The Immunization Calculation Engine, or ICE, is an open source immunization evaluation and forecasting system that is used to determine if vaccines that were administered to a patient are clinically valid (evaluation) and to project what doses are due now and in the future (forecasting).

ICE is used by EHRs, PHRs, and public health registries to provide both clinical decision support at the point of care and population-level vaccine coverage assessments for a practice, health system or jurisdiction.

**Typical system-to-system workflow using ICE**

1. 
   - EHR, PHR OR REGISTRY
     - Generates immunization forecasting request

2. 
   - REQUEST
     - Sent to ICE web service

3. 
   - ice
     - Generates response
     - Calculates evaluation and forecast

4. 
   - ice
     - Admin utility for testing and configuring ICE

5. 
   - RESPONSE
     - Returned to sender

6. 
   - ice
     - Displays results

**Why Choose ICE?**

- Compliant with clinical guidelines (ACIP)
- Open source software – no license cost or vendor lock-in
- Rigorously developed, tested and maintained by HLN
- Standards-based
- Scalable for fast response time and many users
- Flexible deployment and support including local and cloud-based options

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Innovators in Public Health Informatics

For more than twenty years HLN has been a leading public health informatics consulting company focused on developing and supporting robust technical solutions that address pressing public health needs. As a recognized thought leader in the informatics community, HLN is dedicated to the development, improvement, promulgation, and use of Open Source solutions in health information technology.

Much of our Open Source work is focused on clinical decision support (CDS) applications built using OpenCDS, an open source clinical decision support platform. This includes our Immunization Calculation Engine (ICE) and Reportable Condition Knowledge Management System (RCKMS), which is supporting the national strategy for electronic case reporting to public health.

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