



UPDATE ON PHYSICIAN REPORTING AND CAPIS SYSTEM (CLAIMS, ABSTRACT & PATHOLOGY INTEGRATION SYSTEM)

Gary M. Levin, BA, CTR
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Presentation Overview

- Background
- Methods
- Results
- Conclusions

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

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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

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Methods

⦿ Crosswalks, Crosswalks, Crosswalks

- Claims Coding → ICD03/FORDS
- ICD9 – Diagnosis and Procedure codes
- ICD10 - Diagnosis and Procedure codes starting 10/2015
- CPT – Current Procedural Terminology
- HCPCS – Healthcare Common Procedure Coding System

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Methods

Diagnosis Code Translation

ICD10	Code Description	Site	Laterality	Histology	Behavior	Grade
C50	Malignant neoplasm of breast	C50.9	9	8000	3	9
C50.011	Malignant neoplasm of nipple and areola, right female breast	C50.0	1	8000	3	9
C50.012	Malignant neoplasm of nipple and areola, left female breast	C50.0	2	8000	3	9
C50.019	Malignant neoplasm of nipple and areola, unsp female breast	C50.0	9	8000	3	9
C50.021	Malignant neoplasm of nipple and areola, right male breast	C50.0	1	8000	3	9
C81	Hodgkin lymphoma	C77.9	0	9650	3	9
C81.0	Nodular lymphocyte predominant Hodgkin lymphoma	C77.9	0	9659	3	9
C81.00	Nodular lymphocyte predominant Hodgkin lymphoma, unsp site	C77.9	0	9659	3	9
C81.02	Nodular lymphocy predom Hodgkin lymphoma, intrathorac nodes	C77.1	0	9659	3	9
C81.03	Nodular lymphocyte predom Hodgkin lymphoma, intra-abd nodes	C77.2	0	9659	3	9

Procedure Code Translation

CODE	Type	Code Description	FORDS Code	Treatment Type
J8520	HCPCS	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	CPT	TREATMENT OF BLADDER LESION	01	Immunotherapy Treatment (BRM)
92.21	ICD-9	SUPERFICIAL RADIATION	20	Radiation Treatment
92.22	ICD-9	ORTHOVOLTAGE RADIATION	21	Radiation Treatment
85.41	ICD-9	UNILAT SIMPLE MASTECTOMY	41	Surgical Treatment of Primary
85.42	ICD-9	BILAT SIMPLE MASTECTOMY	42	Surgical Treatment of Primary

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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

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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

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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

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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				

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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

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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

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Results – New Incidence Abstracts

PathEntry

Process	Site	Hist	Beh	Lat	Spec/DX	Site	Action	View
<input checked="" type="checkbox"/>	C183	8000	3	0	2013-04-15	M-P	Set	Claim
<input checked="" type="checkbox"/>	C187	8140	3	0	2013-02-25	M-1	Set	Path
<input checked="" type="checkbox"/>	C189	8140	3	0	2013-03-29	M-1	Set	Path
<input checked="" type="checkbox"/>	C559	8000	3	0	2015-12-04	M-M	Set	Claim
<input type="checkbox"/>					2012-10-31	M-3	Set	Path
<input type="checkbox"/>					2012-10-31	M-3	Set	Path

Counts: 6

Claims Text Demographic Data Message Log

Claims Status: P - Matches Patient, Does Not Match Tumor - Maturity: M - Mature

Site Text: HEPATIC FLEXURE OF COLON

Histology Text: Neoplasm, malignant

Surgery Text - Treatment: 00 Date: null

Radiation Text - Treatment: 0 Date: null Modality: 00

Chemotherapy Text - Chem: 3 Date: Mon Apr 15 00:00:00 GMT-0400 2013
04/15/2013-06/30/2014:J9190:Fluorouracil injection[x35]04/15/2013-09/23/2013:J9263:Oxaliplatin[x11]

Hormone Text - Hormone: 00 Date: null

BRM/Immuno Text - Therapy: 01 Date: Mon Jun 17 00:00:00 GMT-0400 2013
06/17/2013-02/24/2014:J9035:Bevacizumab injection[x19]

Transplant/Endocrine Text - Treatment: 00 Date: null

Other Text - Treatment: null Date: null

Remarks: null

Claims Not Linked Claims Linked

Path Not Linked Path Linked

Request Help

Reportable Term Skin Site Term

NonReportable Term Negation Term

Skin Term Site Term

New Abstract Non-Cancer Entry Not Enough Info Existing Abstract

Demographics

Date: 04/15/2013 Place: PHYSICIAN OFFICE

Primary Site

C187 Sigmoid colon

Histology

8140 Adenocarcinoma, NOS

Laterality: 0 - None Behavior: 3 - Malignant

Grade: 9 - Unknown

Direct Coded Stage 2000: 3 - Reg/Nodes

Dx Confirmation: 1 - Hist +

Site Text (100 Character Max)

HEPATIC FLEXURE OF COLON

Histology Text (100 Character Max)

NEOPLASM, MALIGNANT

2010 and later DX

Tumor Size Summary

Treatment

Text

More Text

Clear Submit

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Results – New Incidence Abstracts

PathEntry

Process	Site	Hist	Beh	Lat	Spec/DX	Site	Action	View
<input checked="" type="checkbox"/>	C183	8000	3	0	2013-04-15	M-P	Set	Claim
<input checked="" type="checkbox"/>	C187	8140	3	0	2013-02-25	M-1	Set	Path
<input checked="" type="checkbox"/>	C189	8140	3	0	2013-03-29	M-1	Set	Path
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Radiation Text - Treatment: 0 Date: null Modality: 00

Chemotherapy Text - Chem: 3 Date: Mon Apr 15 00:00:00 GMT-0400 2013
04/15/2013-06/30/2014:J9190:Fluorouracil injection[x35]04/15/2013-09/23/2013:J9263:Oxaliplatin[x11]

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BRM/Immuno Text - Therapy: 01 Date: Mon Jun 17 00:00:00 GMT-0400 2013
06/17/2013-02/24/2014:J9035:Bevacizumab injection[x19]

Transplant/Endocrine Text - Treatment: 00 Date: null

Other Text - Treatment: null Date: null

Remarks: null

Claims Not Linked Claims Linked

Path Not Linked Path Linked

Request Help

Reportable Term Skin Site Term

NonReportable Term Negation Term

Skin Term Site Term

New Abstract Non-Cancer Entry Not Enough Info Existing Abstract

Demographics

Treatment

Surg Primary Site 00 Surgery Date Flag 11

Definitive Surgery Date Flag 11

Reason No Surgery 9

Scope Reg LN Surgery

0 - None

Surg Other Reg/Distant

0 - None

Surgery (1000 Character Max)

NO TEXT CREATED BY CAPIS

Text (1000 Character Max)

Radiation 0 Date 11 NO TEXT

Rad Reg Modality 00 Reason No Radiation 1 NO TEXT

Chemotherapy 3 Date 04/15/2013 04/15/2013-

Hormone 00 Date 11 NO TEXT

BRM/Immuno 01 Date 06/17/2013 06/17/2013-

Trans/Endo 00 Date 11 NO TEXT

Other 0 Date 11 NO TEXT

Treatment Status 1 - Treatment given

Surg/Rad Seq 0 - No Radiation and/or no surgery

Systemic Surg Seq 9 - Sequence unknown

Text

More Text

Clear Submit

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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

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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

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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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Thank You



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