Your (Override)Flag or Mine?

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Supported by CDC/NPCR Cooperative Agreement #U55/CCU721904-01



Acknowledgements

* Saba Yemane, Database Manager
* Jeannette Jackson-Thompson, MSPH, PhD
* Nancy Cole, CTR
* Deborah Bringman, PhD

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***NAACCR** study

- 1995-1999 data
- Complete study -

http://www.naaccr.org/Stats/EpiReports.html

*****NPCR

- 1995-2000 data
- Individual state report comparisons

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Percentage by Year

	1996	1997	1998	1999	2000
MO	5.09%	9.42%	5.05%	9.08%	2.85%
NPCR	0.37%	0.74%	0.48%	0.29%	0.10%

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MCR Results

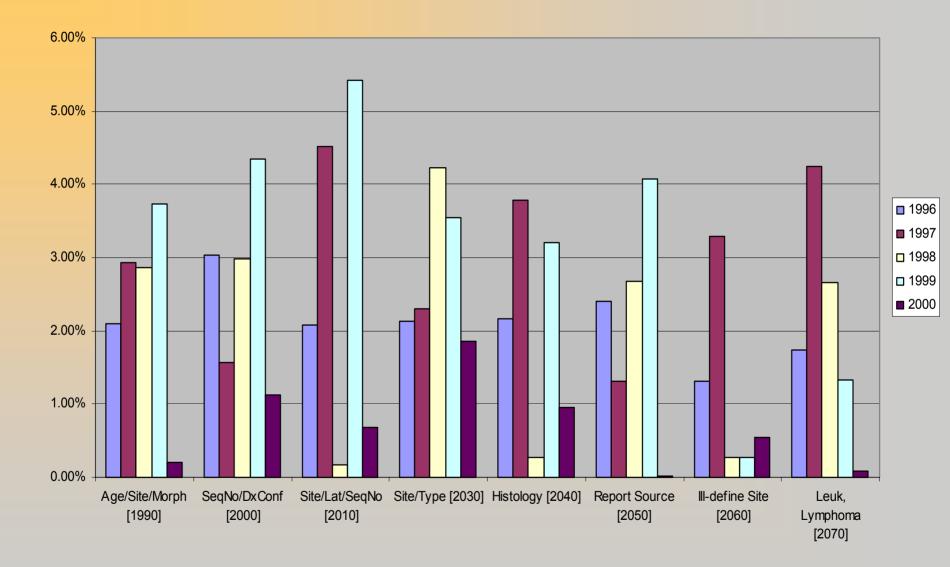
*****Unexpected results

- Percentage higher than NPCR/SEER
 - Exceptions = Site/Behavior & Site/Lat/Morph

***Identified need for review of OR flags**

- General guidelines for registry staff in place
- Followback & reconciliation conducted

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Review

* Cases & flags

- 138,096 total cases in file
- 8,635 cases w/flags (6%)
- 26,958 total flags
- ★ Flags per case
 - -1 flag = 2836
 - -2 flags = 228
 - -3 or more flags = 5571 (65%)

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Review (con't)

★% total flags by type

- Age/site/morph = 12%
- Seq#/dx conf = 13%
- Site/lat/seq# = 13%
- Surg/dx conf = 11%
- Site/type = 14%
- Hist, report source, leuk/lym = 10% (each)
- Ill-defined site = 6%

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More review!

*****Number by hospital

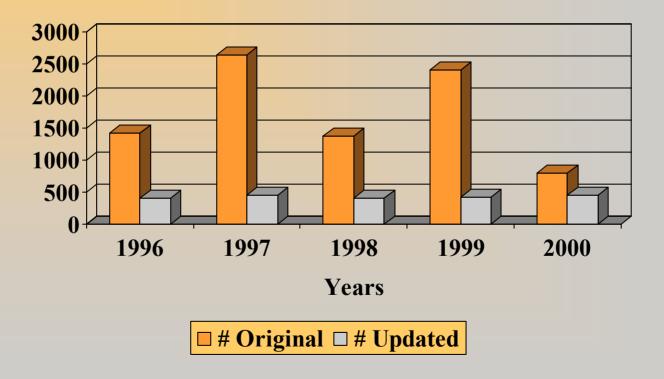
- Size
- Year of diagnosis
- ACOS accreditation
- Vendor
 - 70% from one vendor
 - 4 hospitals w/>20 % cases w/OR flags





Internal Review

Number of Overrides by Year



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Original Vs. Updated (# of flags)

# Flags	Original	Updated	
1 flag	2836	2072	
2 flag	228	29	
3 flag	2002	0	
4 flag	2049	0	
5 flag	143	0	
6 flag	1210	0	
7 flag	5	0	
8 flag	4	0	
9 flag	158	0	

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Original Vs. Updated (% total flags)

Flag	Original	Updated
Age/Site/Morph	11.97%	6.09%
Seqno/DxConf	13.11%	23.44%
Site/Lat/Seqno	12.75%	0.55%
Surg/DxConf	11.43%	2.47%
Site/Type	14.12%	50.23%
Histology	10.16%	1.42%
Report Source	10.41%	0.09%
III-Defined	5.86%	15.38%
Leuk/Lymph	10.19%	0.32%



Internal Review

* Procedures

- Review criteria for override flags
- Emphasize QA issues

*****Edits

- Review central registry software edits
- Develop informational aids

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Percentage by Year (Updated)

	1996	1997	1998	1999	2000
MO- Updated	1.46%	<mark>1.61%</mark>	1.51%	1.54%	1.71%
NPCR	0.37%	0.74%	0.48%	0.29%	0.10%
MO	5.09%	9.42%	5.05%	9.08%	2.85%



Lessons Learned

Do not bring in flags on submitted cases
Review use of OR flags more often
Establish more specific guidelines for staff and hospital registrars
Education





Specific (user-friendly) guidelines from national standard setters

- *Best practices
- *****Workshops

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