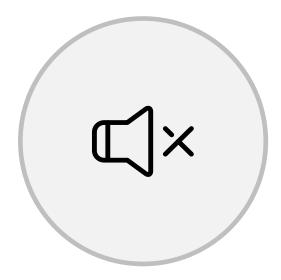


Education Steering Committee
July 18, 2019
Mandy Harris, MIROW Co-Chair

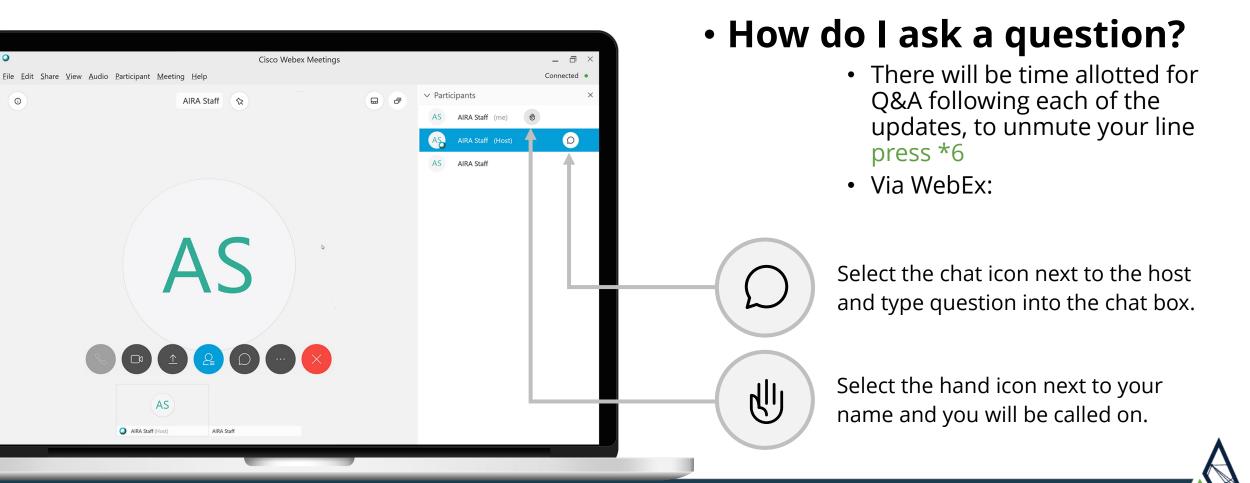


All phone lines are muted



This meeting is being recorded and will be posted on the AIRA repository





MIROW Steering Committee Members

Co-Chairs

- Elaine Lowery (AIRA)
- Amanda Harris (NV)

IIS Representatives

- Amy Metroka (NYC)
- Baskar Krishnamoorthy(FL)
- Megan Meldrum (NY)
- Dave McCormick (IN)
- Miriam Muscoplat (MN)

Vendor Representatives

Brandy Altstadter (STC)

Katie Reed (DXC)

CDC Representative

David Lyalin

AIRA Support

- Rebecca Coyle
- Beth Parilla

CDC Support

Cindy Scullion



Famous Repackaging Projects
Throughout History



Cínderella



Hans Christian Anderson Emperor's New Clothes



MIROW Looking good MIROW!

Introducing MIROW Repackaging



Why repackage the guides?

Improved readability

Increased community uptake/impact

More concise, user-friendly guides

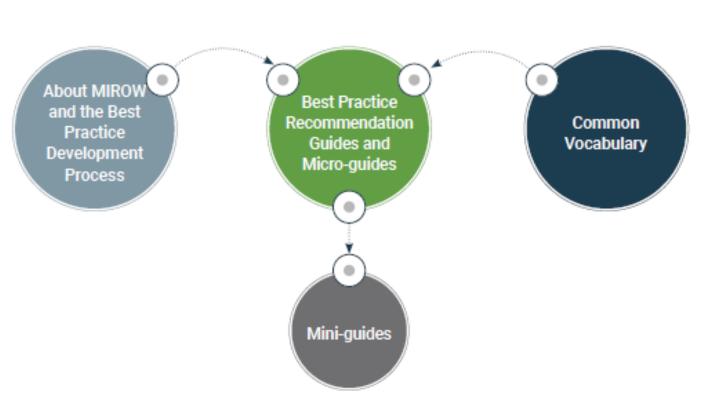


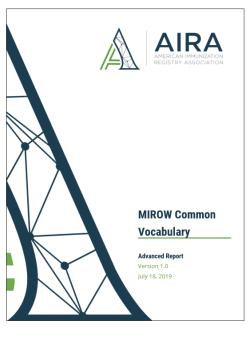
And, what does repackaging mean, exactly?

- Move material that is consistent in all MIROW guides and place into separate documents
- Prioritize existing guides to determine whether to retire, update or repackage
- Update with the latest AIRA logo and graphics









How do the new guides fit together?

Considerations for repackaging...

- ✓ Reformat to adhere to a common "repackage" outline
- ✓ Reorganization and cosmetic changes
- ✓ No change in meaning, retain all substantive content
- ✓ No major "updating" that would require subject matter expertise
- ✓ Different presentation okay but no new analysis



What's in 'About MIROW and the Best Practice Development Process'?

About MIROW

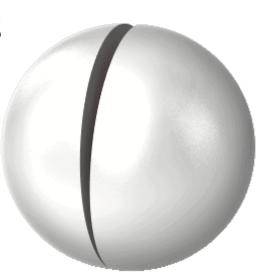
- How and when MIROW was created
- List of best practices guides it has produced

MIROW Development Approach

- Choosing a topic
- Putting together a team
- Developing "as-is" model
- Consensus-based SME recommendations
- Business analysis techniques

What is the "Common Vocabulary"?

- Consolidated all terms found in the MIROW guides
- Core terms (appear in 3 or more guides)
- Patient Status terms





What are the benefits?

- Ability to share terminology easily
- Save time and effort
- Provides clarity and consistency
- \$\$ valuable resource
- Step toward harmonization



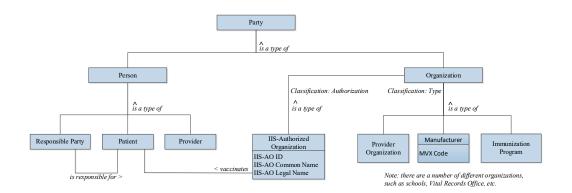


Statistics



What does it contain?

- Reports
- Domain diagrams
- Supporting discussion notes
- X-walk to CDC endorsed data elements





Advanced Report example:

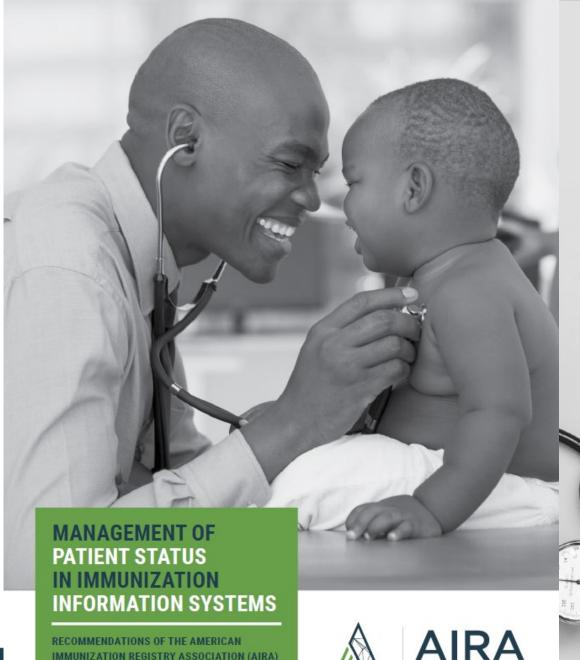
Term	Definition	Comment	Term Alias	CDC Endorsed Data Element X- Walk	MIROW Guide
Administered/ Historical Indicator	the state of the association between a vaccination event and a provider organization indicating whether the provider organization administered the vaccination event or is submitting the vaccination event on behalf of another provider organization	Values for the indicator are administered or historical. Administered value means that the provider organization recorded and/or submitted its own vaccination event (i.e., attests that it conducted the vaccination event). Historical value means that the provider organization submitted a vaccination event conducted by a different provider organization (i.e., states that it did not conduct the vaccination event).	None	Vaccination Event Record Type: Indicates whether the vaccination event is based on a historical record or was given by the administered at location.	CR- 2017 DINV- 2016 PAIS- 2015 DQA- 2013 DQA- 2008
Alternate Patient ID	a data element of an <u>alternate patient ID</u> <u>group</u> that is a unique identifier for a <u>patient</u>	None	None	Patient ID: Unique identifier assigned by IIS-AO (Data Source) to each Patient.	CR- 2017 DQA- 2013

Next Steps



- Publication of first release
- Continue development of domain diagrams
- Return to common vocabulary when developing new topic or updating old chapter







MIROW MINI-GUIDE

RECOMMENDATIONS OF THE AMERICAN IMMUNIZATION REGISTRY ASSOCIATION (AIRA) MODELING OF IMMUNIZATION REGISTRY OPERATIONS WORKGROUP (MIROW)

Management of **Patient Status**

in Immunization Information Systems

IMMUNIZATION REGISTRY ASSOCIATION (AIRA) MODELING OF IMMUNIZATION REGISTRY OPERATIONS WORKGROUP (MIROW)







The Pilot: Patient Active/Inactive Status

Shortened vocabulary definitions and added reference to separate document

Deleted stuff now covered in separate documents

Shorter Executive Summary

Moved a bunch of stuff to the appendices

Restructured to present basic concepts better

Renamed PAIS
Management to Patient
Status Business Rules

Renamed the guide

Did not change any meaning

Consolidated implementation language for HL7

The BIG Unveil

1-1 and 1-M approaches

IISs have two common approaches to implementing the concept of a provider organization having responsibility for immunizing a patient. Some IISs allow only one provider organization to have responsibility for a patient at a time (i.e., "1 to 1" approach). Other IISs allow more than one provider organization to have responsibility for a patient simultaneously (i.e., "1 to many" approach).

Throughout this document

- approaches:
- 1-1:1 to 1 approach
- 1-M: 1 to many approach

Following are key points regarding these two approaches:

- Both 1-1 and 1-M are valid best practice approaches for determining PAIS at the provider organization level.
- When the 1-1 approach is used, a patient may be included in reminder-recall notifications and assessment reports for only one provider organization at a point in time, but when the 1-M approach is used. a patient may be included in reminder-recall notifications and assessment reports for more than one provider organization at the same time.
- Note that even for the 1-1 approach, a patient who changed provider organizations may be included assessment reports for more than one provide organization over a period of time (at diffe points in time).
- These two approaches are more than might be apparent at first approach, the provider orga patient's immunizations wo organizations responsible for ne patient in the 1-M approach.
- The main idea behind the 1-M approach is to better support modern population trends, when many individuals, especially adults, do not have a single primary immunization provider, and to hold more provider organizations accountable for patients' immunizations. Since several provider organizations have responsibility for the patient, there is a higher probability to get the patient back in for future immunizations. A potential drawback with such an approach is that multiple resources could be spent on some of the same efforts (i.e., reminder-recalls).

- The following shorthand is used to refer to these two and blue highlighting is used for the 1-M approach. Therefore, it is best to print this document in color.
 - The main idea behind the 1-1 approach is to maintain one provider with clear responsibility for the patient, as well as to focus resources for reminder-recalls and assessments on the single provider organization. Routinely, the provider that administered the most recent immunization is one provider bearing at patient. A potential challenge can be seen in a scenario where vaccines are given by a provider on other than the most recent provider zation. In such cases, selection of a single ovider organization for the assessment may not reflect the provider organization that is most likely to see the patient on an ongoing basis.

Several operational scenarios presented in Chapter 6 of this document illustrate basic differences between 1-1 and 1-M approaches. One of the indicative situations, when a patient receives immunizations from more than one provider, is described with scenarios \$301 and \$302. In this guide, Icons are used to identify when something is signifying the 1-1 approach or the 1-M approach. If no icon appears, then the principle, business rule, or scenario can apply to both approaches.

Figure 2 | Key points for 1-1 and 1-M



1-1 APPROACH

- Maintains one provider organization with clear responsibility for the patient.
- Focuses resources for reminder/recalls and assessments on a single provider organization.
- May result in association of a patient with a provider organization that is most likely to see the patient on an ongoing basis.

Notes:

If an IIS uses the 1-1 approach, a patient is included in reminder/recall notifications a assessment reports for only one provi organization at a point in time. Routine, the provider organization tha the most recent vaccination is as the one provider organization responsibility for that patient.



1-M APPROACH

- May support modern population trends better than a 1-1 approach. Many individuals, especially adults, do not have a single primary vaccipation provider.
- May hold more pro er organizations accountable ral provider nay have responsibility ere may be more opportunity to ensure that the patient is oriately vaccinated.
- May result in multiple provider organizations devoting resources to the same efforts, such as reminder/recalls.

If an IIS uses the 1-M approach, a patient can be included in reminder/recall notifications and assessment reports for more than one provider organization at the same time.

Several operational scenarios presented in Chapter 6: Operational Scenarios of this document illustrate basic differences between the 1-1 and 1-M approaches.

But Wait – There's More

Chapter 4: PAIS Management

Nomenclature of statuses

According to considerations presented in Chapter 3, "PAIS Fundamentals", patient/individual statuses are defined at two levels — provider organization level and geographic jurisdiction level. Since a geographic jurisdiction can contain another geographic jurisdiction, these definitions cover a hierarchical structure of statuses at provider organization-city-county-state levels. (For a visual description of this concept, see <a href="mailto:documents-do

Patient statuses at the provider organization level are:

- Active
- Inactive, with the following reason codes:
- No longer a patient
- Lost to follow-up
- UnspecifiedDeceased

Statuses for an individual at the geographic jurisdiction level ar

- Active
- Inactive, with the following reason codes
- Outside jurisdiction
- Unknown, with the following
- No address no vaccina
- No activity for extender

Deceased

Descriptions of these statuses and conditions for transitioning from one status to another are presented with business rules in <u>Table 3</u> and are shown in diagrams in <u>Fig. 2</u>.

Implementation consideration: reason codes can be handled as sub-statuses of the "inactive" status (i.e., at the provider organization level, inactive-no longer a patient, inactive-lost to follow-up, inactive-unspecified).

4 PATIENT STATUS BUSINESS RULES NOMENCLATURE OF STATUSES

Patient status is defined at two levels—at the provider organization level and at the geographic jurisdiction level. Since a geographic jurisdiction can contain another geographic jurisdiction, these definitions cover a hierarchical structure of statuses at provider organization, city, county, and state levels (see Appendix B: Vocabulary and Domain Diagrams).

Figure 3 | List of patient statuses



Descriptions of these statuses and conditions for transitioning from one status to another are presented with business rules in Table 2 and are shown in Figure 7 in Appendix F: Patient Status Diagrams.

20

And More...

Table 8. Selected operational scenarios.

#	Scenario	Resolution	Remarks			
1.1	1. Place of Residence/Moving					
S 1 0 1	S101. Patient moved out of state, but uses instate provider organization Patient moved out of the state Patient continues to use services of a provider organization within the state	Status: Patient status at the geographic level (state) should be set to "Inactive: Outside jurisdiction" Patient status at the provider organization level should be set to "Active" with that in-state provider organization Consequences: Patient should be excluded from the geographic jurisdiction (state) reminder-recalls and assessments Patient should be included in the provider organization reminder-recalls and sessesments.	See <u>P83.0</u> "Out of state' patients. See <u>B843.1</u> inactive status at the geographic jurisdiction level with the reason code "Outside jurisdiction". See <u>B8402A</u> and <u>B8402B</u> . Active status at the provider organization level.			
S 1 0 2	S102. Patient moved out of state and ceased to use in-state provider organizations Patient moved out of the state Patient moved out of the state provider organization within the state	Status: Patient status at the geographic level (stato) of the set to "Inactive: Outside jurisdiction." Patient status at the provider organization level on the set to "Inactive: No longer a patient" for each in one provider organization(s) the last an "Act" "Viactive-Lost to Follow Up," or "Inactive specifies setus for that patient. Consequences: Patient sit of the set of the se	See <u>BR413</u> Inactive status at the geographic jurisdiction level with the reason code "Outside jurisdiction". See <u>BR404A</u> and <u>BR404B</u> inactive status at the provider organization level with the reason code "No longer a patient."			
S 1 0 3	S103: Patient address not known, patient receives services within state Patient address is not known, and Patient receives services from a provider organization within the state, Provider Org A	Status: Ratient status at the geographic jurisdiction level (state) should be set to "Active." Patient status at the provider organization level should be set to "Active" with Provider Org A. Consequences: Patient should be included in the geographic jurisdiction (state) reminder-recalls and assessments Patient should be included in Provider Org A provider organization reminder-recalls and assessments	See <u>BR412</u> Active status at the geographic jurisdiction level and <u>P303</u> 'Novid having people 'fall through the cracks'. See <u>BR402A</u> and <u>BR402B</u> Active status at the provider organization level.			

MIROW: Management of Patient Active/Inactive Status in Immunization Information Systems | 2015 45

Table 7 | Operational scenarios

PLACE OF RESIDENCE

S101. Patient moved out of state but uses in-state provider organization

· Patient moved out of the state but continues to use the services of a provider organization within the state.

- . Patient status at the geographic level (state) should be set to inactive: outside jurisdiction.
- Patient status at the provider organization level should be set to active with that in-state provider organization.

- Patient should be excluded from the geographic jurisdiction (state) reminder/recalls and assessment reports.
- Patient should be included in the provider organization reminder/recalls and a sessment reports.

References:

- . P310. Out-of-state patients
- . BR413. Patient status at the geographic jurisdiction level: inage
- BR402A. Active status at the provider organization level: 1
- . BR402B. Active status at the provider organization lev

S102. Patient moved out of state and ceased to use

Description:

. Patient moved out of the state and s services of a provider organization within the state.

- Patient status at the geographic status (aste) should be set to inactive: outside jurisdiction.
 Patient status at the provided provided in-status at the provider organization (evel should be set to "inactive: no longer a patient" for each in-state provider organization (that has an "active, inactive: lost to follow-up" or "inactive: unspecified"). status" for that patient.

Consequences:

- · Patient should be excluded from the geographic jurisdiction reminder/recalls and assessment reports.
- Patient should be excluded from the provider organization reminder/recalls and assessment reports.

- BR404A. Patient status at the provider organization level: inactive: no longer a patient: 1–1
- BR404B. Patient status at the provider organization level: inactive: no longer a patient: 1-M
- BR413. Patient status at the geographic jurisdiction level: inactive: outside jurisdiction



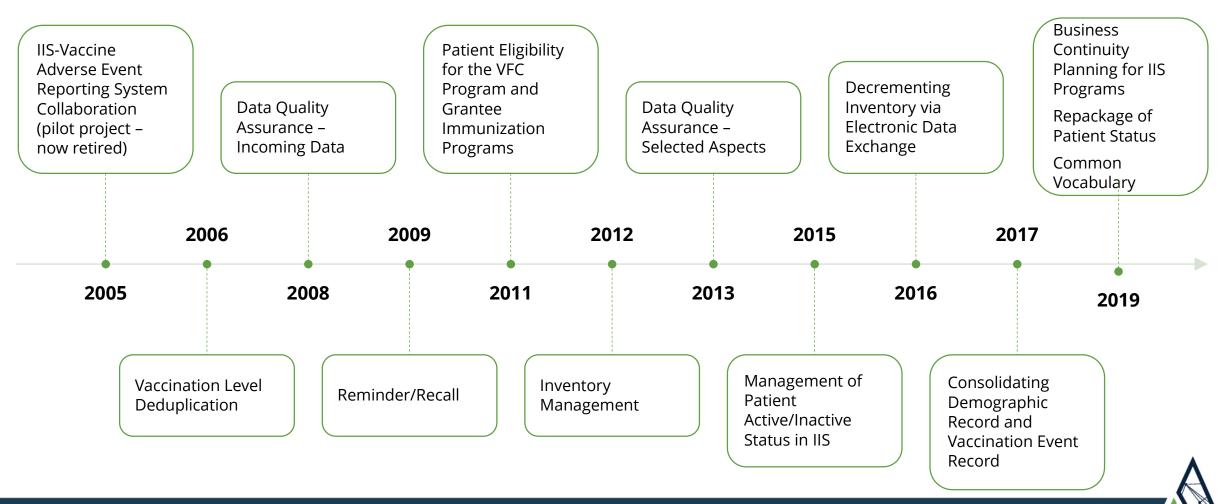
Evaluation of the pilot by the MIROW SC

- Did we meet the repackaging goals?
 - More concise, readable, user-friendly guides
 - Improved readability
 - Increase community uptake/impact
- MIROW SC felt that the substantial work involved in repackaging is not warranted unless a guide will be updated at the same time.

All MIROW Products



MIROW Products



AIRA website: http://www.immregistries.org/mirow.html

CDC website: http://www.cdc.gov/vaccines/programs/iis/activities/mirow.html

Questions?

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