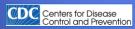


CDC & Florida DOH Attribution



"We acknowledge the Centers for Disease Control and Prevention, for its support of the Florida Cancer Data System, and the printing and distribution of the materials for the 2015-2016 FCDS Webcast Series under cooperative agreement DP003872-03 awarded to the Florida Department of Health. The findings and conclusions in this series are those of the author(s) and do not necessarily represent the official position of the Centers for Disease Control and Prevention".





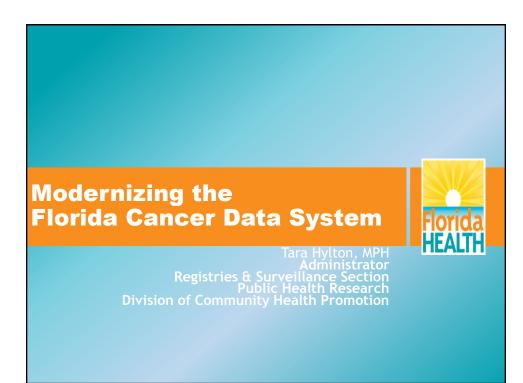
FCDS would also like to acknowledge the Florida Department of Health for its support of the Florida Cancer Data System, including the development, printing and distribution of materials for the 2015-2016 FCDS Webcast Series under state contract CODJU. The findings and conclusions in this series are those of the author(s) and do not necessarily represent the official position of the Florida Department of Health.

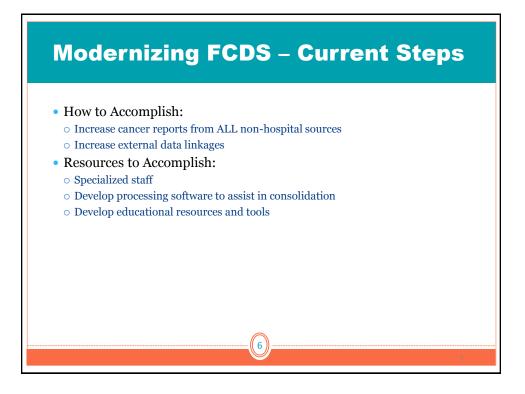
		Age	nda
	rida Cancer Data System Annual I Day 1 - Wednesday, July 26, 20 Indham Grand Orlando Resort at Bonn	17	NCRA CEU 2017-088 Total Conference CEU = 9.5 hours
7:30 am to 8:30 am	Registration		
8:30am	Welcome and Introduction Florida Department of Health Tare Hyton, MMY - Epidemiologist, Public Health Research University of Num Miller School of Hedicine David Lee, PID, PCDS Protect Director		Florida Cancer Data System Annual Meeting Day 2 – Thursday, July 27, 2017 Wyndham Grand Orlando Resort at Bonnet Creek
8:35 am to 8:45 am	DOH Update	Tara Hylton, MPH	8:30 um to 9:15 um How to Use the AJCC Cancer Staging Manual, 8 th edition Steve Peace, 85, CTR
8:45 am to 9:00 am	FCDS Updates - State of the State	Gary Levin, BA, CTR	9:15am - 10:15am New Site-Specific Fields "Required for Staging" AJCC 8 th ed. Steve Peace, BS, CTR
9:00 am to 9:15 am	Firefighter Cancer Linkage Project Update	David Lee. PhD	10:15 am to 10:30 Break
9:15 am to 9:40 am	FCDS Survival Monograph	Anders Alexanderson, MS	10:30um – 11:00um FCDS EDITS Metafile and Navigating the TNM & Staging Edits Steve Peace, BS, CTR
9:40 am to 10:00 am	A Fundamental Learning Collaborative for the Cancer Surveillance Community (FLccSC pronounced "flossy")	Jill MacKinnon, PhD, CTR	Issue Peace, BS, CTR Issue Peace, BS, CTR Issue Peace, BS, CTR Issue Peace, BS, CTR
10:00 am to 10:15 am	Break		
10:15 am to 10:35 am	Highlights from the NAACCR 2017 Annual Conference	Monique Hernandez, PhD	
10:35 am to 10:45 am	2016 Data Acquisition Summary	Mike Thiry, PMP	
10:45 am to 11:15 am	2016 FCDS QC Activities Summary	Steve Peace, BS, CTR	
11:15 am to 11:30 am	Update on Physician Reporting & CAPIS System	Gary Levin, BA, CTR	OVE LAND O
11:30 am to 11:45 am	Update on Meaningful Use Reporting	Monique Hernandez, PhD	
11:45 am to 12:00 pm		Gary Levin, BA, CTR	
12:00 pm to 1:30 pm	Lunch on your own		
1:30 pm to 1:50pm	2016 NPCR Data Quality Evaluation	Meg Herna, CTR	
1:50 pm to 2:15 pm	2016 FCDS Data Quality Audits (Lung - 2014 Dx & 2015 Dx)	Steve Peace & Meg Herna	
2:15 pm to 3:00 pm	2018 Updates to National Standards - ICD-O-3, MPH, AJCC 8*	Steve Peace, BS, CTR	
3:00 pm to 3:30 pm	Break		
3:30 pm to 3:45 pm	Jean Byers Award Presentation	Mike Thiry, PMP Gary Levin, BA, CTR	
3:45 pm to 4:00 pm	2017-2018 FCDS Education and Training Plan	Steve Peace, BS, CTR	
4:00 pm to 5:00pm	Round Table Discussion	All	
5:00 pm	Wrap Up and Adjourn		

Recorded Sessions & Materials

https://fcds.med.Miami.edu/inc/educationtraining.shtml







Modernizing FCDS – Current Steps

- Accomplished thus far:
 - · Collecting claims data from select private physicians
 - Provides a new cancer abstract, if not already in the FCDS masterfile
 - Provides granular treatment information
 - Linkage with the Florida Veterans Administration (VA) Hospitals
 - Improved Learning Management System (LMS)
 - Improvements in data access and release (DREAMS)

Modernizing FCDS – Next steps

- How to Accomplish (with minimal burden to providers or systems):
 - o Include comorbidity data
 - \circ Include genetic information
 - $\,\circ\,$ Include screening data
- Resources to Accomplish:
 - $\,\circ\,$ Revising statue and administrative code, where needed
 - o Specialized staff
 - $\circ\,$ Developing new partnerships
 - $\,\circ\,$ Develop processing software

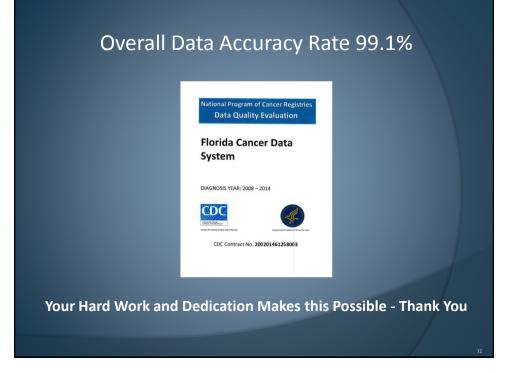
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NAACCR Gold Certification Fifteenth Consecutive Year!!



Your Hard Work and Dedication Makes this Possible - Thank You



New Accomplishments - DREAMS



- 101 Data Request Applications Entered Since Implementation
- Tracks Data Request from Start To Completion
 - Application
 - DOH Approvals/IRB Approvals/Vital Statistics Approvals
 - Secure Messaging between Requestor/FCDS/ DOH
 - Secure Delivery of Requested Data to Requestor

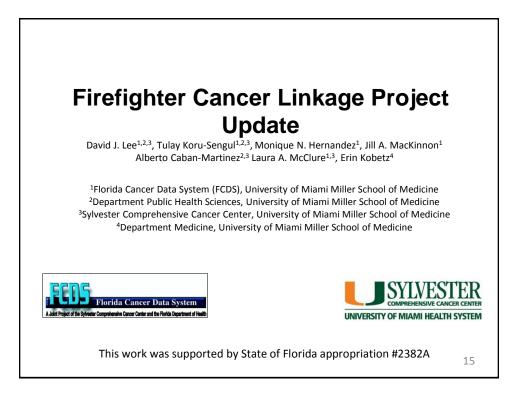
Web Link: https://fcds.med.miami.edu/inc/datarequest.shtml

New Accomplishments - FLccSC LMS

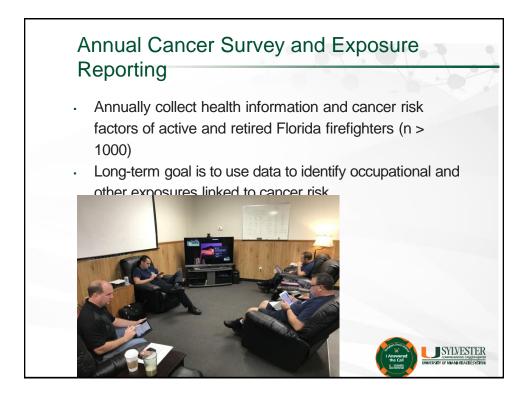


- Joint Project between Florida and South Carolina CCRs
- Over ~200 Students Registered in Florida
- Current Courses
 - New Abstractor and Annual Renewal Code Test
 - Abstractor Basic Course (Updates coming)
- Administrator Controls Content, Quizzes & Student Registration
- Keeps History of Student
 - Courses Completed and Quiz Scores
 - CEU's and Allows for On-Demand Printable Certificates

Web Link: https://fcds.med.miami.edu/inc/flccsc.shtml

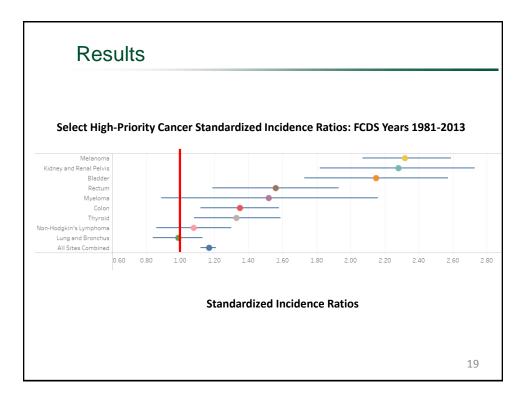


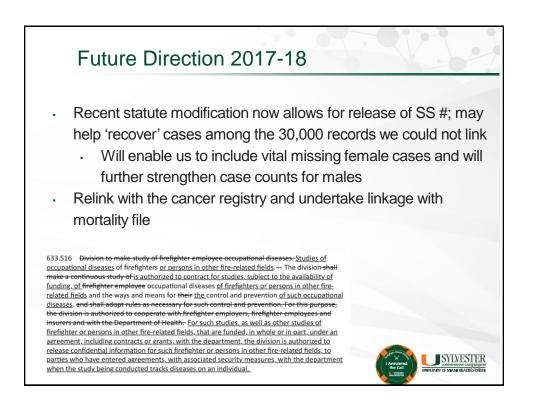


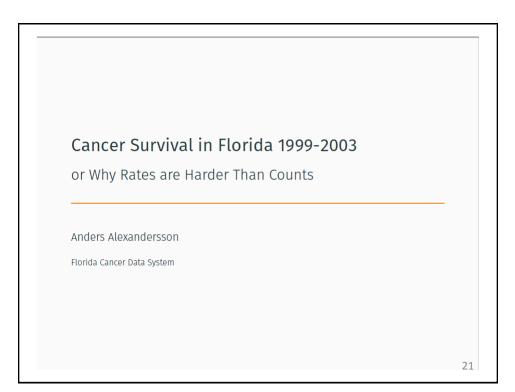


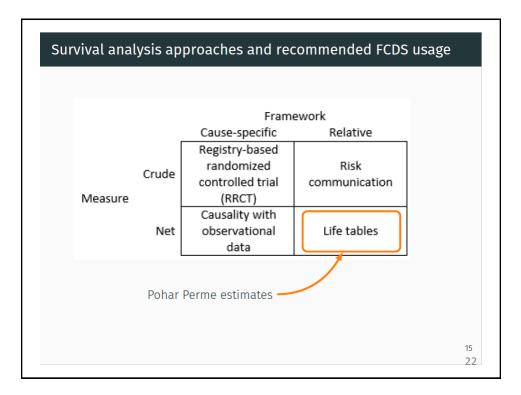


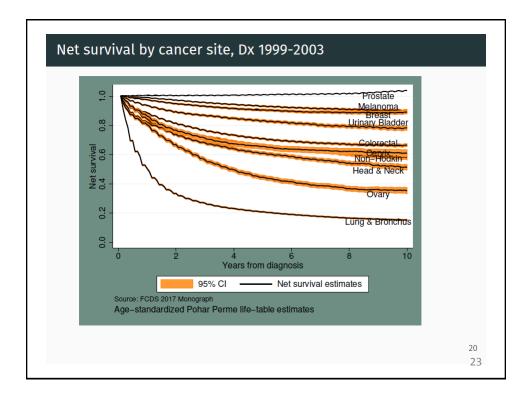
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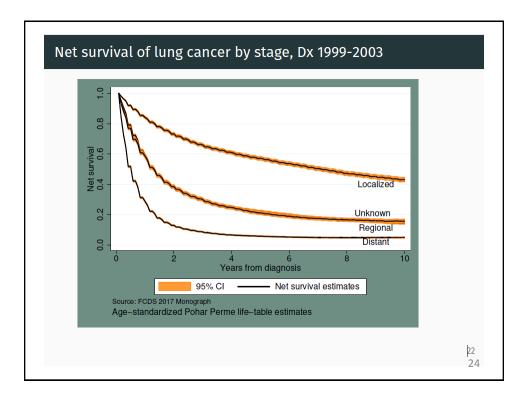


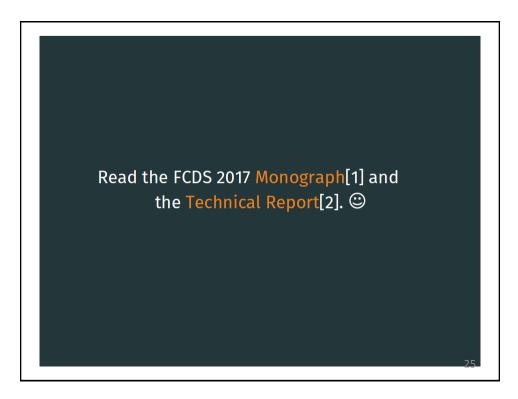




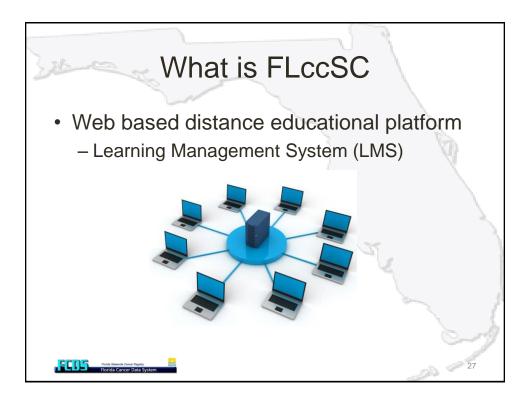


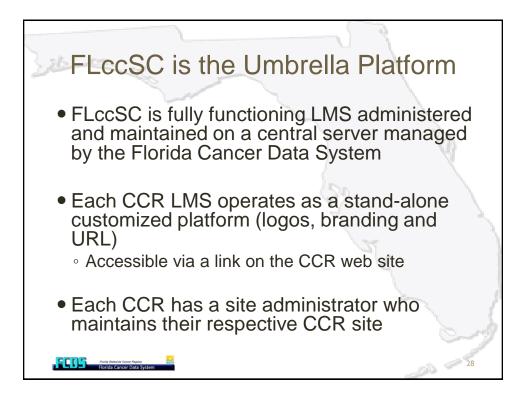


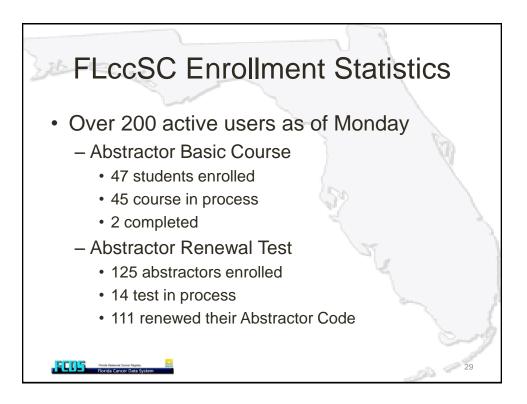


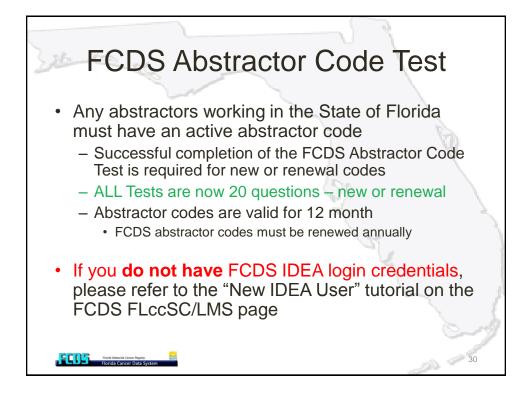


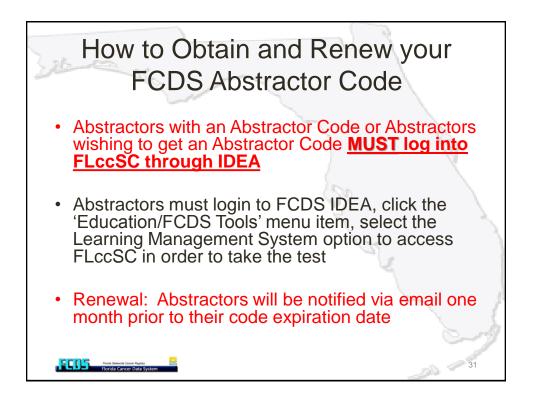


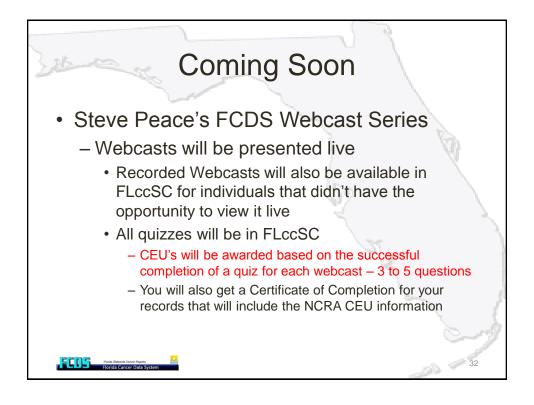






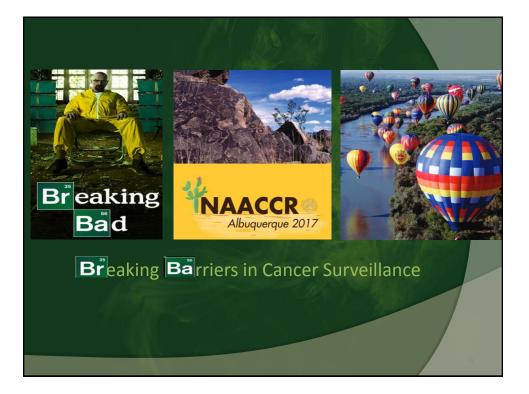






North American Association of Central Cancer Registries 2017 Annual Conference Highlights

> Monique N. Hernandez, PhD Florida Cancer Data System Annual Meeting July 26, 2017



Plenary Sessions

o Breaking Barriers - International Cancer Surveillance

- Cancer Surveillance In Action: An International View
- Cancer Surveillance in American Indians/Alaska Natives/Canadian First Nations
- Registry of the Future: Surveillance in an Era of Emerging Technology and Precision Medicine

Conference Themes and Topics

- Expanding the role of cancer registries
- \circ Registry data tools
- Improving cancer treatment linkage
- Cancer in native/indigenous peoples
- International Cancer Surveillance
- Cancer epidemiology



FCDS Presentations



Fundamental Learning Collaborative for the Cancer Surveillance Community (FLccSC) Advances in Integrating Health Claims Data Into Cancer Registry Data Systems

Anders Alexandersson

Probabilistic Record Linkage at the Florida Cancer Data System: A Data :Science Project Using R and Stata

Dr. David Lee

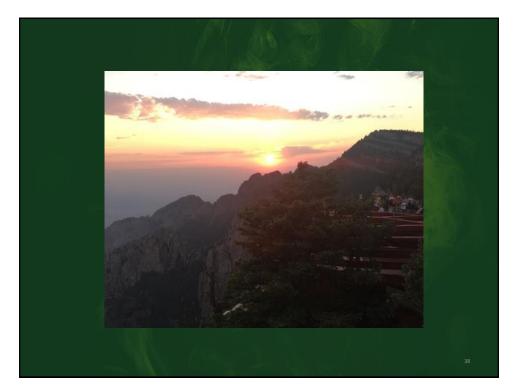
Occupational Cancer Surveillance in the Age of Restricted Identifier Access: A Linkage of Florida Cancer Data System (FCDS) Data with Firefighter Certification Records

Dr. Monique Hernandez

Physician Medical Claims Reporting in Florida

Sasha Raju – Attendee

Steven Peace – Attendee



Data Acquisition Update

FCDS ANNUAL MEETING JULY 26 AND 27

Reporting Entities Summary

Hospitals	252
Radiation Treatment Centers	127
Surgery Centers	453
Pathology Labs (CLIA's)	1092
Hematologists	23
Oncologists	187
Urologists	507
Dermatologists	943
Other States	42
Other Specialty Physicians	1165
Total	4,791 Reporting Entities

40

2016 Abstracts Received

As of July 1, 2017

• 182,134 Abstracts for the 2016 Data Year

 Hospitals 	168,870
 Radiation Treatment Centers 	1,556
 AMBI Surg 	97
 Dermatology Physician Abstracts 	10,897
 Physician Claims 	714

Abstract Counts at Deadline (6/30) and 1 year later

	Deadline	1 Year Later
2009 Data (6/2010)	166,303	185,703
2010 Data (6/2011)	136,610	174,701
2011 Data (6/2012)	149,368	185,969
2012 Data (6/2013)	165,991	189,693
2013 Data (6/2014)	171,179	194,862
2014 Data (6/2015)	167,931	200,817
2015 Data (6/2016)	181,216	223,227
2016 Data (6/2017)	182,134	

Average 29K cases up to one year late.....

Certification of Completeness

Reminder: the requirement to certify when you have completed your submission for the data year

- Provide complete view of who is complete and who is still working on their submissions
- Maintains a record of when a facility is done and maintains
- a record of any explanation of volume below expected
- Helps us focus on working with Late Reporters

Physician Reporting

Claims received by Year

° 2013	4,565,532
° 2014	3,241,465
° 2015	3,449,533
° 2016	3,884,936
° 2017	1,684,871

• Total 17,030,785

• 785 of 901 physicians have sent data (88%)

Physician Reporting

Dermatology Abstracts

· 2011	5,691 abstracts reported
• 2012	7,560 abstracts reported
· 2013	7,647 abstracts reported
· 2014	9,559 abstracts reported
· 2015	11,333 abstracts reported
· 2016	18,859 abstracts reported
 2017 (as of July 1) 	8,534 abstracts reported

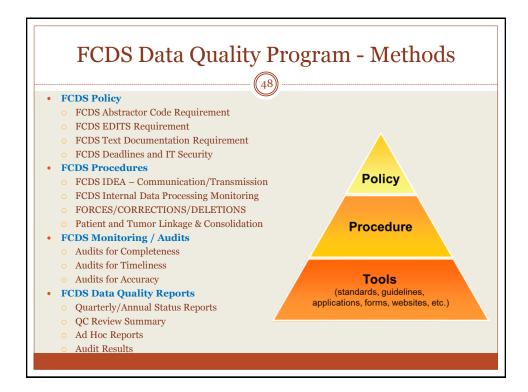
Total since inception.....69,183 abstracts • 729 of 943 have sent data (77% of registered)

2016 Physician Reporting

Oncologists	519,211	Claims Received
Urologists	682,562	Claims Received
HEMA/ONC	2,519,398	Claims Received
Hematologists	13,030	Claims Received

(as of July 1, 2017)





Submission Summary & QC Review Sample

Description	# Cases	% of Tot
Total Cases Submitted to FCDS 1/1/2016-12/31/2016 – All Sources	212,547	100%
Total Cases - NO CHANGE - Pass ALL Edits - No Visual Review by FC or QC	201,087	94.6%
	1	1
Fotal Cases – FC Visual Review (FC Review to assess case for possible FORCE)	11,460	5.4%
 FORCED (EDIT Override Confirmed and FORCE was set - NOT an error) 	4,276	2.0%
 CORRECTED (1 or more corrections made based on text – NOT a FORCE) 	5,046	2.4%
• DELETED (duplicate case, not a reportable neoplasm, not a new primary)	2,138	1.0%
Total Cases – Every 25 th Case QC Review Sample/Visual Editing		
• Sample includes <u>4% of analytic</u> hospital, radiation, surgery center cases	9,951	4.7%
 Sample includes <u>ALL male breast</u> and <u>ALL pediatric</u> cases 	í.	
 Sample <u>does not include</u> dermatology or other <u>physician office cases</u> 		
Sample <u>does not include</u> dermatology or other <u>physician office cases</u> Total Cases Visually Edited by FCDS in 2014 (combined FC and/or QC Review)	21,411	10.1%

Description	# Cases	% of Total
Total Cases – Every 25 th Case QC Review Sample/Visual Editing	9,951	4.7% of All Cases
Total Cases - NO CHANGE on OC Review	6,874	69.1% of QC Sample
Total Cases Sent to Facility with Correction or Inquiry	3.077	30.9% of QC Sample
Fotal Cases Sent to Facility with Correction or Inquiry	3,077	30.9% of QC Sample
Fotal Cases Sent to Facility with Correction or Inquiry • NO CHANGE after Follow-Back to Facility	3,077 408	30.9% of QC Sample 13.3%
· · · ·	- / -	
NO CHANGE after Follow-Back to Facility	408	13.3%
NO CHANGE after Follow-Back to Facility FORCED (<i>EDIT Override Confirmed - NOT an error</i>)	408 39	13.3% 1.3%

	(51)				
AHCA In-Patient Follow-Back	2010	2011	2012	2013	2014
Missed Case - Abstract	5,257	4,063	3,480	3,429	2,848
Abstracted but Not Transmitted	705	669	632	851	693
Total Missed Cases	5,962	4,732	4,112	4,280	3,541
Not Reportable - NED	5,371	5,174	6,024	5,645	5,087
Not Reportable - Not Malignant	2,461	2,348	1,899	1,618	975
Not Reportable - Equivocal	3,466	3,396	3,640	3,253	2,145
Not Reportable - No Mention CA	3,164	3,865	4,656	4,103	1,596
Not Reportable - Other	2,112	2,342	2,237	1,709	4,489
Total Not Reportable	16,574	17,125	18,456	16,328	14,292
Follow-Back Not Returned	436	780	774	732	841
Total AHCA In-Patient Follow-Back	22,972	22,637	23,342	21,340	16,690

AHCA Ambulatory Follow-Back	2010	2011	2012	2013	2014			
Missed Case - Abstract	6,275	4,338	3,757	4,002	3,277			
Abstracted but Not Transmitted	575	498	521	581	576			
Total Missed Cases	6,850	4,836	4,278	4,583	3,853			
Not Reportable - NED	2,573	2,573	2,361	2,651	2,455			
Not Reportable - Not Malignant	2,599	2,576	793	798	716			
Not Reportable - Equivocal	785	710	498	448	385			
Not Reportable - No Mention CA	727	837	1,091	577	377			
Not Reportable - Other	2,741	3,061	1,559	1,052	1,218			
Total Not Reportable	9,425	9,757	6,302	5,562	5,151			
Follow-Back Not Returned	1,549	2,366	1,304	1.559	2,069			
Total AHCAAmbulatory Follow-Back	17,824	16,959	11,884	11,668	11,785			

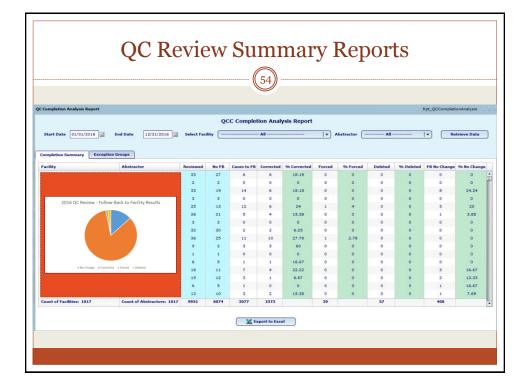
RQRS and FCDS Reporting

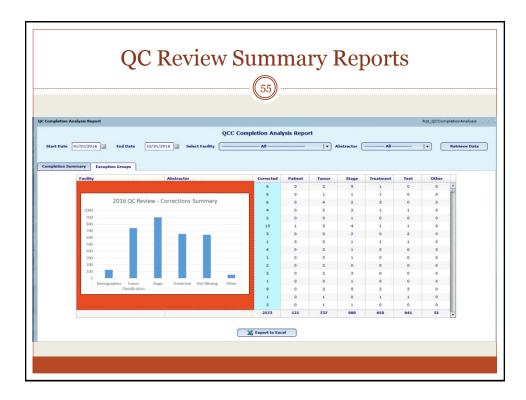
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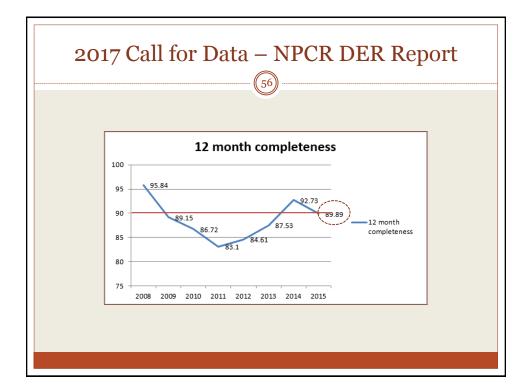
	Quarterly	Quarter
Measure-e		Quarter
	disible (ser) of	
Measure-eligible (ME) sites* required; All sites accepted		
Not Applica	able	
Not Applicable		
At least semi- annually	At least semi- annually	At least semi- annually
Monthly		
Measure-eligible (ME) sites* required; All sites accepted		
25% of ME cases	50% of ME cases	75% of ME case
Cases with errors are resubmitted error-free when complete		
At least qui	arterly	
	At least semi- annually Monthly Measure-e required; All sites act 25% of ME cases Cases with error-free	At least semi- annually Monthly Measure-eligible (ME) si required; All sites accepted 25% of ME cases ME cases Cases with errors are re-

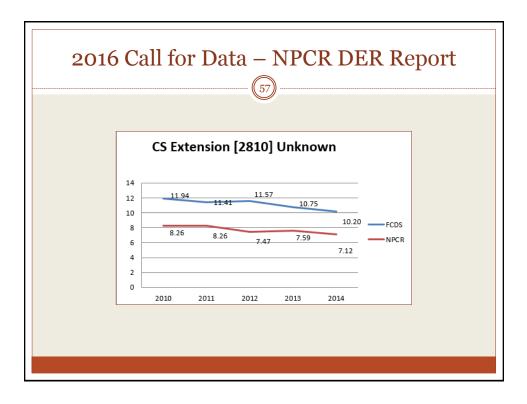
FCDS Data Submission Requirements

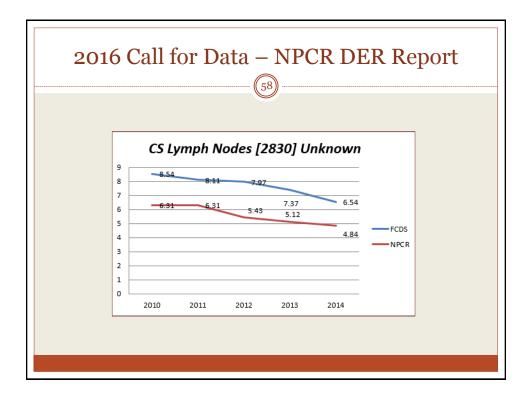
- Frequency Quarterly/Monthly
- E-updates to Cases NOT DONE
- Reportable Cancers ALL
- Data Timeline 6 months post dx/tx with June 30th Annual Deadline
- Data Quality Pass All FCDS EDITS
- Data Completeness DX/TX 1st Crs for ALL Analytic Cases – <u>DO NOT</u> <u>SUBMIT CASES IF INCOMPLETE!!!</u>
- June 30th Use TX Recommended Codes for any still incomplete cases.

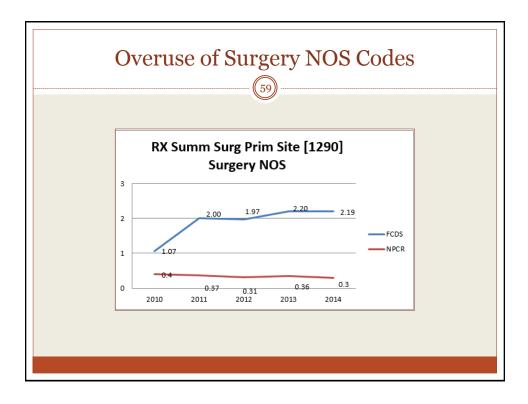


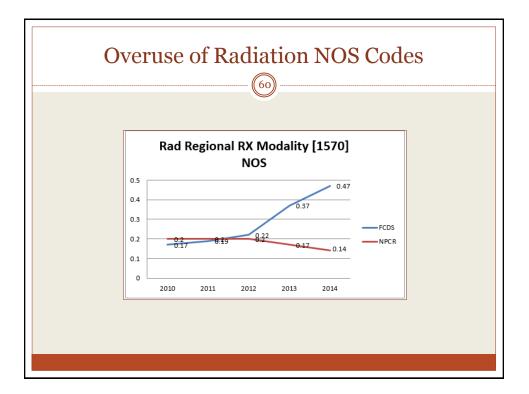


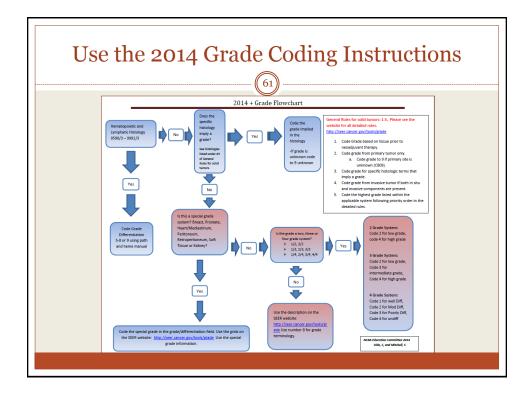


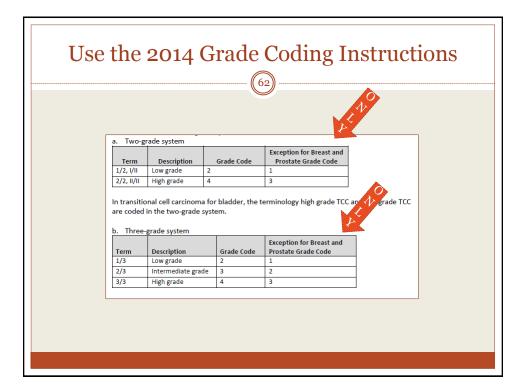


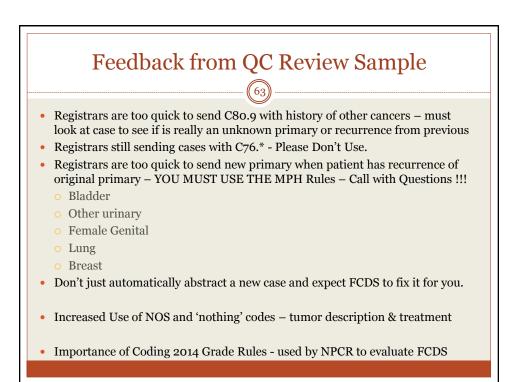


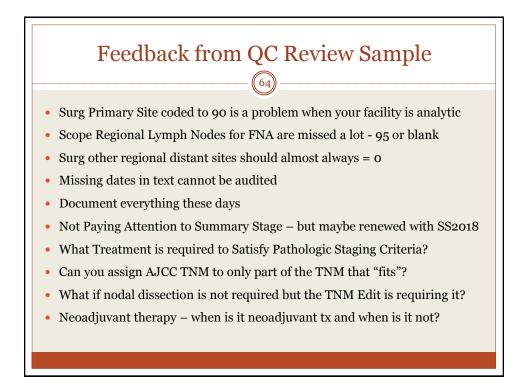


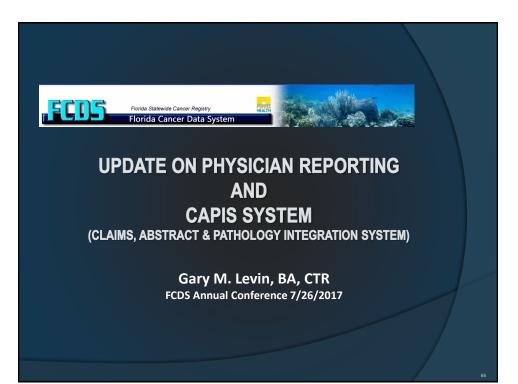














Background

O Received Over 17 Million Claims

- Primarily Medical Oncologists and Dermatologists
- Registration of Physician
 - Over 2,000 Physicians Registered
 - Used Florida Licensure and NPI to Identify
 - Mass e-mail sent where e-mail available
 - EXTREMELY Labor Intensive
- Statewide Coverage

Results – Treatment Enhancing Abstracts

- Patient/Tumor Linked Successfully
- Shadow image of consolidated Patient and Tumor data
- Overlay all treatment information gleaned from claims
- Process, link and consolidate according to routine process
- Improves First Course Therapy
- Date of Last Contact set to highest claims date

Results – Treatment Enhancing Abstracts

Dx Year	Chemo	Surgery	Radiation	Hormone	BRM
2010	1,298	0	6	73	4
2011	3,141	2	81	159	10
2012	3,481	20	409	257	101
2013	6,417	134	1,307	842	706
2014	8,158	181	1,953	1,239	1,177
2015	5,957	64	1,367	796	991
Total	28,452	401	5,123	3,366	2,989
Processed	54,163				
Enhancements	40,331				

Results – Treatment Enhancing Abstracts

Chemo Improvement By Site	Count
Lung and Bronchus	7,782
Breast	6,830
Pancreas	1,617
Non-Hodgkin Lymphoma - Nodal	1,440
Rectum	1,031
Myeloma	825
Esophagus	752
Ovary	638
Urinary Bladder	630
Sigmoid Colon	582

Radiation Improvement by Site	Count
Prostate	2,217
Breast	1,007
Lung and Bronchus	814
Rectum	179
Esophagus	78
Brain	74
Cervix Uteri	65
Anus, Anal Canal and Anorectum	64
Larynx	63
Corpus Uteri	57

Results – New Incidence Abstracts

- Claims Abstracts Not Matching Database
- Link claims abstract to Pathology Reports
- Visual Review (Labor Intensive)
 - Create case finding abstracts
 - Link to existing cases (missed automated linkage)
 - Send case to physician for follow back
 - Mark as non-cancer/non-reportable case

	Partner Tate Catter for the Tate Standy of the Tate Standy Partner Tate Catter for the Tate Standy of the Tate Standy Partner Tate Catter for the Tate Standy Partner Tate Standy Partner Tate Standy Partner Tate Standy Partner Tate State Standy Partner Tate Standy Partner Tate Standy Partner Tate State
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-		PathEntry	
Process Site Hist Beh Lat Spec/DX Sts Action V	Refresh lice Claims Not Linked Claims Linked laim	New Abstract Non-Cancer Entry Not Enough Info Existing Abstract	
C187 8140 3 0 2013-02-25 M-1 Set	Path Not Linked Path Linked	Demographics Diagnosis	
	laim	Treatment	
2012-10-31 M-3	ath	Surg Primary Site 00 List Surgery Date Flag 11	
2012-10-31 M-3	Reportable Term Skin Site Term	Reason No Surgery 9 0	
	NonReportable Term Negation Term	Scope Reg LN Surgery	
Count: 6	Skin Term Site Term	0-None v	
Claims Text Demographic Data Message Log		Surg Other Reg/Distant	
Claims Status: P - Natches Patient, Does Not Match Turnor - Naturity: N	t - Mature	Surgery (1000 Chandler Max)	
Site Texts HEPATIC FLEXURE OF COLON		NO TEXT CREATED BY CAPIS	
Histology Text: Neoplasm, malignant			
Surgery Text - Treatment: 00 Date: null null		Text (2000 Charafar Max)	
Radiation Text - Treatment: O Date: null Modality: 00		Radiation 0 Q Date 11 Q NO TEXT	
Chemotherapy Text - Chemo: 3 Date: Non Apr 15 00:00:00 GMT-0400	2013	Red Reg Hodelity 00 Reason No Radiation 1 NO TEXT	
04/15/2013-06/30/2014:39190:Fluorouradi injection[x35]04/15/2013-0	99/23/2013:39263:Cxalplatin[x11]	ChemoTherapy 3 3 Date 04/15/2013 3 04/15/2013- Hormone 00 3 Date 11 3 10 HO TEXT	
Normone Text - Hormone: 00 Date: null null		BRM/Immuno 01 C Date 06/17/2013 C 06/17/2013-	
BRM/Immuno Text - Therapy: 01 Date: Mon Jun 17 00:00:00 GMT-040	10 2013	Trans/Endo 00	
06/17/2013-02/24/2014:19035:Bevacizumab injection[x19]		Other 0 🖸 Date 11 🔣 NO TEXT	
Transplant/Endocrine Text - Treatment: 00 Date: null null		Treatment Status 1-Treatment given	
Other Text - Treatment: null Date: null		Surg/Rad Seq 0-No Radiation and/or no surgery v	
Semarka:		Systemic Surg Seq 9-Sequence unknown	
null		Text	
		More Text	

Results – New Incidence Abstracts

Dx Year	New Cases
2010	768
2011	5,968
2012	3,359
2013	8,400
2014	7,271
2015	9,455
Total	35,221

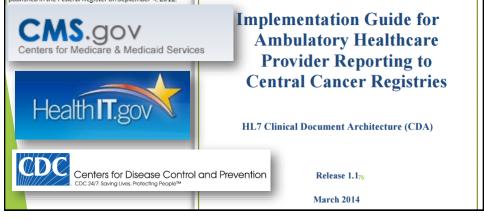
New Case by Site	New Cases
	New Cases
Miscellaneous Heme/Lymph Malignancies	16,944
Non-Hodgkin Lymphoma - Extranodal	4,729
Chronic Lymphocytic Leukemia	3,933
Myeloma	2,192
Aleukemic, subleukemic and NOS	1,610
Non-Hodgkin Lymphoma - Nodal	1,084
Breast	1,021
Chronic Myeloid Leukemia	889
Acute Myeloid Leukemia	539
Other Lymphocytic Leukemia	472
Urinary Bladder	258
Melanoma of the Skin	252
Prostate	228



leaningful Use Overview

The American Recovery and Reinvestment Act, enacted in February 2009, includes many measures to modernize our nation's infrastructure, one of which is the <u>Health Information Technology for Economic and Clinical Health (HITECH) Act</u>, at The HITECH Act supports the concept of electronic health records-meaningful use (EHR-MU), an effort led by the Centers for Medicare & Medicaid Services (CMS) and the Office of the National Coordinator for Health IT (ONC). HITECH proposes the meaningful use of interoperable electronic health records throughout the United States' health care delivery system as a critical national goal.

CMS establishes the criteria that eligible professionals (EPs) and hospitals as well as critical access hospitals must meet to qualify for Medicare and/or Medicaid electronic health record (EHR) incentive payments as they adopt, implement, upgrade, or demonstrate meaningful use of certified EHR technology. ONC establishes the standards, implementation specifications, and certification criteria for EHR technology that will support implementation of the Stage 2 criteria described by CMS. The criteria and standards for Stage 2 Meaningful Use Final Rules released by the <u>ONC</u> *a* and <u>CMS</u> *a* were published in the *Federal Register* on September 4, 2012.



What is MU? Meaningful Use Definition & Objectives

Meaningful Use Defined

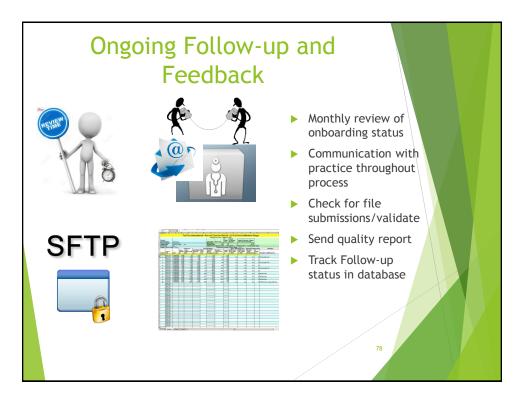
Meaningful use is using certified electronic health record (EHR) technology to:

- · Improve quality, safety, efficiency, and reduce health disparities
- Engage patients and family
- · Improve care coordination, and population and public health
- · Maintain privacy and security of patient health information

Ultimately, it is hoped that the meaningful use compliance will result in:

- Better clinical outcomes
- Improved population health outcomes
- Increased transparency and efficiency
- Empowered individuals
- More robust research data on health systems

Meaningful use sets specific objectives that eligible professionals (EPs) and hospitals must achieve to qualify for Centers for Medicare & Medicaid Services (CMS) Incentiv∉ Programs.

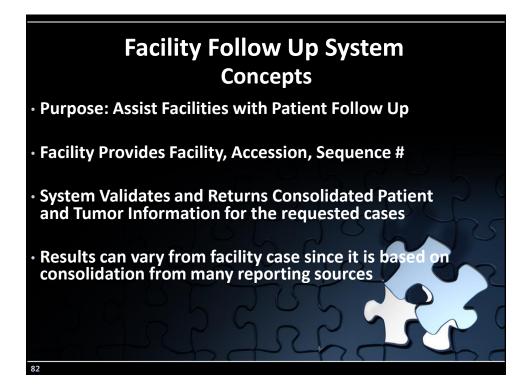


Future Steps

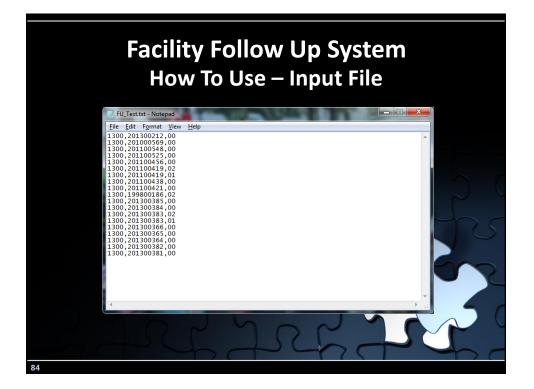
- Incorporate MU abstracts into workflow
- Integrate into FCDS claims/pathology workflow
- Streamline data validation and integration into registry database
- Continue to work with providers for registration, onboarding, and audit documentation.

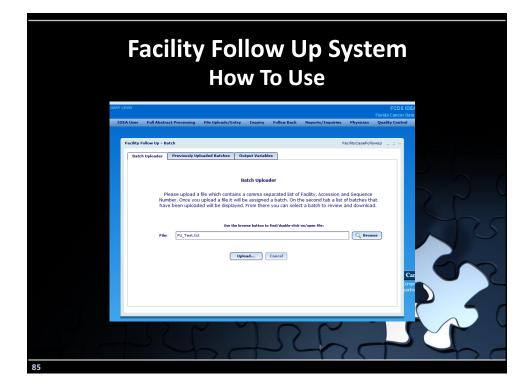


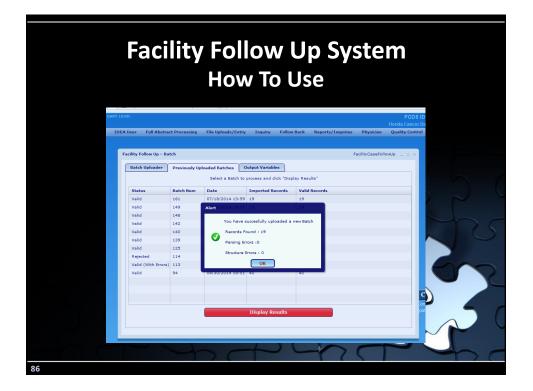
	Facility Follow Up System Usage Statistics							
Year	# Users	Requests						
2014	23	215,155						
2015	18	139,352						
2016	17	334,776						
2017	10	80,754	The					
Total	68	770,037						
Unique Users	43							
81	25	rf.						



	ow Up System pts - Input
NAACCR Data Item	Field Name
540	Reporting Facility
550	Accession NumberHosp
560	Sequence NumberHosp
83	



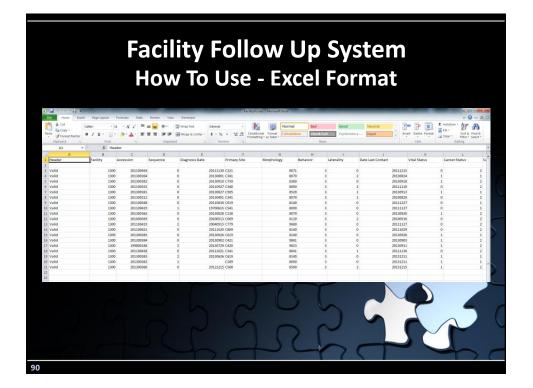


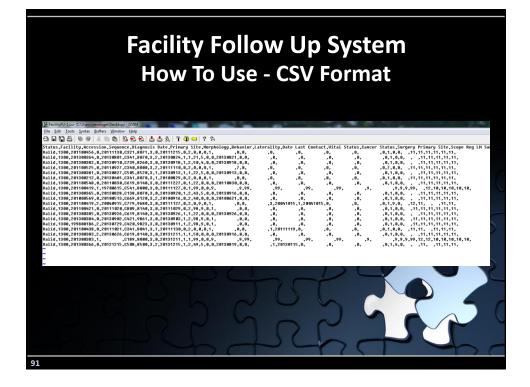


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Batch Uploader Previously Uploaded Batche Output Variables Select a Batch Num Date Imported Records Vald Records Valid 161 07/18/7014 13:93 19 19 Valid 161 07/28/7014 13:93 19 19 Valid 149 06/26/2014 14:07 19 19 Valid 142 05/29/2014 14:02 19 19 Valid 140 05/27/2014 14:02 19 19 Valid 130 05/27/2014 14:25 19 19 Valid 125 05/27/2014 12:25 19 19 Valid 125 05/27/2014 12:25 19 19 Valid 125 05/27/2014 12:25 12 10 Valid (With Errory) 113 05/07/2014 12:25 12 10					
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Valid 149 06/26/2014 14:07 19 19 Valid 148 06/26/2014 13:43 19 19 Valid 142 05/29/2014 13:43 19 19 Valid 142 05/29/2014 13:20 19 19 Valid 140 05/27/2014 11:25 19 19 Valid 139 05/27/2014 12:25 19 19 Valid 123 05/14/2014 13:06 19 19 Valid 123 05/07/2014 14:04 10 10 Valid (With Errors) 113 05/07/2014 12:35 12 10					
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Rejected 114 03/07/2014 12:40 13 10 Valid (With Errors) 113 05/07/2014 12:45 12 10					
	Rejected 114			10	
Valid 94 04/30/2014 18:51 40 40	Valid (With Errors) 113	05/07/2014 12	:35 12	10	
	Valid 94	04/30/2014 18	:51 40	40	
Display Results					

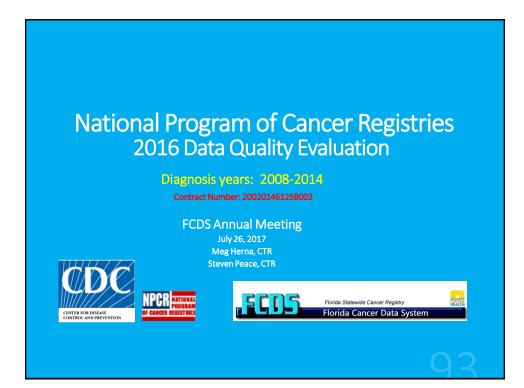
User Full Abstract Processing File Uploads/Entry Inguiry Follow Back Reports/Inguiries Physician Quality Centre ackity Follow Up - Batch Facility CaseFollowUp - Batch Facility CaseFollowUp - 2 ± Fa	Facility Case=FollowUp - 2 2 Facility Case=FollowUp - 2 2 Tatch Uploaded Batcher Output Variables Output Variables Status Facility Case=FollowUp - 2 2 Status Facility Case=FollowUp - 2 2 Status Primary Site Morphology Behavior (Case NOT at FCDS 1300 Sequence Diagnosis Date Primary Site Morphology Behavior (Case NOT at FCDS 1300 South colspan="2">South colspan="2">Colspan="2" Valid 1300 201300400 Q Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2"		
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Valid 1505 201300179 02 20130424 C341 8140 3 Valid 1300 20130028 00 2013026 C619 8140 3 Valid 1300 20130034 00 20130022 C421 9140 3 Valid 1300 20130034 00 20130022 C421 924 3 Valid 1505 20130032 02 2013068 C508 8522 2	Valid 1505 201300179 02 20130424 C341 8140 3 Valid 1300 20130028 00 20130926 C619 8140 3 Valid 1300 20130038 00 2013092 C421 961 3 Valid 1505 20130032 02 2013080 C506 852 2 Valid 1300 20130032 02 20101215 C421 9732 3	Case NOT at FCDS 1300 201300400 02	
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Valid 1505 201300332 02 20130808 C508 8522 2	Valid 1505 20130332 02 20130808 C508 8522 2 2 Valid 1300 20130219 00 20101215 C421 9732 3 4	Valid 1300 201300385 00 20130926 C619 8140 3	1
	Valid 1300 201300219 00 20101215 C421 9732 3	Valid 1300 201300384 00 20130902 C421 9861 3	
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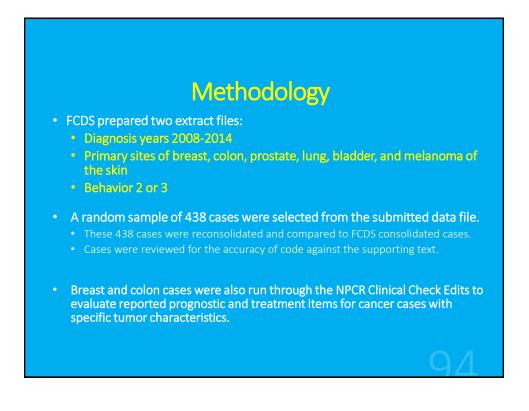
			Hc	ow To) Us	е		
LEVIN								FCDS Florida Cance
EA User	Full Abstract	Processing	File Uploads/Er	ntry Inquiry F	Follow Back Re	eports/Inquiries	Physician	Quality Cont
Facility Fol	ow Up – Batc	•					FacilityCaseFol	lowUp _ = ≈
Batch U	ploader I	Previously Uploa	aded Batches	Output Variables				
			-					
Status	Facility	Accession 201100456	Sequence 00	Diagnosis Date 20111130	Primary Site	Morphology 8071	Behavior	Later: *
Valid	1300	201100456	00	20130801	C321 C341	8070	3	2
Valid	1300	201300382	00	20130910	C739	8260	3	0
Valid	1300	201100525	00	20110927	C340	8000	3	2
Valid	1300	201300381	00	20130827	C505	8520	3	1
Valid	1300	201300212	00	20130401	C341	8070	3	1
Valid	1300	201100548	00	20110830	C619	8140	3	0
	1300	201100419	01	19700615	C541	8000	3	0
Valid	1300	201300365	00	20130828	C138	8070	3	0
Valid Valid		201000569	00	20100513	C669	8120	3	2
	1300	201000303						
Valid	1300 1300	201100419	02	20040915	C779	9680	3	0
Valid Valid			02 00	20040915 20111020	C779 C809	9680 8140	3	0











Data Elements Reviewed

- 40 Registryno 380 Sequence Number--Central 390 Date of Diagnosis

- 1201 RX Date Surgery Flag#
- 1210 RX Date—Radiation 1211 RX Date—Radiation Flag#

1220 RX Date—Chemo 1221 RX Date—Chemo Flag#
 400
 Primary Site
 1240
 RX Date - BRM

 410
 Laterality
 1241
 RX Date - BRM Flag#

 440
 Grade
 1250
 RX Date - Other

 522
 Histologic Type ICD-O-3
 1251
 RX Date - Other Flag#

 523
 Behavior Code ICD-O-3
 1260
 Date of Initial RX-SEER

 540
 Reporting Facility
 1261
 Date of Initial RX-SEER Flag#

 820
 Regional Lymph Nodes Positive+
 1270
 Date of 1st Crs RX—CoC

 830
 Regional Lymph Nodes Examined+
 1271
 Date of 1st Crs RX—CoC Flag#

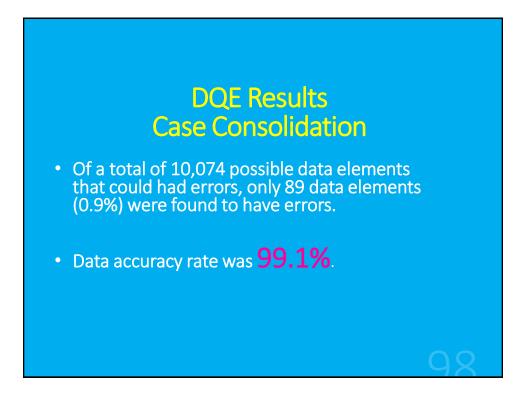
 1200
 PK Date of Lymph Nodes Examined+
 1271
 Date of 1st Crs RX—CoC Flag#
 1290 RX Summ—Surg Prim Site 1292 RX Summ—Scope Reg LN Sur 1294 RX Summ—Surg Other Reg/Dis

Data Elements Reviewed

1360	Rx Summ—Radiation	2620	RX Text—Radiation (Beam)
1390	RX Summ—Chemo	2630	RX Text—Radiation Other
1400	RX Summ—Hormone	2640	RX Text—Chemo
1410	RX Summ—BRM	2650	RX Text—Hormone
1420	RX Summ—Other	2660	RX Text—BRM
1570	Rad—Regional RX Modality	2670	RX Text—Other
2520	Text—DX Proc—PE	2680	Text—Remarks
2530	Text—DX Proc—X-ray/Scan	2800	CS Tumor Size+
		2810	CS Extension+
2540	Text—DX Proc—Scopes	2830	CS Lymph Nodes+
2550	Text—DX Proc—Lab Tests	2850	CS Mets at Dx+
2560	Text—DX Proc—Op	2880	CS Site Specific Factor 1+
2570	Text—DX ProcPath	2900	CS Site Specific Factor 3+
2580	Text—Primary Site Title	3020	Derived SS2000
2590	Text—Histology Title	3250	RX Summ—Transpint/Endocr
2600	Text—Staging		

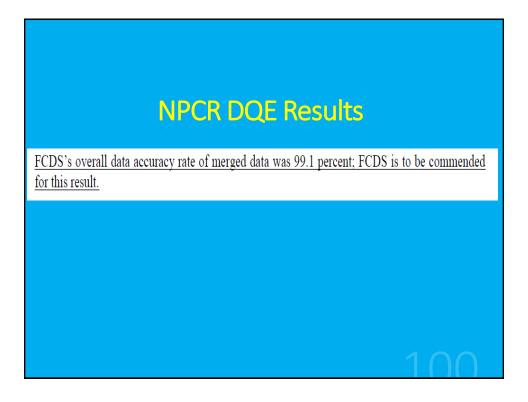
Number of Data Elements Reviewed by Site

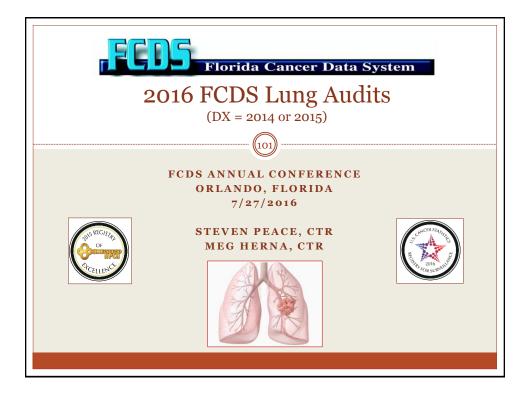
Site	Number of Data Elements (a)	Number of Abstracts (b)	Total Number of Data Elements (abstract-level) (c = a * b)	Number of Consolidated Tumors (d)	Total Number of Data Elements Audited (tumor-level) (e = a * d)
Bladder	23	160	3,680	73	1,679
Breast	23	158	3,634	73	1,679
Colon	23	151	3,473	73	1,679
Lung	23	154	3,542	73	1,679
Melanoma	23	154	3,542	73	1,679
Prostate	23	153	3,519	73	1,679
Total	138	930	21,390	438	10,074



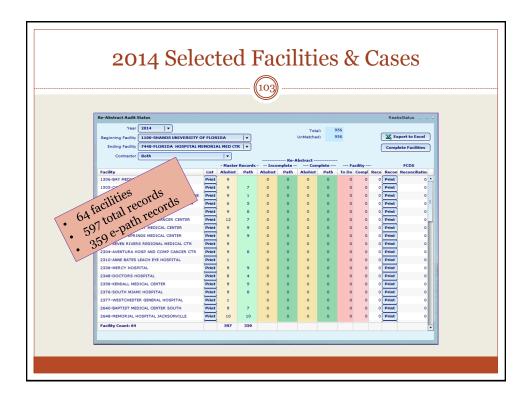
DQE Results Frequency of multiple primary errors across all sites

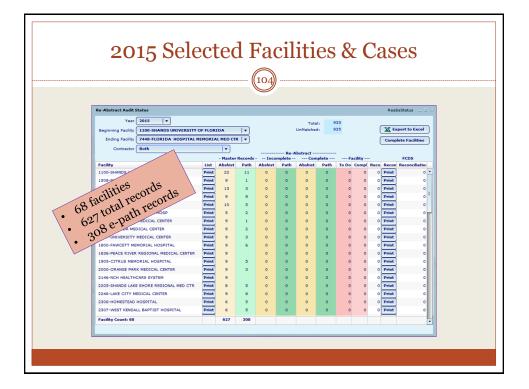
Total number of cases analyzed	Number of cases with no errors		Accuracy proportion
1057	1015	43	96.0%
Total number of patient level records analyzed	Number of patients with no errors	Number of patients with error	Accuracy proportion
400	372	28	93.0%

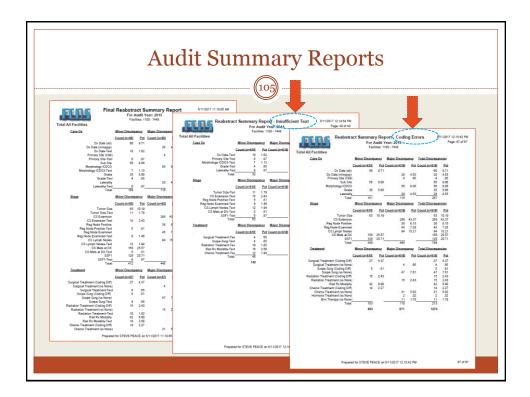




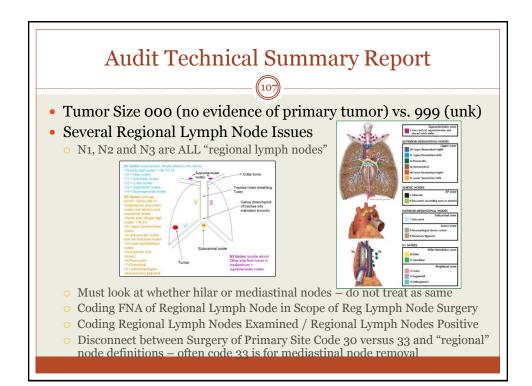
2016 A	
FCDS DATA VALIDATION AUDIT with E-PATH VERIFICATION Diagnosis Year: 2014 or 2015 Cascer Sitt: Lung	FCDS DATA VALIDATION AUDIT with E-PATH VERIFICATION 11/1/2010
Hospital Analytic Cases Only Facilities: Appendix A	Page Table of Castern T
3. ELIGIBILITY • Facilities will be selected according to enhanced 5-year selection criteria as well as straffield year case(). • A facility may be selected for a mothed (grimmay lung cases). • O Enter of Diagnosis (10/10/1-13/3/10/4) (Edu Diagnosis 01.01/2015-12/31/2) • D Enter of Diagnosis (10/10/1-13/3/10/4) (Edu Diagnosis 01.01/2015-12/31/2) • D Enter of Diagnosis (10/10/1-13/3/10/4) (Edu Diagnosis 01.01/2015-12/31/2) • D Enter of Diagnosis (10/10/1-13/3/10/4) (Edu Diagnosis 01.01/2015-12/31/2) • D Enter of Diagnosis (10/10/1-13/3/10/4) (Edu Diagnosis 01.01/2015-12/31/2) • D Enter of Diagnosis (10/10/1-13/3/10/4) (Edu Diagnosis 01.01/2015-12/31/2) • D Enter of Diagnosis (10/10/1-13/3/10/4) (Edu Diagnosis 01.01/2015-12/31/2) • D Enter of Diagnosis (10/10/1-13/3/10/4) (Edu Diagnosis 01.01/2015-12/31/2) • D Color Hintology Net = 0590-0592 (to) tymphoma, leukemia, or other hematopoieti • Class Educion will instified by 2014 or 2015 reporting year casload for primary image caser 2014 e 2015 diagnoses. • Pathology Selection will be based on any e-pathology report(1) with D ate of Spacinaen within original Date of Diagnosis (to) millum 5 do any solve accurated code on the reginal caser	Appendig F - Sample Auditor Orientation for Auditor Webcast Appendig C - Sample Reports for a constraint of the Auditor The Audit of Auditor Webcast Appendig K - Audit Timeline c multipancy) tets at factility from caleady year 0 days of the

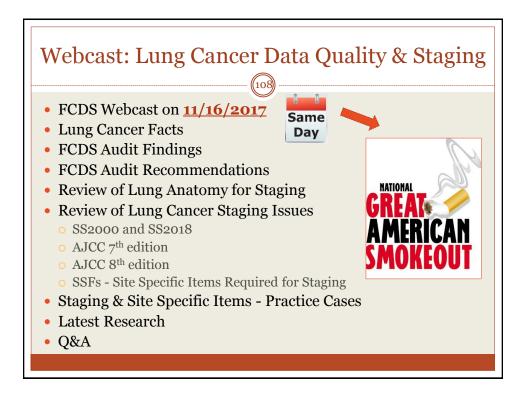


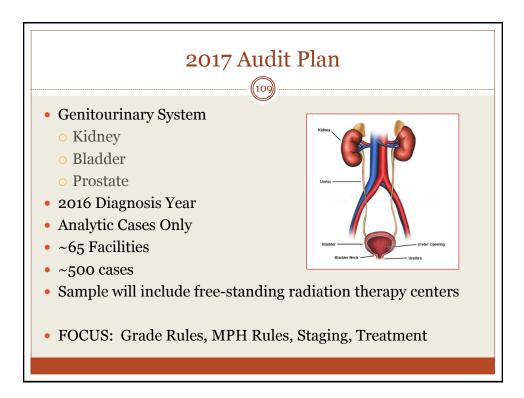




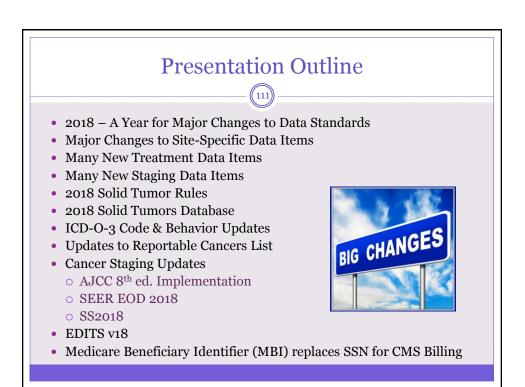
Audit S	ummary 2	Reports	
	(106)		
	<u> </u>		
FCDS 2016 Data	a Validation and E-Pathology R	eAbstract Audit	
	Report Key		
(Major, Minor a	nd Text Errors Defined By Section	of Audit Report)	
Major Error	Minor Error	Text Error	
Major Errors are errors that may	Minor Errors are errors that will	Text Errors are errors found in	
result in significant changes to the	not result in significant changes to	recoding data from original text,	
case or may alter core data or key	the case or will not alter core	only. The original text resulted in	
information on the case	data/key information on a case	minor coding or other error that	
	,	was later resolved at time of	
		facility reconciliation when text	
		was provided after-the-fact	
Example: Date of Diagnosis after	Example: Date of Diagnosis after	Example: There was no text	
final reconciliation was different	final reconciliation was different	documentation to identify the	
by more than 1 month	by less than 30 days	correct Date of Diagnosis –	
by more than 1 month	by less than 50 days	However, at the time of facility	
		reconciliation sufficient text was	
		provided to verify the dx date	
		provided to verify the ux dute	
	Case Diagnosis Data Items		
Date of Dx > 1 month	Date of Dx < 1 month	Any Tumor Item Noted as - Text	
Laterality	Primary Sub Site Code	(Indicates text incomplete)	
Morphology	Grade Value		
Behavior			
Stage at	Diagnosis and Stage-Related D	ata Items	
CS Tumor Size/Extension	Tumor Size Value	Any Stage Item Noted as - Text	
CS Lymph Nodes	# Regional Nodes Positive	(Indicates text incomplete)	
CS Mets at Dx	# Regional Nodes Examined		
	Any Site Specific Factor Code		

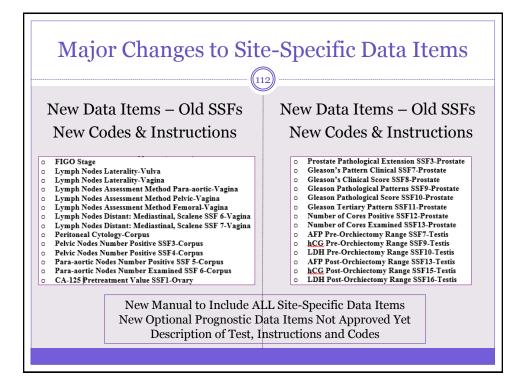






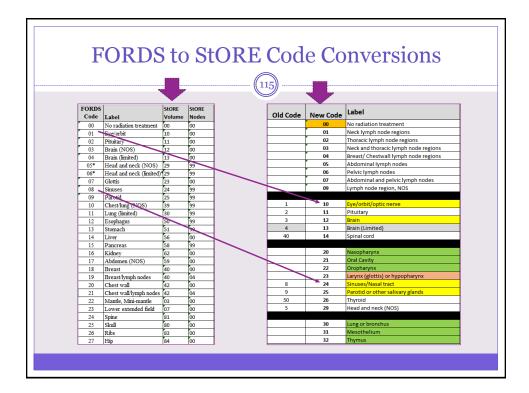


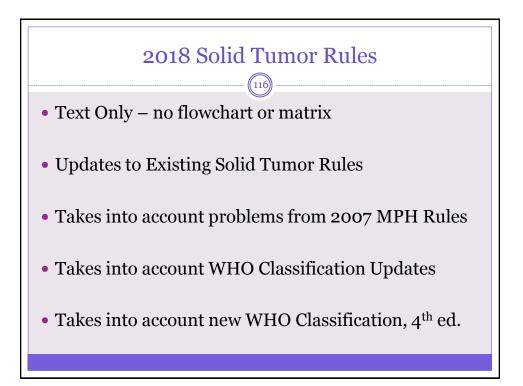


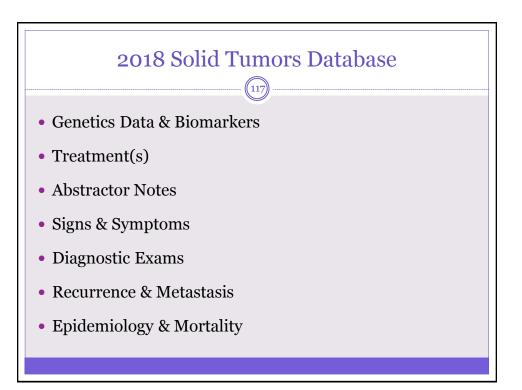


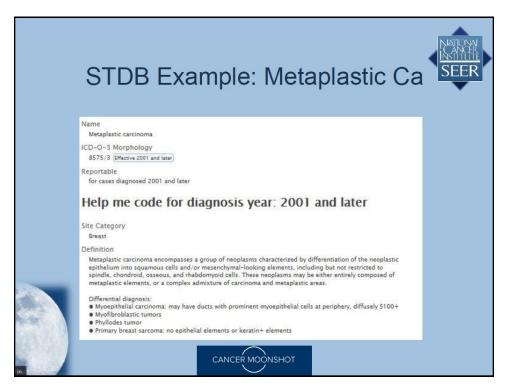


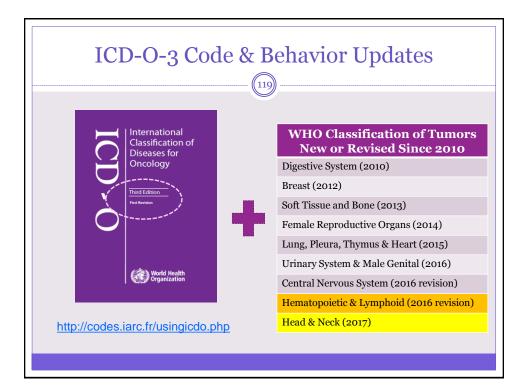
Many New Trea	tment I	Dat	ta Items
	114	NU/EE	NON Dogwinod
Radiation		NVER	RSION Required
Phase I Radiation Primary Treatment Volume (length 2)			StORE
Phase I Radiation to Draining Lymph Nodes (length 2)		StORE	
Phase I Radiation Treatment Modality (length 2)	FORDS Codes	Code	
Phase I Radiation External Beam Planning Technique (length 2)	00	00	No Radiation Treatment
Phase I Dose Per Fraction (Session) (length 5)	21	01	External beam, photons, low energy
Phase I Number of Fractions (Sessions) (length 3)	22, 23, 24, 25, 26,		
Phase I Total Dose (length 6)	27, 31, 41, 42, 43	02	External beam, photons, megavoltage
	40	03	External beam, protons
Phase II Radiation Primary Treatment Volume (length 2)	28	04	External beam, electrons
Phase II Radiation to Draining Lymph Nodes (length 2)	30	05	External beam, neutrons
Phase II Radiation Treatment Modality (length 2)	20	06	External beam, carbon ions
Phase II Radiation External Beam Planning Technique (length 2)	29	09	External beam, NOS
Phase II Dose Per Fraction (Session) (length 5)			
Phase II Number of Fractions (Sessions) (length 3)	51	10	Brachytherapy, intracavitary, LDR
Phase II Total Dose (length 6)	52	11	Brachytherapy, intracavitary, HDR
	53	12	Brachytherapy, Interstitial, LDR
Phase III Radiation Primary Treatment Volume (length 2)	54	13	Brachytherapy, Interstitial, HDR
Phase III Radiation to Draining Lymph Nodes (length 2)		14	Brachytherapy, electronic
Phase III Radiation Treatment Modality (length 2)	50	19	Brachytherapy, NOS
Phase III Radiation External Beam Planning Technique (length 2)			
Phase III Dose Per Fraction (Session) (length 5)	55*	20	Radioisotopes, Radium-232
Phase III Number of Fractions (Sessions) (length 3)	61	21	Radioisotopes, Strontium,-89
Phase III Total Dose (length 6)	62	22	Radioisotopes, Strontium-90
	55, 60	29	Radioisotopes, NOS
Number of Phases of Radiation Treatment to this Volume (length 2)		- 0	
Radiation Discontinued Early (Length 2) Total Dose (length 6)	<u>98</u> 99	98 99	Other, NOS Unknown

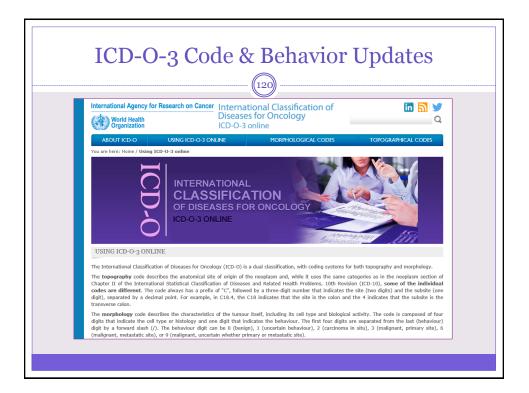


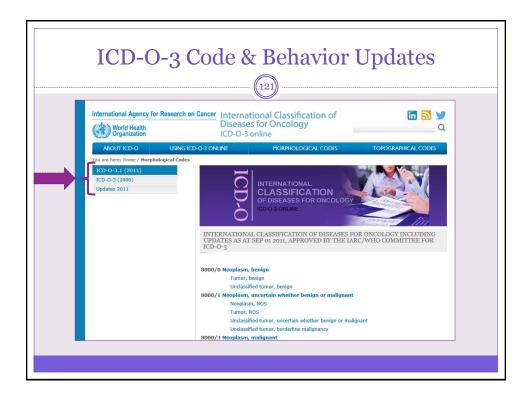


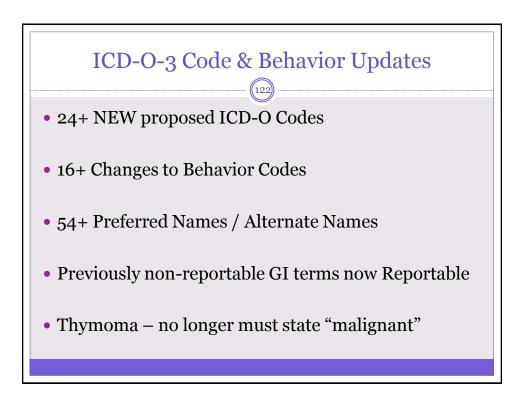








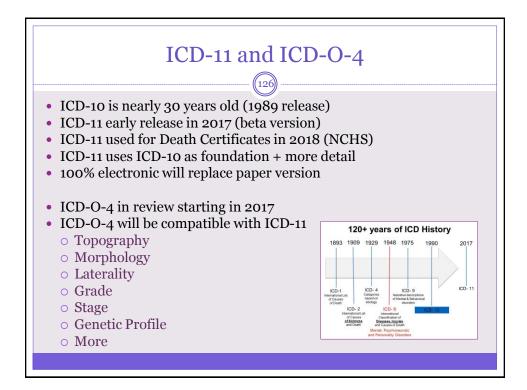


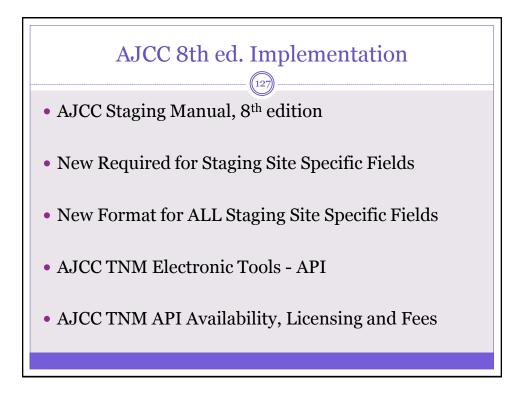


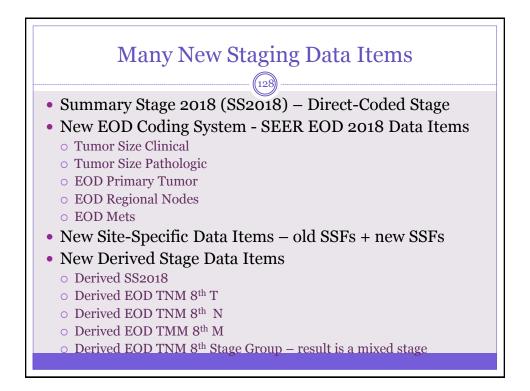
Change 👻	Cod	Description
New behavior code	8507/3	Invasive micropapillary carcinoma
New behavior code	8983/3	Adenomyoepithelioma with carcinoma
New code	8519/2	Pleomorphic lobular carcinoma in situ
New behavior code	8460/2	Serous borderline tumor-micropapillary variant/
New behavior code	8460/2	Non-invasive low grade seorous carcinoma
New related term	8503/2	Intraductal papilloma with ductal carcinoma in situ
New code	8509/2	Solid papillary carcinoma in-situ
New code	8509/3	Solid papillary carcinoma with invasion
New related term	8503/3	Invasive papillary carcinoma

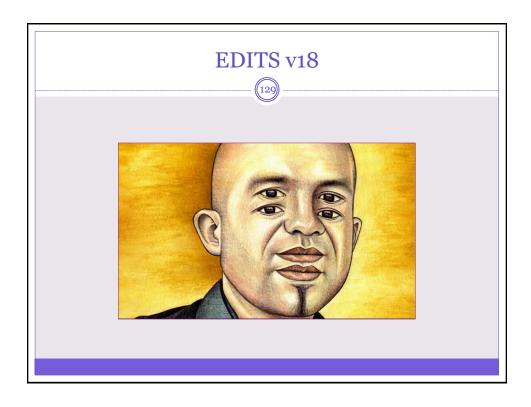
	IC	D-O-3 Updates - Lung
		\bigcirc
Change	▼ Cod ▼	Description
New related term	8551/3	Acinar adenocarcinoma
New behavior co	de 8250/2	Minimally invasive adenocarcinoma, non-mucinous
New code	8257/3	Minimally invasive adenocarcinoma, mucinous
New code	8023/3	NUT carcinoma
New behavior co	de 8842/3	Pulmonary Myxoid sarcoma with EWSR1-CREB1 translocation
New code	9086/3	Germ cell tumor with associated hematological malignancy
New related term	8250/3	Lepidic adenocarcinoma
New related term	8253/3	Invasive mucinous adenocarcinoma
New related term	8254/3	Mixed invasive mucinous & non-mucinous adenocarcinoma
New term/behavi	or 8410/2	Adenocarcinoma in-situ,non- mucinous
New term/behavi	or 8253/2	Adenocarcinoma in-situ, mucinous
See comment	8140/2	Adenocarcinoma in-situ
New code	8265/3	Micropapillary adenocarcinoma
New related term	8580/3	Metaplastic thymoma
New related term	8581/3	Type A thymoma
New related term	8582/3	Type AB thymoma
New related term	8583/3	Type B1 thymoma
New related term	8584/3	Type B2 thymoma
New related term	8585/3	Type B3 thymoma
New related term	8580/3	Sclerosing thymoma

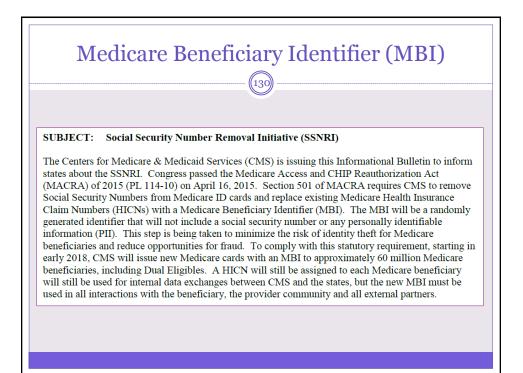
υp	odates to Reportable Cancers List
	(125)
Code	Term
8507/ <mark>3</mark>	Invasive micropapillary carcinoma
8983/ <mark>3</mark>	Adenomyoepithelioma with carcinoma
8460/ <mark>3</mark>	Serous borderline tumor-micropapillary variant Non-invasive low grade serous carcinoma
8441/ <mark>2</mark>	Serous tubal intraepithelial carcinoma
8380/ <mark>2</mark>	Atypical hyperplasia/Endometrioid intraepithelial neoplasia
8825/ <mark>3</mark>	Low-grade myofibroblastic sarcoma
8842/ <mark>3</mark>	Ossifying fibromyxoid tumor, malignant
8811/ <mark>1</mark>	Myxoinflammatory fibroblastic sarcoma (MIFS)
8250 <mark>/2</mark>	Minimally invasive adenocarcinoma, non-mucinous
8842 <mark>/3</mark>	Pulmonary Myxoid sarcoma with EWSR1-CREB1 translocation
8311 <mark>/3</mark>	Hereditary leiomyomatosis & RCC-associated RCC MiT Family translocation renal cell carcinoma (Important note: this histology IS NOT a synonym fo hereditary leiomyomatosis & RCC assoc RCC also coded 8811/3
8071/ <mark>2</mark>	Differentiated penile intraepithelial neoplasia Differentiated-type vulvar intraepithelial neoplasia
8410/ <mark>2</mark>	Adenocarcinoma in-situ, non- mucinous
8253/ <mark>2</mark>	Adenocarcinoma in-situ, mucinous
8620/ <mark>3</mark>	Adult granulosa cell tumor
9341/ <mark>3</mark>	Clear cell odontogenic carcinoma
9302/3	Ghost cell odontogenic carcinoma

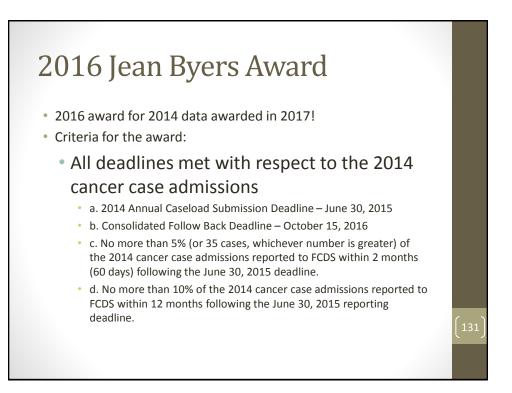




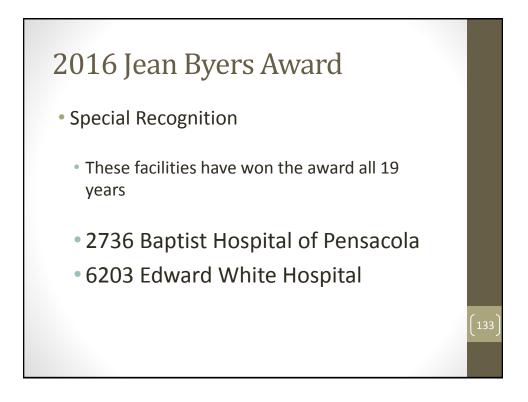










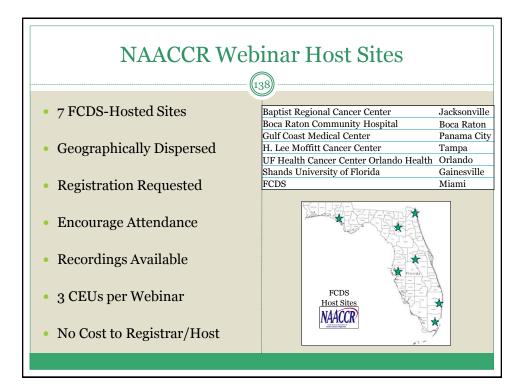


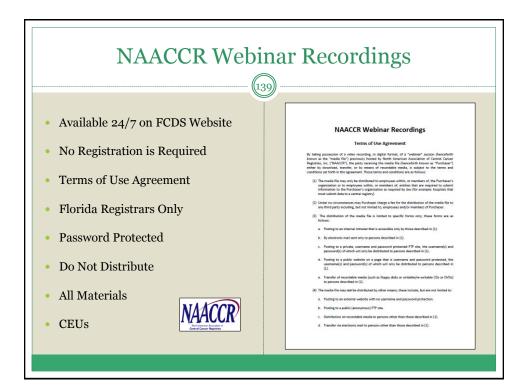




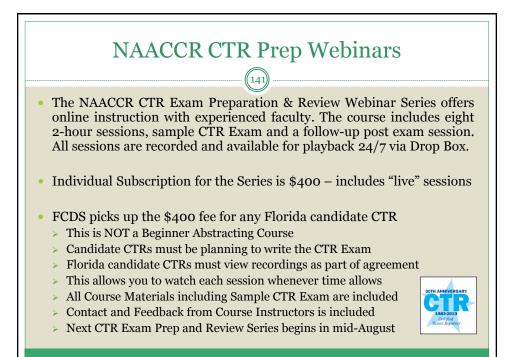


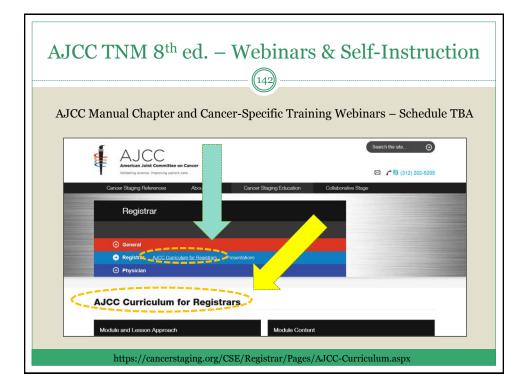
		(137)
Date	Time Schedule 3 rd Thursday	Presentation Title
8/17/2017	1:00pm – 3:00pm	Convention Brief: 2017 FCDS Annual Meeting Highlights
9/21/2017	1:00pm – 3:00pm	Biomolecular and Genetic Tumor Profiles: Classification and Characteristics of Disease, Required SSFs, CAP Biomarker Checklists, and Targeting Treatment
10/19/2017	1:00pm – 3:00pm	Lymphoid & Myeloid Neoplasms: 2016 Revision of the WHO Classification & You
11/16/2017	1:00pm – 3:00pm	Lung Cancer: FCDS Audit Findings, Anatomy, Staging Using the AJCC 8th ed., SSF Req'd to Stage
December	N/A	No Webcast Scheduled
1/18/2018	1:00pm – 3:00pm	2018 MPH Rules: MPH Rule Updates for Solid Tumors and Introduction to the Solid Tumors Database
2/15/2018	1:00pm – 3:00pm	AJCC Cancer Staging Manual 8th ed. and Summary Stage 2018

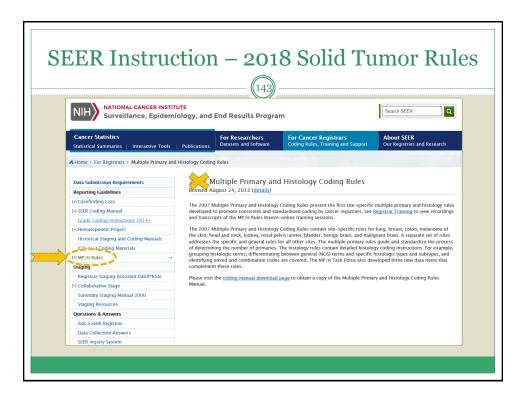


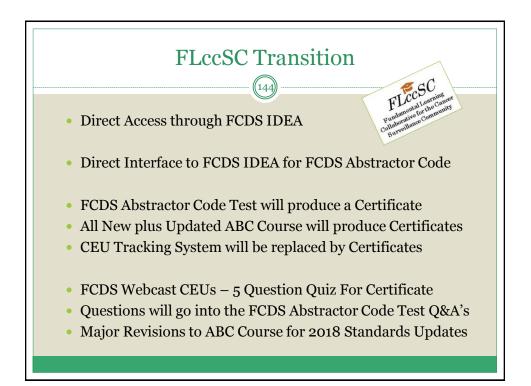


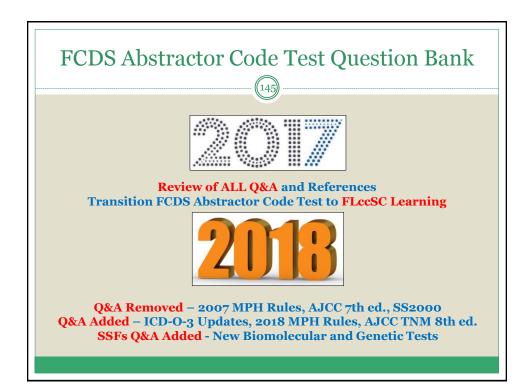
Date	Time	Presentation Title
10/5/2017	9:00am - 12:00pm	Collecting Cancer Data: Prostate
11/2/2017	9:00am - 12:00pm	Collecting Cancer Data: Larynx
12/7/2017	9:00am - 12:00pm	Collecting Cancer Data: Uterus
1/4/2018	9:00am - 12:00pm	Collecting Cancer Data: GIST and Soft Tissue Sarcomas
2/1/2018	9:00am - 12:00pm	Collecting Cancer Data: Stomach and Esophagus
3/1/2018	9:00am - 12:00pm	Abstracting and Coding Boot Camp: Cancer Case Scenarios
4/5/2018	9:00am - 12:00pm	Collecting Cancer Data: Pancreas
5/3/2018	9:00am - 12:00pm	Directly Coded Stage
6/7/2018	9:00am - 12:00pm	Collecting Cancer Data: Thyroid and Adrenal Gland
7/12/2018	9:00am - 12:00pm	Hospital Cancer Registry Operations - Topic TBD
8/2/2018	9:00am - 12:00pm	Multiple Primary and Histology Rules
9/6/2018	9:00am - 12:00pm	Coding Pitfalls

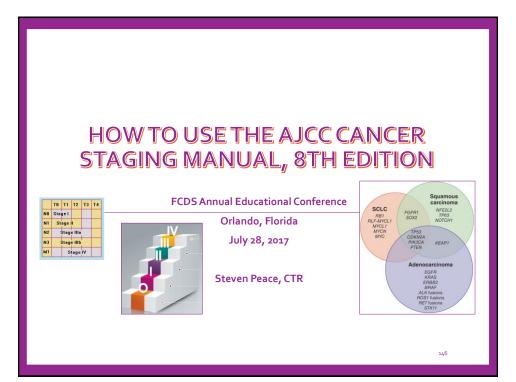


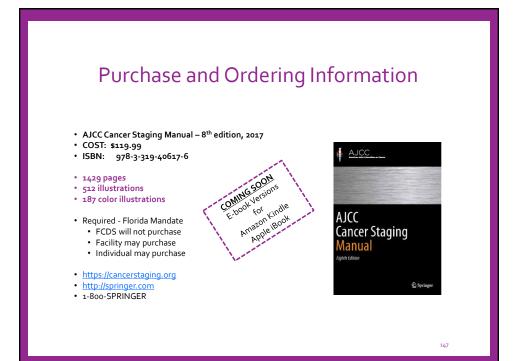


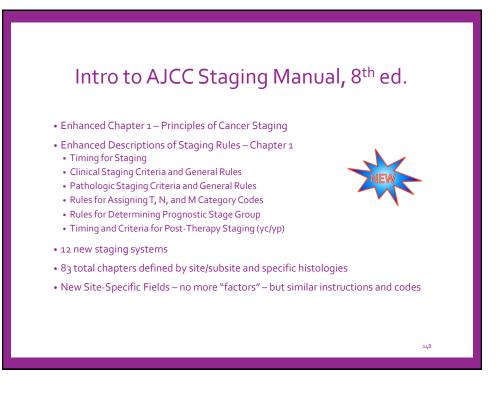


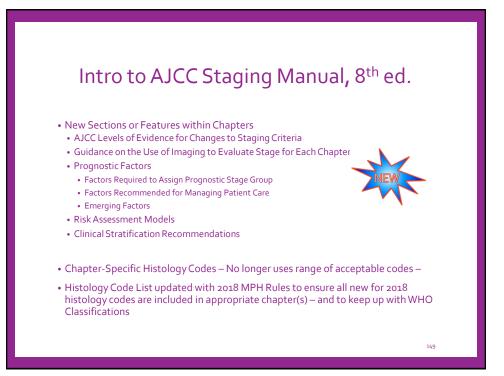








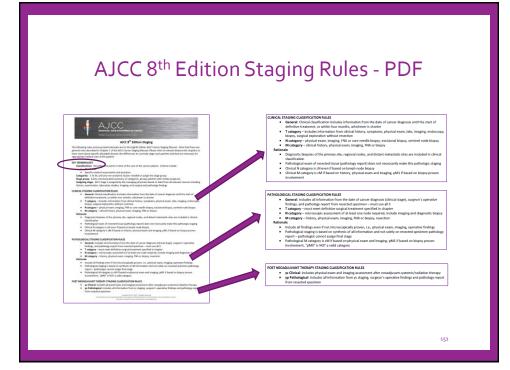


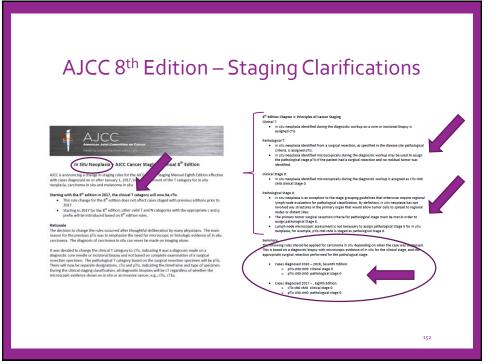


AJCC 8th Edition Staging Rules – Chapter 1

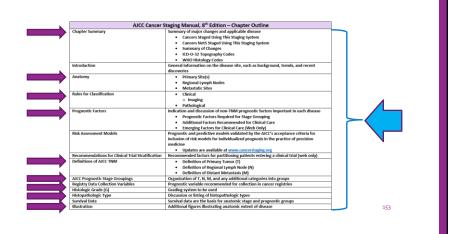
- Entire 30 pages devoted to Staging Rules and is Table-Driven with User Notes
- Definitions are included for vocabulary related to cancer staging
- Clarification on Use of "X", <blank> and Zero (o)
- Clarification on Use of Clinical & Pathological Stage Descriptors
- Clarification on "Response to Neoadjuvant Therapy"
- Explanation for How to Apply Tables to Assign New Prognostic Stage Groups
- AJCC will be hosting webinar(s) on Key Elements of Chapter 1-General Rules
- 2018 FCDS Abstractor Code Test Absolutely WILL Have Questions from Chapter 1

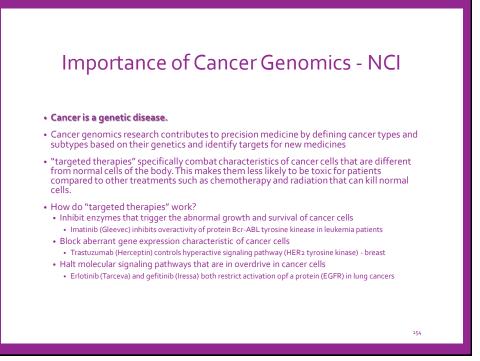
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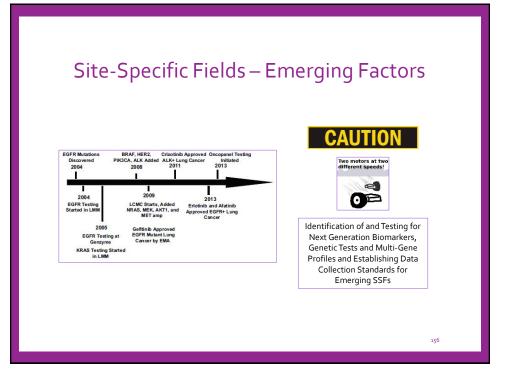
General Chapter Outline and Contents

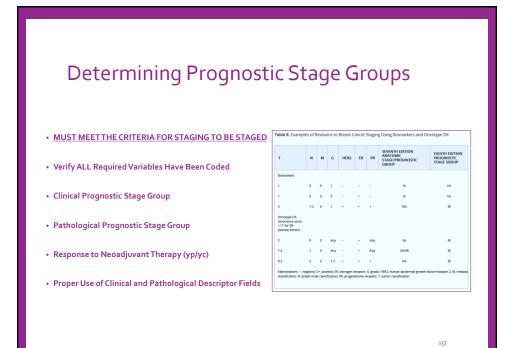




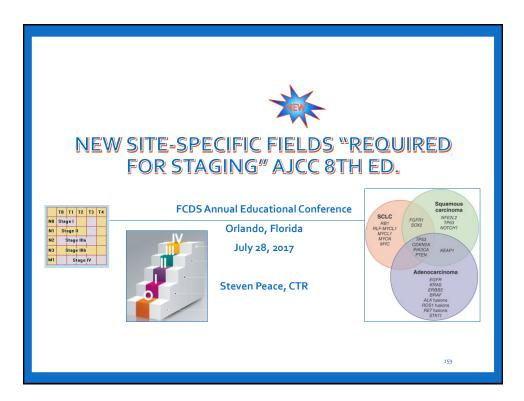
Site-Specific Fields Required for Staging

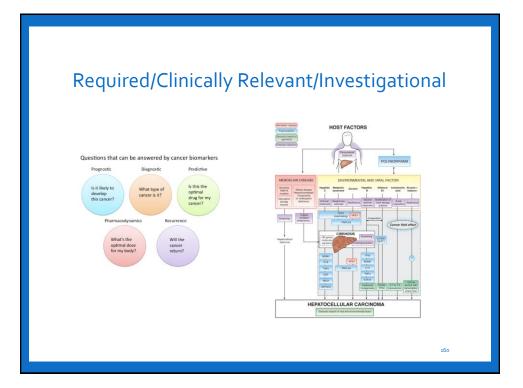


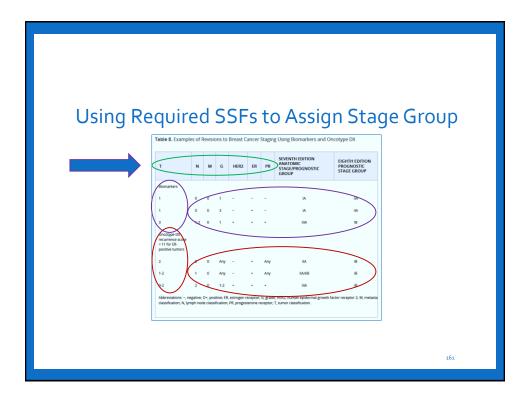


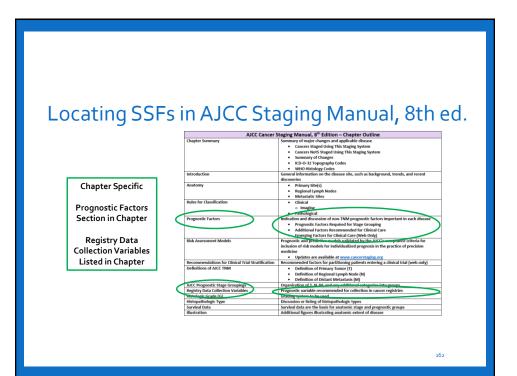


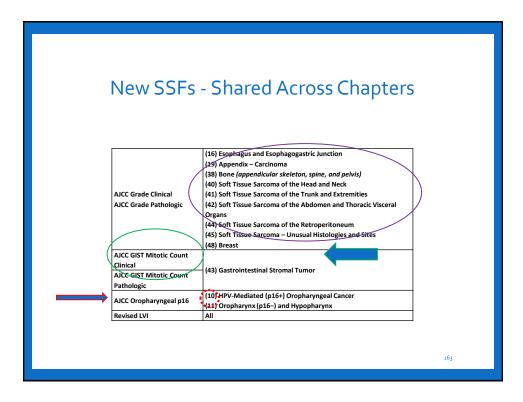


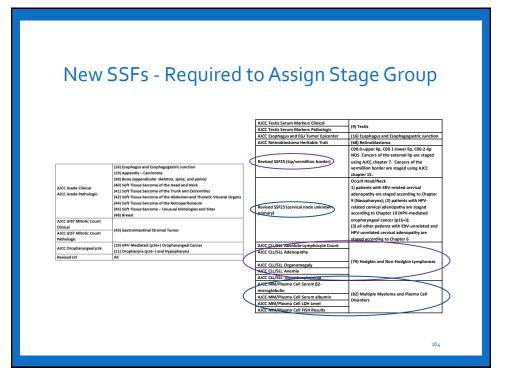












What if the Required SSF Info is Missing?

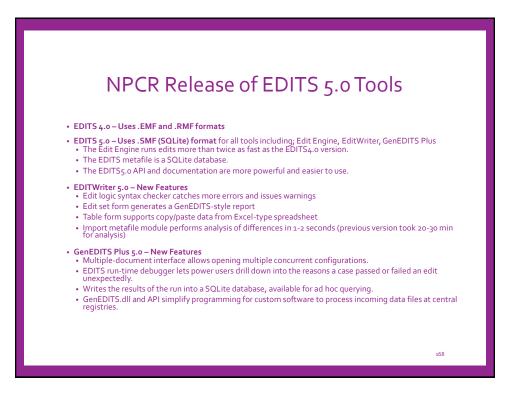


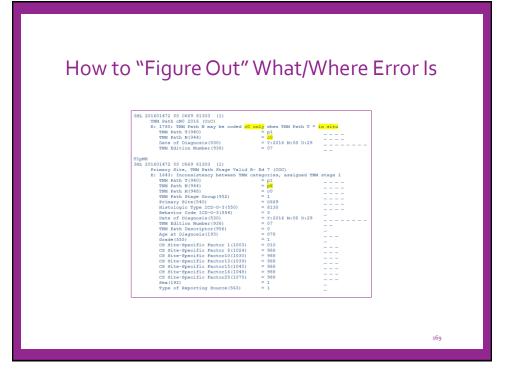
165

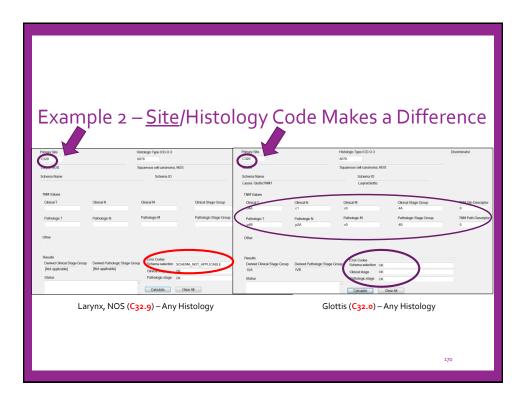
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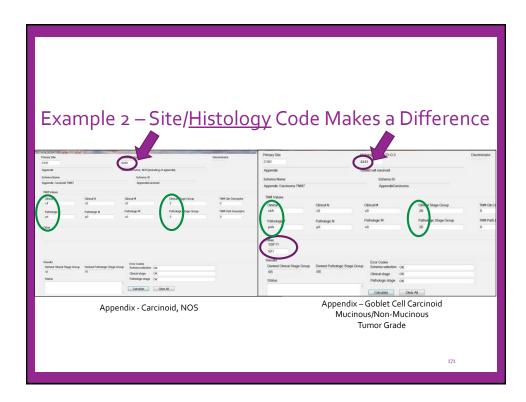
FCDS Prognostic Factors Webcast - 9/21/17 Time Schedule 3rd Thursday Presentation Title Date 1:00pm -3:00pm 8/17/2017 Convention Brief: 2017 FCDS Annual Meeting Highlights 1:00pm 3:00pm Biomolecular and Genetic Tumor Profiles: Classification and Characteristics of Disease, Required SSFs, CAP Biomarker Checklists, and Targeting Treatment 9/21/2017 1:00pm -3:00pm 10/19/2017 Lymphoid & Myeloid Neoplasms: 2016 Revision of the WHO Classification & You Lung Cancer: FCDS Audit Findings, Anatomy, Staging Using the AJCC 8th ed., SSF Req'd to Stage 1:00pm 3:00pm 11/16/2017 No Webcast Scheduled December N/A 1:00pm -3:00pm 2018 MPH Rules: MPH Rule Updates for Solid Tumors and Introduction to the Solid Tumors Database 1/18/2018 1:00pm 3:00pm 2/15/2018 AJCC Cancer Staging Manual 8th ed. and Summary Stage 2018

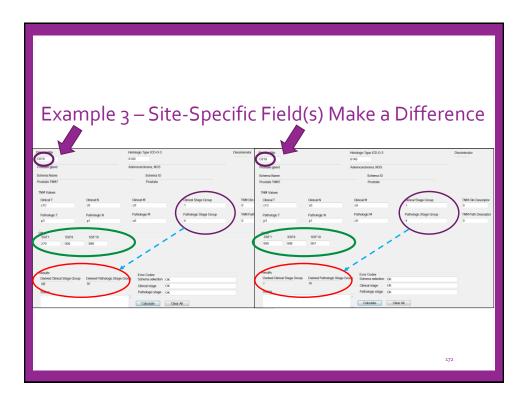
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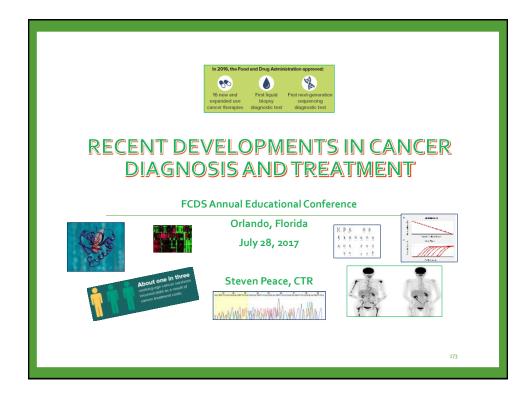


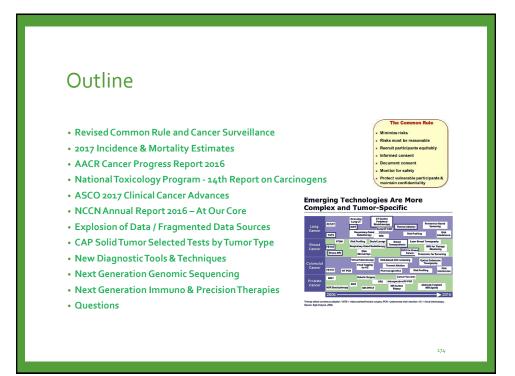












ASCO 2017 Clinical Cancer Advances

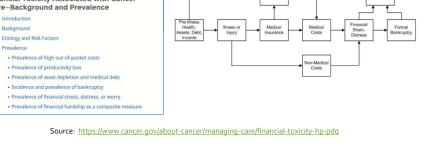






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Financial Toxicity and Cancer Treatment PDQ@)-Health Professional Version Cor Dater Version Production Introduction Introdu



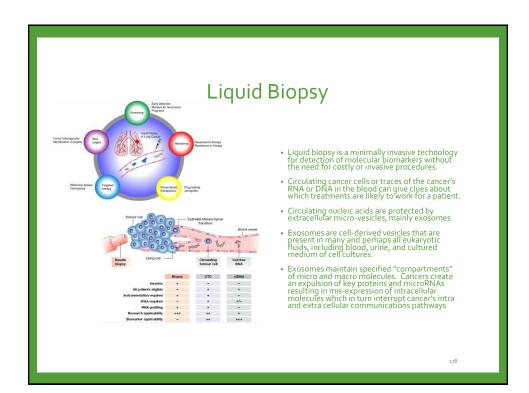
Colon Tumor Location and Treatment

Median Overall Survival by Tumor Location and Therapy

	Left-Sided Tumors	Right-Sided Tumors	COLORECTAL TUMOR RIGHT OR LEFT? The snower might influence a patient's surviva testiment choices, according to a new study of patients with advanced contextal cancers
All Patients	33.3 months	19.4 months	patients with advanced colorectal cancers.
Patients Treated with Cetuximab	36 months	16.7 months	Ascending - Desc color Cecum -
Patients Treated with Bevacizumab	31.4 months	24.2 months	

Although patients whose tumors originated in the left colon lived substantially longer after treatment than patients whose tumors originated in the right colon, the survival improvement for patients treated with cetuximab was more pronounced. And patients with right-sided tumors had better outcomes when treated with bevacizumab.





Update on NCI MATCH Trial & SubProtocols (Molecular Analysis for Therapy Choice)

Sub Protocol	MATCH	Restrictions	Treatment
EAY131 - A	Solid tumors or lymphomas with activating mutations of EGFR that progressed after standard TX	Small Cell and Non-Small cell Lung cancer excluded	Afatinib 40 mg QD PO
EAY131 - B	HER2 activating	Non-Small cell lang cancer excluded. No	Afatinib 40 mg QD PO
EAY131 - C1	Tumors with MET amplification		Crizotinib 250 mg BID PO
EAY131 - C2	Tumors with MET Exon 14 deletion		Crizotinib 250 mg BID PO
EAY131 - E	Tumors with EGFR T790M mutation or rare activating mutations of EGFR	Non-Small Cell Lung Cancer	AZD9291 80 mg QD PO
EAY131 - F	Tumors with ALK translocations	Adenocarcinoma of lung or	Crizotinib 250 mg BID PO
EAY131 - G	ROS1 Translocations or Inversion	Non-Small Cell Lung Cancer	Crizotinib 250 mg BID PO
EAY131 - H	Turnors with BRAF V600E, V600K, V600R or V600D Mutations	Metastatic melanoma from	Trametinib 2 mg QD PO + Drabrafenib 150 mg BID
EAY131 - I	PIK3CA mutation	Breast cancer, squamous cell	GDC-0032 (Taselisib) 4 mg QD PO
EAY131 - J	HER2 amplifications (> 7 copies/cell)	Breast, gastnic/GEJ/Es	Pertuzumab IV 840 mg + Trastuzumab IV 8 mg/kg

Sub Protocol	MATCH	Restrictions	Treatment
EAY131 – L	mTOR	Patients with brain mets must not have progression for over 1 month prior to start of tx.	TAK228 (MLN0128) 3 mg QD PO
EAY131 - M	TSC1 or TSC2	Patients with brain mets must not have progression for over 1 month prior to start of ts.	TAK228 (MLN0128) 3 mg QD PO
EAY131 - N	Tumors with PTEN	PTEN mutation	PI3K Beta Specific inhibitor
	mutation/deletion, with PTEN	≥25% variant	GSK2636771 400 mg QD
EAY131 - P	PTEN loss via IHC.	Non-Small Cell Lung Cancer	GSK2636771 400 mg QD PO
EAY131 - Q	Tumors with HER 2 amplification (> 7)	Breast, Gastrie, Gastroesophage al Junction	Ado-trasturumab Emtansine 3.6mg/kg IV once every 3 weeks
EAY131 - R	BRAF fusions, or with non V600E, or non V600K mutations	HX of interstitial lung disease or	Trametinib 2 mg QD PO
EAY131 - S1	Tumors with NF1 mutations	Must have deletenious inactivating NF-	Trametinib 2 mg QD PO
EAY131 - 82	Tumon with GNAQ or GNA11 mutations	No HX of interstitial long	Trametinib 2 mg QD PO

