



AIRA
AMERICAN IMMUNIZATION
REGISTRY ASSOCIATION

International Vaccine Codes

August 2023



Agenda

- Introductions
- Scope of discussion
- Roundtable updates
- Vaccine code set metrics
- Next steps



Welcome

- Purpose of call
 - Share updates on vaccine code set projects
 - Collect information on code sets used globally
 - Explore creation of supporting resources
 - Gap analysis of vaccine code sets
 - Mapping between vaccine code sets
 - NUVA as a public good



Introductions

- Name
- Who you are with
- What you hope to get out of this meeting?



Scope for Discussion

In-scope

- National & international vaccine code sets
- Codes to support complete vaccination histories
- Licensing of code sets
- Technical focus
- Supporting vaccine code experts

Out-of-scope

- Policy discussions, which codes sets to use
- Operation of software (IIS, EHR, etc.)



Roundtable Updates



Roundtable Updates



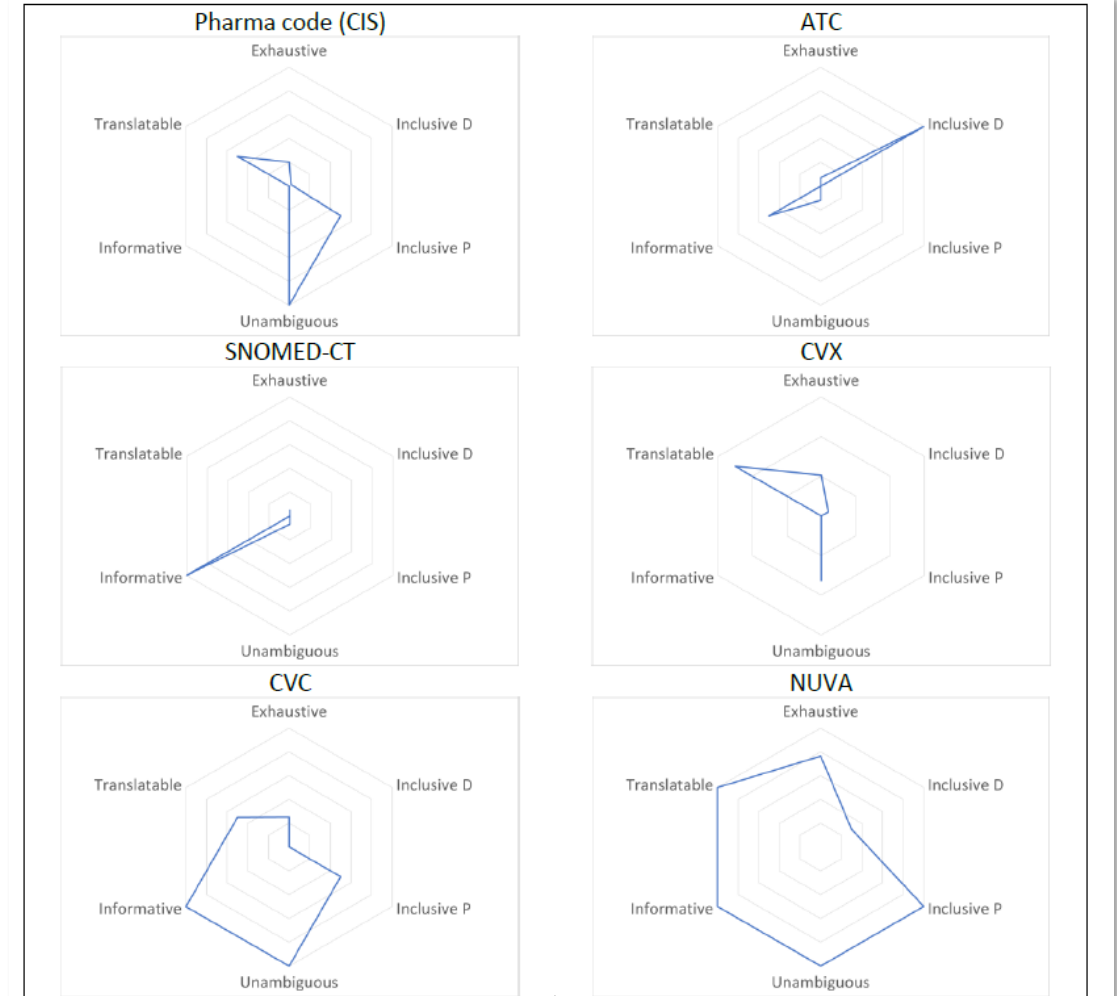
Vaccine Code Set Metrics

Nathan Bunker, AIRA



Code Set Metrics

- Complete
- Precise
- Informative
- Non-Specific
- Historical
- Mappable
- Open Licensing
- Process

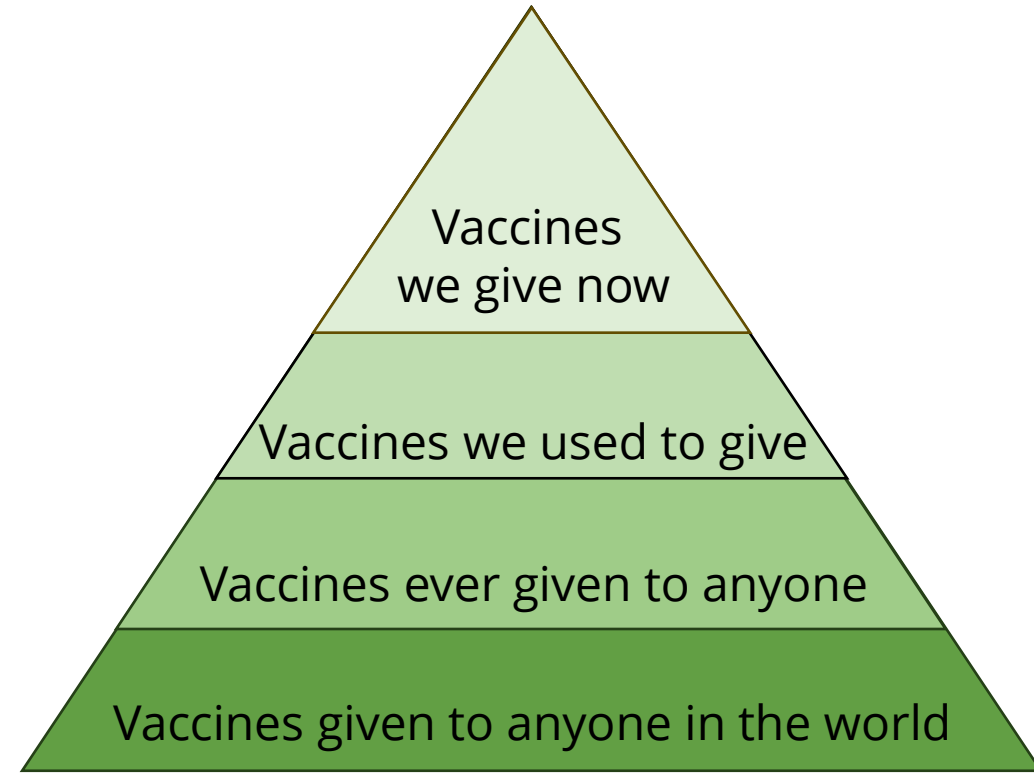


Graph 1 - Indicators per code system



Code Set Metrics

- Complete
- Precise
- Informative
- Non-Specific
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- Mappable
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- Process



Code Set Metrics

- Code Attributes
 - Complete
 - Precise
 - Informative
 - Non-Specific
 - Historical

Ensure the system captures the depth, diversity, and nuances of vaccinations. These metrics ensure accuracy, inclusivity, and clarity in every code, making the system both reliable and comprehensive.

- System Management
 - Mappable
 - Open Licensing
 - Process

Focuses on the sustainability, accessibility, and adaptability of the code system. By emphasizing integration, open access, and evolution, it guarantees the system remains relevant, user-friendly, and versatile over time.



Complete

Definition

- The code system can represent any vaccination given anywhere in the world to any person currently living.

Rationale

- A universally applicable system ensures that any individual's vaccination history can be integrated, regardless of the origin.



Complete

Definition

- The code system can represent any vaccination given anywhere in the world to any person currently living.

Possible Measures

- Count of number of unique vaccination codes out of 1 200.



Precise

Definition

- Facilitates specificity to determine whether a patient has had the requisite vaccinations for disease protection and, if not, which exact vaccinations are needed to achieve immunity.

Rationale

- Precision ensures individuals receive the necessary vaccines for full protection.



Informative

Definition

- Provides documentation, metadata, and other information in a clear, computable format, enabling correct code use by both experts and non-experts.

Rationale

- Clear information ensures correct usage and interpretation of the vaccine codes.



Non-Specific

Definition

- Incorporates both specific and generic concepts to cater to modern digital records as well as legacy paper vaccination records, both domestically and internationally.

Rationale

- A flexible system acknowledges the transition from paper to digital and accounts for variations in records.



Historical

Definition

- Supports vaccinations administered in the past that are no longer available.

Rationale

- Past vaccinations are essential for understanding immunity and potential health risks.



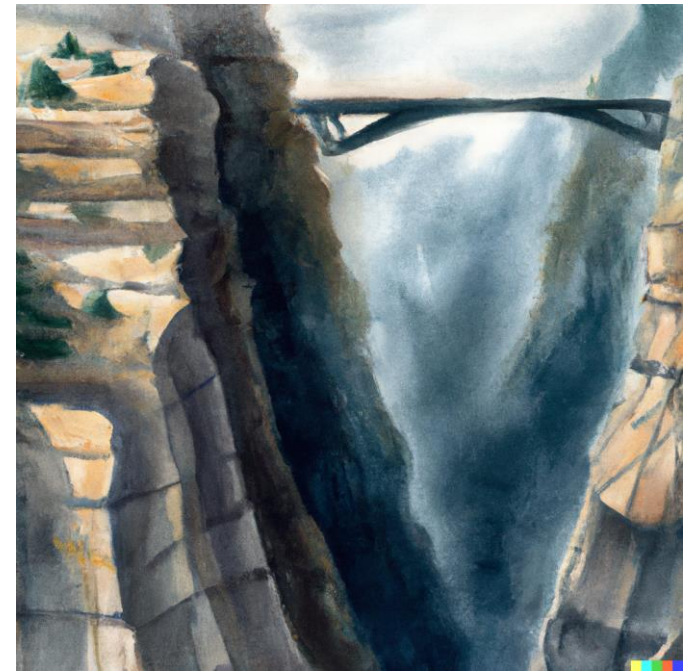
Mappable

Definition

- Allows for easy conversion to other code systems.

Rationale

- With numerous code systems globally, the capability to map or convert is essential for comprehensive data integration.



Open Licensing

Definition

- Grants unrestricted access to all code values and documentation without licensing costs.

Rationale

- The evolving nature of healthcare requires systems that can adapt and integrate new concepts.



Process

Definition

- Maintains a formal process to introduce new concepts consistently and in a timely fashion.

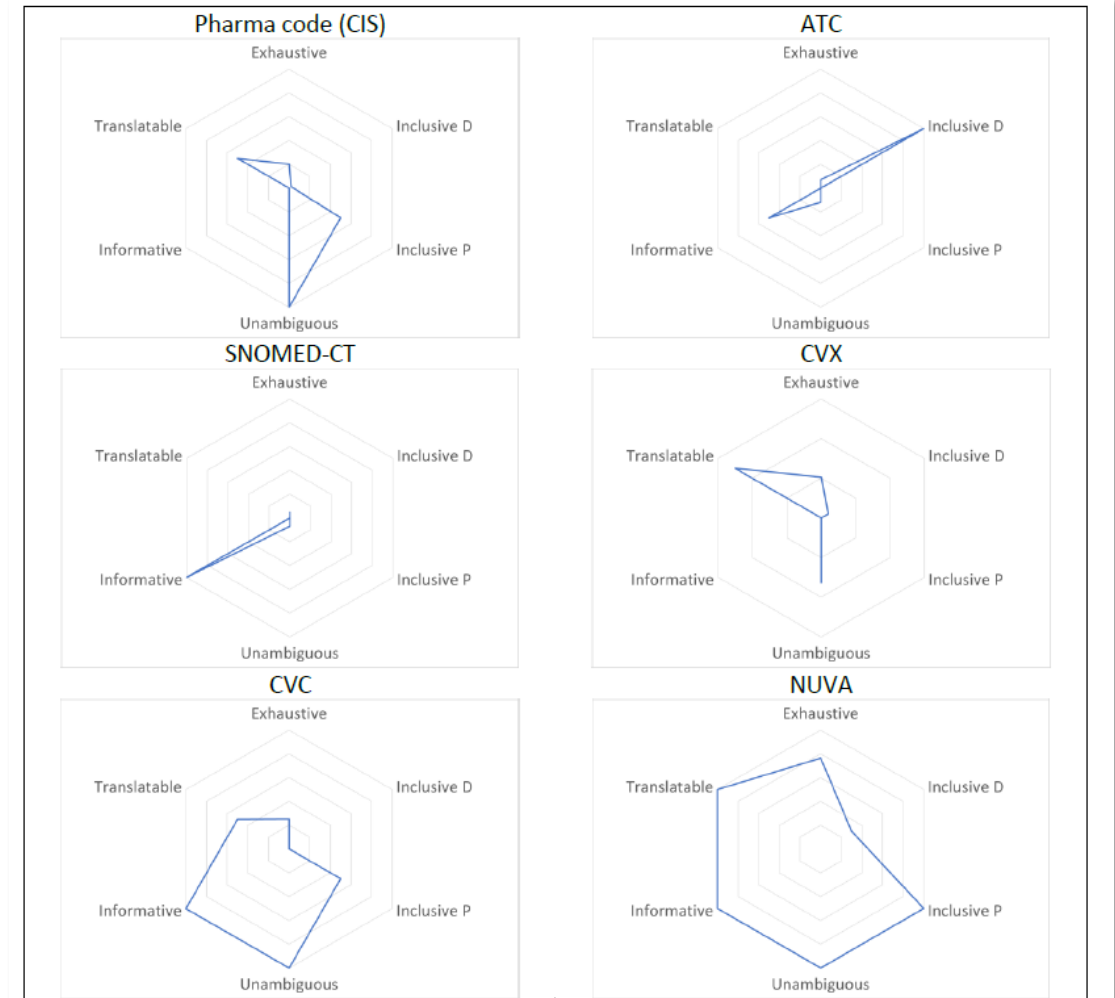
Rationale

- The evolving nature of healthcare requires systems that can adapt and integrate new concepts.



Next Steps

- Develop metrics
 - Scale from 0 to 100
- Continue to collect information about code sets



Graph 1 - Indicators per code system



Next Steps

Nathan Bunker, AIRA



Future Discussions

- Last two months we have discussed NUVA project
 - Developed to support clinical decision support
- What could NUVA be useful for?
 - Provide a structured way to think about vaccination codes
 - Help connect/map concepts between code systems
 - Used as a code system for vaccines



Future Discussions

- Interest in NUVA project
 - Mes Vaccins wants to make this into a public good
 - What should the next steps be for this?
- Engage with SNOMED-CT
 - What questions do we have for SNOMED that we need answered?



Next Steps?

- Homework
 - Send Nathan code set information
- Topics for September:
 - How to measure metrics
 - Role of NUVA, making it a public good
- Next meeting:
 - Conflict with HL7 WGM in Phoenix
 - Wednesday, September 20
 - Same time

