

CHALLENGE

Updating CDS Engines

As the Advisory Committee on Immunization Practices (ACIP) recommendations are published, evaluation and forecasting engines—known as Clinical Decision Support (CDS) engines—need to be updated to reflect the new vaccination recommendations.

A Complex Process

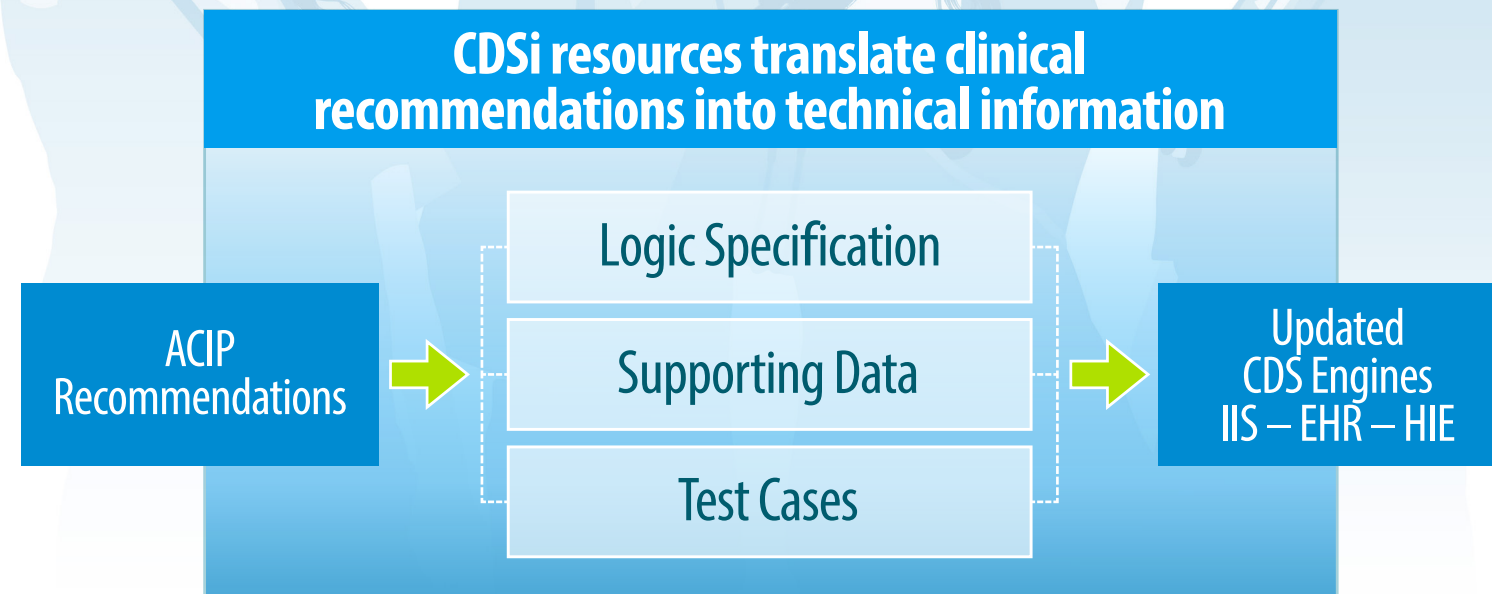
Translating the clinical language of the ACIP recommendations into technical logic that can be processed within CDS engines is a time-consuming and complex process that occurs mostly independently within the different Health Information Systems.

The result? CDS engine outputs that often varied and did not always match the expectations of clinical subject matter experts.

SOLUTION

CDSi Resources

Easing the Process of Updating CDS Engines



Logic Specification

Describes the functionality required to evaluate and forecast based on a patient's immunization history; encompasses business rules, decision tables, and a processing definition



Supporting Data

Describe, by antigen, various factors and their accompanying sets of values to be considered when implementing ACIP recommendations

Test Cases

Validate the recommendations delivered by CDS engines



RESULT

The Right Immunization at the Right Time

The Clinical Decision Support for Immunizations (CDSi) Resources provide a single, authoritative, implementation-neutral foundation for development and maintenance of CDS engines.

The Value of CDSi resources

- Makes it easier to develop and maintain immunization evaluation and forecasting engines
- Increases the accuracy and consistency of immunization evaluation and forecasting
- Improves the timeliness of accommodating new and updated ACIP recommendations
- Ensures a patient's immunization status is current, accurate, and consistent

Find the CDSi resources and training materials at www.cdc.gov/vaccines/programs/iis/cdsi.html