

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

ICE is designed as a modular component, to work in conjunction with any health information system containing immunization data to provide clinical decision support at the point of care and inform immunization coverage assessments.



HLN was awarded the 2017 Upshot Award for Excellence in Vaccine Supply, Access, and Use by the National Vaccine Program Office for ICE.



- Follows best-evidence-based clinical guidelines issued by the ACIP, CDC, and professional medical societies
- Rigorously developed, tested and maintained by HLN
- Standards-based application programming interface (API)
- Flexible deployment options
- Currently used by immunization information systems (IISs), electronic health record (EHRs), and personal health record (PHRs)



ICE was chosen by the Digital Public Goods Alliance in 2021 as an innovative openly licensed technology and is listed in their Digital Public Goods registry.

ABOUT HLN CONSULTING, LLC



For more than twenty five 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 (eCR) to public health.



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