

Terminology

- IIS = Immunization Information Systems
- EHR/EMR = Electronic Health/Medical Record system
- Health Information Systems = include IIS, EHRs, HIEs, Pharmacy systems, etc.
- CDS = Clinical Decision Support



What is Clinical Decision Support (CDS)?

It is the **GPS in your** provider's toolkit. It uses:

- medical guidelines
- patient data (like age, medications, or lab results), and
- evidence-based rules (ACIP recommendations)

Clarity, Consistency, and Computability



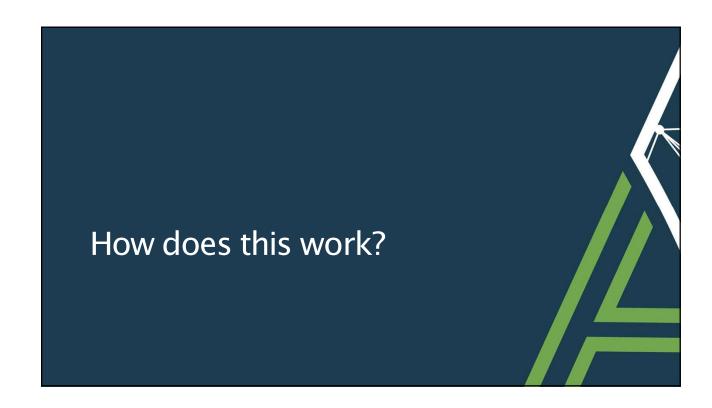
Also Known As Evaluation & Recommendation

IIS consolidates information from Health Information Systems to create an individual's vaccination history

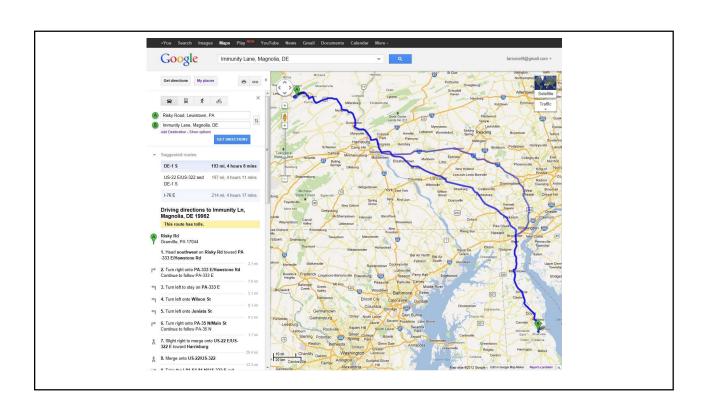
 IIS returns recommendations based on known information **Evaluation** – reviews a person's vaccination history, age, etc.

Recommends – vaccines based on individual factors and the ACIP recommendations

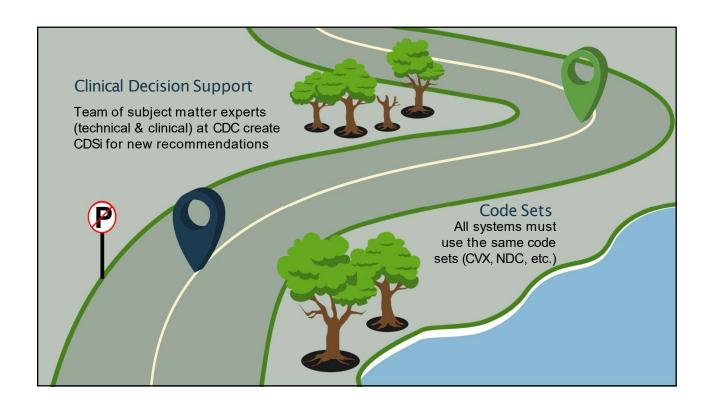












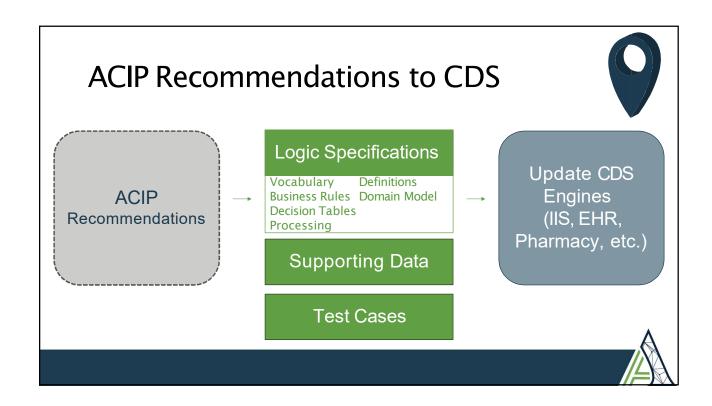
Code Sets are Critical Elements

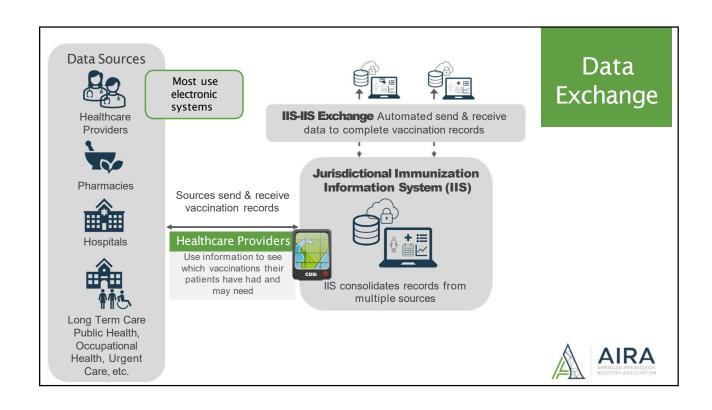


All systems must use the same code sets (CVX, NDC, etc.)

- It prevents errors
- It helps systems talk to each other accurately
- It allows data to be shared and understood quickly, even across different software systems
- Code sets must be updated before CDS

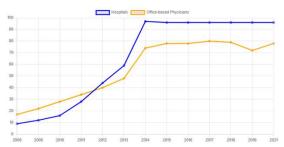








Implementation



As of 2021, 78% of office-based physicians and 96% of non-federal acute care hospitals adopted a certified EHR

In 2011, 28% of hospitals and 34% of physicians had adopted an EHR

All systems must update their code sets and CDS

Every. Single. System. Every. Single. Time.

There are more than 200,000 independent connections with IIS



 $https://\underline{www.healthit.gov/data/quickstats/national-trends-hospital-and-physician-adoption-electronic-health-records}$

Communication Opportunities



- Including technology in the rollout processes (at all levels)
 will help ensure a smooth rollout
 - · Code sets first, CDS second
 - IIS may be updated, but did the EHR update?
 - Prioritization there are a million priorities, and communicating the need before you need it - is critical
- Risk-based recommendations
 - IIS don't have the proper data to do a great job



Communication Opportunities



- Querying the IIS doesn't return all vaccines an individual may have received
 - All vaccinating providers must submit their vaccines to an IIS in a timely manner
 - An IIS (or any system) can only provide information that has been sent to it
- Shared Clinical Decision Making
 - We need a national conversation about who makes the recommendation – is this the patient, the provider, the pharmacy?



In Summary

- Code sets and CDS are a powerful tool, but it is a team effort across the systems to make it work correctly
- If you work in a clinic, engage your IT staff and/or vendors in your workflows for new/updated products (flu, Covid, etc.,)
 - · Add testing these system to your list of product rollouts
- Ask that Pharma, FDA, AMA, CDC, and others keep health data systems at the table for CDS conversations – we can help make decisions easier to implement!

