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Session Objectives



- Attendees will understand the purpose of and the process for administering a data quality review in preparation for conducting a reminder/recall at the provider level.
- Attendees will be introduced to the Reminder/Recall training strategies used by the Colorado Immunization Information System (CIIS)



CIIS Background Information



- Web-based since 2001
- Life-long immunization information system since 2007
- June 2011- New CIIS Web Application went live.
- Participation in CIIS is voluntary for both providers and individuals.
- Current provider participation in CIIS as of August 2013
 - 1563 provider sites actively participating
 - 68% are manual users
 - 32% are electronic reporters



New Functionality in CIIS



 Inventory module decrements doses and includes reconciliation feature.

School CIIS Web Application

 More reports added to help providers maintain clean and accurate data.



CIIS Reminder/Recall



- CIIS offers a Provider-Based Reminder/Recall functionality and a Geographic-Based Reminder/Recall functionality.
 - Provider-based recalls all clients whose default clinic corresponds to the clinic running the recall.
 - Geographic recalls will create a cohort of all children who have an address in either the specific county selected, or the specific zip codes selected.

PROVIDER: 12 R US PROVIDE	ER TIPE 3, CL	INIC. IZ R 03 CLINIC				
				Create Cancel		
CIIS	Run Name					
S. J. S.						
A TON STATE	Provider	ROVIDER TYPE 3	_			
	Clinic	(OVIDER THE O				
Home	IZ R US CL	INIC	-			
Patients	Dun Cabado	le Date Run Completed Date				
Immunizations	Run Schedu	III Date Run Completed Date				
Treatments	D					
Education		ecall Date Range				
IZ Quick Add	From:	Through:				
CRA Quick Add	Age Range					
Campaigns	From:	Through: UOM: MONTHS ▼				
NBS						
Reports/Forms	Options To	Target Patients Included For Reminder/Recall				
Settings						
VTrckS Interface	Gender					
Administration	00001	▼				
Version 13.5-1	☐ Ignore	Setting For "Do Not Include Patient in Reminder/	Recall"?			
Copyright © 2001-2013 vision Techn. Partners Inc.	_	nclude Patients With Address (i.e., Street Address				
VB IOIT TECHTI. Partitlets IIIC.		nent Patient Reminders/Recall Count?				
	_ '	Exclude Patients After Number of Reminders/Re	calls without Subseq	uent vaccination		
	Gener	ate Reminder/Recall Event?				
	Includ	e Patients Due For Vaccinations (Reminders)?				
	Includ	e Patients Overdue For Vaccinations (Recalls)?				
		Minimum Number Of Days Past Due To Include	Maximum N	lumber Of Days Past Due To Include		
	Z Evolud	e Patients with Less than 2 non- Influenza/H1N1		,		
			/acciliations?			
		e patients with one or more vaccine refusals?				
	Vaccine Se	Vaccine Series and Optional Dose (Note: Leave Dose blank to include all doses in series)				
		Vaccine Series	Dose Nun	nber		
	~	HEPA				
	~	HEPB				
	~	Hib				
	~	HPV				
	~	Influenza				
	~	Meningococcal				
	✓	MMR/Measles				
	✓	Pneumo				
	~	Polio				
	✓	ROTA				
	~	Tetanus containing				
	V	Varicella(CPOX)				
		Zoster				
	•		I.			

Example of Reminder Recall criteria screen shot from CIIS



CIIS Reminder Report







Reminder

August 16, 2013

Reminder Criteria

Reminder Run Name: 1 TO 2 YEAR OLDS TEST LS IZ R US PROVIDER TYPE 3 Provider:

Clinic: Vaccine Series:

IZ R US CLINIC Tetanus containing - All, Polio - All, MMR/Measles - All, Hib - All, HEPB - All, HEPA - All, Pneumo - All, ROTA - All, Varicella(CPOX) - All,

Influenza - All, Meningococcal - All, HPV - All, Zoster - All

Other Criteria: Generate Reminder/Recall Event? Y

> Include Patients Due For Vaccinations (Reminders)? Y Include Patients Overdue For Vaccinations (Recalls)? Y

Gender: Both

Name 269 N COLORADO RD

LAS ANIMAS, CO 81054

Gender: Male

- DOB: 05/01/2011

County: BENT

Age At Date: 0Y 2M 0D

Contact Info Home Phone: Work Phone:

Cell Phone:

DTAP (2), HEP A, PED/ADOL (1), HEP B, PED/ADOL (2), PCV-13

(PREVNAR) (1), POLIO-IPV (1), VAR (VARIVAX) (1)

Email:

Primary Contact:

-469-9283

VFC Eligibility:

Immunizations

Run Schedule Date: 08/13/2013

Reminder Date From: 08/13/2013

Age Range From (years): 1

Relationship: MOTHER

Run Completed Date: 08/14/2013

Reminder Date Through: 08/13/2013

Age Range Through (years): 2

Most Recent Refusal:

Most Recent Immunization Date: 04/08/2013

Immunization History: TETANUS CONTAINING(04/08/2013) MMR/MEASLES(04/08/2013) HEPB(06/06/2011)

Reminder Date: 07/01/2011

Most Recent Immunization Clinic:

VFC--Medicaid

Sample Reminder Report

Lists the patients and the vaccinations they are coming due for.







 Ensures the accuracy and completeness of client and immunization service data contained in CIIS.

Benefits of doing a Data Quality Review:

- Prevents providers from recalling patients who may not actually be due for immunizations.
- Saves the provider time and money.
- Saves the patient from the hassle of receiving duplicate or unnecessary notices.





• The Data Quality Review Process:

OStep 1:

The CIIS Recall Coordinator will request a list containing the names and birth dates of ALL patients who have had a date of service at the site within the last 6 months.





OStep 2:

From the list, the CIIS Recall Coordinator randomly selects 30-40 pediatric **AND** adult clients to include in the data quality review.

The clinic representative is asked to fax a printed copy of the vaccine administration sheet and the demographic information for each client either from their paper charts or their electronic health record.





O Step 3:

- For each client, the CIIS Recall Coordinator reviews and compares the following data elements from the clinic vaccine administration sheets and demographic information to those included in CIIS:
 - Last Name
 - First Name
 - Date of Birth
 - Mother's Name
 - Address
 - Immunization Dates and Antigens
 - Phone/Cell Phone

A spreadsheet is used to capture specific issues and recurring data errors.

Notes are also made on the vaccine administration sheets.







	Α	В
1	- //	Data Quality Review for Reminder/Recall
2		Provider/Clinic: IZ R US Date: Feb. 25, 2013
_	Patient	
	Record	
3	Number	Data Quality Review Comments/Concerns
4		Remember
5		DTP was discontinued in 1997
6		OPV was discontinued in 2000
7		
8	xxxxxxx	Historical entries:
9		Dtap entered for 1997 doses
10		IPV entered for 1997 doses
11		HepA #2 10/12/2012 marked as invalid, should this be deleted?
12		
13	xxxxxxx	Historical entries:
14		Dtap entered for 1995 and 1996 doses
15		IPV entered for 1995 doses
16		
17	xxxxxx	Dtap #5 administered too early, invalid dose
18		
19	xxxxxx	IPV #4 administered too early, invalid dose
20		
21	xxxxxx	Historical entries:
22		IPV entered for 1995 and 1996 doses
23		
	xxxxxx	Patient has the following immunizations administered on
25		DOB - Dtap, IPV, Hib
26		Not entered at your site, can you clarify?
27		
28	XXXXXXX	Dtap #4 administered too early, invalid dose
29		
	XXXXXXX	Adult Td entered for patient at the age of 10 months-6/25/1998
31		IPV entered for 1997 and 1999 doses
32		Varivax entered for patient at the age of 10 months, invalid
33		Dtap entered for 1997 and 1998 doses
34		

Sample: Data Quality Review Spreadsheet





OStep 4:

The data quality review is scored. The CIIS Recall Coordinator counts the number of errors based on the notes recorded on the spreadsheet and on the vaccine administration sheet and enters this information on the CIIS Data Quality Review Form.



CIIS Data Quality Review Form Part 1







CIIS Data Quality Review Form

4			
	Site Reviewed		
	Site Contact		
	CIIS Reviewer		
	Date of Review		
4	Source of Client	☐ Electronic Data File ☐ Manual Population ☐ Reports/Recall ☐ Ongoing CI Names: ☐ EMR ☐ Billing ☐ Visit Log ☐ CIIS Client Detail with Services Rep	
	COMPLETENE	ss	
	1. Number of	Clients Reviewed (Minimum of 30)	
	2. Number of	Clients with Record in CIIS	
	Completenes	s: (Line 2 ÷ Line 1, multiply by 100 for percentage)	
	Number of Clien	ts with Incorrect Address (Share findings with site)	



Data Quality Review Form Parts 2 and 3





AC	CURACY				
1.	Number of Clients Reviewed (Minimum of 30)				
2.	Number of Services Found in CIIS but Not Found in Chart (Vaccine Services Sheet)				
3.	Number of Services Not Found in CIIS				
4.	Number of Services with Incorrect Date and/or Antigen *If a service has an incorrect date AND an incorrect antigen, it counts as TWO errors.				
5.	Total Number of Services in Charts *Combination vaccines are counted as one service.				
6.	Add Line 3 (# of services not in CIIS/Staged File) and Line 4 (# services with incorrect date and/or antigen)				
7. Line 6 ÷ Line 5 (Total number of services in charts). Answer should be a decimal.					
Data Accuracy Rate: (Subtract Line 7 from 1.00, multiply by 100 for percentage)					
FEEDBACK					
Spreadsheet containing a description of the data discrepancies found during the Data Quality Review.					
	Date results shared with office:	•			
	Is re-training required? No Yes Date:				
	Date of Repeat Review (if necessary):				
ſ	Comments:				





Step 5:

CIIS contacts the clinic with the results usually within two weeks.

- Sites need to score an accuracy rate of 95% or better to conduct a Reminder/Recall for their clinic. Next they are instructed to take the online training and are given access to the Reminder/Recall report.
- Sites with less than a 95% accuracy rate are not given access. They are provided with training based on the nature of the errors that were found during the Data Quality Review.
 - CIIS will conduct another Data Quality Review within three to six months following the site retraining.





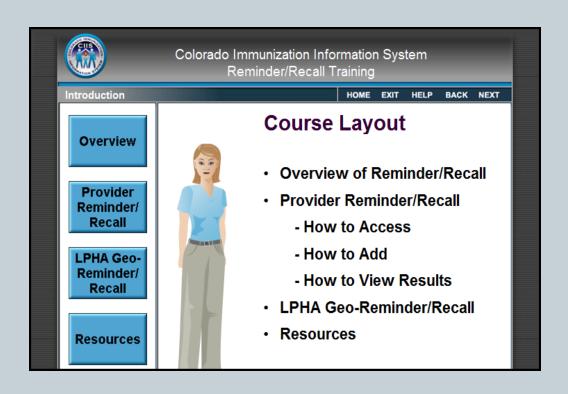
- CIIS Reports that are recommended to help with cleaning up data prior to conducting a Reminder/Recall:
 - Possible Patient Duplicates
 - Generates a list of the clinic's possible patient duplicates (This information will be reviewed and reconciled by the CIIS Recall Coordinator.)
 - Vaccines Added But Not Administered
 - Generates a list of patients with vaccinations that have been added but not administered within the system.
 - O Patient Roster
 - Generates a list of patients grouped by their default provider/clinic. Allows sites to designate clients who have moved or gone elsewhere (MOGE) and are no longer seen by the provider.



Reminder/Recall Training



- Training Delivery Methods
 - Reminder/Recall Online Training Course hosted on CO.TRAIN





Reminder/Recall Training



- Webinars usingCisco WebEx
- Tutorials and CheatSheets





Future Ideas for Reminder Recall Training



- Add to the CIIS Training Website:
 - Webinars on-demand
 - Short instructional videos that feature specific topics.





Observations



- In comparing 2012 and 2013, CIIS has not seen much difference in the number of providers using the Reminder Recall functionality.
 - In 2012 there were 14 clinics and 26 Local Public Health Departments.
 - As of August 2013, there were 15 clinics and 22 Local Public Health Departments.
- Often times the CIIS Geo Recall Coordinator will perform Step 1 of the Data Quality Review for a provider in order to get the process moving more quickly.
- CIIS has found that most providers do meet the 95% accuracy rate.



Future Plans for CIIS Reminder Recall



- CIIS is considering a pilot project where we will select one or two counties in Colorado and run a geographic recall.
- CIIS is currently working in collaboration with the University of Colorado Children's Outcome Research Program to conduct a comparative effectiveness trial of two reminder/recall methods: provider-based and population-based.
- We are in the process of applying for a CDC Grant to increase HPV coverage for adolescents ages 11-18.



Questions







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