

**Table 1**

## Standards Reviewed and Their Use

<b>Standard</b>	<b>Usage</b>	<b>Major Stakeholders</b>	<b>Systems</b>
GS1	Used by manufacturers to register GTINs and print the two-dimensional barcodes; used by other systems that read the barcode	Vendors, providers, registries, CDC, IIS program managers, health plans, pharmacy immunizers	EHR vendors, IISs, practice management systems, payer billing systems, pharmacy systems
HL7 EHR Functional Model	Used for information exchange in health information technology	Vendors, providers, registries, CDC	EHR vendors, IISs, practice management systems
CDC 2.5.1 implementation guide	Provides translation of HL7 standards for the provider community	Vendors, providers, IIS program managers, CDC	EHR vendors, IISs, practice management systems
X12 837P transaction standard (4010 and 5010)	Used by providers to submit claims	Providers, health plans	EHR vendors, practice management systems, payer billing systems
NCPDP (pharmacy EDI)	Used by pharmacies for documentation and billing of immunizations administered in pharmacies	Pharmacy immunizers	Pharmacy systems

*Abbreviations:* CDC, Centers for Disease Control and Prevention; EDI, Electronic Data Interchange; EHR, electronic health record; GTIN, Global Trade Item Number; HL7, Health Level Seven; IIS, immunization information system; NCPDP, National Council for Prescription Drug Programs.