instruction Modules on many abstracting topics including Collaborative Staging and Multiple Primary and Histology Coding Rules.
CoC/AJCC Online Education	http://www.eo2.commpartners.com/users/acs	On-Demand Webinars, CLP Education
NAACCR Webinars	http://www.naaccrinc.webex.com/mw0306lb/mywebex/	FCDS sponsors 6 host locations across Florida for the monthly educational webinars
Brain Tumor Registry Reporting Training Materials	http://www.edc.gov/cancer/npcr/training	This includes a Power Point presentation on Benign Brain and CNS Tumors along with speaker notes. It also has exercises with answers provided.
	Newsletters Web Address Notes	
FCDS Monthly Memo	http://www.fcds.med.miami.edu/inc/newsletters.shtml	Florida Cancer Data System's monthly memo written especially for registrars. (used as a source for updates/replacement pages to manuals)
FCDS Register (Quarterly Newsletter)	http://www.fcds.med.miami.edu/inc/newsletters.shtml	Florida Cancer Data System's newsletter
COC Flash	http://www.facs.org/cancer/cocflash.html	Commission on Cancer's newsletter.
	Online Help For Abstracting Questions	
Ask a SEER Registrar/SEER Inquiry System	http://www.seer.cancer.gov/seeringuiry/index.php	Type in a topic, search, and it will show you similar questions that other registrars have submitted along with the answers.
CAnswer Forum (Inquiry and Response System)	http://cancerbulletin.facs.org/forums/	Type in a topic, search, and it will show you similar questions that other registrars have submitted along with the answers.

FCDS Education and Training

EDUCATIONAL RESOURCES FOR REGISTRARS – updated Sept 2012

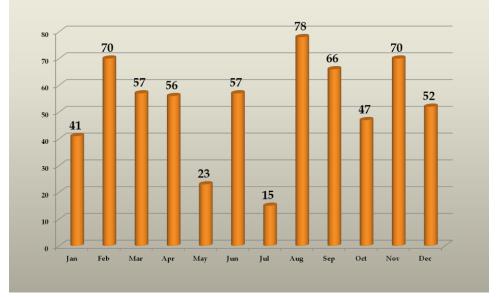
	2012 Resources and References for Registrars
2012 Casefinding/Reportable List	<ul> <li>2012 FCDS Data Acquisition Manual (FCDS DAM)</li> </ul>
2012 Coding Manual and Instructions	2012 FCDS Data Acquisition Manual (FCDS DAM)     2012 CoC Facility Oncology Data Standards (CoC FORDS)
2007 MPH Rules - Solid Tumors	<ul> <li>2007 MPH Rules – Solid Tumors</li> </ul>
2012 MPH Rules - Heme/Lymph Neoplasms	<ul> <li>2012 MPH Rules and Database – Heme/Lymph Neoplasms</li> </ul>
ICD-O-3 Primary Site/Histology Codes	ICD-O-3 (except for Heme/Lymph Neoplasms – codes 9590-9969)     2012 MPH Rules - Heme/Lymph Neoplasms for all codes 9590-9992
Collaborative Stage Data Collection System, v2	Part I - Section 1 - General Instructions     Part I - Section 2 - Lab Test, Trunor Marters, and SSF Notes     Part II - Site Specific Coding Schema     Natural Order     Alphabetical Order     Schema Groupe
Free-Standing Software Applications	2012 Heme/Lymph Rules and Database     SEER*Rx
Internet Access to Online Resources	Infb://fics.med.mini.edu/infc/Mattervi     Infb://www.cancertains.edu/infc/Mattervi     Thb://www.cancertains.edu/info/Info Infb://www.cancertains.edu/info Infb://infc.cancert.can/obs/Info Infb://infc.cancert.can/obs/Info Infb://infc.cancert.can/obs/Info Infb://infc.cancert.can/obs/Info Infb://infc.cancert.can/obs/Info Infb://infc.cancert.can/obs/Info Infb://infc.cancert.can

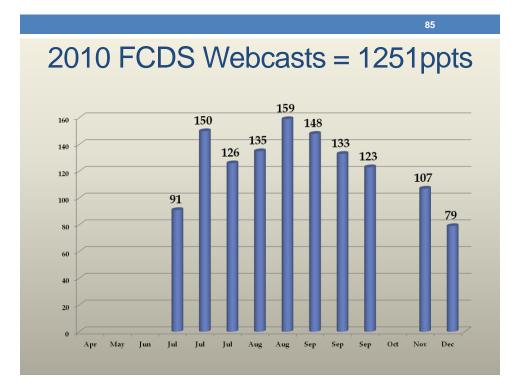
# **Tracking Events**

NCRA #	Date	Name of Event	Sponsor	Туре	Participants	CEU
2011-082	1/5/12	Collecting Cancer Data: Pancreas	NAACCR	webinar	57	3
n/a	1/18/12	FCDS Inservice: Quality Control in Central Registry	FCDS	in-service	27	0
2011-172	1/19/12	Brain and CNS Tumors - 2012 MPH Rules/CSv02.03/Site Specific Factors and Treatment	FCDS	webcast	153	2
2011-088	2/2/12	Collecting Cancer Data: Hematopoietic	NAACCR	webinar	66	3
n/a	2/15/12	FCDS Inservice: Record Linkage	FCDS	in-service	19	0
2011-173	2/16/12	Head and Neck Cancers - MPH Rules/CSv02.03/Site Specific Factors and Treatment	FCDS	webcast	151	2
n/a	2/23/12	FCDS Inservice: Record Consolidation	FCDS	in-service	25	0
2011-086	3/1/2012	Abstracting and Coding Boot Camp: Cancer Case Scenarios	NAACCR	webinar	76	3
n/a	3/14/2012 - 3/18/2012	NCCN Annual Conference, Fort Lauderdale, FL	NCCN	in-person	0	n/a
n/a	3/17/2012	CTR Examination Date	NCRA	in-person	NEW CTRs	0
2011-087	4/5/2012	Collecting Cancer Data: Lower Digestive System	NAACCR	webinar	66	3
2012-023	4/16/2012 - 4/21/2012	NCRA Annual Conference, Washington, DC	NCRA	in-person	2	19.
n/a	4/19/2012 - 4/21/2012	FLASCO Spring Session, Tampa, FL	FLASCO	in-person	0	n/a
2011-091	5/3/2012	Collecting Cancer Data: Lung	NAACCR	webinar	55	3
2011-068	6/3/2012 - 6/9/2012	NAACCR Annual Conference, Portland, OR	NAACCR	in-person	7	18.
2011-089	6/14/2012	Using and Interpreting Data Quality Indicators	NAACCR	webinar	53	3

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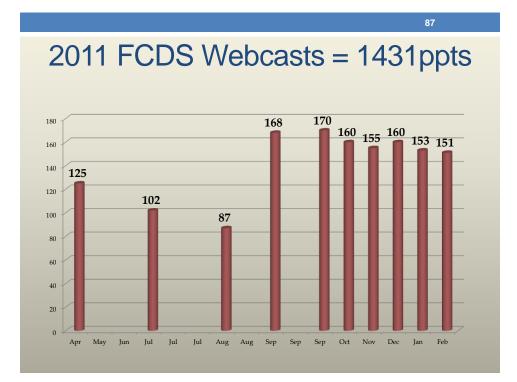
2010 NAACCR Webcasts = 632ppts

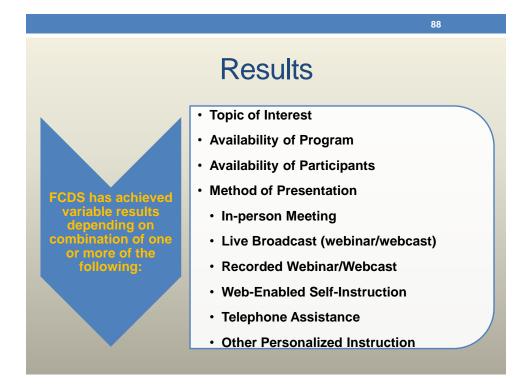




2011 NAACCR Webcasts = 615ppts



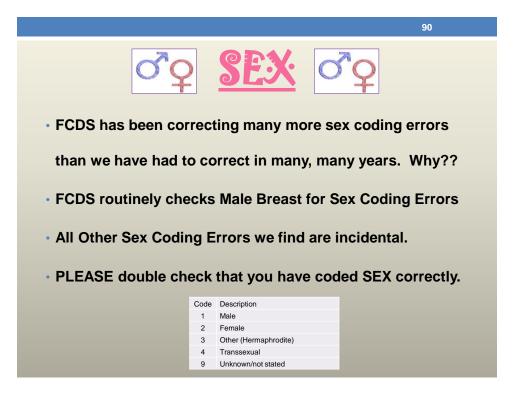


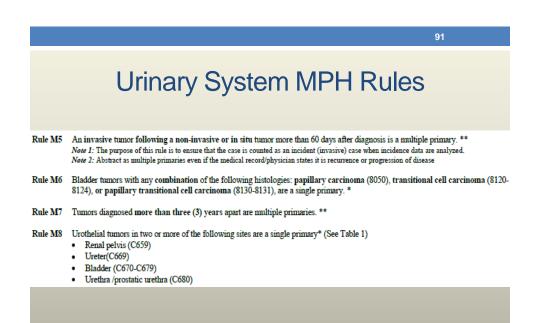


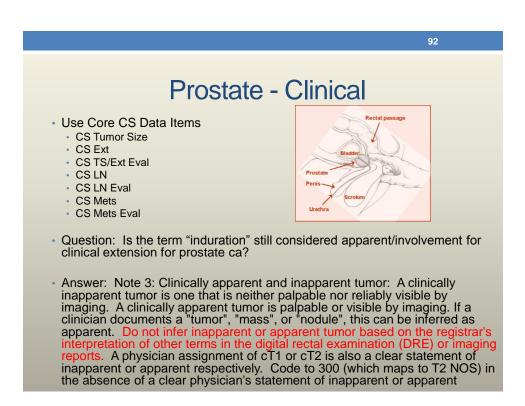


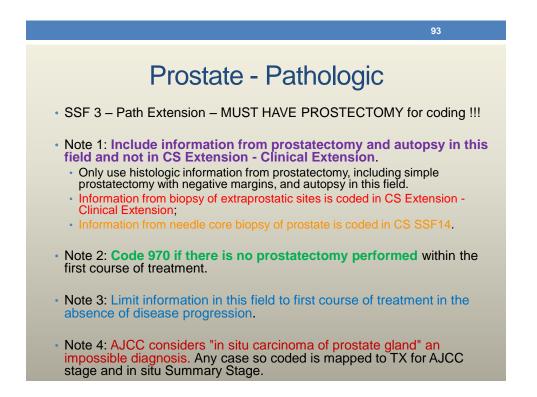
## CURRENT CODING AND DATA QUALITY ISSUES

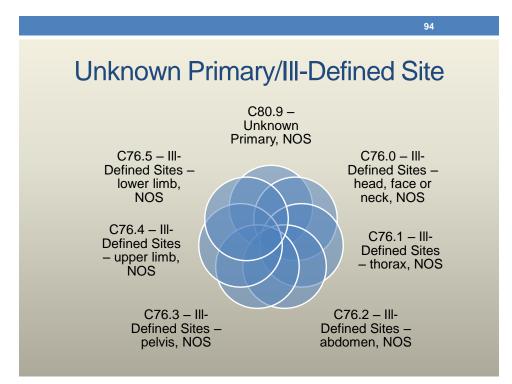


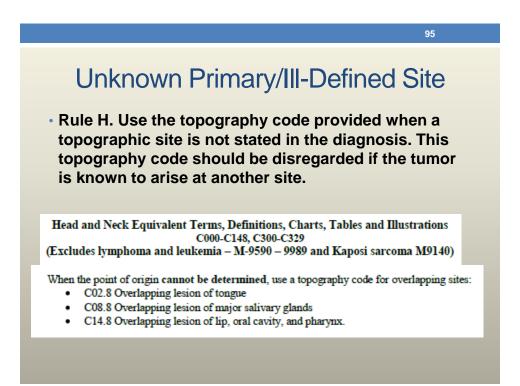








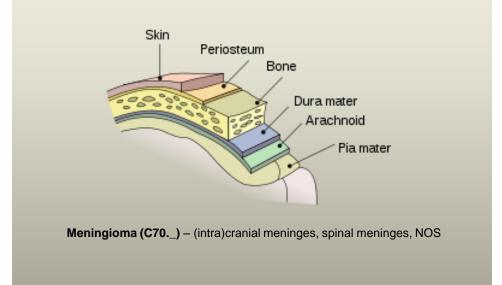


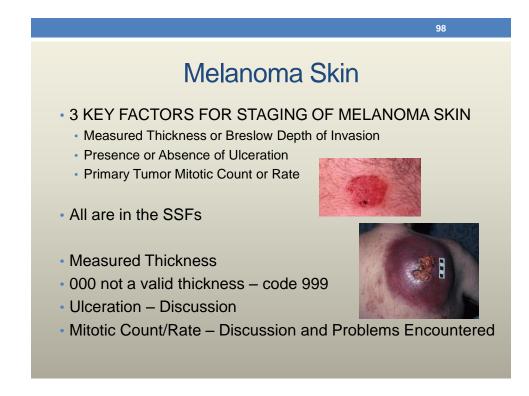


## Unknown Primary/III-Defined Site

Site Title	Site Code	Histology Title	Histology Codes
Skin, Arm	C44.6	Carcinoma, Melanoma, Merkel Cell, Mycosis Fungoides, Cutaneous T-Cell Lymphoma of Arm	8010 8720-8970 8747 9700 9709
Soft Tissue, Arm	C49.1	Sarcoma	8800-8921
Peripheral Nerve, Arm	C47.1	Sarcoma	8800-8921
Bone, Arm	C40.3	Sarcoma (osteo)	9180-9194
Lymph Nodes, Arm	C77.3	Lymphoid Neoplasms	See Heme DB

## Unknown Primary/III-Defined Site





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## Non-Melanoma Skin Cancers

Code	Term	Code	Term
8247/3	Merkel Cell Carcinoma	8890/3	Leiomyosarcoma
8400/3	Sweat Gland Adenocarcinoma	9140/3	Kaposi Sarcoma
8410/3	Sebaceous Adenocarcinoma	9591/3	Non-Hodgkin Lymphoma
8800/3	Sarcoma	9650/3	Hodgkin Lymphoma
8810/3	Fibrosarcoma	9680/3	Diffuse Large B-Cell Lymphoma
8832/3	Dermatofibrosarcoma	9700/3	Mycosis Fungoides
8850/3	Liposarcoma	9709/3	Cutaneous T-Cell Lymphoma

## Problem SSFs

- All Mitotic Count/Rate Factors WHY?
- Melanoma Skin Depth of Invasion, Mitotic Count
- Clinical Assessment of Regional Lymph Nodes
  - Stomach
  - Appendix
  - Colon
  - Rectum
  - NET Stomach
  - NET Colon
  - NET Rectum
  - Breast
  - Skin Melanoma
  - Skin Merkel Cell

### **Problem SSFs - Breast**

- Easy to Find Site Specific Factors
  - ER
  - PR
  - HER2
  - Test Value
  - Test Result
  - Tally Results into Profile
- Difficult Site Specific Factors
  - · # Positive Ipsilateral Level I-II Axillary Lymph Nodes
  - IHC of Regional Lymph Nodes
  - FISH or CISH Testing for HER2
  - Size of Invasive Component
  - Circulating Tumor Cells
  - Disseminated Tumor Cells

### **References / Resources**

- 1. Dryden M and Brogan K. Quality Control. Chapter 20 in Menck H, et al. *Central Cancer Registries: Design, Management and Use, second edition.* Kendall Hunt Publishing Co., 2007.
- 2. Hilsenbeck SG, et al. *Quality Control for Cancer Registries*. National Cancer Institute, U.S. Department of Health and Human Services, 1985.
- 3. Hilsenbeck SG. Quality Control. Chapter 7 in: Menck H, et al. *Central Cancer Registries: Design, Management and Use.* Harwood Academic Publishers, 1994.
- 4. Ross F. Quality Control of Cancer Registry Data. Chapter 21 in Menck H, et al. *Cancer Registry Management: Principles and Practice, second edition.* Kendall Hunt Publishing Co., 2004.

### References / Resources

- NAACCR Standards for Cancer Registries Volume III: Standards for Completeness, Quality, Analysis, and Management of Data, October 2004.
- 6. NPCR Educational Materials for Cancer Registrars
  - Volume 3: Data Editing and EDITS: Procedures for Central Registries
  - Volume 4: Coding and Visual Editing: Procedures for Central Registries
  - Volume 6: Audits: Casefinding and Reabstracting: Procedures for Central Registries
- 7. Unpublished materials provided by National Program of Cancer Registries



