




A Review of 2012 Diagnosis Year Cases Submitted from Seven Pathology Laboratories

Illinois State Cancer Registry

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Pathology Lab Reporting

- ▶ The Illinois State Cancer Registry (ISCR) electronically receives cases from seven pathology laboratories
 - ▶ Workload constraints have prevented ISCR from processing these cases on a regular basis
 - ▶ Concerned that incident cases are being missed and that they may provide additional case information
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Purpose

- ▶ Conduct a review to assess the following:
 - Amount of staff resources and time needed
 - Number of cases and primary sites of cancer not reported from other sources
 - Type and quantity of additional information provided
- ▶ Chose to examine 2012 diagnosis year cases
- ▶ Project carried out in January & February 2014

Methods

- ▶ HL7 files were pulled from the PHINMS queue
 - 2,768 cases for 2012 diagnosis year
- ▶ Cases were loaded into eMaRC Plus and reviewed for reportability
 - Note that eMaRC isn't always correct
 - BCC vs. Melanoma
 - Wrong histology or primary site
 - Wrong behavior
 - May not identify the case
- ▶ Determined 1,580 cases were reportable

eMaRC Plus

Message ID: 22248 Path Report No BL13-0105-0C Sex M Spec Date (Errors)

MSH SEGMENT

Path Lab Name: Bostwick Laboratories - Urology-Uniondal
E-Path Date/Time Stamp: 20130311220028

PID SEGMENT

Medical Record Number:
Social Security Number:
Name-Last: APPLESEED
Name-First: JOHN
Name-Middle:
Birth Date: 19500108000000
Sex: M
Race 1:
Addr at DX-City: ALGONQUIN
Addr at DX-State: IL
Addr at DX Postal Code: 601026318
Addr at DX-No & Street: 721 APPLEGLOVE DR
Telephone: ****999*4582925
Marital Status:
Spanish/Hispanic Origin:
Vital Status:

[\[*\] Show Report Legend](#)

Pathology Final Diagnosis

Prostate Histology: A1) Right Lat Base: Benign Benign prostatic tissue. (B1) Left Apex: MALIGNANT ADENOCARCINOMA (GLEASON SCORE 3 + 3 = 6) INVOLVING 5% OF THE SPECIMEN (1 OF 1 CORES CONTAIN CANCER). CANCER LENGTH 0.11 cm.(C1) Left Lat Apex:MALIGNANT ADENOCARCINOMA (GLEASON SCORE 3 + 4 = 7) INVOLVING 5% OF THE SPECIMEN (1 OF 1 CORES CONTAIN CANCER). GLEASON PATTERN 4 COMPRISES 10% OF THE CANCER. CANCER LENGTH 0.07

Pathology Text Diagnosis

790.93

Pathology Clinical History

Provided ICD-9 codes: 790.93, PSA 7.46 ng/ml. Date 2/1/13. Previous Biopsy: HGPIN, abnormal DRE, nodule on left side.

Pathology Nature of Specimen

Prostate Needle Core Biopsy

Pathology Gross Pathology

Pathology Micro Pathology

Pathology Comment Section

Pathology Supplement Reports

Abstract Ref ID: 22259

TEXT FIELDS

Text--Place Of Diagnosis

Text--Primary Site Title

Text--Histology Title

Text--DX Proc--PE

Text--DX Proc--X-ray/scan

Text--DX Proc--Scopes

Text--DX Proc--Lab Tests


790.93

Text--DX Proc--Op

Text--DX Proc--Path

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Methods

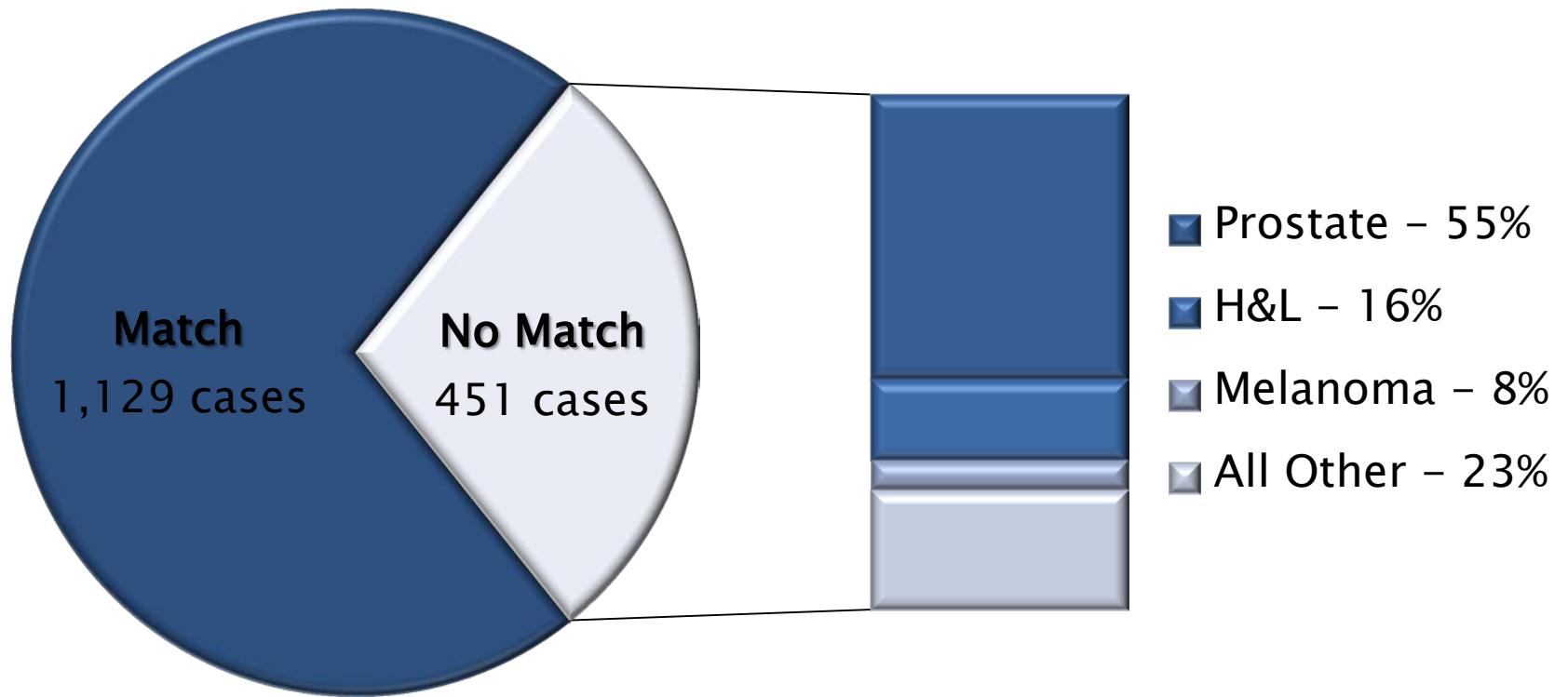
- ▶ Cases were partially abstracted while still in eMaRC
 - ▶ Loaded file into Abstract Plus for abstract completion and clearing edits
 - ▶ Loaded file into Link Plus to conduct a linkage between the pathology case file and the cancer registry database (Rocky Mountain Cancer Data System)
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Methods

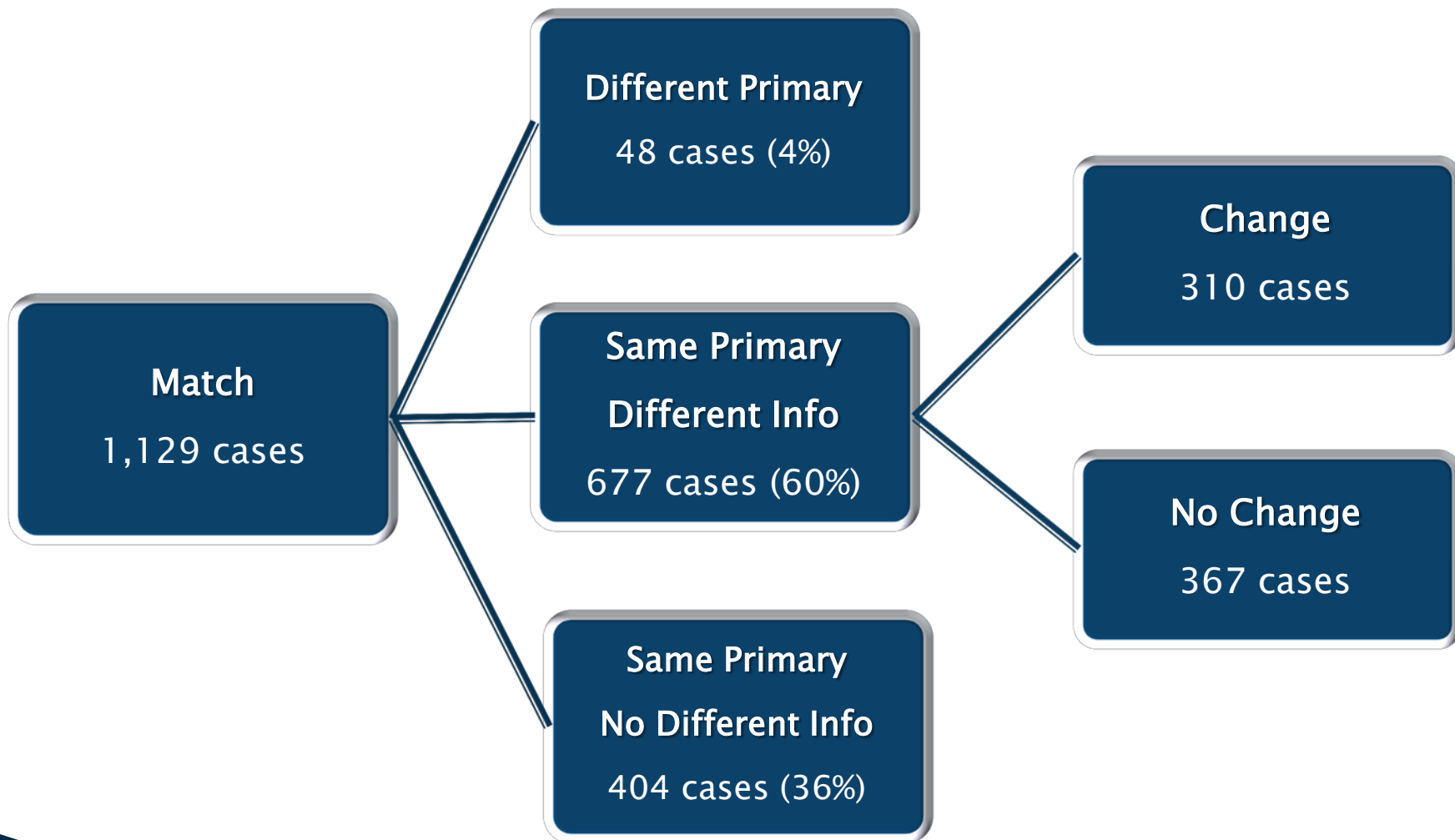
- ▶ Review criteria for determining a match
 - Diagnosis date
 - Primary Site
 - Histology
 - Laterality
 - Social Security Number
 - Sex
 - Date of Birth
 - First and Last Names

Results

1,580 Reportable Pathology Lab Cases



Results



Results

- ▶ Change cases (n=310)
 - Date of diagnosis – 150 differences
 - 43 differences (29%) had a difference over 30 days
 - 19 of those occurred in prostate cases
 - SSN – 97 differences
 - Only 14 instances where central registry database had an unknown SSN and the path lab provided a known SSN
 - Histology – 67 differences
 - 52% resulted in a more specific histology from the path lab

Results

- ▶ Change cases (cont.)
 - Primary Site – 50 differences
 - 46% resulted in a more specific primary site from path labs
 - Laterality – 8 differences
 - Various demographic variables – 32 differences
 - Majority were due to spelling differences in first name or last name
- ▶ Total of 404 differences
- ▶ Note that there could be more than one difference per case

Results


- ▶ No Change cases (n=367)
 - 252 cases (69%) had an unknown SSN from the pathology lab
 - Remaining differences occurred between diagnosis date, primary site, or histology
 - In all instances, the central registry data were more complete and precise

Results


Top Five Cancer Sites for Cases Reported Solely from a Path Laboratory 2012 Diagnosis Year

Primary Site	Number of cases	Percentage of Stand-Alone Path Lab Cases (n=541)	Percentage of Potentially Reportable Path Lab Cases (n=2768)	Percentage of All Cases by Primary Site
C619	285	53%	10%	0.04%
C421	84	16%	0.03%	0.04%
C440-449	36	7%	0.01%	0.01%
C679	26	5%	0.009%	0.009%
C541	21	4%	0.007%	0.01%

Conclusions

- ▶ A total of 251 staff hours were used (0.2 FTE)
 - ▶ Quantity and type of data improved were minimal
 - ▶ Cases received solely from path labs may be diagnosed and treated in physician offices that are not currently reporting cases
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Future Process

- ▶ ISCR will review all cases for reportability within eMaRC
 - ▶ Operations staff will only abstract and load cases that don't match cases already received
 - ▶ This process will allow ISCR to capture all incident cases provided solely by pathology labs while limiting staff workload
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Contributors

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Thank You!

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ILLINOIS STATE CANCER REGISTRY