



Background

- Increase physician reporting
 - Capture missing first course treatment
 - Capture missing cases particularly in urological and hematopoietic
- Reduce burden on physicians to comply
 - 5010/837 reporting data standard
 - Duplicate claims submission and send to registry
- Process has evolved for almost 5 years

Background

- 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

Methods

- Crosswalks, Crosswalks, Crosswalks
 - Claims Coding >> ICDO3/FORDS
 - ICD9 Diagnosis and Procedure codes
 - ICD10 Diagnosis and Procedure codes starting 10/2015
 - CPT Current Procedural Terminology
 - HCPCS Healthcare Common Procedure Coding System

Methods Malignant neoplasm of breast 8000 C50.011 Malignant neoplasm of nipple and areola, right female breast C50.012 Malignant neoplasm of nipple and areola, left female breast C50.0 8000 C50.019 Malignant neoplasm of nipple and areola, unsp female breast C50.021 Malignant neoplasm of nipple and areola, right male breast C50.0 8000 C50.0 2000 C81 Hodgkin lymphoma C77.9 9650 C81.0 Nodular lymphocyte predominant Hodgkin lymphoma C77.9 9659 Nodular lymphocyte predominant Hodgkin lymphoma, unsp site Nodular lymphocy predom Hodgkin lymphoma, intrathorac nodes Nodular lymphocyte predom Hodgkin lymphoma, intra-abd nodes HCPCS J8520 Capecitabine, oral, 150 mg Chemotherapy Treatment J8521 HCPCS Capecitabine, oral, 500 mg Chemotherapy Treatment J8530 HCPCS Cyclophosphamide oral 25 MG Chemotherapy Treatment J8560 HCPCS Etoposide oral 50 MG Chemotherapy Treatment 51720 TREATMENT OF BLADDER LESION Immunotherapy Treatment (BRM) 92.21 ICD-9 SUPERFICIAL RADIATION Radiation Treatment 92.22 ICD-9 ORTHOVOLTAGE RADIATION 21 Radiation Treatment UNILAT SIMPLE MASTECTOMY 85.41 ICD-9 41 Surgical Treatment of Primary BILAT SIMPLE MASTECTOMY 85.42 Surgical Treatment of Primary

Methods

- Rules, Rules, Rules
 - Hold Claims Abstracts for 18 months Before Processing
 - Allow time to receive all claims
 - Allow time to match against most complete curated abstracts
 - Determine First Course Therapy
 - Breast and Prostate up to 1 Year
 - All Other Sites up to 8 months

Methods

- Leverage Florida Automation
 - Patient/Tumor Linkages
 - Patient/Tumor Consolidation
- Process
 - Create Claims Based Abstracts (Crosswalks, Linkage, Consolidation)
 - Apply All Timing Rules
 - Link Claims Abstract Against Main Database

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

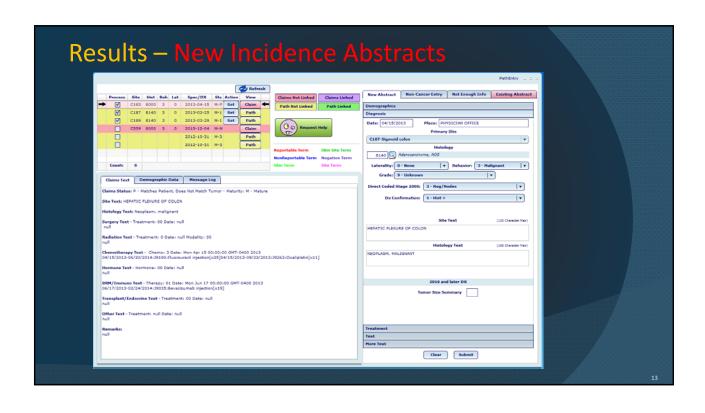
7,782 6,830 1,617
1.617
_, ,
1,440
1,031
825
752
638
630
582

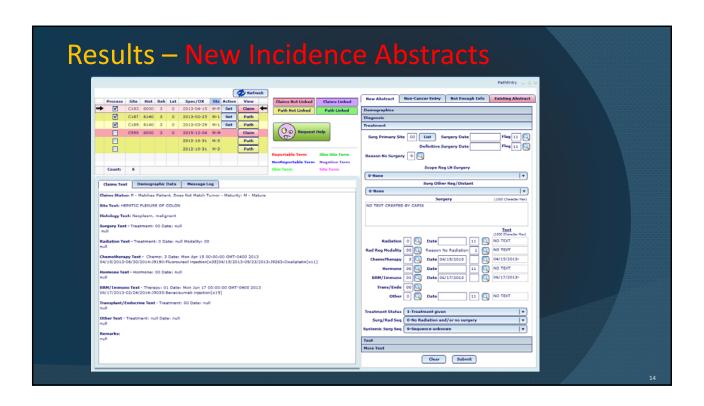
Radiation Improvement by Site	Count
Prostate	2,217
Breast	1,007
Lung and Bronchus	814
Rectum	179
Esophagus	78
Brain	74
Cervix Uteri	65
Anus, Anal Canal and Anorectum	64
Larynx	63
Corpus Uteri	57

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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





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
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

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Results – New Incidence Abstracts

- Next Steps Residence Validation
 - Work with Lexis/Nexis on Residence Histories
 - Send All Non-Confirmed Florida Residence Abstracts
 - Compare Residence History and Diagnosis Dates
 - Verified Florida Case Process Abstract
 - Not Verified Follow Back to Physician
 - Extra step needed due to snowbird influence

Conclusions

- More Complete Treatment
- Improve case reporting particularly:
 - Hematopoietic Cancers
 - Urinary Cancers
- Case Finding is Resource Intensive

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Conclusions

- Potential Opportunities for Researchers
 - View Patient longitudinally
 - Second through N course of treatment
 - Detailed Medications
 - Limitations:
 - No Orals
 - Ordered Not Actual Dose
 - Comorbid Conditions
 - Non-Cancer Procedures/Non-Cancer Treatments

Conclusions

- ACOS Hospital Follow Up
 - Improved Vital Status
 - Improved Treatment Information (particularly Chemo)
 - Improved Date of Last Contact
- Included in the FCDS IDEA Facility Follow Up System

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